

Friday, September 25, 1998

Los Alamos
NATIONAL LABORATORY

REQUEST NUMBER: 4659R

ANALYSIS TYPE: ORG

ATTN: Maren Beery

KEMRON

109 STARLITE PARK

MARIETTA, OH 45750

Please analyze the enclosed samples
according to the schedule indicated:

These samples are on:

SHIP DATE: 9/25/98

REPORT DUE: 10/25/98

TURN AROUND REQ'D: 30 days

LANL Request Number: 4659R

Per Agreement Number: 7797L0014-9S

Project Cost Code: MR3R12082642

RAD SCREENING: Not Required

COMMENTS: 15 - 1086 , GG;

LANL ER SMO CONTACT: Joylene Valdez MS H865 5056659968

Signature: 

ANALYSIS ORDER CODE	ANALYTE(S)	SAMPLE ID	CONT ID	SAMPLE MATRIX	DATE SAMPLED	COMMENTS
PESTPCB		RE15-98-0029	06	S	9/23/98	
SEMIN		RE15-98-0029	07	S	9/23/98	
VOAGCMSN		RE15-98-0029	08	S	9/23/98	
PESTPCB		RE15-98-0030	06	S	9/23/98	
SEMIN		RE15-98-0030	07	S	9/23/98	
VOAGCMSN		RE15-98-0030	08	S	9/23/98	
PESTPCB		RE15-98-0031	06	S	9/23/98	
SEMIN		RE15-98-0031	07	S	9/23/98	
VOAGCMSN		RE15-98-0031	08	S	9/23/98	
PESTPCB		RE15-98-0032	06	S	9/23/98	
SEMIN		RE15-98-0032	07	S	9/23/98	
VOAGCMSN		RE15-98-0032	08	S	9/23/98	
PESTPCB		RE15-98-0033	06	S	9/23/98	
SEMIN		RE15-98-0033	08	S	9/23/98	
VOAGCMSN		RE15-98-0033	09	S	9/23/98	
PESTPCB		RE15-98-0034	06	S	9/23/98	
SEMIN		RE15-98-0034	08	S	9/23/98	
VOAGCMSN		RE15-98-0034	09	S	9/23/98	
PESTPCB		RE15-98-0035	06	S	9/23/98	
SEMIN		RE15-98-0035	07	S	9/23/98	
VOAGCMSN		RE15-98-0035	08	S	9/23/98	
PESTPCB		RE15-98-0036	06	S	9/23/98	
SEMIN		RE15-98-0036	08	S	9/23/98	
VOAGCMSN		RE15-98-0036	09	S	9/23/98	

ANALYSIS ORDER CODE	ANALYTE(S)	SAMPLE ID	CONT ID	SAMPLE MATRIX	DATE SAMPLED	COMMENTS
PESTPCB		RE15-98-0037	06	S	9/23/98	
SEMIN		RE15-98-0037	07	S	9/23/98	
VOAGCMSN		RE15-98-0037	08	S	9/23/98	

Friday, September 25, 1998

CHAIN OF CUSTODY DOCUMENT NUMBER: 4659RC

Los Alamos
NATIONAL LABORATORY

REQUEST NUMBER: 4659R

ANALYSIS TYPE: ORG

ATTN: Maren Beery

KEMRON

109 STARLITE PARK

MARIETTA, OH 45750

SAMPLE ID	CONT ID	CONTAINER DESCRIPTION	ANALYSIS ORDER CODE	PRESERVATIVE	MATRIX
RE15-98-0029	06	125 ml Glass	PESTPCB	Ice	S
RE15-98-0029	07	125 ml Glass	SEMIN	Ice	S
RE15-98-0029	08	125 ml Septum Amber Glass	VOAGCMSN	Ice	S
RE15-98-0030	08	125 ml Glass	PESTPCB	Ice	S
RE15-98-0030	07	125 ml Glass	SEMIN	Ice	S
RE15-98-0030	08	125 ml Septum Amber Glass	VOAGCMSN	Ice	S
RE15-98-0031	08	125 ml Glass	PESTPCB	Ice	S
RE15-98-0031	07	125 ml Glass	SEMIN	Ice	S
RE15-98-0031	08	125 ml Septum Amber Glass	VOAGCMSN	Ice	S
RE15-98-0032	06	125 ml Glass	PESTPCB	Ice	S
RE15-98-0032	07	125 ml Glass	SEMIN	Ice	S
RE15-98-0032	08	125 ml Septum Amber Glass	VOAGCMSN	Ice	S
RE15-98-0033	06	125 ml Glass	PESTPCB	Ice	S
RE15-98-0033	08	125 ml Glass	SEMIN	Ice	S
RE15-98-0033	09	125 ml Septum Amber Glass	VOAGCMSN	Ice	S
RE15-98-0034	06	125 ml Glass	PESTPCB	Ice	S
RE15-98-0034	08	125 ml Glass	SEMIN	Ice	S
RE15-98-0034	09	125 ml Septum Amber Glass	VOAGCMSN	Ice	S
RE15-98-0035	06	125 ml Glass	PESTPCB	Ice	S
RE15-98-0035	07	125 ml Glass	SEMIN	Ice	S

Relinquished By:

Date Time

Received By:

Date Time

S. Hagelberg S. Hag
PRINTED NAME SIGNATURE

1341 9.25.98
Date Time

PRINTED NAME SIGNATURE

PRINTED NAME SIGNATURE

PRINTED NAME SIGNATURE

PRINTED NAME SIGNATURE

PRINTED NAME SIGNATURE

Received for DISPOSAL By:

Date Time

Remarks:

PRINTED NAME SIGNATURE

PRINTED NAME SIGNATURE

Friday, September 25, 1998

COC DOC NUMBER: 4659RC

REQUEST NUMBER: 4659R

Page 2

SAMPLE ID	CONT ID	CONTAINER DESCRIPTION	ANALYSIS ORDER CODE		
RE15-98-0035	08	125 ml Septum Amber Glass	VOAGCMSN	Ice	S
RE15-98-0036	06	125 ml Glass	PESTPCB	Ice	S
RE15-98-0036	08	125 ml Glass	SEMIN	Ice	S
RE15-98-0036	09	125 ml Septum Amber Glass	VOAGCMSN	Ice	S
RE15-98-0037	06	125 ml Glass	PESTPCB	Ice	S
RE15-98-0037	07	125 ml Glass	SEMIN	Ice	S
RE15-98-0037	08	125 ml Septum Amber Glass	VOAGCMSN	Ice	S

Final Page of CHAIN OF CUSTODY DOCUMENT FOR REQUEST NUMBER 4659R

Page 2

Relinquished By:

Date Time

SI Hagelberg  9.25.98 1341

PRINTED NAME

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PRINTED NAME

SIGNATURE

Received for DISPOSAL By:

Date Time

PRINTED NAME

SIGNATURE

Received By:

Date Time

PRINTED NAME

SIGNATURE

PRINTED NAME

SIGNATURE

PRINTED NAME

SIGNATURE

Remarks:

Los Alamos National Laboratory Environmental Restoration (Los Alamos, NM 87545)
CHAIN OF CUSTODY/REQUEST FOR ANALYSIS

Technical Area 15	Send Lab Report to Nancy Ness	Field Unit Leader Roy Michelotti (505)665-7444
Operable Unit 1086	M892	
Date 09/23/98	LANL Destination SMO	Turnaround 30 days
OU Contact John McCann	LANL Contact John Miglio	Lab Report Required 10/23/98
Contact Phone No (505) 665-1091	LANL Mail Stop	Charge Code MR3R12082642

Relinquished by: L. Karl Mappess (Signature): <i>[Signature]</i> Affiliation: ICF Kaiser Engineers, Inc	Date: 9-25-98 Time: 13:55	Relinquished by: (Signature): Affiliation:	Date: (Signature): Affiliation:	Date:
Received by: (Signature): <i>[Signature]</i> Affiliation:	Time:	Received by: (Signature):	Time:	Received by: (Signature):
POSSIBLE HAZARD IDENTIFICATION: (please indicate if sample(s) are hazardous materials and/or suspected to contain high levels of hazardous substances): Radiological _____ Highly Toxic _____ Flammable _____ Skin Irritant _____ Non-Hazard _____ Other _____				
Comments:			SCREENING METHOD: NA SAMPLE DISPOSAL: Disposal by Lab	

Field Unique Sample #/ID	Cont ID	Date & Time Collected	Sample Container Volume/Material	Matrix	Preserv	ANALYSIS REQUESTED: (SMO Order Codes)	REMARKS (Conditions of receipt, etc.)
RE15-98-0029	01	09/23/98 1345	500 ml Polyethylene	Soil	None	GSPEC	
RE15-98-0029	02	09/23/98 1345	500 ml Polyethylene	Soil	None	H3	
RE15-98-0029	03	09/23/98 1345	125 ml Glass	Soil	Ice	HEXP	
RE15-98-0029	04	09/23/98 1345	125 ml Polyethylene	Soil	None	ISOU	
RE15-98-0029	05	09/23/98 1345	125 ml Polyethylene	Soil	Ice	METAL	
RE15-98-0029	06	09/23/98 1345	125 ml Glass	Soil	Ice	PESTPCB	
RE15-98-0029	07	09/23/98 1345	125 ml Glass	Soil	Ice	SEMIN	
RE15-98-0029	08	09/23/98 1345	125 ml Septum Amber G	Soil	Ice	VOAGCMSN	
RE15-98-0030	01	09/23/98 1400	500 ml Polyethylene	Soil	None	GSPEC	
RE15-98-0030	02	09/23/98 1400	500 ml Polyethylene	Soil	None	H3	
RE15-98-0030	03	09/23/98 1400	125 ml Glass	Soil	Ice	HEXP	
RE15-98-0030	04	09/23/98 1400	125 ml Polyethylene	Soil	None	ISOU	

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Los Alamos National Laboratory Environmental Restoration (Los Alamos, NM 87545)
CHAIN OF CUSTODY/REQUEST FOR ANALYSIS

Technical Area 15	Send Lab Report to Nancy Ness	Field Unit Leader Roy Michelotti (505)665-7444
Operable Unit 1086		
Date 09/23/98	LANL Destination SMO	Turnaround 30 days
OU Contact John McCann	LANL Contact John Miglio	Lab Report Required 10/23/98
Contact Phone No (505) 665-1091	LANL Mail Stop	Charge Code MR3R12082642

Field Unique Sample #/ID	Cont ID	Date & Time Collected	Sample Container Volume/Material	Matrix	Preserv	ANALYSIS REQUESTED: (SMO Order Codes)	REMARKS (Conditions of receipt, etc.)
~RE15-98-0030	05	09/23/98 1400	125 ml Polyethylene	Soil	Ice	METAL	
~RE15-98-0030	06	09/23/98 1400	125 ml Glass	Soil	Ice	PESTPCB	
~RE15-98-0030	07	09/23/98 1400	125 ml Glass	Soil	Ice	SEMIN	
~RE15-98-0030	08	09/23/98 1400	125 ml Septum Amber G	Soil	Ice	VOAGCMSN	
~RE15-98-0031	01	09/23/98 1410	500 ml Polyethylene	Soil	None	GSPEC	
~RE15-98-0031	02	09/23/98 1410	500 ml Polyethylene	Soil	None	H3	
~RE15-98-0031	03	09/23/98 1410	125 ml Glass	Soil	Ice	HEXP	
~RE15-98-0031	04	09/23/98 1410	125 ml Polyethylene	Soil	None	ISOU	
~RE15-98-0031	05	09/23/98 1410	125 ml Polyethylene	Soil	Ice	METAL	
~RE15-98-0031	06	09/23/98 1410	125 ml Glass	Soil	Ice	PESTPCB	
~RE15-98-0031	07	09/23/98 1410	125 ml Glass	Soil	Ice	SEMIN	
~RE15-98-0031	08	09/23/98 1410	125 ml Septum Amber G	Soil	Ice	VOAGCMSN	
~RE15-98-0032	01	09/23/98 1435	500 ml Polyethylene	Soil	None	GSPEC	
~RE15-98-0032	02	09/23/98 1435	500 ml Polyethylene	Soil	None	H3	
~RE15-98-0032	03	09/23/98 1435	125 ml Glass	Soil	Ice	HEXP	
~RE15-98-0032	04	09/23/98 1435	125 ml Polyethylene	Soil	None	ISOU	
~RE15-98-0032	05	09/23/98 1435	125 ml Polyethylene	Soil	Ice	METAL	
~RE15-98-0032	06	09/23/98 1435	125 ml Glass	Soil	Ice	PESTPCB	
~RE15-98-0032	07	09/23/98 1435	125 ml Glass	Soil	Ice	SEMIN	
~RE15-98-0032	08	09/23/98 1435	125 ml Septum Amber G	Soil	Ice	VOAGCMSN	
~RE15-98-0033	01	09/23/98 1451	500 ml Polyethylene	Soil	None	GSPEC	
~RE15-98-0033	02	09/23/98 1451	500 ml Polyethylene	Soil	None	H3	
~RE15-98-0033	03	09/23/98 1451	125 ml Glass	Soil	Ice	HEXP	
~RE15-98-0033	04	09/23/98 1451	125 ml Polyethylene	Soil	None	ISOU	
~RE15-98-0033	05	09/23/98 1451	125 ml Polyethylene	Soil	Ice	METAL	

Original - LANL Destination

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Los Alamos National Laboratory Environmental Restoration (Los Alamos, NM 87545)
CHAIN OF CUSTODY/REQUEST FOR ANALYSIS

Technical Area	15	Send Lab Report to Nancy Ness	Field Unit Leader Roy Michelotti (505)665-7444
Operable Unit	1086	M892	
Date	09/23/98	LANL Destination SMO	Turnaround 30 days
OU Contact	John McCann	LANL Contact John Miglio	Lab Report Required 10/23/98
Contact Phone No	(505) 665-1091	LANL Mail Stop	Charge Code MF3R12082642

Field Unique Sample #/ID	Cont ID	Date & Time Collected	Sample Container Volume/Material	Matrix	Preserv	ANALYSIS REQUESTED: (SMO Order Codes)	REMARKS (Conditions of receipt, etc.)
RE15-98-0033	06	09/23/98 1451	125 ml Glass	Soil	Ice	PESTPCB	
RE15-98-0033	08	09/23/98 1451	125 ml Glass	Soil	Ice	SEMIN	
RE15-98-0033	09	09/23/98 1451	125 ml Septum Amber G	Soil	Ice	VOAGCMSN	
RE15-98-0034	01	09/23/98 1505	500 ml Polyethylene	Soil	None	GSPEC	
RE15-98-0034	02	09/23/98 1505	500 ml Polyethylene	Soil	None	H3	
RE15-98-0034	03	09/23/98 1505	125 ml Glass	Soil	Ice	HEXP	
RE15-98-0034	04	09/23/98 1505	125 ml Polyethylene	Soil	None	ISOU	
RE15-98-0034	05	09/23/98 1505	125 ml Polyethylene	Soil	Ice	METAL	
RE15-98-0034	06	09/23/98 1505	125 ml Glass	Soil	Ice	PESTPCB	
RE15-98-0034	08	09/23/98 1505	125 ml Glass	Soil	Ice	SEMIN	
RE15-98-0034	09	09/23/98 1505	125 ml Septum Amber G	Soil	Ice	VOAGCMSN	
RE15-98-0035	01	09/23/98 1525	500 ml Polyethylene	Soil	None	GSPEC	
RE15-98-0035	02	09/23/98 1525	500 ml Polyethylene	Soil	None	H3	
RE15-98-0035	03	09/23/98 1525	125 ml Glass	Soil	Ice	HEXP	
RE15-98-0035	04	09/23/98 1525	125 ml Polyethylene	Soil	None	ISOU	
RE15-98-0035	05	09/23/98 1525	125 ml Polyethylene	Soil	Ice	METAL	
RE15-98-0035	06	09/23/98 1525	125 ml Glass	Soil	Ice	PESTPCB	
RE15-98-0035	07	09/23/98 1525	125 ml Glass	Soil	Ice	SEMIN	
RE15-98-0035	08	09/23/98 1525	125 ml Septum Amber G	Soil	Ice	VOAGCMSN	
RE15-98-0036	01	09/23/98 1540	500 ml Polyethylene	Soil	None	GSPEC	
RE15-98-0036	02	09/23/98 1540	500 ml Polyethylene	Soil	None	H3	
RE15-98-0036	03	09/23/98 1540	125 ml Glass	Soil	Ice	HEXP	
RE15-98-0036	04	09/23/98 1540	125 ml Polyethylene	Soil	None	ISOU	
RE15-98-0036	05	09/23/98 1540	125 ml Polyethylene	Soil	Ice	METAL	
RE15-98-0036	06	09/23/98 1540	125 ml Glass	Soil	Ice	PESTPCB	

Original - LANL Destination

Yellow - RPF

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Los Alamos National Laboratory Environmental Restoration (Los Alamos, NM 87545)
CHAIN OF CUSTODY/REQUEST FOR ANALYSIS

Technical Area	15	Send Lab Report to	Nancy Ness	Field Unit Leader	Roy Michelotti (505)665-7444
Operable Unit	1086				
Date	09/23/98	LANL Destination	SMO	Turnaround	30 days
OU Contact	John McCann	LANL Contact	John Miglio	Lab Report Required	10/23/98
Contact Phone	No (505) 665-1091	LANL Mail Stop		Charge Code	MR3R12082642

Field Unique Sample #/ID	Cont ID	Date & Time Collected	Sample Container Volume/Material	Matrix	Preserv	ANALYSIS REQUESTED: (SMO Order Codes)	REMARKS (Conditions of receipt, etc.)
RE15-98-0036	08	09/23/98 1540	125 ml Glass	Soil	Ice	SEMIN	
RE15-98-0036	09	09/23/98 1540	125 ml Septum Amber G	Soil	Ice	VOAGCMSN	
RE15-98-0037	01	09/23/98 1554	500 ml Polyethylene	Soil	None	GSPEC	
RE15-98-0037	02	09/23/98 1554	500 ml Polyethylene	Soil	None	H3	
RE15-98-0037	03	09/23/98 1554	125 ml Glass	Soil	Ice	HEXP	
RE15-98-0037	04	09/23/98 1554	125 ml Polyethylene	Soil	None	ISOU	
RE15-98-0037	05	09/23/98 1554	125 ml Polyethylene	Soil	Ice	METAL	
RE15-98-0037	06	09/23/98 1554	125 ml Glass	Soil	Ice	PESTPCB	
RE15-98-0037	07	09/23/98 1554	125 ml Glass	Soil	Ice	SEMIN	
RE15-98-0037	08	09/23/98 1554	125 ml Septum Amber G	Soil	Ice	VOAGCMSN	

SCREENING DATA RELEASE FORM

To: Field Support Facility

From: KARL MANESS, JCF KE

TA/OU: ~~1086/15~~ TA-15/1086

The following samples were received at the Field Support Facility (FSF) without screening data.

SAMPLE #

I understand that these samples will not be shipped until radiological screening data and corresponding C-O-C documentation arrive at the FSF. I further understand that it is my responsibility to ensure this information arrives in a timely manner to the FSF. If holding times are missed because screening data does arrive, I will pick up the samples and return them to the site from which they were collected.

The following samples do not require screening data for the reasons stated below:

SAMPLES # RE 15-98-0029 thru RE 15-98-0037

Reason:

Field Screening Data Attached

Signature



, Date

9/24/98

Los Alamos National Laboratory
Los Alamos, NM 87545

Date: 09/24/98

NOTIFICATION OF RADIOACTIVE MATERIAL SHIPMENT

To: SND

Phone/Fax No. _____

From: ICF Kaiser

Phone/Fax No. 505 661-5200 661-5222

Please expect the following samples to arrive at your laboratory.

Sample ID #	Isotope (if known)	Activity per Unit Mass or Volume (pCi/g, μ Ci/L, etc.)	Contamination Level (d/m/100cm ²)		Comments
			Gross α	Gross β	
<u>RE15-98-0029</u>	<u>Du</u>	<u>< 2</u>	<u>NDA</u>	<u>NDA</u>	<u>Dry Soil</u>
<u>30</u>					
<u>31</u>					
<u>32</u>					
<u>33</u>					
<u>34</u>					
<u>35</u>					
<u>36</u>					
<u>37</u>	<u>Du</u>	<u>< 2</u>	<u>NDA</u>	<u>NDA</u>	<u>Dry Soil</u>

Screening Instrument: Ludlum 2221 w 2x2 Ludlum Model 12 PLC Probe

Analyst: Ph Bah

KEMRON Environmental Services
109 Starlite Park
Marietta, Ohio 45750
Phone: (740) 373-4071

COPY

Los Alamos National Laboratory
SMO, TA-3, Bldg. 271
MS H865, Drop Point OIU
Los Alamos, NM 87545-
Attention: Joylene Valdez

Login #: L9809522
Report Date: 10/21/98
Work ID: 4659R/MR3R12082642
Date Received: 09/26/98

PO Number:
Account Number: LANL-295

SAMPLE IDENTIFICATION

Sample Number	Sample Description	Sample Number	Sample Description
L9809522-01	RE15-98-0029	L9809522-02	RE15-98-0030
L9809522-03	RE15-98-0031	L9809522-04	RE15-98-0032
L9809522-05	RE15-98-0033	L9809522-06	RE15-98-0034
L9809522-07	RE15-98-0035	L9809522-08	RE15-98-0036
L9809522-09	RE15-98-0037		

All results on solids/sludges are reported on a dry weight basis, where applicable, unless otherwise specified. This report shall not be reproduced, except in full, without the written approval of KEMRON.

NYSDOH ELAP ID: 10861

Certified By
Dennis S. Tepe

LogIn #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L9809522-01
Client Sample ID: RE15-98-0029
Site/Work ID: 4659R/MR3R12082642

Matrix: Soil
Collected: 09/23/98 N/A

% Solid: 98
COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	% wt.	98		1.0	1	N/A	DKM	10/15/98	13:50	D2216-90

Product: 80811A - Pesticides & PCB's - LANL

Lab Sample ID: L9809522-01
Client Sample ID: RE15-98-0029
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCUP Extract Date: N/A
Extract Date: 09/30/98
Analysis Date: 09/30/98 Time:

Date Collected: 09/23/98
Instrument: HP9
Analyst: ECL
Lab File ID: 403.D

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A
% Solid: 98
Method: 8081A\3550B
Run ID: R53252
Batch: WC46843

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
319-84-6	alpha-BHC.....	ug/kg	ND		1.7	1
319-85-7	beta-BHC.....	ug/kg	ND		1.7	1
319-86-8	delta-BHC.....	ug/kg	ND		1.7	1
58-89-9	gamma-BHC (Lindane)	ug/kg	ND		1.7	1
76-44-8	Heptachlor.....	ug/kg	ND		1.7	1
309-00-2	Aldrin.....	ug/kg	ND		1.7	1
1024-57-3	Heptachlor epoxide.....	ug/kg	ND		1.7	1
959-98-8	Endosulfan I.....	ug/kg	ND		1.7	1
60-57-1	Endosulfan.....	ug/kg	ND		1.7	1
72-55-9	4,4'-DDE.....	ug/kg	ND		3.4	1
72-20-8	Endrin.....	ug/kg	ND		3.4	1
33213-65-9	Endosulfan II.....	ug/kg	ND		3.4	1
72-54-8	4,4'-DDD.....	ug/kg	ND		3.4	1
1031-07-8	Endosulfan sulfate.....	ug/kg	ND		3.4	1
50-29-3	4,4'-DDT.....	ug/kg	ND		3.4	1
72-43-5	Methoxychlor.....	ug/kg	ND		17	1
53494-70-5	Endrin ketone.....	ug/kg	ND		3.4	1
7421-93-4	Endrin aldehyde.....	ug/kg	ND		0.34	1
5103-71-9	alpha Chlordane.....	ug/kg	ND		1.7	1
8001-35-2	gamma Chlordane.....	ug/kg	ND		1.7	1
12674-11-2	Toxaphene.....	ug/kg	ND		170	1
11104-28-2	Aroclor-1016.....	ug/kg	ND		34	1
11104-28-2	Aroclor-1221.....	ug/kg	ND		67	1
11141-16-5	Aroclor-1232.....	ug/kg	ND		34	1

RL = Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 8081LA - Pesticides & PCB's - LANL

Lab Sample ID: L9809522-01
Client Sample ID: RE15-98-0029
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: 09/30/98
Analysis Date: 09/30/98 Time:

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HP9
Analyst: RCL
Lab File ID: 403.D
Sample Weight: N/A
Extract Volume: N/A
% Solid: 98
Method: 8081A\3550B
Run ID: R53252
Batch: WG46843

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
53469-21-9	Aroclor-1242	ug/kg	ND	ND	34	1
12672-29-6	Aroclor-1248	ug/kg	ND	ND	34	1
11097-69-1	Aroclor-1254	ug/kg	ND	ND	34	1
11096-82-5	Aroclor-1260	ug/kg	ND	ND	34	1

SUBROGATES - In Percent Recovery:
2,4,5,6-Tetrachloro-m-xylene..... (29 - 133%)
Decachlorobiphenyl..... (30 - 173%)

Product: 827LAS - Semi-volatile Compounds

Lab Sample ID: L9809522-01
Client Sample ID: RE15-98-0029
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 17:28

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HPMS7
Analyst: MJS
Lab File ID: 5988
Sample Weight: N/A
Extract Volume: N/A
% Solid: 98
Method: 8270C
Run ID: R54614
Batch: WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
62-75-9	n-Nitrosodimethylamine	ug/kg	ND	ND	340	1
62-53-3	Aniline	ug/kg	ND	ND	670	1
108-95-2	Phenol	ug/kg	ND	ND	340	1
111-44-4	bis(2-Chloroethyl) ether	ug/kg	ND	ND	340	1
95-57-8	2-Chlorophenol	ug/kg	ND	ND	340	1
541-73-1	1,3-Dichlorobenzene	ug/kg	ND	ND	340	1
106-46-7	1,4-Dichlorobenzene	ug/kg	ND	ND	340	1
95-50-1	1,2-Dichlorobenzene	ug/kg	ND	ND	340	1
95-48-7	2-Methylphenol	ug/kg	ND	ND	340	1
106-44-5	4-Methylphenol	ug/kg	ND	ND	340	1

RL = Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 827LAS - Semi-volatile Compounds

Lab Sample ID: L9809522-01
Client Sample ID: RE15-98-0029
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCUP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 17:28

D11 Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HPM67
Analyst: MJS
Lab File ID: 5988

Sample Weight: N/A
Extract Volume: N/A
* Solid: 98
Method: 8270C
Run ID: R54614
Batch: WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
621-64-7	n-Nitroso-di-n-propylamine.....	ug/kg		ND	340	1
67-72-1	Hexachloroethane.....	ug/kg		ND	340	1
98-95-3	Nitrobenzene.....	ug/kg		ND	340	1
78-59-1	Isophorone.....	ug/kg		ND	340	1
88-75-5	2-Nitrophenol.....	ug/kg		ND	340	1
105-67-9	2,4-Dimethylphenol.....	ug/kg		ND	340	1
65-85-0	Benzoic acid.....	ug/kg		ND	3400	1
111-91-1	bis (2-Chloroethoxy) methane.....	ug/kg		ND	340	1
120-83-2	2,4-Dichlorophenol.....	ug/kg		ND	340	1
120-82-1	1,2,4-Trichlorobenzene.....	ug/kg		ND	340	1
91-20-3	Naphthalene.....	ug/kg		ND	340	1
106-47-8	4-Chloroaniline.....	ug/kg		ND	1300	1
87-68-3	Hexachlorobutadiene.....	ug/kg		ND	340	1
59-50-7	4-Chloro-3-methylphenol.....	ug/kg		ND	670	1
91-57-6	2-Methylnaphthalene.....	ug/kg		ND	340	1
77-47-4	Hexachlorocyclopentadiene.....	ug/kg		ND	340	1
88-06-2	2,4,6-Trichlorophenol.....	ug/kg		ND	1600	1
95-95-4	2,4,5-Trichlorophenol.....	ug/kg		ND	340	1
91-58-7	2-Chloronaphthalene.....	ug/kg		ND	340	1
88-74-4	2-Nitroaniline.....	ug/kg		ND	340	1
131-11-3	Dimethylphthalate.....	ug/kg		ND	1600	1
208-96-8	Acenaphthylene.....	ug/kg		ND	340	1
99-09-2	3-Nitroaniline.....	ug/kg		ND	340	1
83-32-9	Acenaphthene.....	ug/kg		ND	1600	1
51-28-5	2,4-Dinitrophenol.....	ug/kg		ND	340	1
100-02-7	4-Nitrophenol.....	ug/kg		ND	1600	1
132-64-9	Dibenzofuran.....	ug/kg		ND	340	1
121-14-2	2,4-Dinitrotoluene.....	ug/kg		ND	340	1
606-20-2	2,6-Dinitrotoluene.....	ug/kg		ND	340	1
84-66-2	Diethylphthalate.....	ug/kg		ND	340	1
7005-72-3	4-Chlorophenyl-phenyl ether.....	ug/kg		ND	340	1
86-73-7	Fluorene.....	ug/kg		ND	340	1
100-01-6	4-Nitroaniline.....	ug/kg		ND	670	1
534-52-1	4,6-Dinitro-2-methylphenol.....	ug/kg		ND	1600	1
86-30-6	n-Nitrosodiphenylamine.....	ug/kg		ND	340	1
103-33-3	Azobenzene.....	ug/kg		ND	670	1
101-55-3	4-Bromophenyl-phenylether.....	ug/kg		ND	340	1
118-74-1	Hexachlorobenzene.....	ug/kg		ND	340	1
87-86-5	Pentachlorophenol.....	ug/kg		ND	1600	1

RL = Reporting Limit

LogIn #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 827LAS - Semi-volatile Compounds

Lab Sample ID: L9809522-01
Client Sample ID: RRI5-98-0029
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A

TCLEP Extract Date: N/A

Date Collected: 09/23/98

* Solid: 98

Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 17:28

Instrument: HPMS7
Analyst: MJS
Lab File ID: 5988

Method: 8270C
Run ID: R54614
Batch: WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
85-01-8	Phenanthrene	ug/kg	ND	ND	340	1
120-12-7	Anthracene	ug/kg	ND	ND	340	1
84-74-2	Di-n-butylphthalate	ug/kg	ND	ND	340	1
206-44-0	Fluoranthene	ug/kg	ND	ND	340	1
129-00-0	Pyrene	ug/kg	ND	ND	340	1
85-68-7	Butylbenzylphthalate	ug/kg	ND	ND	340	1
91-94-1	3,3'-Dichlorobenzidine	ug/kg	ND	ND	670	1
56-55-3	Benzo(a)anthracene	ug/kg	ND	ND	340	1
117-81-7	bis(2-Ethylhexyl)phthalate	ug/kg	ND	ND	340	1
117-81-9	Chrysene	ug/kg	ND	ND	340	1
117-84-0	Di-n-octylphthalate	ug/kg	ND	ND	340	1
205-99-2	Benzo(b)fluoranthene	ug/kg	ND	ND	340	1
207-08-9	Benzo(k)fluoranthene	ug/kg	ND	ND	340	1
50-32-8	Benzo(a)pyrene	ug/kg	ND	ND	340	1
193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	ND	ND	340	1
53-70-3	Dibenzo(a,h)anthracene	ug/kg	ND	ND	340	1
191-24-2	Benzo(g,h,i)perylene	ug/kg	ND	ND	340	1
100-51-6	Benzo(a)fluoranthene	ug/kg	ND	ND	340	1
108-60-1	2,2'-Oxybis(1-chloropropane)	ug/kg	ND	ND	1300	1
SURROGATES - In Percent Recovery:						
	2,4,6-Tribromophenol	83.9	(19 - 122%)			
	2-Fluorobiphenyl	76.2	(30 - 115%)			
	Nitrobenzene-d5	58.0	(25 - 121%)			
	Phenol-d5	65.3	(23 - 120%)			
	p-Terphenyl-d14	66.4	(24 - 113%)			
		109	(18 - 137%)			

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826LA - Volatile Organics

Lab Sample ID: L9809522-01
Client Sample ID: RE15-98-0029
Site/Work ID: 4659R/ME3R12082642
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 10/01/98 Time: 20:01

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HPM6
Analyst: CMS
Lab File ID: 61A10327

Sample Weight: N/A
Extract Volume: N/A
% Solid: 98
Method: 8260B
Run ID: R53363
Batch: W646934

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
75-71-8	Dichlorodifluoromethane	ug/kg	ND	ND	10	1
74-87-3	Chloromethane	ug/kg	ND	ND	10	1
75-01-4	Vinyl chloride	ug/kg	ND	ND	10	1
74-83-9	Bromomethane	ug/kg	ND	ND	10	1
75-00-3	Chloroethane	ug/kg	ND	ND	10	1
75-69-4	Trichlorofluoromethane	ug/kg	ND	ND	10	1
75-35-4	1,1-Dichloroethene	ug/kg	ND	ND	5.1	1
74-88-4	Iodomethane	ug/kg	ND	ND	5.1	1
75-15-0	Carbon disulfide	ug/kg	ND	ND	5.1	1
67-64-1	Acetone	ug/kg	ND	ND	5.1	1
75-09-2	Methylene chloride	ug/kg	ND	ND	5.1	1
156-60-5	trans-1,2-Dichloroethene	ug/kg	ND	ND	5.1	1
75-34-3	1,1-Dichloroethane	ug/kg	ND	ND	10	1
594-20-7	3,2-Dichloropropane	ug/kg	ND	ND	5.1	1
156-59-2	cis-1,2-Dichloroethane	ug/kg	ND	ND	5.1	1
78-93-3	2-Butanone	ug/kg	ND	ND	10	1
74-97-5	Bromochloromethane	ug/kg	ND	ND	20	1
67-66-3	Chloroform	ug/kg	ND	ND	5.1	1
71-55-6	1,1,1-Trichloroethane	ug/kg	ND	ND	5.1	1
56-23-5	Carbon tetrachloride	ug/kg	ND	ND	5.1	1
563-58-6	1,1-Dichloropropane	ug/kg	ND	ND	5.1	1
71-43-2	Benzene	ug/kg	ND	ND	5.1	1
107-06-2	1,2-Dichloroethane	ug/kg	ND	ND	5.1	1
79-01-6	Trichloroethene	ug/kg	ND	ND	5.1	1
78-87-5	1,2-Dichloropropane	ug/kg	ND	ND	5.1	1
74-95-3	Dibromomethane	ug/kg	ND	ND	5.1	1
75-27-4	Bromodichloromethane	ug/kg	ND	ND	5.1	1
10061-02-6	trans-1,3-Dichloropropene	ug/kg	ND	ND	5.1	1
108-10-1	4-Methyl-2-pentanone	ug/kg	ND	ND	5.1	1
108-88-3	Toluene	ug/kg	ND	ND	20	1
10061-01-5	cis-1,3-Dichloropropene	ug/kg	ND	ND	5.1	1
79-00-5	1,1,2-Trichloroethane	ug/kg	ND	ND	5.1	1
127-18-4	Tetrachloroethane	ug/kg	ND	ND	5.1	1
142-28-9	1,3-Dichloropropane	ug/kg	ND	ND	5.1	1
124-48-1	Dibromochloromethane	ug/kg	ND	ND	5.1	1
591-78-6	2-Hexanone	ug/kg	ND	ND	5.1	1
106-93-4	1,2-Dibromoethane	ug/kg	ND	ND	20	1
108-90-7	Chlorobenzene	ug/kg	ND	ND	5.1	1
630-20-6	1,1,1,2-Tetrachloroethane	ug/kg	ND	ND	5.1	1

RL = Reporting Limit

Login #L9809522
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KEMRON ENVIRONMENTAL SERVICES

Product: 8261A - Volatile Organics

Lab Sample ID: L9809522-01
Client Sample ID: RE15-98-0029
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 10/01/98 Time: 20:01

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HPMS6
Analyst: CMS
Lab File ID: 61A10327
Sample Weight: N/A
Extract Volume: N/A
% Solid: 98
Method: 8260B
Run ID: R53363
Batch: WG46934

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethyl benzene.....	ug/kg	ND		5.1	1
1330-20-7	Xylenes (total).....	ug/kg	ND		5.1	1
100-42-5	Styrene.....	ug/kg	ND		5.1	1
75-25-2	Bromoforn.....	ug/kg	ND		5.1	1
98-82-8	Isopropylbenzene.....	ug/kg	ND		5.1	1
108-86-1	Bromobenzene.....	ug/kg	ND		5.1	1
96-18-4	1,2,3-Trichloropropane.....	ug/kg	ND		5.1	1
79-34-5	1,1,2,2-Tetrachloroethane.....	ug/kg	ND		5.1	1
103-65-1	n-Propylbenzene.....	ug/kg	ND		5.1	1
95-49-8	2-Chlorotoluene.....	ug/kg	ND		5.1	1
106-43-4	4-Chlorotoluene.....	ug/kg	ND		5.1	1
108-67-8	1,3,5-Trimethylbenzene.....	ug/kg	ND		5.1	1
98-06-6	tert-Butylbenzene.....	ug/kg	ND		5.1	1
95-63-6	sec-Butylbenzene.....	ug/kg	ND		5.1	1
135-98-8	1,3-Dichlorobenzene.....	ug/kg	ND		5.1	1
541-73-1	1,4-Dichlorobenzene.....	ug/kg	ND		5.1	1
106-46-7	p-Isopropyltoluene.....	ug/kg	ND		5.1	1
99-87-6	1,2-Dichlorobenzene.....	ug/kg	ND		5.1	1
95-50-1	n-Butylbenzene.....	ug/kg	ND		5.1	1
104-51-6	1,2-Dibromo-3-chloropropane.....	ug/kg	ND		5.1	1
96-12-8	Trichlorotrifluoroethane.....	ug/kg	ND		10	1
76-13-1		ug/kg	ND		5.1	1
SURROGATES- In Percent Recovery:						
	Toluene-d8.....	95.1	(81 - 117%)			
	p-Bromofluorobenzene.....	85.3	(74 - 121%)			
	Dibromofluoromethane.....	98.3	(80 - 120%)			
	1,2-Dichloroethane-d4.....	103	(80 - 120%)			

RL = Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L9809522-02
Client Sample ID: RE15-98-0030
Site/Work ID: 4659R/MR3R12082642

Matrix: Soil
Collected: 09/23/98 N/A

% Solid: 92
COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	D11	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	% wt.	92		1.0	1	N/A	DKM	10/15/98	13:50	D2216-90

Product: 8081A - Pesticides & PCB's - LANL

Lab Sample ID: L9809522-02
Client Sample ID: RE15-98-0030
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: 09/30/98
Analysis Date: 09/30/98 Time:

D11: Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HP9
Analyst: BCL
Lab File ID: 406.D

Sample Weight: N/A
Extract Volume: N/A
% Solid: 92
Method: 8081A\35508
Run ID: R53252
Batch: WG46843

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
319-84-6	alpha-BHC.....	ug/kg	ND		1.8	1
319-85-7	beta-BHC.....	ug/kg	ND		1.8	1
319-86-8	delta-BHC.....	ug/kg	ND		1.8	1
58-89-9	gamma-BHC (Lindane)	ug/kg	ND		1.8	1
76-44-8	Heptachlor.....	ug/kg	ND		1.8	1
309-00-2	Aldrin.....	ug/kg	ND		1.8	1
1024-57-3	Heptachlor epoxide	ug/kg	ND		1.8	1
959-98-8	Endosulfan I.....	ug/kg	ND		1.8	1
60-57-1	Dieldrin.....	ug/kg	ND		1.8	1
72-55-9	4,4'-DDE.....	ug/kg	ND		3.6	1
72-20-8	Endrin.....	ug/kg	ND		3.6	1
33213-65-9	Endosulfan II.....	ug/kg	ND		3.6	1
72-54-8	4,4'-DDD.....	ug/kg	ND		3.6	1
1031-07-8	Endosulfan sulfate	ug/kg	ND		3.6	1
50-29-3	4,4'-DDT.....	ug/kg	ND		3.6	1
72-43-5	Methoxychlor.....	ug/kg	ND		18	1
53494-70-5	Endrin ketone.....	ug/kg	ND		3.6	1
7421-93-4	Endrin aldehyde.....	ug/kg	ND		0.36	1
5103-71-9	alpha Chlordane.....	ug/kg	ND		1.8	1
8001-35-2	gamma Chlordane.....	ug/kg	ND		1.8	1
12674-11-2	Toxaphene.....	ug/kg	ND		180	1
11104-28-2	Aroclor-1016.....	ug/kg	ND		36	1
11104-28-2	Aroclor-1221.....	ug/kg	ND		72	1
11141-16-5	Aroclor-1232.....	ug/kg	ND		36	1

RL = Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 80811A - Pesticides & PCB's - LANL

Lab Sample ID: L9809522-02
Client Sample ID: RE15-98-0030
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: 09/30/98
Analysis Date: 09/30/98 Time:

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HP9
Analyst: ECL
Lab File ID: 406.D
Sample Weight: N/A
Extract Volume: N/A
* Solid: 92
Method: 8081A\3550B
Run ID: R53252
Batch: WG46843

CAS #	Compound
53469-21-9	Aroclor-1242
12672-29-6	Aroclor-1248
11097-69-1	Aroclor-1254
11096-82-5	Aroclor-1260

SURROGATES - In Percent Recovery:
2,4,5,6-Tetrachloro-m-xylene
Decachlorobiphenyl

Units	Result	Qualifiers	RL	Dilution
ug/kg	ND		36	1
ug/kg	ND		36	1
ug/kg	ND		36	1
ug/kg	ND		36	1

Product: 8271AS - Semi-volatile Compounds

Lab Sample ID: L9809522-02
Client Sample ID: RE15-98-0030
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 18:06

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HPMS7
Analyst: MLS
Lab File ID: 5989
Sample Weight: N/A
Extract Volume: N/A
* Solid: 92
Method: 8270C
Run ID: R54614
Batch: WG47500

CAS #	Compound
62-75-9	n-Nitrosodimethylamine
62-53-3	Aniline
108-95-2	phenol
111-44-4	bis(2-chloroethyl) ether
95-57-8	2-chlorophenol
541-73-1	1,3-dichlorobenzene
106-46-7	1,4-dichlorobenzene
95-50-1	1,2-dichlorobenzene
95-48-7	2-methylphenol
106-44-5	4-methylphenol

Units	Result	Qualifiers	RL	Dilution
ug/kg	ND		360	1
ug/kg	ND		720	1
ug/kg	ND		360	1
ug/kg	ND		360	1
ug/kg	ND		360	1
ug/kg	ND		360	1
ug/kg	ND		360	1
ug/kg	ND		360	1
ug/kg	ND		360	1

RL = Reporting Limit

LogIn #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-02
Client Sample ID: RE15-98-0030
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 18:06

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HPMS7
Analyst: MJS
Lab File ID: 5989
Sample Weight: N/A
Extract Volume: N/A
% Solid: 92
Method: 8270C
Run ID: R54614
Batch: WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
621-64-7	n-Nitroso-di-n-propylamine	ug/kg	ND	ND	360	1
67-72-1	Hexachloroethane	ug/kg	ND	ND	360	1
98-95-3	Nitrobenzene	ug/kg	ND	ND	360	1
78-59-1	Isophorone	ug/kg	ND	ND	360	1
88-75-5	2-Nitrophenol	ug/kg	ND	ND	360	1
105-67-9	2,4-Dimethylphenol	ug/kg	ND	ND	360	1
65-85-0	Benzoic acid	ug/kg	ND	ND	3600	1
111-91-1	bis(2-Chloroethoxy)methane	ug/kg	ND	ND	360	1
120-83-2	2,4-Dichlorophenol	ug/kg	ND	ND	360	1
120-82-1	1,2,4-Trichlorobenzene	ug/kg	ND	ND	360	1
91-20-3	Naphthalene	ug/kg	ND	ND	360	1
106-47-8	4-Chloroaniline	ug/kg	ND	ND	1400	1
87-68-3	Hexachlorobutadiene	ug/kg	ND	ND	360	1
59-50-7	4-Chloro-3-methylphenol	ug/kg	ND	ND	720	1
91-57-6	2-Methylnaphthalene	ug/kg	ND	ND	360	1
77-47-4	Hexachlorocyclopentadiene	ug/kg	ND	ND	360	1
88-06-2	2,4,6-Trichlorophenol	ug/kg	ND	ND	1700	1
95-95-4	2,4,5-Trichlorophenol	ug/kg	ND	ND	360	1
91-58-7	2-Chloronaphthalene	ug/kg	ND	ND	360	1
88-74-4	2-Nitroaniline	ug/kg	ND	ND	1700	1
131-11-3	Dimethylphthalate	ug/kg	ND	ND	360	1
208-96-8	Acenaphthylene	ug/kg	ND	ND	360	1
99-09-2	3-Nitroaniline	ug/kg	ND	ND	1700	1
83-32-9	Acenaphthene	ug/kg	ND	ND	360	1
51-28-5	2,4-Dinitrophenol	ug/kg	ND	ND	1700	1
100-02-7	4-Nitrophenol	ug/kg	ND	ND	1700	1
132-64-9	Dibenzofuran	ug/kg	ND	ND	360	1
121-14-2	2,4-Dinitrotoluene	ug/kg	ND	ND	360	1
606-20-2	2,6-Dinitrotoluene	ug/kg	ND	ND	360	1
84-66-2	Diethylphthalate	ug/kg	ND	ND	360	1
7005-72-3	4-Chlorophenyl-phenyl ether	ug/kg	ND	ND	360	1
86-73-7	Fluorene	ug/kg	ND	ND	360	1
100-01-6	4-Nitroaniline	ug/kg	ND	ND	720	1
534-52-1	4,6-Dinitro-2-methylphenol	ug/kg	ND	ND	1700	1
86-30-6	n-Nitrosodiphenylamine	ug/kg	ND	ND	720	1
103-33-3	Azobenzene	ug/kg	ND	ND	360	1
101-55-3	4-Bromophenyl-phenylether	ug/kg	ND	ND	720	1
118-74-1	Hexachlorobenzene	ug/kg	ND	ND	360	1
87-86-5	Pentachlorophenol	ug/kg	ND	ND	1700	1

RL = Reporting Limit

LogIn #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-02
Client Sample ID: RE15-98-0030
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98

Sample Weight: N/A
Extract Volume: N/A

TCUP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 18:06

Instrument: HPMS7
Analyst: MJS
Lab File ID: 5989

* Solid: 92
Method: 8270C
Run ID: R54614
Batch: WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
85-01-8	Phenanthrene	ug/kg	ND	ND	360	1
120-12-7	Anthracene	ug/kg	ND	ND	360	1
84-74-2	Di-n-butylphthalate	ug/kg	ND	ND	360	1
206-44-0	Fluoranthene	ug/kg	ND	ND	360	1
129-00-0	Pyrene	ug/kg	ND	ND	360	1
85-68-7	Butylbenzylphthalate	ug/kg	ND	ND	360	1
91-94-1	3,3'-Dichlorobenzidine	ug/kg	ND	ND	720	1
56-55-3	Benzo(a)anthracene	ug/kg	ND	ND	360	1
117-81-7	bis(2-Ethylhexyl)phthalate	ug/kg	ND	ND	360	1
218-01-9	Chrysene	ug/kg	ND	ND	360	1
117-84-0	Di-n-octylphthalate	ug/kg	ND	ND	360	1
205-99-2	Benzo(b)fluoranthene	ug/kg	ND	ND	360	1
207-08-9	Benzo(k)fluoranthene	ug/kg	ND	ND	360	1
50-32-8	Benzo(a)pyrene	ug/kg	ND	ND	360	1
193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	ND	ND	360	1
53-70-3	Dibenzo(a,h)anthracene	ug/kg	ND	ND	360	1
191-24-2	Benzo(g,h,i)perylene	ug/kg	ND	ND	360	1
100-51-6	Benzyli alcohol	ug/kg	ND	ND	1400	1
108-60-1	2,2'-Oxybis(1-chloropropane)	ug/kg	ND	ND	360	1
SURROGATES - In Percent Recovery:						
	2,4,6-Tribromophenol	57.4	(19 - 122%)			
	2-Fluorobiphenyl	51.1	(30 - 115%)			
	2-Fluorophenol	43.1	(25 - 121%)			
	Nitrobenzene-d5	47.5	(23 - 120%)			
	Phenol-d5	46.8	(24 - 113%)			
	p-Terphenyl-d14	84.9	(18 - 137%)			

LogIn #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 8261A - Volatile Organics

Lab Sample ID: L9809522-02
Client Sample ID: RE15-98-0030
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 10/01/98 Time: 07:11

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98

Instrument: HPMS6
Analyst: CMS
Lab File ID: 61A10304

Sample Weight: N/A
Extract Volume: N/A
% Solid: 92
Method: 8260B
Run ID: R53362
Batch: W646889

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
75-71-8	Dichlorodifluoromethane.....	ug/kg	ND	ND	11	1
74-87-3	Chloromethane.....	ug/kg	ND	ND	11	1
75-01-4	Vinyl chloride.....	ug/kg	ND	ND	11	1
74-83-9	Bromomethane.....	ug/kg	ND	ND	11	1
75-00-3	Chloroethane.....	ug/kg	ND	ND	11	1
75-69-4	Trichlorofluoromethane.....	ug/kg	ND	ND	11	1
75-35-4	1,1-Dichloroethene.....	ug/kg	ND	ND	5.4	1
74-88-4	Iodomethane.....	ug/kg	ND	ND	5.4	1
75-15-0	Carbon disulfide.....	ug/kg	ND	ND	5.4	1
67-64-1	Acetone.....	ug/kg	ND	ND	5.4	1
75-09-2	Methylene chloride.....	ug/kg	ND	ND	22	1
156-60-5	trans-1,2-Dichloroethene.....	ug/kg	ND	ND	5.4	1
75-34-3	1,1-Dichloroethane.....	ug/kg	ND	ND	11	1
594-20-7	2,2-Dichloropropane.....	ug/kg	ND	ND	5.4	1
156-59-2	cis-1,2-Dichloroethene.....	ug/kg	ND	ND	5.4	1
78-93-3	2-Butanone.....	ug/kg	ND	ND	11	1
74-97-5	Bromochloromethane.....	ug/kg	ND	ND	22	1
67-66-3	Chloroform.....	ug/kg	ND	ND	5.4	1
71-55-6	1,1,1-Trichloroethane.....	ug/kg	ND	ND	5.4	1
56-23-5	Carbon tetrachloride.....	ug/kg	ND	ND	5.4	1
563-58-6	1,1-Dichloropropene.....	ug/kg	ND	ND	5.4	1
71-43-2	Benzene.....	ug/kg	ND	ND	5.4	1
107-06-2	1,2-Dichloroethane.....	ug/kg	ND	ND	5.4	1
79-01-6	Trichloroethene.....	ug/kg	ND	ND	5.4	1
78-87-5	1,2-Dichloropropane.....	ug/kg	ND	ND	5.4	1
74-95-3	Dibromomethane.....	ug/kg	ND	ND	5.4	1
75-27-4	Bromodichloromethane.....	ug/kg	ND	ND	5.4	1
10061-02-6	trans-1,3-Dichloropropene.....	ug/kg	ND	ND	5.4	1
108-10-1	4-Methyl-2-pentanone.....	ug/kg	ND	ND	5.4	1
108-88-3	Toluene.....	ug/kg	ND	ND	22	1
10061-01-5	cis-1,3-Dichloropropene.....	ug/kg	ND	ND	5.4	1
79-00-5	1,1,2-Trichloroethane.....	ug/kg	ND	ND	5.4	1
127-18-4	Tetrachloroethene.....	ug/kg	ND	ND	5.4	1
142-28-9	1,3-Dichloropropane.....	ug/kg	ND	ND	5.4	1
124-48-1	Dibromochloromethane.....	ug/kg	ND	ND	5.4	1
591-78-6	2-Hexanone.....	ug/kg	ND	ND	5.4	1
106-93-4	1,2-Dibromoethane.....	ug/kg	ND	ND	22	1
108-90-7	Chlorobenzene.....	ug/kg	ND	ND	5.4	1
630-20-6	1,1,1,2-Tetrachloroethane.....	ug/kg	ND	ND	5.4	1

RL - Reporting Limit

LogIn #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 8261A - Volatile Organics

Lab Sample ID: L9809522-02
Client Sample ID: RH15-98-0030
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCIDP Extract Date: N/A
Extract Date: N/A
Analysis Date: 10/01/98 Time: 07:11

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HPMS6
Analyst: CMS
Lab File ID: 61A10304
Sample Weight: N/A
Extract Volume: N/A
% Solid: 92
Method: 8260B
Run ID: R53362
Batch: WG46889

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethyl benzene.....	ug/kg	ND	ND	5.4	1
1330-20-7	Xylenes (total).....	ug/kg	ND	ND	5.4	1
100-42-5	Styrene.....	ug/kg	ND	ND	5.4	1
75-25-2	Bromoforn.....	ug/kg	ND	ND	5.4	1
98-82-8	Isopropylbenzene.....	ug/kg	ND	ND	5.4	1
108-86-1	Bromobenzene.....	ug/kg	ND	ND	5.4	1
96-18-4	1,2,3-Trichloropropane.....	ug/kg	ND	ND	5.4	1
79-34-5	1,1,2,2-Tetrachloroethane.....	ug/kg	ND	ND	5.4	1
103-65-1	n-Propylbenzene.....	ug/kg	ND	ND	5.4	1
95-49-8	2-Chlorotoluene.....	ug/kg	ND	ND	5.4	1
106-43-4	4-Chlorotoluene.....	ug/kg	ND	ND	5.4	1
108-67-8	1,3,5-Trimethylbenzene.....	ug/kg	ND	ND	5.4	1
98-06-6	tert-Butylbenzene.....	ug/kg	ND	ND	5.4	1
95-63-6	1,2,4-Trimethylbenzene.....	ug/kg	ND	ND	5.4	1
135-98-8	sec-Butylbenzene.....	ug/kg	ND	ND	5.4	1
541-73-1	1,3-Dichlorobenzene.....	ug/kg	ND	ND	5.4	1
106-46-7	1,4-Dichlorobenzene.....	ug/kg	ND	ND	5.4	1
99-87-6	p-Isopropyltoluene.....	ug/kg	ND	ND	5.4	1
95-50-1	1,2-Dichlorobenzene.....	ug/kg	ND	ND	5.4	1
104-51-8	n-Butylbenzene.....	ug/kg	ND	ND	5.4	1
96-12-8	1,2-Dibromo-3-chloropropane.....	ug/kg	ND	ND	5.4	1
76-13-1	Trichlorotrifluoroethane.....	ug/kg	ND	ND	5.4	1
SURROGATES- In Percent Recovery:						
	Toluene-d8.....	92.5	(81 - 117%)			
	p-Bromofluorobenzene.....	80.6	(74 - 121%)			
	Dibromofluoromethane.....	97.1	(80 - 120%)			
	1,2-Dichloroethane-d4.....	101	(80 - 120%)			

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L9809522-03
Client Sample ID: KR15-98-0031
Site/Work ID: 4659R/MR3R12082642

Matrix: Soil
Collected: 09/23/98 N/A

% Solid: 93
COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	% wt.	93		1.0	1	N/A	DKM	10/15/98	13:50	D2216-90

Product: 8081LA - Pesticides & PCB's - LANL

Lab Sample ID: L9809522-03
Client Sample ID: KR15-98-0031
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A

% Solid: 93

TCLP Extract Date: N/A
Extract Date: 09/30/98
Analysis Date: 09/30/98 Time:

Date Collected: 09/23/98

Instrument: HP9
Analyst: ECL
Lab File ID: 407.D

Method: 8081A\3550B
Run ID: R53252
Batch: W646843

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
319-84-6	alpha-BHC.....	ug/kg	1.8	ND	1.8	1
319-85-7	beta-BHC.....	ug/kg	1.8	ND	1.8	1
319-86-8	delta-BHC.....	ug/kg	1.8	ND	1.8	1
58-89-9	gamma-BHC (Lindane).....	ug/kg	1.8	ND	1.8	1
76-44-8	Heptachlor.....	ug/kg	1.8	ND	1.8	1
309-00-2	Aldrin.....	ug/kg	1.8	ND	1.8	1
1024-57-3	Heptachlor epoxide.....	ug/kg	1.8	ND	1.8	1
959-98-8	Endosulfan I.....	ug/kg	1.8	ND	1.8	1
60-57-1	Dieldrin.....	ug/kg	1.8	ND	1.8	1
72-55-9	4,4'-DDE.....	ug/kg	3.5	ND	3.5	1
72-20-8	Endrin.....	ug/kg	3.5	ND	3.5	1
33213-65-9	Endosulfan II.....	ug/kg	3.5	ND	3.5	1
72-54-8	4,4'-DDD.....	ug/kg	3.5	ND	3.5	1
1031-07-8	Endosulfan sulfate.....	ug/kg	3.5	ND	3.5	1
50-29-3	4,4'-DDT.....	ug/kg	3.5	ND	3.5	1
72-43-5	Methoxychlor.....	ug/kg	18	ND	18	1
53494-70-5	Endrin ketone.....	ug/kg	3.5	ND	3.5	1
7421-93-4	Endrin aldehyde.....	ug/kg	0.35	ND	0.35	1
5103-71-9	alpha-Chlordane.....	ug/kg	1.8	ND	1.8	1
8001-35-2	gamma-Chlordane.....	ug/kg	1.8	ND	1.8	1
12674-11-2	Toxaphene.....	ug/kg	180	ND	180	1
1104-28-2	Aroclor-1016.....	ug/kg	35	ND	35	1
1104-28-2	Aroclor-1221.....	ug/kg	71	ND	71	1
1141-16-5	Aroclor-1232.....	ug/kg	35	ND	35	1

RL - Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 8081A - Pesticides & PCB's - IANTL

Lab Sample ID: L9809522-03
Client Sample ID: RL15-98-0031
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98

Sample Weight: N/A
Extract Volume: N/A

* Solid: 93

TCLP Extract Date: N/A
Extract Date: 09/30/98
Analysis Date: 09/30/98 Time:

Instrument: HP9
Analyst: ECL
Lab File ID: 407.D
Method: 8081A\3550B
Run ID: R53252
Batch: WG46843

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
53469-21-9	AROCLOR-1242	ug/kg		ND	35	1
12672-29-6	AROCLOR-1248	ug/kg		ND	35	1
11097-69-1	AROCLOR-1254	ug/kg		ND	35	1
11096-82-5	AROCLOR-1260	ug/kg		ND	35	1

SURROGATES - In Percent Recovery:
2,4,5,6-Tetrachloro-m-xylene
Decachlorobiphenyl

73.0 { 29 - 133%
96.4 { 30 - 173%}

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-03
Client Sample ID: RL15-98-0031
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 18:44

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HPMS7
Analyst: MDS
Lab File ID: 5990

Sample Weight: N/A
Extract Volume: N/A

* Solid: 93

Method: 8270C
Run ID: R54614
Batch: WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
62-75-9	n-Nitrosodimethylamine	ug/kg		ND	350	1
62-53-3	Aniline	ug/kg		ND	710	1
108-95-2	Phenol	ug/kg		ND	350	1
111-44-4	bis (2-Chloroethyl) ether	ug/kg		ND	350	1
95-57-8	2-Chlorophenol	ug/kg		ND	350	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	350	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	350	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	350	1
95-48-7	2-Methylphenol	ug/kg		ND	350	1
106-44-5	4-Methylphenol	ug/kg		ND	350	1

RL = Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 8271A8 - Semivolatile Compounds

Lab Sample ID: L9809522-03
Client Sample ID: RE15-98-0031
Site/Work ID: 4659R/WR3R12082642
Matrix: Soil

TCLE Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 18:44

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HPMS7
Analysis: MTS
Lab File ID: 5990
Sample Weight: N/A
Extract Volume: N/A
* Solid: 93
Method: 8270C
Run ID: R54614
Batch: WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
621-64-7	n-Nitroso-di-n-propylamine	ug/kg	ND	ND	350	1
67-72-1	Hexachloroethane	ug/kg	ND	ND	350	1
98-95-3	Nitrobenzene	ug/kg	ND	ND	350	1
78-59-1	Isophorone	ug/kg	ND	ND	350	1
88-75-5	2-Nitrophenol	ug/kg	ND	ND	350	1
105-67-9	2,4-Dimethylphenol	ug/kg	ND	ND	350	1
65-85-0	Benzoic acid	ug/kg	ND	ND	3500	1
111-91-1	bis(2-Chloroethoxy)methane	ug/kg	ND	ND	350	1
120-83-2	1,2,4-Trichlorophenol	ug/kg	ND	ND	350	1
91-20-3	Naphthalene	ug/kg	ND	ND	350	1
106-47-8	4-Chloroaniline	ug/kg	ND	ND	1400	1
87-68-3	Hexachlorobutadiene	ug/kg	ND	ND	350	1
59-50-7	4-Chloro-3-methylphenol	ug/kg	ND	ND	710	1
91-57-6	2-Methylnaphthalene	ug/kg	ND	ND	350	1
77-47-4	Hexachlorocyclopentadiene	ug/kg	ND	ND	350	1
88-06-2	2,4,6-Trichlorophenol	ug/kg	ND	ND	350	1
95-95-4	2,4,5-Trichlorophenol	ug/kg	ND	ND	1700	1
91-58-7	2-Chloronaphthalene	ug/kg	ND	ND	350	1
88-74-4	2-Nitroaniline	ug/kg	ND	ND	350	1
131-11-3	Dimethylphthalate	ug/kg	ND	ND	1700	1
208-96-8	Acenaphthylene	ug/kg	ND	ND	350	1
99-09-2	3-Nitroaniline	ug/kg	ND	ND	1700	1
83-32-9	Acenaphthene	ug/kg	ND	ND	350	1
51-28-5	2,4-Dinitrophenol	ug/kg	ND	ND	1700	1
100-02-7	4-Nitrophenol	ug/kg	ND	ND	1700	1
132-64-9	Dibenzofuran	ug/kg	ND	ND	350	1
121-14-2	2,4-Dinitrotoluene	ug/kg	ND	ND	350	1
606-20-2	2,6-Dinitrotoluene	ug/kg	ND	ND	350	1
84-66-2	Diethylphthalate	ug/kg	ND	ND	350	1
7005-72-3	4-Chlorophenyl-phenyl ether	ug/kg	ND	ND	350	1
86-73-7	Fluorene	ug/kg	ND	ND	350	1
100-01-6	4-Nitroaniline	ug/kg	ND	ND	710	1
534-52-1	4,6-Dinitro-2-methylphenol	ug/kg	ND	ND	1700	1
86-30-6	n-Nitrosodiphenylamine	ug/kg	ND	ND	350	1
103-33-3	Azobenzene	ug/kg	ND	ND	710	1
101-55-3	4-Bromophenyl-phenylether	ug/kg	ND	ND	350	1
118-74-1	Hexachlorobenzene	ug/kg	ND	ND	350	1
87-86-5	Pentachlorophenol	ug/kg	ND	ND	1700	1

RL - Reporting Limit

LogIn #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-03
Client Sample ID: RE15-98-0031
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98

Sample Weight: N/A
Extract Volume: N/A

% Solid: 93

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 18:44

Instrument: HPMS7
Analyst: MLS
Lab File ID: 5990

Method: 8270C
Run ID: R54614
Batch: WG47500

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
85-01-8	Phenanthrene	ug/kg	ND		350	1
120-12-7	Anthracene	ug/kg	ND		350	1
84-74-2	Di-n-butylphthalate	ug/kg	ND		350	1
206-44-0	Fluoranthene	ug/kg	ND		350	1
129-00-0	Pyrene	ug/kg	ND		350	1
85-68-7	Butylbenzylphthalate	ug/kg	ND		350	1
91-94-1	3,3-Dichlorobenzidine	ug/kg	ND		710	1
56-55-3	Benzo(a)anthracene	ug/kg	ND		350	1
117-81-7	bis(2-Ethylhexyl)phthalate	ug/kg	ND		350	1
218-01-9	Chrysene	ug/kg	ND		350	1
117-84-0	Di-n-octylphthalate	ug/kg	ND		350	1
205-99-2	Benzo(b)fluoranthene	ug/kg	ND		350	1
207-08-9	Benzo(k)fluoranthene	ug/kg	ND		350	1
50-32-8	Benzo(a)pyrene	ug/kg	ND		350	1
193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	ND		350	1
53-70-3	Dibenzo(a,h)anthracene	ug/kg	ND		350	1
191-24-2	Benzo(g,h,i)perylene	ug/kg	ND		350	1
100-51-6	Benzyl alcohol	ug/kg	ND		1400	1
108-60-1	2,2'-Oxybis(1-chloropropane)	ug/kg	ND		350	1
SURROGATES - In Percent Recovery:						
2,4,6-Tribromophenol		79.2	(19 - 122%)			
2-Fluorobiphenyl		71.2	(30 - 115%)			
2-Fluorophenol		59.2	(25 - 121%)			
Nitrobenzene-d5		65.1	(23 - 120%)			
Phenol-d5		63.5	(24 - 113%)			
p-Terphenyl-d14		104	(18 - 137%)			

LogIn #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826LA - Volatile Organics

Lab Sample ID: L9809522-03
Client Sample ID: REIS-98-0031
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 10/01/98 Time: 07:43

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98

Instrument: HPMS6
Analyst: CMS
Lab File ID: 61A10305

Sample Weight: N/A
Extract Volume: N/A
% Solid: 93
Method: 8260B
Run ID: R53362
Batch: W646889

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
75-71-8	Dichlorodifluoromethane.....	ug/kg	ND	ND	11	1
74-87-3	Chloromethane.....	ug/kg	ND	ND	11	1
75-01-4	Vinyl chloride.....	ug/kg	ND	ND	11	1
74-83-9	Bromomethane.....	ug/kg	ND	ND	11	1
75-00-3	Chloroethane.....	ug/kg	ND	ND	11	1
75-69-4	Trichlorofluoromethane.....	ug/kg	ND	ND	11	1
75-35-4	1,1-Dichloroethene.....	ug/kg	ND	ND	5.4	1
74-88-4	Iodomethane.....	ug/kg	ND	ND	5.4	1
75-15-0	Carbon disulfide.....	ug/kg	ND	ND	5.4	1
67-64-1	Acetone.....	ug/kg	ND	ND	5.4	1
75-09-2	Methylene chloride.....	ug/kg	ND	ND	22	1
156-60-5	trans-1,2-Dichloroethene.....	ug/kg	ND	ND	5.4	1
75-34-3	1,1-Dichloroethane.....	ug/kg	ND	ND	11	1
594-20-7	2,2-Dichloropropane.....	ug/kg	ND	ND	5.4	1
156-59-2	cis-1,2-Dichloroethene.....	ug/kg	ND	ND	5.4	1
78-93-3	2-Butanone.....	ug/kg	ND	ND	11	1
74-97-5	Bromochloromethane.....	ug/kg	ND	ND	22	1
67-66-3	Chloroform.....	ug/kg	ND	ND	5.4	1
71-55-6	1,1,1-Trichloroethane.....	ug/kg	ND	ND	5.4	1
56-23-5	Carbon tetrachloride.....	ug/kg	ND	ND	5.4	1
563-58-6	1,1-Dichloropropene.....	ug/kg	ND	ND	5.4	1
71-43-2	Benzene.....	ug/kg	ND	ND	5.4	1
107-06-2	1,2-Dichloroethane.....	ug/kg	ND	ND	5.4	1
79-01-6	Trichloroethene.....	ug/kg	ND	ND	5.4	1
78-87-5	1,2-Dichloropropane.....	ug/kg	ND	ND	5.4	1
74-95-3	Dibromomethane.....	ug/kg	ND	ND	5.4	1
75-27-4	Bromodichloromethane.....	ug/kg	ND	ND	5.4	1
10061-02-6	trans-1,3-Dichloropropene.....	ug/kg	ND	ND	5.4	1
108-10-1	4-Methyl-2-pentanone.....	ug/kg	ND	ND	5.4	1
10061-01-5	Toluene.....	ug/kg	ND	ND	22	1
79-00-5	cis-1,3-Dichloropropene.....	ug/kg	ND	ND	5.4	1
127-18-4	1,1,2-Trichloroethane.....	ug/kg	ND	ND	5.4	1
142-28-9	Tetrachloroethene.....	ug/kg	ND	ND	5.4	1
124-48-1	1,3-Dichloropropane.....	ug/kg	ND	ND	5.4	1
591-78-6	Dibromochloromethane.....	ug/kg	ND	ND	5.4	1
106-93-4	2-Hexanone.....	ug/kg	ND	ND	22	1
108-90-7	1,2-Dibromoethane.....	ug/kg	ND	ND	5.4	1
630-20-6	Chlorobenzene.....	ug/kg	ND	ND	5.4	1
	1,1,1,2-Tetrachloroethane.....	ug/kg	ND	ND	5.4	1

RI - Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 8261A - Volatile Organics

Lab Sample ID: L9809522-03
Client Sample ID: RE15-98-0031
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 10/01/98 Time: 07:43

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98

Sample Weight: N/A
Extract Volume: N/A

Instrument: HPMS6
Analyst: CMS
Lab File ID: 61A10305

* Solid: 93
Method: 8260B
Run ID: R53362
Batch: WG46889

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethyl benzene.....	ug/kg	ND		5.4	1
1330-20-7	Xylenes (total).....	ug/kg	ND		5.4	1
100-42-5	Styrene.....	ug/kg	ND		5.4	1
75-25-2	Bromoforn.....	ug/kg	ND		5.4	1
98-82-8	Isopropylbenzene.....	ug/kg	ND		5.4	1
108-86-1	Bromobenzene.....	ug/kg	ND		5.4	1
96-18-4	1,2,3-Trichloropropane.....	ug/kg	ND		5.4	1
79-34-5	1,1,2,2-Tetrachloroethane.....	ug/kg	ND		5.4	1
103-65-1	n-Propylbenzene.....	ug/kg	ND		5.4	1
95-49-8	2-Chlorotoluene.....	ug/kg	ND		5.4	1
106-43-4	4-Chlorotoluene.....	ug/kg	ND		5.4	1
108-67-8	1,3,5-Trimethylbenzene.....	ug/kg	ND		5.4	1
98-06-6	tert-Butylbenzene.....	ug/kg	ND		5.4	1
95-63-6	1,2,4-Trimethylbenzene.....	ug/kg	ND		5.4	1
135-98-8	sec-Butylbenzene.....	ug/kg	ND		5.4	1
541-73-1	1,3-Dichlorobenzene.....	ug/kg	ND		5.4	1
106-46-7	1,4-Dichlorobenzene.....	ug/kg	ND		5.4	1
99-87-6	p-Isopropyltoluene.....	ug/kg	ND		5.4	1
95-50-1	1,2-Dichlorobenzene.....	ug/kg	ND		5.4	1
104-51-8	n-Butylbenzene.....	ug/kg	ND		5.4	1
96-12-8	1,2-Dibromo-3-chloropropane.....	ug/kg	ND		5.4	1
76-13-1	Trichlorotrifluoroethane.....	ug/kg	ND		11.4	1
SURROGATES- In Percent Recovery:						
	Toluene-d8.....	100	(81 - 117%)			
	p-Bromofluorobenzene.....	88.1	(74 - 121%)			
	Dibromofluoromethane.....	103	(80 - 120%)			
	1,2-Dichloroethane-d4.....	107	(80 - 120%)			

Login #L9809522
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KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L9809522-04
Client Sample ID: RE15-98-0032
Site/Work ID: 4659R/MR3R12082642

Matrix: Soil
Collected: 09/23/98 N/A

% Solid: 97
COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	% wt.	97		1.0	1	N/A	DKM	10/15/98	13:50	D2216-90

Product: 8081A - Pesticides & PCB's - IANT

Lab Sample ID: L9809522-04
Client Sample ID: RE15-98-0032
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A

% Solid: 97

TCUP Extract Date: N/A
Extract Date: 09/30/98
Analysis Date: 10/01/98 Time:

Date Collected: 09/23/98
Instrument: HP9
Analyst: ECL
Lab File ID: 411.D

Method: 8081A\3550B
Run ID: R53256
Batch: W646843

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
319-84-6	alpha-BHC.....	ug/kg	ND		1.7	1
319-85-7	beta-BHC.....	ug/kg	ND		1.7	1
319-86-8	delta-BHC.....	ug/kg	ND		1.7	1
58-89-9	gamma-BHC (lindane).....	ug/kg	ND		1.7	1
76-44-8	Heptachlor.....	ug/kg	ND		1.7	1
309-00-2	Aldrin.....	ug/kg	ND		1.7	1
1024-57-3	Heptachlor epoxide.....	ug/kg	ND		1.7	1
959-98-8	Endosulfan I.....	ug/kg	ND		1.7	1
60-57-1	Dieldrin.....	ug/kg	ND		1.7	1
72-55-9	4,4'-DDE.....	ug/kg	ND		3.4	1
72-20-8	Endrin.....	ug/kg	ND		3.4	1
33213-65-9	Endosulfan II.....	ug/kg	ND		3.4	1
72-54-8	4,4'-DDD.....	ug/kg	ND		3.4	1
1031-07-8	Endosulfan sulfate.....	ug/kg	ND		3.4	1
50-29-3	4,4'-DDT.....	ug/kg	ND		17	1
72-43-5	Methoxychlor.....	ug/kg	ND		3.4	1
53494-70-5	Endrin ketone.....	ug/kg	ND		0.34	1
7421-93-4	alpha aldehyde.....	ug/kg	ND		1.7	1
5103-71-9	gamma Chlordane.....	ug/kg	ND		1.7	1
8001-35-2	Toxaphene.....	ug/kg	ND		1.7	1
12674-11-2	Aroclor-1016.....	ug/kg	ND		170	1
11104-28-2	Aroclor-1221.....	ug/kg	ND		34	1
11141-16-5	Aroclor-1232.....	ug/kg	ND		34	1

RL = Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 80811A - Pesticides & PCB's - LANL

Lab Sample ID: L9809522-04
Client Sample ID: RE15-98-0032
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: 09/30/98
Analysis Date: 10/01/98 Time:

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A
Date Collected: 09/23/98
Instrument: HP9
Analyst: ECL
Lab File ID: 411.D
* Solid: 97
Method: 8081A\3550B
Run ID: R53256
Batch: WG46843

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
53469-21-9	Aroclor-1242	ug/kg	ND	ND	34	1
12672-29-6	Aroclor-1248	ug/kg	ND	ND	34	1
11097-69-1	Aroclor-1254	ug/kg	ND	ND	34	1
11096-82-5	Aroclor-1260	ug/kg	ND	ND	34	1

SURROGATES- In Percent Recovery:
2,4,5,6-Tetrachloro-m-xylene
Decachlorobiphenyl

72.3
98.7
{ 29 - 133%
30 - 173% }

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-04
Client Sample ID: RE15-98-0032
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 19:23

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A
Date Collected: 09/23/98
Instrument: HPMS7
Analyst: MLS
Lab File ID: 5991
* Solid: 97
Method: 8270C
Run ID: R54614
Batch: WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
62-75-9	n-Nitrosodimethylamine	ug/kg	ND	ND	340	1
62-53-3	Aniline	ug/kg	ND	ND	680	1
108-95-2	Phenol	ug/kg	ND	ND	340	1
111-44-4	bis(2-Chloroethyl) ether	ug/kg	ND	ND	340	1
95-57-8	2-Chlorophenol	ug/kg	ND	ND	340	1
541-73-1	1,3-Dichlorobenzene	ug/kg	ND	ND	340	1
106-46-7	1,4-Dichlorobenzene	ug/kg	ND	ND	340	1
95-50-1	1,2-Dichlorobenzene	ug/kg	ND	ND	340	1
95-48-7	2-Methylphenol	ug/kg	ND	ND	340	1
106-44-5	4-Methylphenol	ug/kg	ND	ND	340	1

RL - Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-04
Client Sample ID: RE15-98-0032
Site/Work ID: 4659R/RE3R12082642
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 19:23

D11. Type: N/A
COC Info: N/A
Date Collected: 09/23/98

Instrument: HPMS7
Analyst: MLS
Lab File ID: 5991

Sample Weight: N/A
Extract Volume: N/A
% Solid: 97
Method: 8270C
Run ID: R54614
Batch: WG47900

CAS #	Compound	Units	Result	Qualifier	RL	Dilution
621-64-7	n-Nitroso-di-n-propylamine.....	ug/kg		ND	340	1
67-72-1	Hexachloroethane.....	ug/kg		ND	340	1
98-95-3	Nitrobenzene.....	ug/kg		ND	340	1
78-59-1	Isophorone.....	ug/kg		ND	340	1
88-75-5	2-Nitrophenol.....	ug/kg		ND	340	1
105-67-9	2,4-Dimethylphenol.....	ug/kg		ND	340	1
65-85-0	Benzoic acid.....	ug/kg		ND	3400	1
111-91-1	bis(2-Chloroethoxy)methane.....	ug/kg		ND	340	1
120-83-2	1,2,4-Trichlorophenol.....	ug/kg		ND	340	1
120-82-1	1,2,4-Trichlorobenzene.....	ug/kg		ND	340	1
91-20-3	Naphthalene.....	ug/kg		ND	1300	1
106-47-8	4-Chloroaniline.....	ug/kg		ND	340	1
87-68-3	Hexachlorobutadiene.....	ug/kg		ND	340	1
59-50-7	4-Chloro-3-methylphenol.....	ug/kg		ND	680	1
91-57-6	2-Methylnaphthalene.....	ug/kg		ND	340	1
77-47-4	Hexachlorocyclopentadiene.....	ug/kg		ND	340	1
88-06-2	2,4,6-Trichlorophenol.....	ug/kg		ND	1700	1
95-95-4	2,4,5-Trichlorophenol.....	ug/kg		ND	340	1
91-58-7	2-Chloronaphthalene.....	ug/kg		ND	1700	1
88-74-4	2-Nitroaniline.....	ug/kg		ND	340	1
131-11-3	Dimethylphthalate.....	ug/kg		ND	340	1
208-96-8	Acenaphthylene.....	ug/kg		ND	1700	1
99-09-2	3-Nitroaniline.....	ug/kg		ND	340	1
83-32-9	Acenaphthene.....	ug/kg		ND	1700	1
51-28-5	2,4-Dinitrophenol.....	ug/kg		ND	1700	1
100-02-7	4-Nitrophenol.....	ug/kg		ND	340	1
132-64-9	Dibenzofuran.....	ug/kg		ND	340	1
121-14-2	2,4-Dinitrotoluene.....	ug/kg		ND	340	1
606-20-2	2,6-Dinitrotoluene.....	ug/kg		ND	340	1
84-66-2	Diethylphthalate.....	ug/kg		ND	340	1
7005-72-3	4-Chlorophenyl-phenyl ether.....	ug/kg		ND	340	1
86-73-7	Fluorene.....	ug/kg		ND	340	1
100-01-6	4-Nitroaniline.....	ug/kg		ND	680	1
534-52-1	4,6-Dinitro-2-methylphenol.....	ug/kg		ND	1700	1
86-30-6	n-Nitrosodiphenylamine.....	ug/kg		ND	340	1
103-33-3	Azobenzene.....	ug/kg		ND	680	1
101-55-3	4-Bromophenyl-phenylether.....	ug/kg		ND	340	1
118-74-1	Hexachlorobenzene.....	ug/kg		ND	340	1
87-86-5	Pentachlorophenol.....	ug/kg		ND	1700	1

KL - Reporting Limit

LogIn #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 827LAS - Semi-volatile Compounds

Lab Sample ID: L9809522-04
Client Sample ID: RE15-98-0032
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98
Time: 19:23

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HPMS7
Analyst: MJS
Lab File ID: 5991
Sample Weight: N/A
Extract Volume: N/A
% Solid: 97
Method: 8270C
Run ID: R54614
Batch: WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
85-01-8	Phenanthrene.....	ug/kg	ND	ND	340	1
120-12-7	Anthracene.....	ug/kg	ND	ND	340	1
84-74-2	Di-n-butylphthalate.....	ug/kg	ND	ND	340	1
206-44-0	Fluoranthene.....	ug/kg	ND	ND	340	1
129-00-0	Pyrene.....	ug/kg	ND	ND	340	1
85-68-7	Butylbenzylphthalate.....	ug/kg	ND	ND	340	1
91-94-1	3,3'-Dichlorobenzidine.....	ug/kg	ND	ND	680	1
56-55-3	Benzo(a)anthracene.....	ug/kg	ND	ND	340	1
117-81-7	bis(2-Ethylhexyl)phthalate.....	ug/kg	ND	ND	340	1
218-01-9	Chrysene.....	ug/kg	ND	ND	340	1
117-84-0	Di-n-octylphthalate.....	ug/kg	ND	ND	340	1
205-99-2	Benzo(b)fluoranthene.....	ug/kg	ND	ND	340	1
207-08-9	Benzo(k)fluoranthene.....	ug/kg	ND	ND	340	1
50-32-8	Benzo(a)pyrene.....	ug/kg	ND	ND	340	1
193-39-5	Indeno(1,2,3-cd)pyrene.....	ug/kg	ND	ND	340	1
53-70-3	Dibenzo(a,h)anthracene.....	ug/kg	ND	ND	340	1
191-24-2	Benzo(g,h,i)perylene.....	ug/kg	ND	ND	340	1
100-51-6	Benzyl alcohol.....	ug/kg	ND	ND	340	1
108-60-1	2,2'-Oxybis(1-chloropropane).....	ug/kg	ND	ND	1300	1
SURROGATES - In Percent Recovery:						
	2,4,6-Tribromophenol.....	83.4	(	19 - 122%)		
	2-Fluorobiphenyl.....	79.1	(	30 - 115%)		
	Nitrobenzene-d5.....	66.7	(	25 - 121%)		
	Phenol-d5.....	74.8	(	23 - 120%)		
	p-Terphenyl-d14.....	70.3	(	24 - 113%)		
		105	(	18 - 137%)		

RL - Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 8261A - Volatile Organics

Lab Sample ID: L9809522-04
Client Sample ID: RE15-98-0032
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 10/01/98 Time: 08:14

DIL. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HPMS6
Analyst: CMS
Lab File ID: 61A10306

Sample Weight: N/A
Extract Volume: N/A
% Solid: 97
Method: 8260B
Run ID: R53362
Batch: W946889

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
75-71-8	Dichlorodifluoromethane.....	ug/kg	ND	ND	10	1
74-87-3	Chloromethane.....	ug/kg	ND	ND	10	1
75-01-4	Vinyl chloride.....	ug/kg	ND	ND	10	1
74-83-9	Bromomethane.....	ug/kg	ND	ND	10	1
75-00-3	Chloroethane.....	ug/kg	ND	ND	10	1
75-69-4	Trichlorofluoromethane.....	ug/kg	ND	ND	5.2	1
75-35-4	1,1-Dichloroethane.....	ug/kg	ND	ND	5.2	1
74-88-4	Iodomethane.....	ug/kg	ND	ND	5.2	1
75-15-0	Carbon disulfide.....	ug/kg	ND	ND	5.2	1
67-64-1	Acetone.....	ug/kg	ND	ND	5.2	1
75-09-2	Methylene chloride.....	ug/kg	ND	ND	21	1
156-60-5	trans-1,2-Dichloroethane.....	ug/kg	ND	ND	5.2	1
75-34-3	1,1-Dichloroethane.....	ug/kg	ND	ND	10	1
594-20-7	2,2-Dichloropropane.....	ug/kg	ND	ND	5.2	1
156-59-2	cis-1,2-Dichloroethane.....	ug/kg	ND	ND	5.2	1
78-93-3	2-Butanone.....	ug/kg	ND	ND	10	1
74-97-5	Bromochloromethane.....	ug/kg	ND	ND	21	1
67-66-3	Chloroform.....	ug/kg	ND	ND	5.2	1
71-55-6	1,1,1-Trichloroethane.....	ug/kg	ND	ND	5.2	1
56-23-5	Carbon tetrachloride.....	ug/kg	ND	ND	5.2	1
563-58-6	1,1-Dichloropropene.....	ug/kg	ND	ND	5.2	1
71-43-2	Benzene.....	ug/kg	ND	ND	5.2	1
107-06-2	1,2-Dichloroethane.....	ug/kg	ND	ND	5.2	1
79-01-6	Trichloroethene.....	ug/kg	ND	ND	5.2	1
78-87-5	1,2-Dichloropropane.....	ug/kg	ND	ND	5.2	1
74-95-3	Dibromomethane.....	ug/kg	ND	ND	5.2	1
75-27-4	Bromodichloromethane.....	ug/kg	ND	ND	5.2	1
10061-02-6	trans-1,3-Dichloropropene.....	ug/kg	ND	ND	5.2	1
108-10-1	4-Methyl-2-pentanone.....	ug/kg	ND	ND	5.2	1
108-88-3	Toluene.....	ug/kg	ND	ND	21	1
10061-01-5	cis-1,3-Dichloropropene.....	ug/kg	ND	ND	5.2	1
79-00-5	1,1,2-Trichloroethane.....	ug/kg	ND	ND	5.2	1
127-18-4	Tetrachloroethene.....	ug/kg	ND	ND	5.2	1
142-28-9	1,3-Dichloropropane.....	ug/kg	ND	ND	5.2	1
124-48-1	Dibromochloromethane.....	ug/kg	ND	ND	5.2	1
591-78-6	2-Hexanone.....	ug/kg	ND	ND	5.2	1
106-93-4	1,2-Dibromoethane.....	ug/kg	ND	ND	21	1
108-90-7	Chlorobenzene.....	ug/kg	ND	ND	5.2	1
630-20-6	1,1,1,2-Tetrachloroethane.....	ug/kg	ND	ND	5.2	1

RL = Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 8261A - Volatile Organics

Lab Sample ID: L9809522-04
Client Sample ID: RE15-98-0032
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 10/01/98 Time: 08:14

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HPMS6
Analyte: CMS
Lab File ID: 61A10306
Sample Weight: N/A
Extract Volume: N/A
% Solid: 97
Method: 8260B
Run ID: R53362
Batch: WG46889

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethyl benzene	ug/kg	ND	ND	5.2	1
1330-20-7	Xylenes (total)	ug/kg	ND	ND	5.2	1
100-42-5	Styrene	ug/kg	ND	ND	5.2	1
75-25-2	Bromoform	ug/kg	ND	ND	5.2	1
98-82-8	Isopropylbenzene	ug/kg	ND	ND	5.2	1
108-86-1	Bromobenzene	ug/kg	ND	ND	5.2	1
96-18-4	1,2,3-Trichloropropane	ug/kg	ND	ND	5.2	1
79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	ND	ND	5.2	1
103-65-1	n-Propylbenzene	ug/kg	ND	ND	5.2	1
95-49-8	2-Chlorotoluene	ug/kg	ND	ND	5.2	1
106-43-4	4-Chlorotoluene	ug/kg	ND	ND	5.2	1
108-67-8	1,3,5-Trimethylbenzene	ug/kg	ND	ND	5.2	1
98-06-6	tert-Butylbenzene	ug/kg	ND	ND	5.2	1
95-63-6	sec-Butylbenzene	ug/kg	ND	ND	5.2	1
135-98-8	1,2,4-Trimethylbenzene	ug/kg	ND	ND	5.2	1
541-73-1	1,3-Dichlorobenzene	ug/kg	ND	ND	5.2	1
106-46-7	1,4-Dichlorobenzene	ug/kg	ND	ND	5.2	1
99-87-6	p-Isopropyltoluene	ug/kg	ND	ND	5.2	1
95-50-1	1,2-Dichlorobenzene	ug/kg	ND	ND	5.2	1
104-51-8	n-Butylbenzene	ug/kg	ND	ND	5.2	1
96-12-8	1,2-Dibromo-3-chloropropane	ug/kg	ND	ND	5.2	1
76-13-1	Trichlorotrifluoroethane	ug/kg	ND	ND	10	1
SURROGATES- In Percent Recovery:						
	Toluene-d8	98.3	(81 - 117%)			
	p-Bromofluorobenzene	86.4	(74 - 121%)			
	Dibromofluoromethane	102	(80 - 120%)			
	1,2-Dichloroethane-d4	108	(80 - 120%)			

RL = Reporting Limit

LogIn #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L9809522-05
Client Sample ID: RE15-98-0033
Site/Work ID: 4659R/MR3R12082642

Matrix: Soil
Collected: 09/23/98 N/A

% Solid: 98
COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids	% wt.	98		1.0	1	N/A	DKM	10/15/98	13:50	D2216-90

Product: 8081A - Pesticides & PCB's - LANT

Lab Sample ID: L9809522-05
Client Sample ID: RE15-98-0033
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCUP Extract Date: N/A
Extract Date: 09/30/98
Analysis Date: 10/01/98 Time:

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HP9
Analyst: ECL
Lab File ID: 412.D
Sample Weight: N/A
Extract Volume: N/A
% Solid: 98
Method: 8081A\3550B
Run ID: R53256
Batch: WG46843

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
319-84-6	alpha-BHC	ug/kg	ND		1.7	1
319-85-7	beta-BHC	ug/kg	ND		1.7	1
319-86-8	delta-BHC	ug/kg	ND		1.7	1
58-89-9	gamma-BHC (Lindane)	ug/kg	ND		1.7	1
76-44-8	Heptachlor	ug/kg	ND		1.7	1
309-00-2	Aldrin	ug/kg	ND		1.7	1
1024-57-3	Heptachlor epoxide	ug/kg	ND		1.7	1
959-98-8	Endosulfan I	ug/kg	ND		1.7	1
60-57-1	Dieldrin	ug/kg	ND		1.7	1
72-55-9	4,4'-DDE	ug/kg	ND		3.4	1
72-20-8	Endrin	ug/kg	ND		3.4	1
33213-65-9	Endosulfan II	ug/kg	ND		3.4	1
72-54-8	4,4'-DDD	ug/kg	ND		3.4	1
1031-07-8	Endosulfan sulfate	ug/kg	ND		3.4	1
50-29-3	4,4'-DDT	ug/kg	ND		3.4	1
72-43-5	Methoxychlor	ug/kg	ND		17	1
53494-70-5	Endrin ketone	ug/kg	ND		3.4	1
7421-93-4	alpha Chlordane	ug/kg	ND		0.34	1
5103-71-9	gamma Chlordane	ug/kg	ND		1.7	1
8001-35-2	Toxaphene	ug/kg	ND		1.7	1
12674-11-2	Aroclor-1016	ug/kg	ND		170	1
11104-28-2	Aroclor-1221	ug/kg	ND		34	1
11141-16-5	Aroclor-1232	ug/kg	ND		67	1
					34	1

RL = Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 8081A - Pesticides & PCB's - LANL

Lab Sample ID: L9809522-05
Client Sample ID: RE15-98-0033
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCUP Extract Date: N/A
Extract Date: 09/30/98
Analysis Date: 10/01/98 Time:

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HP9
Analyst: ECL
Lab File ID: 412.D
Sample Weight: N/A
Extract Volume: N/A
% Solid: 98
Method: 8081A\3550B
Run ID: R53256
Batch: WG46843

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
53469-21-9	Aroclor-1242	ug/kg	ND	ND	34	1
12672-29-6	Aroclor-1248	ug/kg	ND	ND	34	1
11097-69-1	Aroclor-1254	ug/kg	ND	ND	34	1
11096-82-5	Aroclor-1260	ug/kg	ND	ND	34	1

SURROGATES - In Percent Recovery:
2,4,5,6-Tetrachloro-m-xylene..... 75.8 (29 - 133%)
Decachlorobiphenyl..... 109 (30 - 173%)

Product: 8271AS - Semi-volatile Compounds

Lab Sample ID: L9809522-05
Client Sample ID: RE15-98-0033
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCUP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 20:01

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HPMS7
Analyst: MJS
Lab File ID: 5992
Sample Weight: N/A
Extract Volume: N/A
% Solid: 98
Method: 8270C
Run ID: R54614
Batch: WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
62-75-9	n-Nitrosodimethylamine	ug/kg	ND	ND	340	1
62-53-3	Aniline	ug/kg	ND	ND	670	1
108-95-2	Phenol	ug/kg	ND	ND	340	1
111-44-4	bis(2-Chloroethyl) ether	ug/kg	ND	ND	340	1
95-57-8	2-Chlorophenol	ug/kg	ND	ND	340	1
541-73-1	1,3-Dichlorobenzene	ug/kg	ND	ND	340	1
106-46-7	1,4-Dichlorobenzene	ug/kg	ND	ND	340	1
95-50-1	1,2-Dichlorobenzene	ug/kg	ND	ND	340	1
95-48-7	2-Methylphenol	ug/kg	ND	ND	340	1
106-44-5	4-Methylphenol	ug/kg	ND	ND	340	1

RL = Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-05
Client Sample ID: RE15-98-0033
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 20:01

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HPMS7
Analyst: MLS
Lab File ID: 5992
Sample Weight: N/A
Extract Volume: N/A
% Solids: 98
Method: 8270C
Run ID: R54614
Batch: WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
621-64-7	n-Nitroso-di-n-propylamine.....	ug/kg		ND	340	1
67-72-1	Hexachloroethane.....	ug/kg		ND	340	1
98-95-3	Nitrobenzene.....	ug/kg		ND	340	1
78-59-1	Isophorone.....	ug/kg		ND	340	1
88-75-5	2-Nitrophenol.....	ug/kg		ND	340	1
105-67-9	2,4-Dimethylphenol.....	ug/kg		ND	340	1
65-85-0	Benzoic acid.....	ug/kg		ND	340	1
111-91-1	bis(2-Chloroethoxy)methane.....	ug/kg		ND	340	1
120-83-2	1,2,4-Trichlorophenol.....	ug/kg		ND	340	1
120-82-1	1,2,4-Trichlorobenzene.....	ug/kg		ND	340	1
91-20-3	Naphthalene.....	ug/kg		ND	340	1
106-47-8	4-Chloroaniline.....	ug/kg		ND	340	1
87-68-3	Hexachlorobutadiene.....	ug/kg		ND	1300	1
59-50-7	4-Chloro-3-methylphenol.....	ug/kg		ND	340	1
91-57-6	2-Methylnaphthalene.....	ug/kg		ND	670	1
77-47-4	Hexachlorocyclopentadiene.....	ug/kg		ND	340	1
88-06-2	2,4,6-Trichlorophenol.....	ug/kg		ND	340	1
95-95-4	2,4,5-Trichlorophenol.....	ug/kg		ND	340	1
91-58-7	2-Chloronaphthalene.....	ug/kg		ND	1600	1
88-74-4	2-Nitroaniline.....	ug/kg		ND	340	1
131-11-3	Dimethylphthalate.....	ug/kg		ND	1600	1
208-96-8	Acenaphthylene.....	ug/kg		ND	340	1
99-09-2	3-Nitroaniline.....	ug/kg		ND	340	1
83-32-9	Acenaphthene.....	ug/kg		ND	1600	1
51-28-5	2,4-Dinitrophenol.....	ug/kg		ND	340	1
100-02-7	4-Nitrophenol.....	ug/kg		ND	1600	1
132-64-9	Dibenzofuran.....	ug/kg		ND	1600	1
121-14-2	2,4-Dinitrotoluene.....	ug/kg		ND	340	1
606-20-2	2,6-Dinitrotoluene.....	ug/kg		ND	340	1
84-66-2	Diethylphthalate.....	ug/kg		ND	340	1
7005-72-3	4-Chlorophenyl-phenyl ether.....	ug/kg		ND	340	1
86-73-7	Fluorene.....	ug/kg		ND	340	1
100-01-6	4-Nitroaniline.....	ug/kg		ND	340	1
534-52-1	4,6-Dinitro-2-methylphenol.....	ug/kg		ND	670	1
86-30-6	n-Nitrosodiphenylamine.....	ug/kg		ND	1600	1
103-33-3	Azobenzene.....	ug/kg		ND	340	1
101-55-3	4-Bromophenyl-phenylether.....	ug/kg		ND	340	1
118-74-1	Hexachlorobenzene.....	ug/kg		ND	670	1
87-86-5	Pentachlorophenol.....	ug/kg		ND	340	1

RL = Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 827LAS - Semi-volatile Compounds

Lab Sample ID: L9809522-05
Client Sample ID: RE15-98-0033
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98

Sample Weight: N/A
Extract Volume: N/A

* Solid: 98

TCUP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 20:01

Instrument: HPMS7
Analyst: MRS
Lab File ID: 5992

Method: 8270C
Run ID: R54614
Batch: WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
85-01-8	Phenanthrene.....	ug/kg	ND	ND	340	1
120-12-7	Anthracene.....	ug/kg	ND	ND	340	1
84-74-2	Di-n-butylphthalate.....	ug/kg	ND	ND	340	1
206-44-0	Fluoranthene.....	ug/kg	ND	ND	340	1
129-00-0	Pyrene.....	ug/kg	ND	ND	340	1
85-68-7	Butylbenzylphthalate.....	ug/kg	ND	ND	340	1
91-94-1	3,3'-Dichlorobenzidine.....	ug/kg	ND	ND	670	1
56-55-3	Benzo(a)anthracene.....	ug/kg	ND	ND	340	1
117-81-7	bis(2-Ethylhexyl)phthalate.....	ug/kg	ND	ND	340	1
218-01-9	Chrysene.....	ug/kg	ND	ND	340	1
117-84-0	Di-n-octylphthalate.....	ug/kg	ND	ND	340	1
205-99-2	Benzo(b)fluoranthene.....	ug/kg	ND	ND	340	1
207-08-9	Benzo(k)fluoranthene.....	ug/kg	ND	ND	340	1
50-32-8	Benzo(a)pyrene.....	ug/kg	ND	ND	340	1
193-39-5	Indeno(1,2,3-cd)pyrene.....	ug/kg	ND	ND	340	1
53-70-3	Dibenzo(a,h)anthracene.....	ug/kg	ND	ND	340	1
191-24-2	Benzo(g,h,i)perylene.....	ug/kg	ND	ND	340	1
100-51-6	Benzy alcohol.....	ug/kg	ND	ND	1300	1
108-60-1	2,2'-Oxybis(1-chloropropane).....	ug/kg	ND	ND	340	1
SURROGATES - In Percent Recovery:						
	2,4,6-Tribromophenol.....	77.4	(19 - 122%)			
	2-Fluorobiphenyl.....	65.4	(30 - 115%)			
	2-Fluorophenol.....	56.6	(25 - 121%)			
	Nitrobenzene-d5.....	62.7	(23 - 120%)			
	Phenol-d5.....	59.5	(24 - 113%)			
	p-Terphenyl-d14.....	104	(18 - 137%)			

RL = Reporting Limit

LogIn #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 8261A - Volatile Organics

Lab Sample ID: L9809522-05
Client Sample ID: R815-98-0033
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 10/01/98 Time: 08:46

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98

Instrument: HPMS6
Analyst: CWS
Lab File ID: 61A10307

Sample Weight: N/A
Extract Volume: N/A
* Solid: 98
Method: 8260B
Run ID: R53362
Batch: W046889

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
75-71-8	Dichlorodifluoromethane	ug/kg		ND	10	1
74-87-3	Chloromethane	ug/kg		ND	10	1
75-01-4	Vinyl chloride	ug/kg		ND	10	1
74-83-9	Bromomethane	ug/kg		ND	10	1
75-00-3	Chloroethane	ug/kg		ND	10	1
75-69-4	Trichlorofluoromethane	ug/kg		ND	10	1
75-35-4	1,1-Dichloroethene	ug/kg		ND	5.1	1
74-88-4	Iodomethane	ug/kg		ND	5.1	1
75-15-0	Carbon disulfide	ug/kg		ND	5.1	1
67-64-1	Acetone	ug/kg		ND	5.1	1
75-09-2	Methylene chloride	ug/kg		ND	20	1
156-60-5	trans-1,2-Dichloroethene	ug/kg		ND	5.1	1
75-34-3	1,1-Dichloroethane	ug/kg		ND	10	1
594-20-7	2,2-Dichloropropane	ug/kg		ND	5.1	1
156-59-2	cis-1,2-Dichloroethene	ug/kg		ND	5.1	1
78-93-3	2-Butanone	ug/kg		ND	10	1
74-97-5	Bromochloromethane	ug/kg		ND	20	1
67-66-3	Chloroform	ug/kg		ND	5.1	1
71-55-6	1,1,1-Trichloroethane	ug/kg		ND	5.1	1
56-23-5	Carbon tetrachloride	ug/kg		ND	5.1	1
563-58-6	1,1-Dichloropropene	ug/kg		ND	5.1	1
71-43-2	Benzene	ug/kg		ND	5.1	1
107-06-2	1,2-Dichloroethane	ug/kg		ND	5.1	1
79-01-6	Trichloroethene	ug/kg		ND	5.1	1
78-87-5	1,2-Dichloropropane	ug/kg		ND	5.1	1
74-95-3	Dibromomethane	ug/kg		ND	5.1	1
75-27-4	Bromodichloromethane	ug/kg		ND	5.1	1
10061-02-6	trans-1,3-Dichloropropene	ug/kg		ND	5.1	1
108-10-1	4-Methyl-2-pentanone	ug/kg		ND	5.1	1
108-88-3	Toluene	ug/kg		ND	20	1
10061-01-5	cis-1,3-Dichloropropene	ug/kg		ND	5.1	1
79-00-5	1,1,2-Trichloroethane	ug/kg		ND	5.1	1
127-18-4	Tetrachloroethene	ug/kg		ND	5.1	1
142-28-9	1,3-Dichloropropene	ug/kg		ND	5.1	1
124-48-1	Dibromochloromethane	ug/kg		ND	5.1	1
591-78-6	2-Hexanone	ug/kg		ND	5.1	1
106-93-4	1,2-Dibromomethane	ug/kg		ND	20	1
108-90-7	Chlorobenzene	ug/kg		ND	5.1	1
630-20-6	1,1,1,2-Tetrachloroethane	ug/kg		ND	5.1	1

RL = Reporting Limit

LogIn #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826LA - Volatile Organics

Lab Sample ID: L9809522-05
Client Sample ID: RE15-98-0033
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 10/01/98 Time: 08:46

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98

Instrument: HPMS6
Analyst: CMS
Lab File ID: 61A10307

Sample Weight: N/A
Extract Volume: N/A
% Solid: 98
Method: 8260B
Run ID: R53362
Batch: WG46889

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethyl benzene	ug/kg	ND		5.1	1
1330-20-7	Xylenes (total)	ug/kg	ND		5.1	1
100-42-5	Styrene	ug/kg	ND		5.1	1
75-25-2	Bromofom	ug/kg	ND		5.1	1
98-82-8	Isopropylbenzene	ug/kg	ND		5.1	1
108-86-1	Bromobenzene	ug/kg	ND		5.1	1
96-18-4	1,2,3-Trichloropropane	ug/kg	ND		5.1	1
79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	ND		5.1	1
103-65-1	n-Propylbenzene	ug/kg	ND		5.1	1
95-49-8	2-Chlorotoluene	ug/kg	ND		5.1	1
106-43-4	4-Chlorotoluene	ug/kg	ND		5.1	1
108-67-8	1,3,5-Trimethylbenzene	ug/kg	ND		5.1	1
98-06-6	tert-Butylbenzene	ug/kg	ND		5.1	1
95-63-6	1,2,4-Trimethylbenzene	ug/kg	ND		5.1	1
135-98-8	sec-Butylbenzene	ug/kg	ND		5.1	1
541-73-1	1,3-Dichlorobenzene	ug/kg	ND		5.1	1
106-46-7	1,4-Dichlorobenzene	ug/kg	ND		5.1	1
99-87-6	p-Isopropyltoluene	ug/kg	ND		5.1	1
95-50-1	1,2-Dichlorobenzene	ug/kg	ND		5.1	1
104-51-8	n-Butylbenzene	ug/kg	ND		5.1	1
96-12-8	1,2-Dibromo-3-chloropropane	ug/kg	ND		5.1	1
76-13-1	Trichlorotrifluoroethane	ug/kg	ND		5.1	1
SURROGATES - In Percent Recovery:						
	Toluene-d8	83.6	{ 81 - 117% }			
	p-Bromofluorobenzene	80.8	{ 74 - 121% }			
	Dibromofluoromethane	92.7	{ 80 - 120% }			
	1,2-Dichloroethane-d4	100	{ 80 - 120% }			

RL - Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L9809522-06
Client Sample ID: RE15-98-0034
Site/Work ID: 4659R/MR3R12082642

Matrix: Soil
Collected: 09/23/98 N/A

% Solid: 97
COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids	% wt.	97		1.0	1	N/A	DKM	10/15/98	13:50	D2216-90

Product: 8081A - Pesticides & PCB's - LANT

Lab Sample ID: L9809522-06
Client Sample ID: RE15-98-0034
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A

% Solid: 97

YCLP Extract Date: N/A
Extract Date: 09/30/98
Analysis Date: 10/01/98 Time:

Date Collected: 09/23/98
Instrument: HP9
Analyst: BCL
Lab File ID: 413.D

Method: 8081A\3550B
Run ID: R53256
Batch: WC46843

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
319-04-6	alpha-BHC	ug/kg	ND		1.7	1
319-85-7	beta-BHC	ug/kg	ND		1.7	1
319-86-8	delta-BHC	ug/kg	ND		1.7	1
58-89-9	gamma-BHC (lindane)	ug/kg	ND		1.7	1
76-44-8	Heptachlor	ug/kg	ND		1.7	1
309-00-2	Aldrin	ug/kg	ND		1.7	1
1024-57-3	Heptachlor epoxide	ug/kg	ND		1.7	1
959-98-8	Endosulfan I	ug/kg	ND		1.7	1
60-57-1	Dieldrin	ug/kg	ND		1.7	1
72-55-9	4,4'-DDE	ug/kg	ND		3.4	1
72-20-8	Endosulfan II	ug/kg	ND		3.4	1
33213-65-9	4,4'-DDD	ug/kg	ND		3.4	1
72-54-8	4,4'-DDT	ug/kg	ND		3.4	1
1031-07-8	Endosulfan sulfate	ug/kg	ND		3.4	1
50-29-3	4,4'-DDT	ug/kg	ND		3.4	1
72-43-5	Methoxychlor	ug/kg	ND		17	1
53494-70-5	Endrin ketone	ug/kg	ND		3.4	1
7421-93-4	alpha aldehyde	ug/kg	ND		0.34	1
5103-71-9	alpha Chloroane	ug/kg	ND		1.7	1
5103-74-2	gamma Chloroane	ug/kg	ND		1.7	1
8001-35-2	Toxaphene	ug/kg	ND		170	1
12674-11-2	Aroclor-1016	ug/kg	ND		34	1
11104-28-2	Aroclor-1221	ug/kg	ND		68	1
11141-16-5	Aroclor-1232	ug/kg	ND		34	1

RL = Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 80811A - Pesticides & PCB's - LANL

Lab Sample ID: L9809522-06
Client Sample ID: RE15-98-0034
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: 09/30/98
Analysis Date: 10/01/98 Time:

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HP9
Analyst: ECL
Lab File ID: 413.D
Sample Weight: N/A
Extract Volume: N/A
% Solid: 97
Method: 8081A\3550B
Run ID: R53256
Batch: W646843

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
53469-21-9	Aroclor-1242	ug/kg	ND	ND	34	1
12672-29-6	Aroclor-1248	ug/kg	ND	ND	34	1
11097-69-1	Aroclor-1254	ug/kg	ND	ND	34	1
11096-82-5	Aroclor-1260	ug/kg	ND	ND	34	1

SURROGATES - In Percent Recovery:
2,4,5,6-Tetrachloro-m-xylene..... (29 - 133%)
Decachlorobiphenyl..... (30 - 173%)

Product: 8271AS - Semivolatile Compounds

Lab Sample ID: L9809522-06
Client Sample ID: RE15-98-0034
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 20:40

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HPMS7
Analyst: MLS
Lab File ID: 5993
Sample Weight: N/A
Extract Volume: N/A
% Solid: 97
Method: 8270C
Run ID: R54614
Batch: W647900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
62-75-9	n-Nitrosodimethylamine	ug/kg	ND	ND	340	1
62-53-3	Aniline	ug/kg	ND	ND	680	1
108-95-2	Phenol	ug/kg	ND	ND	340	1
111-44-4	bis(2-Chloroethyl) ether	ug/kg	ND	ND	340	1
95-57-8	2-Chlorophenol	ug/kg	ND	ND	340	1
541-73-1	1,3-Dichlorophenol	ug/kg	ND	ND	340	1
106-46-7	1,4-Dichlorobenzene	ug/kg	ND	ND	340	1
95-50-1	1,2-Dichlorobenzene	ug/kg	ND	ND	340	1
95-48-7	2-Methylphenol	ug/kg	ND	ND	340	1
106-44-5	4-Methylphenol	ug/kg	ND	ND	340	1

RL = Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 827LAS - Semi-volatile Compounds

Lab Sample ID: L9809522-06
Client Sample ID: RE15-98-0034
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 20:40

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HPMS7
Analyst: MLS
Lab File ID: 5993

Sample Weight: N/A
Extract Volume: N/A
% Solid: 97
Method: 8270C
Run ID: R54614
Batch: W647900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
621-64-7	n-Nitroso-di-n-propylamine	ug/kg		ND	340	1
67-72-1	Hexachloroethane	ug/kg		ND	340	1
98-95-3	Nitrobenzene	ug/kg		ND	340	1
78-59-1	Isophorone	ug/kg		ND	340	1
88-75-5	2-Nitrophenol	ug/kg		ND	340	1
105-67-9	2,4-Dimethylphenol	ug/kg		ND	340	1
65-85-0	Benzoic acid	ug/kg		ND	340	1
111-91-1	bis(2-Chloroethoxy)methane	ug/kg		ND	3400	1
120-83-2	2,4-Dichlorophenol	ug/kg		ND	340	1
120-82-1	1,2,4-Trichlorobenzene	ug/kg		ND	340	1
91-20-3	Naphthalene	ug/kg		ND	340	1
106-47-8	4-Chloroaniline	ug/kg		ND	340	1
87-68-3	Hexachlorobutadiene	ug/kg		ND	1300	1
59-50-7	4-Chloro-3-methylphenol	ug/kg		ND	340	1
91-57-6	2-Methylnaphthalene	ug/kg		ND	680	1
77-47-4	Hexachlorocyclopentadiene	ug/kg		ND	340	1
88-06-2	2,4,6-Trichlorophenol	ug/kg		ND	340	1
95-95-4	2,4,5-Trichlorophenol	ug/kg		ND	1700	1
91-58-7	2-Chloronaphthalene	ug/kg		ND	340	1
88-74-4	2-Nitroaniline	ug/kg		ND	1700	1
131-11-3	Dimethylphthalate	ug/kg		ND	340	1
208-96-8	Acenaphthylene	ug/kg		ND	340	1
99-09-2	3-Nitroaniline	ug/kg		ND	1700	1
83-32-9	Acenaphthene	ug/kg		ND	340	1
51-28-5	2,4-Dinitrophenol	ug/kg		ND	1700	1
100-02-7	4-Nitrophenol	ug/kg		ND	1700	1
132-64-9	Dibenzofuran	ug/kg		ND	340	1
121-14-2	2,4-Dinitrotoluene	ug/kg		ND	340	1
606-20-2	2,6-Dinitrotoluene	ug/kg		ND	340	1
84-66-2	Diethylphthalate	ug/kg		ND	340	1
7005-72-3	4-Chlorophenyl-phenyl ether	ug/kg		ND	340	1
86-73-7	Fluorene	ug/kg		ND	340	1
100-01-6	4-Nitroaniline	ug/kg		ND	680	1
534-52-1	4,6-Dinitro-2-methylphenol	ug/kg		ND	1700	1
86-30-6	n-Nitrosodiphenylamine	ug/kg		ND	340	1
103-33-3	Azobenzene	ug/kg		ND	680	1
101-55-3	4-Bromophenyl-phenylether	ug/kg		ND	340	1
118-74-1	Hexachlorobenzene	ug/kg		ND	340	1
87-86-5	Pentachlorophenol	ug/kg		ND	1700	1

RL = Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 827IAS - Semivolatile Compounds

Lab Sample ID: L9809522-06
Client Sample ID: RE15-98-0034
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCUP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 20:40

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HPMS7
Analyst: MJS
Lab File ID: 5993
Sample Weight: N/A
Extract Volume: N/A
% Solid: 97
Method: 8270C
Run ID: R54614
Batch: WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
85-01-8	Phenanthrene	ug/kg	ND		340	1
120-12-7	Anthracene	ug/kg	ND		340	1
84-74-2	Di-n-butylphthalate	ug/kg	ND		340	1
206-44-0	Fluoranthene	ug/kg	ND		340	1
129-00-0	Pyrene	ug/kg	ND		340	1
85-68-7	Butylbenzylphthalate	ug/kg	ND		340	1
91-94-1	3,3'-Dichlorobenzidine	ug/kg	ND		340	1
56-55-3	Benzo(a)anthracene	ug/kg	ND		680	1
117-81-7	bis(2-Ethylhexyl) phthalate	ug/kg	ND		340	1
218-01-9	Chrysene	ug/kg	ND		340	1
117-84-0	Di-n-octylphthalate	ug/kg	ND		340	1
205-99-2	Benzo(b)fluoranthene	ug/kg	ND		340	1
207-08-9	Benzo(k)fluoranthene	ug/kg	ND		340	1
50-32-8	Benzo(a)pyrene	ug/kg	ND		340	1
193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	ND		340	1
53-70-3	Dibenzo(a,h)anthracene	ug/kg	ND		340	1
191-24-2	Benzo(g,h,i)perylene	ug/kg	ND		340	1
100-51-6	Benzyl alcohol	ug/kg	ND		340	1
108-60-1	2,2'-Oxybis(1-chloropropane)	ug/kg	ND		1300	1
					340	1
SURROGATES- In Percent Recovery:						
	2,4,6-Tribromophenol	79.1	(19 - 122%)			
	2-Fluorobiphenyl	75.4	(30 - 115%)			
	Nitrobenzene-d5	61.4	(25 - 121%)			
	Phenol-d5	68.9	(23 - 120%)			
	p-Terphenyl-d14	66.2	(24 - 113%)			
		104	(18 - 137%)			

RL = Reporting Limit

LogIn #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826LA - Volatile Organics

Lab Sample ID: L9809522-06
Client Sample ID: RE15-98-0034
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 10/03/98 Time: 15:54

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98

Instrument: HPMS6
Analyte: CMS
Lab File ID: 6LA10367

Sample Weight: N/A
Extract Volume: N/A
% Solid: 97
Method: 8260B
Run ID: R53603
Batch: WG47027

CAS #	Compound	Units	Result	Qualifiers	RT	Dilution
75-71-8	Dichlorodifluoromethane.....	ug/kg	ND	ND	10	1
74-87-3	Chloromethane.....	ug/kg	ND	ND	10	1
75-01-4	Vinyl chloride.....	ug/kg	ND	ND	10	1
74-83-9	Bromomethane.....	ug/kg	ND	ND	10	1
75-00-3	Chloroethane.....	ug/kg	ND	ND	10	1
75-69-4	Trichlorofluoromethane.....	ug/kg	ND	ND	5.2	1
75-35-4	1,1-Dichloroethene.....	ug/kg	ND	ND	5.2	1
74-88-4	Iodomethane.....	ug/kg	ND	ND	5.2	1
75-15-0	Carbon disulfide.....	ug/kg	ND	ND	5.2	1
67-64-1	Acetone.....	ug/kg	ND	ND	21	1
75-09-2	Methylene chloride.....	ug/kg	ND	ND	5.2	1
156-60-5	trans-1,2-Dichloroethene.....	ug/kg	ND	ND	10	1
75-34-3	1,1-Dichloroethane.....	ug/kg	ND	ND	5.2	1
594-20-7	2,2-Dichloropropane.....	ug/kg	ND	ND	5.2	1
156-59-2	cis-1,2-Dichloroethene.....	ug/kg	ND	ND	10	1
78-93-3	2-Butanone.....	ug/kg	ND	ND	21	1
74-97-5	Bromochloromethane.....	ug/kg	ND	ND	5.2	1
67-66-3	Chloroform.....	ug/kg	ND	ND	5.2	1
71-55-6	1,1,1-Trichloroethane.....	ug/kg	ND	ND	5.2	1
56-23-5	Carbon tetrachloride.....	ug/kg	ND	ND	5.2	1
563-58-6	1,1-Dichloropropene.....	ug/kg	ND	ND	5.2	1
71-43-2	Benzene.....	ug/kg	ND	ND	5.2	1
107-06-2	1,2-Dichloroethane.....	ug/kg	ND	ND	5.2	1
79-01-6	Trichloroethene.....	ug/kg	ND	ND	5.2	1
78-87-5	1,2-Dichloropropane.....	ug/kg	ND	ND	5.2	1
74-95-3	Dibromomethane.....	ug/kg	ND	ND	5.2	1
75-27-4	Bromodichloromethane.....	ug/kg	ND	ND	5.2	1
10061-02-6	trans-1,3-Dichloropropene.....	ug/kg	ND	ND	5.2	1
108-10-1	4-Methyl-2-pentanone.....	ug/kg	ND	ND	21	1
108-88-3	Toluene.....	ug/kg	ND	ND	5.2	1
10061-01-5	cis-1,3-Dichloropropene.....	ug/kg	ND	ND	5.2	1
79-00-5	1,1,2-Trichloroethane.....	ug/kg	ND	ND	5.2	1
127-18-4	Tetrachloroethene.....	ug/kg	ND	ND	5.2	1
142-28-9	1,3-Dichloropropane.....	ug/kg	ND	ND	5.2	1
124-48-1	Dibromochloromethane.....	ug/kg	ND	ND	5.2	1
591-78-6	2-Hexanone.....	ug/kg	ND	ND	21	1
106-93-4	1,2-Dibromomethane.....	ug/kg	ND	ND	5.2	1
108-90-7	Chlorobenzene.....	ug/kg	ND	ND	5.2	1
630-20-6	1,1,1,2-Tetrachloroethane.....	ug/kg	ND	ND	5.2	1

RL = Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 8261A - Volatile Organics

Lab Sample ID: L9809522-06
Client Sample ID: RE15-98-0034
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 10/03/98 Time: 15:54

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HPMS6
Analyst: CWS
Lab File ID: 61A10367
Sample Weight: N/A
Extract Volume: N/A
* Solid: 97
Method: 8260B
Run ID: R53603
Batch: WG47027

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethyl benzene.....	ug/kg	ND		5.2	1
1330-20-7	Xylenes (total).....	ug/kg	ND		5.2	1
100-42-5	Styrene.....	ug/kg	ND		5.2	1
75-25-2	Bromofom.....	ug/kg	ND		5.2	1
98-82-8	Isopropylbenzene.....	ug/kg	ND		5.2	1
108-86-1	Bromobenzene.....	ug/kg	ND		5.2	1
96-18-4	1,2,3-Trichloropropane.....	ug/kg	ND		5.2	1
79-34-5	1,1,2,2-Tetrachloroethane.....	ug/kg	ND		5.2	1
103-65-1	n-Propylbenzene.....	ug/kg	ND		5.2	1
95-49-8	2-Chlorotoluene.....	ug/kg	ND		5.2	1
106-43-4	4-Chlorotoluene.....	ug/kg	ND		5.2	1
108-67-8	1,3,5-Trimethylbenzene.....	ug/kg	ND		5.2	1
98-06-6	tert-Butylbenzene.....	ug/kg	ND		5.2	1
95-63-6	1,2,4-Trimethylbenzene.....	ug/kg	ND		5.2	1
135-98-8	sec-Butylbenzene.....	ug/kg	ND		5.2	1
541-73-1	1,3-Dichlorobenzene.....	ug/kg	ND		5.2	1
106-46-7	1,4-Dichlorobenzene.....	ug/kg	ND		5.2	1
99-87-6	p-Isopropyltoluene.....	ug/kg	ND		5.2	1
95-50-1	1,2-Dichlorobenzene.....	ug/kg	ND		5.2	1
104-51-8	n-Butylbenzene.....	ug/kg	ND		5.2	1
96-12-8	1,2-Dibromo-3-chloropropane.....	ug/kg	ND		5.2	1
76-13-1	Trichlorotrifluoroethane.....	ug/kg	ND		10	1
SURROGATES - In Percent Recovery:						
	Toluene-d8.....	104	{ 81 - 117% }			
	p-Bromofluorobenzene.....	92.6	{ 74 - 121% }			
	Dibromofluoromethane.....	104	{ 80 - 120% }			
	1,2-Dichloroethane-d4.....	109	{ 80 - 120% }			

KL - Reporting Limit

LogIn #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L9809522-07
Client Sample ID: RE15-98-0035
Site/Work ID: 4659R/MR3R12082642

Matrix: Soil
Collected: 09/23/98 N/A

% Solid: 94
COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	% wt.	94		1.0	1	N/A	DKM	10/15/98	13:50	D2216-90

Product: 8081A - Pesticides & PCB's - IANTL

Lab Sample ID: L9809522-07
Client Sample ID: RE15-98-0035
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: 09/30/98
Analysis Date: 10/01/98 Time:

Date Collected: 09/23/98
Instrument: HP9
Analyst: ECL
Lab File ID: 414.D

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A
% Solid: 94
Method: 8081A\3550B
Run ID: R53256
Batch: WG46843

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
319-84-6	alpha-BHC.....	ug/kg	1.8	ND	1.8	1
319-85-7	beta-BHC.....	ug/kg	1.8	ND	1.8	1
319-86-8	delta-BHC.....	ug/kg	1.8	ND	1.8	1
58-89-9	gamma-BHC (lindane)	ug/kg	1.8	ND	1.8	1
76-44-8	Heptachlor.....	ug/kg	1.8	ND	1.8	1
309-00-2	Aldrin.....	ug/kg	1.8	ND	1.8	1
1024-57-3	Heptachlor epoxide.....	ug/kg	1.8	ND	1.8	1
959-98-8	Endosulfan I.....	ug/kg	1.8	ND	1.8	1
60-57-1	Diieldrin.....	ug/kg	1.8	ND	1.8	1
72-55-9	4,4'-DDE.....	ug/kg	3.5	ND	3.5	1
72-20-8	Endrin.....	ug/kg	3.5	ND	3.5	1
33213-65-9	Endosulfan II.....	ug/kg	3.5	ND	3.5	1
72-54-8	4,4'-DDD.....	ug/kg	3.5	ND	3.5	1
1031-07-8	Endosulfan sulfate.....	ug/kg	3.5	ND	3.5	1
50-29-3	4,4'-DDT.....	ug/kg	3.5	ND	3.5	1
72-43-5	Methoxychlor.....	ug/kg	1.8	ND	1.8	1
53494-70-5	Endrin ketone.....	ug/kg	3.5	ND	3.5	1
7421-93-4	Endrin aldehyde.....	ug/kg	0.35	ND	0.35	1
5103-71-9	alpha Chlordane.....	ug/kg	1.8	ND	1.8	1
5103-74-2	gamma Chlordane.....	ug/kg	1.8	ND	1.8	1
8001-35-2	Toxaphene.....	ug/kg	1.8	ND	1.8	1
12674-11-2	Aroclor-1016.....	ug/kg	180	ND	180	1
11104-28-2	Aroclor-1221.....	ug/kg	35	ND	35	1
11141-16-5	Aroclor-1232.....	ug/kg	70	ND	70	1
			35	ND	35	1

RL = Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 8081A - Pesticides & PCB's - LANT

Lab Sample ID: L9809522-07
Client Sample ID: RE15-98-0035
Site/Work ID: 4659F/MR3R12082642
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: 09/30/98
Analysis Date: 10/01/98 Time:

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HP9
Analyst: ECL
Lab File ID: 414.D
Sample Weight: N/A
Extract Volume: N/A
% Solid: 94
Method: 8081A\3550B
Run ID: R53256
Batch: WG46843

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
53469-21-9	Arcclor-1242	ug/kg		ND	35	1
12672-29-6	Arcclor-1248	ug/kg		ND	35	1
11097-69-1	Arcclor-1254	ug/kg		ND	35	1
11096-82-5	Arcclor-1260	ug/kg		ND	35	1

SURROGATES- In Percent Recovery:
2,4,5,6-Tetrachloro-m-xylene..... 69.5
Decachlorobiphenyl..... 97.2
(29 - 133%)
(30 - 173%)

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-07
Client Sample ID: RE15-98-0035
Site/Work ID: 4659F/MR3R12082642
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 21:19

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HPMS7
Analyst: MLS
Lab File ID: 5994
Sample Weight: N/A
Extract Volume: N/A
% Solid: 94
Method: 8270C
Run ID: R54614
Batch: WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
62-75-9	n-Nitrosodimethylamine	ug/kg		ND	350	1
62-53-3	Aniline	ug/kg		ND	700	1
108-95-2	Phenol	ug/kg		ND	350	1
111-44-4	bis(2-Chloroethyl) ether	ug/kg		ND	350	1
95-57-8	2-Chlorophenol	ug/kg		ND	350	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	350	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	350	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	350	1
95-48-7	2-Methylphenol	ug/kg		ND	350	1
106-44-5	4-Methylphenol	ug/kg		ND	350	1

RL - Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 827LAS - Semi-volatile Compounds

Lab Sample ID: L9809522-07
Client Sample ID: RE15-98-0035
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 21:19

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98

Instrument: HPMS7
Analyte: MMS
Lab File ID: 5994

Sample Weight: N/A
Extract Volume: N/A
% Solid: 94
Method: 8270C
Run ID: R54614
Batch: WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
621-64-7	n-Nitroso-di-n-propylamine.....	ug/kg		ND	350	1
67-72-1	Hexachloroethane.....	ug/kg		ND	350	1
98-95-3	Nitrobenzene.....	ug/kg		ND	350	1
78-59-1	Isophorone.....	ug/kg		ND	350	1
88-75-5	2-Nitrophenol.....	ug/kg		ND	350	1
105-67-9	2,4-Dimethylphenol.....	ug/kg		ND	3500	1
65-85-0	Benzoic acid.....	ug/kg		ND	350	1
111-91-1	bis(2-Chloroethoxy)methane.....	ug/kg		ND	350	1
120-83-2	2,4-Dichlorophenol.....	ug/kg		ND	350	1
120-82-1	1,2,4-Trichlorobenzene.....	ug/kg		ND	350	1
91-20-3	Naphthalene.....	ug/kg		ND	350	1
106-47-8	4-Chloroaniline.....	ug/kg		ND	1400	1
87-68-3	Hexachlorobutadiene.....	ug/kg		ND	350	1
59-50-7	4-Chloro-3-methylphenol.....	ug/kg		ND	700	1
91-57-6	2-Methylnaphthalene.....	ug/kg		ND	350	1
77-47-4	Hexachlorocyclopentadiene.....	ug/kg		ND	350	1
88-06-2	2,4,6-Trichlorophenol.....	ug/kg		ND	350	1
95-95-4	2-Chloronaphthalene.....	ug/kg		ND	1700	1
91-58-7	2-Nitroaniline.....	ug/kg		ND	350	1
88-74-4	Dimethylphthalate.....	ug/kg		ND	1700	1
131-11-3	Acenaphthylene.....	ug/kg		ND	350	1
208-96-8	3-Nitroaniline.....	ug/kg		ND	1700	1
99-09-2	Acenaphthene.....	ug/kg		ND	350	1
83-32-9	2,4-Dinitrophenol.....	ug/kg		ND	1700	1
51-28-5	4-Nitrophenol.....	ug/kg		ND	350	1
100-02-7	Dibenzofuran.....	ug/kg		ND	350	1
132-64-9	2,4-Dinitrotoluene.....	ug/kg		ND	350	1
121-14-2	2,6-Dinitrotoluene.....	ug/kg		ND	350	1
606-20-2	Diethylphthalate.....	ug/kg		ND	350	1
84-66-2	4-Chlorophenyl-phenyl ether.....	ug/kg		ND	350	1
7005-72-3	Fluorene.....	ug/kg		ND	700	1
86-73-7	4-Nitroaniline.....	ug/kg		ND	1700	1
100-01-6	4,6-Dinitro-2-methylphenol.....	ug/kg		ND	350	1
534-52-1	n-Nitrosodiphenylamine.....	ug/kg		ND	700	1
86-30-6	Azobenzene.....	ug/kg		ND	350	1
103-33-3	4-Bromophenyl-phenylether.....	ug/kg		ND	350	1
101-55-3	Hexachlorobenzene.....	ug/kg		ND	350	1
118-74-1	Pentachlorophenol.....	ug/kg		ND	1700	1
87-86-5						

RL - Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-07
Client Sample ID: RE15-98-0035
Site/Work ID: 4659R/NE3RI2082642
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 21:19

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HPMS7
Analyst: MLS
Lab File ID: 5994
Sample Weight: N/A
Extract Volume: N/A
% Solid: 94
Method: 8270C
Run ID: R54614
Batch: WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
85-01-8	Phenanthrene.....	ug/kg	ND	ND	350	1
120-12-7	Anthracene.....	ug/kg	ND	ND	350	1
84-74-2	Di-n-butylphthalate.....	ug/kg	ND	ND	350	1
206-44-0	Fluoranthene.....	ug/kg	ND	ND	350	1
129-00-0	Pyrene.....	ug/kg	ND	ND	350	1
85-68-7	Butylbenzylphthalate.....	ug/kg	ND	ND	350	1
91-94-1	3,3'-Dichlorobenzidine.....	ug/kg	ND	ND	700	1
56-55-3	Benzo(a)anthracene.....	ug/kg	ND	ND	350	1
117-81-7	Bis(2-Ethylhexyl)phthalate.....	ug/kg	ND	ND	350	1
218-01-9	Chrysene.....	ug/kg	ND	ND	350	1
117-84-0	Di-n-octylphthalate.....	ug/kg	ND	ND	350	1
205-99-2	Benzo(b)fluoranthene.....	ug/kg	ND	ND	350	1
207-08-9	Benzo(k)fluoranthene.....	ug/kg	ND	ND	350	1
50-32-8	Benzo(a)pyrene.....	ug/kg	ND	ND	350	1
193-39-5	Indeno(1,2,3-cd)pyrene.....	ug/kg	ND	ND	350	1
53-70-3	Dibenzo(a,h)anthracene.....	ug/kg	ND	ND	350	1
191-24-2	Benzo(g,h,i)perylene.....	ug/kg	ND	ND	350	1
100-51-6	Benzyl alcohol.....	ug/kg	ND	ND	1400	1
108-60-1	2,2'-Oxybis(1-chloropropane).....	ug/kg	ND	ND	350	1
SURROGATES- In Percent Recovery:						
	2,4,6-Tribromophenol.....	78.1	(	19 - 122%)		
	2-Fluorobiphenyl.....	72.4	(	30 - 115%)		
	2-Fluorophenol.....	60.9	(	25 - 121%)		
	Nitrobenzene-d5.....	67.6	(	23 - 120%)		
	Phenol-d5.....	64.2	(	24 - 113%)		
	p-Terphenyl-di4.....	100	(	18 - 137%)		

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 8261A - Volatile Organics

Lab Sample ID: L9809522-07
Client Sample ID: RE15-98-0035
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 10/03/98 Time: 16:27

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98

Instrument: HPMS6
Analyst: CMS
Lab File ID: 61A10368

Sample Weight: N/A
Extract Volume: N/A
% Solid: 94

Method: 8260B
Run ID: R53603
Batch: WG47027

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
75-71-8	Dichlorodifluoromethane.....	ug/kg	ND	ND	11	1
74-87-3	Chloromethane.....	ug/kg	ND	ND	11	1
75-01-4	Vinyl chloride.....	ug/kg	ND	ND	11	1
74-83-9	Bromomethane.....	ug/kg	ND	ND	11	1
75-00-3	Chloroethane.....	ug/kg	ND	ND	11	1
75-69-4	Trichlorofluoromethane.....	ug/kg	ND	ND	5.3	1
75-35-4	1,1-Dichloroethene.....	ug/kg	ND	ND	5.3	1
74-88-4	Iodomethane.....	ug/kg	ND	ND	5.3	1
75-15-0	Carbon disulfide.....	ug/kg	ND	ND	5.3	1
67-64-1	Acetone.....	ug/kg	ND	ND	21	1
75-09-2	Methylene chloride.....	ug/kg	ND	ND	5.3	1
156-60-5	trans-1,2-Dichloroethene.....	ug/kg	ND	ND	11	1
75-34-3	1,1-Dichloroethane.....	ug/kg	ND	ND	5.3	1
594-20-7	2,2-Dichloropropane.....	ug/kg	ND	ND	5.3	1
156-59-2	cis-1,2-Dichloroethene.....	ug/kg	ND	ND	11	1
78-93-3	2-Butanone.....	ug/kg	ND	ND	21	1
74-97-5	Bromochloromethane.....	ug/kg	ND	ND	5.3	1
67-66-3	Chloroform.....	ug/kg	ND	ND	5.3	1
71-55-6	1,1,1-Trichloroethane.....	ug/kg	ND	ND	5.3	1
56-23-5	Carbon tetrachloride.....	ug/kg	ND	ND	5.3	1
563-58-6	1,1-Dichloropropene.....	ug/kg	ND	ND	5.3	1
71-43-2	Benzene.....	ug/kg	ND	ND	5.3	1
107-06-2	1,2-Dichloroethane.....	ug/kg	ND	ND	5.3	1
79-01-6	Trichloroethene.....	ug/kg	ND	ND	5.3	1
78-87-5	1,2-Dichloropropane.....	ug/kg	ND	ND	5.3	1
74-95-3	Dibromomethane.....	ug/kg	ND	ND	5.3	1
75-27-4	Bromodichloromethane.....	ug/kg	ND	ND	5.3	1
10061-02-6	trans-1,3-Dichloropropene.....	ug/kg	ND	ND	5.3	1
108-10-1	4-Methyl-2-pentanone.....	ug/kg	ND	ND	21	1
108-88-3	Toluene.....	ug/kg	ND	ND	5.3	1
10061-01-5	cis-1,3-Dichloropropene.....	ug/kg	ND	ND	5.3	1
79-00-5	1,1,2-Trichloroethane.....	ug/kg	ND	ND	5.3	1
127-18-4	Tetrachloroethene.....	ug/kg	ND	ND	5.3	1
142-28-9	1,3-Dichloropropane.....	ug/kg	ND	ND	5.3	1
124-48-1	Dibromochloromethane.....	ug/kg	ND	ND	5.3	1
591-78-6	2-Hexanone.....	ug/kg	ND	ND	21	1
106-93-4	1,2-Dibromoethane.....	ug/kg	ND	ND	5.3	1
108-90-7	Chlorobenzene.....	ug/kg	ND	ND	5.3	1
630-20-6	1,1,1,2-Tetrachloroethane.....	ug/kg	ND	ND	5.3	1

RL - Reporting Limit

LogIn #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 8261A - Volatile Organics

Lab Sample ID: L9809522-07
Client Sample ID: RE15-98-0035
Site/Work ID: 4659F/MR3R12082642
Matrix: Soil

TCUP Extract Date: N/A
Extract Date: N/A
Analysis Date: 10/03/98 Time: 16:27

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HPMS6
Analyst: CMS
Lab File ID: 61A10368

Sample Weight: N/A
Extract Volume: N/A
% Solid: 94
Method: 8260B
Run ID: R53603
Batch: WG47027

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethyl benzene.....	ug/kg	ND		5.3	1
1330-20-7	Xylenes (total).....	ug/kg	ND		5.3	1
100-42-5	Styrene.....	ug/kg	ND		5.3	1
75-25-2	Bromoforn.....	ug/kg	ND		5.3	1
98-82-8	Isopropylbenzene.....	ug/kg	ND		5.3	1
108-86-1	Bromobenzene.....	ug/kg	ND		5.3	1
96-18-4	1,2,3-Trichloropropane.....	ug/kg	ND		5.3	1
79-34-5	1,1,2,2-Tetrachloroethane.....	ug/kg	ND		5.3	1
103-65-1	n-Propylbenzene.....	ug/kg	ND		5.3	1
95-49-8	2-Chlorotoluene.....	ug/kg	ND		5.3	1
106-43-4	4-Chlorotoluene.....	ug/kg	ND		5.3	1
108-67-8	1,3,5-Trimethylbenzene.....	ug/kg	ND		5.3	1
98-06-6	tert-Butylbenzene.....	ug/kg	ND		5.3	1
95-63-6	1,2,4-Trimethylbenzene.....	ug/kg	ND		5.3	1
135-98-8	sec-Butylbenzene.....	ug/kg	ND		5.3	1
541-73-1	1,3-Dichlorobenzene.....	ug/kg	ND		5.3	1
106-46-7	1,4-Dichlorobenzene.....	ug/kg	ND		5.3	1
99-87-6	p-Isopropyltoluene.....	ug/kg	ND		5.3	1
95-50-1	1,2-Dichlorobenzene.....	ug/kg	ND		5.3	1
104-51-8	n-Butylbenzene.....	ug/kg	ND		5.3	1
96-12-8	1,2-Dibromo-3-chloropropane.....	ug/kg	ND		11.3	1
76-13-1	Trichlorodifluoroethane.....	ug/kg	ND		5.3	1
SURROGATES - In Percent Recovery:						
	Toluene-d8.....	109	{ 81 - 117% }			
	p-Bromofluorobenzene.....	107	{ 74 - 121% }			
	Dibromofluoromethane.....	108	{ 80 - 120% }			
	1,2-Dichloroethane-d4.....	112	{ 80 - 120% }			

RL - Reporting Limit

LogIn #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L9809522-08
Client Sample ID: RE15-98-0036
Site/Work ID: 4659R/MR3R12082642

Matrix: Soil
Collected: 09/23/98 N/A

* Solid: 95
COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysts	Time	Method
Percent Solids.....	% wt.	95		1.0	1	N/A	DKM	10/15/98	13:50	D2216-90

Product: 8081LA - Pesticides & PCB's - LANTL

Lab Sample ID: L9809522-08
Client Sample ID: RE15-98-0036
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98

Sample Weight: N/A
Extract Volume: N/A
* Solid: 95

TCIDP Extract Date: N/A
Extract Date: 09/30/98
Analysis Date: 10/01/98 Time:

Instrument: HP9
Analyst: ECL
Lab File ID: 415.D
Method: 8081A\3550B
Run ID: R53256
Batch: WG46843

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
319-84-6	alpha-BHC.....	ug/kg	ND		1.7	1
319-85-7	beta-BHC.....	ug/kg	ND		1.7	1
319-86-8	delta-BHC.....	ug/kg	ND		1.7	1
58-89-9	gamma-BHC (Lindane).....	ug/kg	ND		1.7	1
76-44-8	Heptachlor.....	ug/kg	ND		1.7	1
309-00-2	Aldrin.....	ug/kg	ND		1.7	1
1024-57-3	Heptachlor epoxide.....	ug/kg	ND		1.7	1
959-98-8	Endosulfan I.....	ug/kg	ND		1.7	1
60-57-1	Dieldrin.....	ug/kg	ND		3.5	1
72-55-9	4,4'-DDE.....	ug/kg	ND		3.5	1
72-20-8	Endrin.....	ug/kg	ND		3.5	1
33213-65-9	Endosulfan II.....	ug/kg	ND		3.5	1
72-54-8	4,4'-DDD.....	ug/kg	ND		3.5	1
1031-07-8	Endosulfan sulfate.....	ug/kg	ND		3.5	1
50-29-3	4,4'-DDT.....	ug/kg	ND		3.5	1
72-43-5	Methoxychlor.....	ug/kg	ND		17	1
53494-70-5	Endrin ketone.....	ug/kg	ND		3.5	1
7421-93-4	Endrin aldehyde.....	ug/kg	ND		0.35	1
5103-71-9	alpha Chlordane.....	ug/kg	ND		1.7	1
8001-35-2	Toxaphene.....	ug/kg	ND		1.7	1
12674-11-2	Aroclor-1016.....	ug/kg	ND		170	1
11104-28-2	Aroclor-1221.....	ug/kg	ND		35	1
11141-16-5	Aroclor-1232.....	ug/kg	ND		69	1
					35	1

RL - Reporting Limit

LogIn #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 80811A - Pesticides & PCB's - LANL

Lab Sample ID: L9809522-08
Client Sample ID: RE15-98-0036
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: 09/30/98
Analysis Date: 10/01/98 Time:

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HP9
Analysis: ECL
Lab File ID: 415.D
Sample Weight: N/A
Extract Volume: N/A
% Solid: 95
Method: 8081A\3550B
Run ID: R53256
Batch: WG46843

CAS # Compound
53469-21-9 Aroclor-1242
12672-29-6 Aroclor-1248
11097-69-1 Aroclor-1254
11096-82-5 Aroclor-1260

Units Result Qualifiers RL Dilution
ug/kg ND 35 1
ug/kg ND 35 1
ug/kg ND 35 1

SURROGATES - In Percent Recovery:
2,4,5,6-Tetrachloro-m-xylene (29 - 133%)
Decachlorobiphenyl (30 - 173%)

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-08
Client Sample ID: RE15-98-0036
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 21:58

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HPMS7
Analysis: MLS
Lab File ID: 5995
Sample Weight: N/A
Extract Volume: N/A
% Solid: 95
Method: 8270C
Run ID: R54614
Batch: WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
62-75-9	n-Nitrosodimethylamine	ug/kg	ND		350	1
62-53-3	Aniline	ug/kg	ND		690	1
108-95-2	Phenol	ug/kg	ND		350	1
111-44-4	bis(2-chloroethyl) ether	ug/kg	ND		350	1
95-57-8	2-Chlorophenol	ug/kg	ND		350	1
541-73-1	1,3-Dichlorobenzene	ug/kg	ND		350	1
106-46-7	1,4-Dichlorobenzene	ug/kg	ND		350	1
95-50-1	1,2-Dichlorobenzene	ug/kg	ND		350	1
95-48-7	2-Methylphenol	ug/kg	ND		350	1
106-44-5	4-Methylphenol	ug/kg	ND		350	1

RL - Reporting Limit

LogIn #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 8271AS - Semivolatile Compounds

Lab Sample ID: L9809522-08
Client Sample ID: RE15-98-0036
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 21:58

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HPMS7
Analyst: MJS
Lab File ID: 5995

Sample Weight: N/A
Extract Volume: N/A
% Solid: 95
Method: 8270C
Run ID: R54614
Batch: WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
621-64-7	n-Nitroso-di-n-propylamine.....	ug/kg		ND	350	1
67-72-1	Hexachloroethane.....	ug/kg		ND	350	1
98-95-3	Nitrobenzene.....	ug/kg		ND	350	1
78-59-1	Isophorone.....	ug/kg		ND	350	1
88-75-3	2-Nitrophenol.....	ug/kg		ND	350	1
105-67-9	2,4-Dimethylphenol.....	ug/kg		ND	350	1
65-85-0	Benzoic acid.....	ug/kg		ND	3500	1
111-91-1	bis(2-Chloroethoxy)methane.....	ug/kg		ND	350	1
120-83-2	2,4-Dichlorophenol.....	ug/kg		ND	350	1
120-82-1	1,2,4-Trichlorobenzene.....	ug/kg		ND	350	1
91-20-3	Naphthalene.....	ug/kg		ND	350	1
106-47-8	4-Chloroaniline.....	ug/kg		ND	1400	1
87-68-3	Hexachlorobutadiene.....	ug/kg		ND	350	1
59-50-7	4-Chloro-3-methylphenol.....	ug/kg		ND	690	1
91-57-6	2-Methylnaphthalene.....	ug/kg		ND	350	1
77-47-4	Hexachlorocyclopentadiene.....	ug/kg		ND	350	1
88-06-2	2,4,6-Trichlorophenol.....	ug/kg		ND	350	1
95-95-4	2,4,5-Trichlorophenol.....	ug/kg		ND	1700	1
91-58-7	2-Chloronaphthalene.....	ug/kg		ND	350	1
88-74-4	2-Nitroaniline.....	ug/kg		ND	1700	1
131-11-3	Dimethylphthalate.....	ug/kg		ND	350	1
208-96-8	Acenaphthylene.....	ug/kg		ND	350	1
99-09-2	3-Nitroaniline.....	ug/kg		ND	1700	1
83-32-9	Acenaphthene.....	ug/kg		ND	350	1
51-28-5	2,4-Dinitrophenol.....	ug/kg		ND	1700	1
100-02-7	4-Nitrophenol.....	ug/kg		ND	1700	1
132-64-9	Dibenzofuran.....	ug/kg		ND	350	1
121-14-2	2,4-Dinitrotoluene.....	ug/kg		ND	350	1
606-20-2	2,6-Dinitrotoluene.....	ug/kg		ND	350	1
84-66-2	Diethylphthalate.....	ug/kg		ND	350	1
7005-72-3	4-Chlorophenyl-phenyl ether.....	ug/kg		ND	350	1
86-73-7	Fluorene.....	ug/kg		ND	350	1
100-01-6	4-Nitroaniline.....	ug/kg		ND	690	1
534-52-1	4,6-Dinitro-2-methylphenol.....	ug/kg		ND	1700	1
86-30-6	n-Nitrosodiphenylamine.....	ug/kg		ND	350	1
103-33-3	Azobenzene.....	ug/kg		ND	690	1
101-55-3	4-Bromophenyl-phenylether.....	ug/kg		ND	350	1
118-74-1	Hexachlorobenzene.....	ug/kg		ND	350	1
87-86-5	Pentachlorophenol.....	ug/kg		ND	1700	1

RL = Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-08
Client Sample ID: RE15-98-0036
Site/Work ID: 4659R/MS3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98

Sample Weight: N/A
Extract Volume: N/A

% Solid: 95

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98
Time: 21:58

Instrument: HPMS7
Analyst: MLS
Lab File ID: 5995

Method: 8270C
Run ID: R54614
Batch: WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
85-01-8	Phenanthrene	ug/kg	ND		350	1
120-12-7	Anthracene	ug/kg	ND		350	1
84-74-2	Di-n-butylphthalate	ug/kg	ND		350	1
206-44-0	Fluoranthene	ug/kg	ND		350	1
129-00-0	Pyrene	ug/kg	ND		350	1
85-68-7	Butylbenzylphthalate	ug/kg	ND		350	1
91-94-1	3,3'-Dichlorobenzidine	ug/kg	ND		690	1
56-55-3	Benzo(a)anthracene	ug/kg	ND		350	1
117-81-7	bis(2-Ethylhexyl)phthalate	ug/kg	ND		350	1
218-01-9	Chrysene	ug/kg	ND		350	1
117-84-0	Di-n-octylphthalate	ug/kg	ND		350	1
205-99-2	Benzo(b)fluoranthene	ug/kg	ND		350	1
207-08-9	Benzo(k)fluoranthene	ug/kg	ND		350	1
50-32-8	Benzo(a)pyrene	ug/kg	ND		350	1
193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	ND		350	1
53-70-3	Dibenzo(a,h)anthracene	ug/kg	ND		350	1
191-24-2	Benzo(g,h,i)perylene	ug/kg	ND		350	1
100-51-6	Benzyl alcohol	ug/kg	ND		1400	1
108-60-1	2,2'-Oxybis(1-chloropropane)	ug/kg	ND		350	1
SURROGATES - In Percent Recovery:						
	2,4,6-Tribromophenol	76.2	(19 - 122%)			
	2-Fluorobiphenyl	58.3	(30 - 115%)			
	Nitrobenzene-d5	53.5	(25 - 121%)			
	Phenol-d5	54.0	(23 - 120%)			
	p-Terphenyl-d14	106	(24 - 113%)			
			(18 - 137%)			

LogIn #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 8261A - Volatile Organics

Lab Sample ID: L9809522-08
Client Sample ID: RE15-98-0036
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 10/03/98 Time: 17:01

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HPMS6
Analyst: CMS
Lab File ID: 61A10369

Sample Weight: N/A
Extract Volume: N/A
% Solid: 95
Method: 8260B
Run ID: R53603
Batch: WG47027

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
75-71-8	Dichlorodifluoromethane.....	ug/kg	ND		11	1
74-87-3	Chloromethane.....	ug/kg	ND		11	1
75-01-4	Vinyl chloride.....	ug/kg	ND		11	1
74-83-9	Bromomethane.....	ug/kg	ND		11	1
75-00-3	Chloroethane.....	ug/kg	ND		11	1
75-69-4	Trichlorofluoromethane.....	ug/kg	ND		5.3	1
75-35-4	1,1-Dichloroethene.....	ug/kg	ND		5.3	1
74-88-4	Iodomethane.....	ug/kg	ND		5.3	1
75-15-0	Carbon disulfide.....	ug/kg	ND		5.3	1
67-64-1	Acetone.....	ug/kg	ND		21	1
75-09-2	Methylene chloride.....	ug/kg	ND		5.3	1
156-60-5	trans-1,2-Dichloroethene.....	ug/kg	ND		11	1
75-34-3	1,1-Dichloroethane.....	ug/kg	ND		5.3	1
594-20-7	2,2-Dichloropropane.....	ug/kg	ND		5.3	1
156-59-2	cis-1,2-Dichloroethene.....	ug/kg	ND		11	1
78-93-3	2-Butanone.....	ug/kg	ND		21	1
74-97-5	Bromochloromethane.....	ug/kg	ND		5.3	1
67-66-3	Chloroform.....	ug/kg	ND		5.3	1
71-55-6	1,1,1-Trichloroethane.....	ug/kg	ND		5.3	1
56-23-5	Carbon tetrachloride.....	ug/kg	ND		5.3	1
563-58-6	1,1-Dichloropropene.....	ug/kg	ND		5.3	1
71-43-2	Benzene.....	ug/kg	ND		5.3	1
107-06-2	1,2-Dichloroethane.....	ug/kg	ND		5.3	1
79-01-6	Trichloroethene.....	ug/kg	ND		5.3	1
78-87-5	1,2-Dichloropropane.....	ug/kg	ND		5.3	1
74-95-3	Dibromomethane.....	ug/kg	ND		5.3	1
75-27-4	Bromodichloromethane.....	ug/kg	ND		5.3	1
10061-02-6	trans-1,3-Dichloropropene.....	ug/kg	ND		5.3	1
108-10-1	4-Methyl-2-pentanone.....	ug/kg	ND		21	1
108-88-3	Toluene.....	ug/kg	ND		5.3	1
10061-01-5	cis-1,3-Dichloropropene.....	ug/kg	ND		5.3	1
79-00-5	1,1,2-Trichloroethane.....	ug/kg	ND		5.3	1
127-18-4	Tetrachloroethene.....	ug/kg	ND		5.3	1
142-28-9	1,3-Dichloropropane.....	ug/kg	ND		5.3	1
124-48-1	Dibromochloromethane.....	ug/kg	ND		5.3	1
591-78-6	2-Hexanone.....	ug/kg	ND		21	1
106-93-4	1,2-Dibromoethane.....	ug/kg	ND		5.3	1
108-90-7	Chlorobenzene.....	ug/kg	ND		5.3	1
630-20-6	1,1,1,2-Tetrachloroethane.....	ug/kg	ND		5.3	1

RL - Reporting Limit

LogIn #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826LA - Volatile Organics

Lab Sample ID: L9809522-08
Client Sample ID: REL5-98-0036
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCUP Extract Date: N/A
Extract Date: N/A
Analysis Date: 10/03/98 Time: 17:01

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98

Instrument: HPMS6
Analyst: CWS
Lab File ID: 61A10369

Sample Weight: N/A
Extract Volume: N/A
% Solid: 95
Method: 8260B
Run ID: R53603
Batch: W647027

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethyl benzene.....	ug/kg	ND		5.3	1
1330-20-7	Xylenes (total).....	ug/kg	ND		5.3	1
100-42-5	Styrene.....	ug/kg	ND		5.3	1
75-25-2	Bromoforn.....	ug/kg	ND		5.3	1
98-82-8	Isopropylbenzene.....	ug/kg	ND		5.3	1
108-86-1	Bromobenzene.....	ug/kg	ND		5.3	1
96-18-4	1,2,3-Trichloropropane.....	ug/kg	ND		5.3	1
79-34-5	1,1,2,2-Tetrachloroethane.....	ug/kg	ND		5.3	1
103-65-1	n-Propylbenzene.....	ug/kg	ND		5.3	1
95-49-8	2-Chlorotoluene.....	ug/kg	ND		5.3	1
106-43-4	4-Chlorotoluene.....	ug/kg	ND		5.3	1
108-67-8	1,3,5-Trimethylbenzene.....	ug/kg	ND		5.3	1
98-06-6	tert-Butylbenzene.....	ug/kg	ND		5.3	1
95-63-6	1,2,4-Trimethylbenzene.....	ug/kg	ND		5.3	1
135-98-8	sec-Butylbenzene.....	ug/kg	ND		5.3	1
541-73-1	1,3-Dichlorobenzene.....	ug/kg	ND		5.3	1
106-46-7	1,4-Dichlorobenzene.....	ug/kg	ND		5.3	1
99-87-6	p-Isopropyltoluene.....	ug/kg	ND		5.3	1
95-50-1	1,2-Dichlorobenzene.....	ug/kg	ND		5.3	1
104-51-8	n-Butylbenzene.....	ug/kg	ND		5.3	1
96-12-8	1,2-Dibromo-3-chloropropane.....	ug/kg	ND		11	1
76-13-1	Trichlorotrifluoroethane.....	ug/kg	ND		5.3	1
SURROGATES - In Percent Recovery:						
	Toluene-d8.....	111	(81 - 117%)			
	p-Bromofluorobenzene.....	98.4	(74 - 121%)			
	Dibromofluoromethane.....	106	(80 - 120%)			
	1,2-Dichloroethane-d4.....	108	(80 - 120%)			

LogIn #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L9809522-09
Client Sample ID: RE15-98-0037
Site/Work ID: 4659R/MR3R12082642

Matrix: Soil
Collected: 09/23/98 N/A

% Solid: 100
COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	DIL	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	% wt.	100		1.0	1	N/A	DKM	10/15/98	14:40	D2216-90

Product: 8081A - Pesticides & PCB's - LANL

Lab Sample ID: L9809522-09
Client Sample ID: RE15-98-0037
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

DIL Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A

% Solid: 100

TCLP Extract Date: N/A
Extract Date: 09/30/98
Analysis Date: 10/01/98 Time:

Date Collected: 09/23/98
Instrument: HP9
Analyst: ECL
Lab File ID: 416.D

Method: 8081A/3550B
Run ID: R53256
Batch: WG46843

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
319-84-6	alpha-BHC.....	ug/kg	ND		1.7	1
319-85-7	beta-BHC.....	ug/kg	ND		1.7	1
319-86-8	delta-BHC.....	ug/kg	ND		1.7	1
58-89-9	gamma-BHC (lindane).....	ug/kg	ND		1.7	1
76-44-8	Heptachlor.....	ug/kg	ND		1.7	1
309-00-2	Aldrin.....	ug/kg	ND		1.7	1
1024-57-3	Heptachlor epoxide.....	ug/kg	ND		1.7	1
959-98-8	Endosulfan I.....	ug/kg	ND		1.7	1
60-57-1	Dieldrin.....	ug/kg	ND		3.3	1
72-55-9	4,4'-DDE.....	ug/kg	ND		3.3	1
72-20-8	Endrin.....	ug/kg	ND		3.3	1
33213-65-9	Endosulfan II.....	ug/kg	ND		3.3	1
72-54-8	4,4'-DDD.....	ug/kg	ND		3.3	1
1031-07-8	Endosulfan sulfate.....	ug/kg	ND		3.3	1
50-29-3	4,4'-DDT.....	ug/kg	ND		3.3	1
72-43-5	Methoxychlor.....	ug/kg	ND		17	1
53494-70-5	Endrin ketone.....	ug/kg	ND		3.3	1
7421-93-4	Endrin aldehyde.....	ug/kg	ND		0.33	1
5103-71-9	alpha-Chlordane.....	ug/kg	ND		1.7	1
5103-74-2	gamma-Chlordane.....	ug/kg	ND		1.7	1
8001-35-2	Toxaphene.....	ug/kg	ND		170	1
12674-11-2	Aroclor-1016.....	ug/kg	ND		33	1
11104-28-2	Aroclor-1221.....	ug/kg	ND		66	1
11141-16-5	Aroclor-1232.....	ug/kg	ND		33	1

RL - Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 8081A - Pesticides & PCB's - IANL

Lab Sample ID: L9809522-09
Client Sample ID: RE15-98-0037
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: 09/30/98
Analysis Date: 10/01/98 Time:

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HP9
Analyst: ECL
Lab File ID: 416.D
Sample Weight: N/A
Extract Volume: N/A
% Solid: 100
Method: 8081A\3550B
Run ID: R53256
Batch: WG46843

CAS # Compound
53469-21-9 Aroclor-1242
12672-29-6 Aroclor-1248
11097-69-1 Aroclor-1254
11096-82-5 Aroclor-1260

Units Result Qualifiers RL Dilution
ug/kg ND 33 1
ug/kg ND 33 1
ug/kg ND 33 1

SURROGATES- In Percent Recovery:
2,4,5,6-Tetrachloro-m-xylene 54.2 (29 - 133%)
Decachlorobiphenyl 79.1 (30 - 173%)

Product: 8271AS - Semivolatile Compounds

Lab Sample ID: L9809522-09
Client Sample ID: RE15-98-0037
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 22:37

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HPMS7
Analyst: MJS
Lab File ID: 5996
Sample Weight: N/A
Extract Volume: N/A
% Solid: 100
Method: 8270C
Run ID: R54614
Batch: WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
62-75-9	n-Nitrosodimethylamine	ug/kg		ND	330	1
62-53-3	Aniline	ug/kg		ND	660	1
108-95-2	Phenol	ug/kg		ND	330	1
111-44-4	bis(2-Chloroethyl) ether	ug/kg		ND	330	1
95-57-8	2-Chlorophenol	ug/kg		ND	330	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	330	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	330	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	330	1
95-48-7	2-Methylphenol	ug/kg		ND	330	1
106-44-5	4-Methylphenol	ug/kg		ND	330	1

RL - Reporting Limit

LogIn #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 8271AS - Semi-volatile Compounds

Lab Sample ID: L9809522-09
Client Sample ID: RE15-98-0037
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCAP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 22:37

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HPMS7
Analyte: M/S
Lab File ID: 5996
Sample Weight: N/A
Extract Volume: N/A
% Solid: 100
Method: 8270C
Run ID: R54614
Batch: WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
621-64-7	n-Nitroso-di-n-propylamine	ug/kg		ND	330	1
67-72-1	Hexachloroethane	ug/kg		ND	330	1
98-95-3	Nitrobenzene	ug/kg		ND	330	1
78-59-1	Isophorone	ug/kg		ND	330	1
88-75-5	2-Nitrophenol	ug/kg		ND	330	1
105-67-9	2,4-Dimethylphenol	ug/kg		ND	330	1
65-85-0	Benzoic acid	ug/kg		ND	330	1
111-91-1	bis(2-Chloroethoxy)methane	ug/kg		ND	330	1
120-83-2	2,4-Dichlorophenol	ug/kg		ND	330	1
120-82-1	1,2,4-Trichlorobenzene	ug/kg		ND	330	1
91-20-3	Naphthalene	ug/kg		ND	1300	1
106-47-8	4-Chloroaniline	ug/kg		ND	330	1
87-68-3	Hexachlorobutadiene	ug/kg		ND	330	1
59-50-7	4-Chloro-3-methylphenol	ug/kg		ND	660	1
91-57-6	2-Methylnaphthalene	ug/kg		ND	330	1
77-47-4	Hexachlorocyclopentadiene	ug/kg		ND	330	1
88-06-2	2,4,5-Trichlorophenol	ug/kg		ND	1600	1
95-95-4	2,4,5-Trichlorophenol	ug/kg		ND	330	1
91-58-7	2-Chloronaphthalene	ug/kg		ND	1600	1
88-74-4	2-Nitroaniline	ug/kg		ND	330	1
131-11-3	Dimethylphthalate	ug/kg		ND	330	1
208-96-8	Acenaphthylene	ug/kg		ND	1600	1
99-09-2	3-Nitroaniline	ug/kg		ND	330	1
83-32-9	Acenaphthene	ug/kg		ND	1600	1
51-28-5	2,4-Dinitrophenol	ug/kg		ND	1600	1
100-02-7	4-Nitrophenol	ug/kg		ND	1600	1
132-64-9	Dibenzofuran	ug/kg		ND	330	1
121-14-2	2,4-Dinitrotoluene	ug/kg		ND	330	1
606-20-2	2,6-Dinitrotoluene	ug/kg		ND	330	1
84-66-2	Diethylphthalate	ug/kg		ND	330	1
7005-72-3	4-Chlorophenyl-phenyl ether	ug/kg		ND	330	1
86-73-7	Fluorene	ug/kg		ND	330	1
100-01-6	4-Nitroaniline	ug/kg		ND	660	1
534-52-1	4,6-Dinitro-2-methylphenol	ug/kg		ND	1600	1
86-30-6	n-Nitrosodiphenylamine	ug/kg		ND	330	1
103-33-3	Azobenzene	ug/kg		ND	660	1
101-55-3	4-Bromophenyl-phenylether	ug/kg		ND	330	1
118-74-1	Hexachlorobenzene	ug/kg		ND	330	1
87-86-5	Pentachlorophenol	ug/kg		ND	1600	1

RL - Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 827LAS - Semi-volatile Compounds

Lab Sample ID: L9809522-09
Client Sample ID: REL5-98-0037
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 22:37

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HPMS7
Analyst: MLS
Lab File ID: 5996
Sample Weight: N/A
Extract Volume: N/A
% Solid: 100
Method: 8270C
Run ID: R54614
Batch: WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
85-01-8	Phenanthrene.....	ug/kg	ND		330	1
120-12-7	Anthracene.....	ug/kg	ND		330	1
84-74-2	Di-n-butylphthalate.....	ug/kg	ND		330	1
206-44-0	Fluoranthene.....	ug/kg	ND		330	1
129-00-0	Pyrene.....	ug/kg	ND		330	1
85-68-7	Butylbenzylphthalate.....	ug/kg	ND		330	1
91-94-1	3,3'-Dichlorobenzidine.....	ug/kg	ND		660	1
56-55-3	Benzo(a)anthracene.....	ug/kg	ND		330	1
117-81-7	bis(2-Ethylhexyl)phthalate.....	ug/kg	ND		330	1
218-01-9	Chrysene.....	ug/kg	ND		330	1
117-84-0	Di-n-octylphthalate.....	ug/kg	ND		330	1
205-99-2	Benzo(b)fluoranthene.....	ug/kg	ND		330	1
207-08-9	Benzo(k)fluoranthene.....	ug/kg	ND		330	1
50-32-8	Benzo(a)pyrene.....	ug/kg	ND		330	1
193-39-5	Indeno(1,2,3-cd)pyrene.....	ug/kg	ND		330	1
53-70-3	Dibenzo(a,h)anthracene.....	ug/kg	ND		330	1
191-24-2	Benzo(g,h,i)perylene.....	ug/kg	ND		330	1
100-51-6	Benzyl alcohol.....	ug/kg	ND		1300	1
108-60-1	2,2'-Oxybis(1-chloropropane).....	ug/kg	ND		330	1
SURROGATES - In Percent Recovery:						
	2,4,6-Tribromophenol.....	83.3	{ 19 - 122% }			
	2-Fluorobiphenyl.....	68.3	{ 30 - 115% }			
	2-Fluorophenol.....	56.9	{ 25 - 121% }			
	Nitrobenzene-d5.....	62.0	{ 23 - 120% }			
	Phenol-d5.....	60.3	{ 24 - 113% }			
	p-Terphenyl-d14.....	104	{ 18 - 137% }			

LogIn #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 8261A - Volatile Organics

Lab Sample ID: L9809522-09
Client Sample ID: RE15-98-0037
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCUP Extract Date: N/A
Extract Date: N/A
Analysis Date: 10/03/98 Time: 17:34

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HPMS6
Analyst: CMS
Lab File ID: 61A10370

Sample Weight: N/A
Extract Volume: N/A
% Solid: 100
Method: 8260B
Run ID: R53603
Batch: WG47027

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
75-71-8	Dichlorodifluoromethane.....	ug/kg	ND	ND	10	1
74-87-3	Chloromethane.....	ug/kg	ND	ND	10	1
75-01-4	Vinyl chloride.....	ug/kg	ND	ND	10	1
74-83-9	Bromomethane.....	ug/kg	ND	ND	10	1
75-00-3	Chloroethane.....	ug/kg	ND	ND	10	1
75-69-4	Trichlorofluoromethane.....	ug/kg	ND	ND	5.0	1
75-35-4	1,1-Dichloroethane.....	ug/kg	ND	ND	5.0	1
74-88-4	Iodomethane.....	ug/kg	ND	ND	5.0	1
75-15-0	Carbon disulfide.....	ug/kg	ND	ND	5.0	1
67-64-1	Acetone.....	ug/kg	ND	ND	20	1
75-09-2	Methylene chloride.....	ug/kg	ND	ND	5.0	1
156-60-5	trans-1,2-Dichloroethene.....	ug/kg	ND	ND	10	1
75-34-3	1,1-Dichloroethane.....	ug/kg	ND	ND	5.0	1
594-20-7	2,2-Dichloropropane.....	ug/kg	ND	ND	5.0	1
156-59-2	cis-1,2-Dichloroethene.....	ug/kg	ND	ND	10	1
78-93-3	2-Butanone.....	ug/kg	ND	ND	20	1
74-97-5	Bromochloromethane.....	ug/kg	ND	ND	5.0	1
67-66-3	Chloroform.....	ug/kg	ND	ND	5.0	1
71-55-6	1,1,1-Trichloroethane.....	ug/kg	ND	ND	5.0	1
56-23-5	Carbon tetrachloride.....	ug/kg	ND	ND	5.0	1
563-58-6	1,1-Dichloropropene.....	ug/kg	ND	ND	5.0	1
71-43-2	Benzene.....	ug/kg	ND	ND	5.0	1
107-06-2	1,2-Dichloroethane.....	ug/kg	ND	ND	5.0	1
79-01-6	Trichloroethene.....	ug/kg	ND	ND	5.0	1
78-87-5	1,2-Dichloropropane.....	ug/kg	ND	ND	5.0	1
74-95-3	Dibromomethane.....	ug/kg	ND	ND	5.0	1
75-27-4	Bromodichloromethane.....	ug/kg	ND	ND	5.0	1
10061-02-6	trans-1,3-Dichloropropene.....	ug/kg	ND	ND	5.0	1
108-10-1	4-Methyl-2-pentanone.....	ug/kg	ND	ND	20	1
108-88-3	Toluene.....	ug/kg	ND	ND	5.0	1
10061-01-5	cis-1,3-Dichloropropene.....	ug/kg	ND	ND	5.0	1
79-00-5	1,1,2-Trichloroethane.....	ug/kg	ND	ND	5.0	1
127-18-4	Tetrachloroethene.....	ug/kg	ND	ND	5.0	1
142-28-9	1,3-Dichloropropane.....	ug/kg	ND	ND	5.0	1
124-48-1	Dibromochloromethane.....	ug/kg	ND	ND	5.0	1
591-78-6	2-Hexanone.....	ug/kg	ND	ND	20	1
106-93-4	1,2-Dibromomethane.....	ug/kg	ND	ND	5.0	1
108-90-7	Chlorobenzene.....	ug/kg	ND	ND	5.0	1
630-20-6	1,1,1,2-Tetrachloroethane.....	ug/kg	ND	ND	5.0	1

RL - Reporting Limit

LogIn #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 8261A - Volatile Organics

Lab Sample ID: L9809522-09
Client Sample ID: RE15-98-0037
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 10/03/98 Time: 17:34

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98

Instrument: HPMS6
Analyst: CMS
Lab File ID: 61A10370

Sample Weight: N/A
Extract Volume: N/A
% Solid: 100

Method: 8260B
Run ID: R53603
Batch: WG47027

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethyl benzene.....	ug/kg	ND	ND	5.0	1
1330-20-7	Xylenes (total).....	ug/kg	ND	ND	5.0	1
100-42-5	Styrene.....	ug/kg	ND	ND	5.0	1
75-25-2	Bromofom.....	ug/kg	ND	ND	5.0	1
98-82-8	Isopropylbenzene.....	ug/kg	ND	ND	5.0	1
108-86-1	Bromobenzene.....	ug/kg	ND	ND	5.0	1
96-18-4	1,2,3-Trichloropropane.....	ug/kg	ND	ND	5.0	1
79-34-5	1,1,2,2-Tetrachloroethane.....	ug/kg	ND	ND	5.0	1
103-65-1	n-Propylbenzene.....	ug/kg	ND	ND	5.0	1
95-49-8	2-Chlorotoluene.....	ug/kg	ND	ND	5.0	1
106-43-4	4-Chlorotoluene.....	ug/kg	ND	ND	5.0	1
108-67-8	1,3,5-Trimethylbenzene.....	ug/kg	ND	ND	5.0	1
98-06-6	tert-Butylbenzene.....	ug/kg	ND	ND	5.0	1
95-63-6	1,2,4-Trimethylbenzene.....	ug/kg	ND	ND	5.0	1
135-98-8	sec-Butylbenzene.....	ug/kg	ND	ND	5.0	1
541-73-1	1,3-Dichlorobenzene.....	ug/kg	ND	ND	5.0	1
106-46-7	1,4-Dichlorobenzene.....	ug/kg	ND	ND	5.0	1
99-87-6	p-Isopropyltoluene.....	ug/kg	ND	ND	5.0	1
95-50-1	1,2-Dichlorobenzene.....	ug/kg	ND	ND	5.0	1
104-51-8	n-Butylbenzene.....	ug/kg	ND	ND	5.0	1
96-12-8	1,2-Dibromo-3-chloropropane.....	ug/kg	ND	ND	10	1
76-13-1	Trichlorotrifluoroethane.....	ug/kg	ND	ND	5.0	1
SUBROGATES - In Percent Recovery:						
	Toluene-d8.....	93.6	(81 - 117%)			
	p-Bromofluorobenzene.....	78.2	(74 - 121%)			
	Dibromofluoromethane.....	99.4	(80 - 120%)			
	1,2-Dichloroethane-d4.....	108	(80 - 120%)			

RL = Reporting Limit

KEMRON Environmental Services
109 Starlite Park
Marietta, Ohio 45750
Phone: (740) 373-4071

Los Alamos National Laboratory
SMO, TA-3, Bldg. 271

MS H865, Drop Point OIU
Los Alamos, NM 87545
Attention: Joylene Valdez

PO Number:
Account Number: LANL-29;

Login #: L9809522
Report Date: 10/21/98
Work ID: 4659R/MR3R12082642
Date Received: 09/26/98

SAMPLE IDENTIFICATION

Sample Number	Sample Description	Sample Number	Sample Description
L9809522-01	RE15-98-0039	L9809522-02	RE15-98-0030
L9809522-03	RE15-98-0031	L9809522-04	RE15-98-0032
L9809522-05	RE15-98-0033	L9809522-06	RE15-98-0034
L9809522-07	RE15-98-0035	L9809522-08	RE15-98-0036
L9809522-09	RE15-98-0037		

All results on solids/sludges are reported on a dry weight basis, where applicable, unless otherwise specified. This report shall not be reproduced, except in full, without the written approval of KEMRON.

NYSDOH ELAP ID: 10861

Certified By
Dennis S. Tepe
Dennis S. Tepe

Report Sent To:

Black Muck

Swab By:

11/4/98

DATE:

11/4/98

Neu

DATA PACKAGE (S) COC

TO:
EDIT/VALIDATION
ICF KAISER
505-661-5736

FROM: LOS ALAMOS NATL. LAB
SAMPLE MANAGEMENT
TA-3 BLDG. 271 MS: H865
LOS ALAMOS, NM
505-665-9968 OR 665-9967

This Chain of Custody is for the following data packages by REQUEST NUMBERS:

4332, 4366, 4702, 4612,
4888, 4659, 4610, 4647,

Relinquished:

Jaylene Kelly / 11-3-98
signature date

Data Packages receives:

Neu Michel / 11/4/98
signature date

_____/_____
signature date (data relinquished)

_____/_____
signature date (data receives)

Neu

760
171

DATA PACKAGE (S) COC

TO:
EDIT/VALIDATION
ICF KAISER
505-661-5736

FROM: LOS ALAMOS NATL. LAB
SAMPLE MANAGEMENT
TA-3 BLDG. 271 MS: H865
LOS ALAMOS, NM
505-665-9968 OR 665-9967

This Chain of Custody is for the following data packages by REQUEST NUMBERS:

4332

4366

4702

4612

4888

4659

4610

4647

Relinquished:

Jeffrey Kelly 1/1-3-98
signature date

Data Packages receives:

Nick Michel 1/11/4/98
signature date

[Signature] 12/2/99 (data relinquished)
signature date

Jeffrey Kelly 12-2-99 (data receives)
signature date

CCS/VALIDATION COVER SHEET

M Code _____ SDG/RN: **4659R** LAB NAME: **Kemron** LAB CODE _____

NAME OF VALIDATOR: **Antonia Tallarico** COMPANY: **ICF Kaiser**

VALIDATION DATE: **23 December 98** EDS ENTRY DATE _____

ANALYTICAL SUITE: **X** VOLATILES ☐ HIGH EXPLOSIVES
 X SEMIVOLATILES ☐ INORGANICS
 X PESTICIDES/AROCLORS ☐ RADIOCHEMISTRY

GENERAL CHECKLIST

	<u>PRESENT?</u>
	<input type="radio"/> if "yes"
	<input type="radio"/> if "no"
1. Case Narrative	_____
2. Airbills (no. Of shipments____)	_____
3. Chain-of-custody records	_____
4. Sample tags	_____
5. Sample log-in sheets	_____
6. Internal lab sample transfer records and tracking sheets	_____
7. Other? Identify_____	_____

Are all samples assigned to the SDG present? " YES " NO
Identify any samples in the assigned SDG/RN that are missing

Comments/problems noted, including information about requests to the laboratory and agreed upon data of resolution and lab contact: (attach additional comment sheets as necessary)

Signature/1st validation: 

Signature/2nd validation: _____

Qualifiers entered by: _____ Date: _____

Order #98-09-522
November 1, 1998
11:53

KEMRON ENVIRONMENTAL SERVICES
REPORT NARRATIVE

Lab ID# 7797L0014-8M

CLIENT: Los Alamos National Laboratory

LANL SDG/RN: 4659R

Sample Management:

Nine soil samples were received at Kemron Environmental Services on 9/26/98.

Client ID:

RE-98-0029

-0030

-0031

-0033

-0034

-0035

-0036

-0037

Quality Control:

VOLATILE ORGANICS - 8260:

Several MS/MSD and RPD results were outside acceptable limits. All MS/MSD and RPD outliers were acceptable in the LCS. MS/MSD analysis was performed on a non LANL sample.

SEMIVOLATILES - 8270:

The batch LCS yielded a % recovery for pyridine that was outside advisory limits. The MS/MSD yielded % recoveries for benzoic acid and 2,4-dinitrophenol that were outside advisory limits. All other analytes were within limits. MS/MSD analysis was performed on sample MD21-98-0165 RN 4678R.

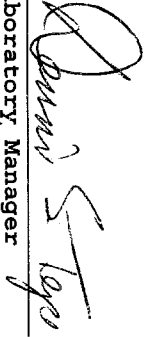
PESTICIDES - 8081:

There were no technical difficulties encountered during the analysis of these samples. MS/MSD analysis was performed on sample RE15-98-0029.

Shipment Conditions:

The samples were received intact. Solid blue ice was present.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and in completeness, except as detailed in this QC Report.


Laboratory Manager

Date: Nov 1 1998

Friday, September 25, 1998

REQUEST NUMBER: 4659R

ANALYSIS TYPE: ORG

Los Alamos
NATIONAL LABORATORY

ATTN: Maren Beery
KEMRON
109 STARLITE PARK
MARIETTA, OH 45750

Please analyze the enclosed samples
according to the schedule indicated:

These samples are on:

SHIP DATE: 9/25/98
REPORT DUE: 10/25/98
TURN AROUND REQ'D: 30 days

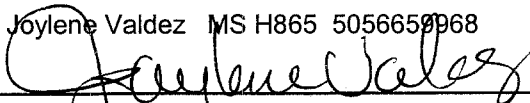
LANL Request Number: 4659R
Per Agreement Number: 7797L0014-9S
Project Cost Code: MR3R12082642

RAD SCREENING: Not Required

COMMENTS: 15 - 1086 , GG;

LANL ER SMO CONTACT: Joylene Valdez MS H865 5056659968

Signature:



ANALYSIS ORDER CODE	ANALYTE(S)	SAMPLE ID	CONT ID	SAMPLE MATRIX	DATE SAMPLED	COMMENTS
PESTPCB		RE15-98-0029	06	S	9/23/98	PEST 9/30/98
SEMIN		RE15-98-0029	07	S	9/23/98	10/16/98
VOAGCMSN		RE15-98-0029	08	S	9/23/98	10/1/98
PESTPCB		RE15-98-0030	06	S	9/23/98	
SEMIN		RE15-98-0030	07	S	9/23/98	
VOAGCMSN		RE15-98-0030	08	S	9/23/98	
PESTPCB		RE15-98-0031	06	S	9/23/98	
SEMIN		RE15-98-0031	07	S	9/23/98	
VOAGCMSN		RE15-98-0031	08	S	9/23/98	
PESTPCB		RE15-98-0032	06	S	9/23/98	10/1/98
SEMIN		RE15-98-0032	07	S	9/23/98	
VOAGCMSN		RE15-98-0032	08	S	9/23/98	
PESTPCB		RE15-98-0033	06	S	9/23/98	
SEMIN		RE15-98-0033	08	S	9/23/98	
VOAGCMSN		RE15-98-0033	09	S	9/23/98	
PESTPCB		RE15-98-0034	06	S	9/23/98	
SEMIN		RE15-98-0034	08	S	9/23/98	
VOAGCMSN		RE15-98-0034	09	S	9/23/98	10/3/98
PESTPCB		RE15-98-0035	06	S	9/23/98	
SEMIN		RE15-98-0035	07	S	9/23/98	
VOAGCMSN		RE15-98-0035	08	S	9/23/98	
PESTPCB		RE15-98-0036	06	S	9/23/98	
SEMIN		RE15-98-0036	08	S	9/23/98	
VOAGCMSN		RE15-98-0036	09	S	9/23/98	

ANALYSIS ORDER CODE	ANALYTE(S)	SAMPLE ID	CONT ID	SAMPLE MATRIX	DATE SAMPLED	COMMENTS
PESTPCB		RE15-98-0037	06	S	9/23/98	
SEMIN		RE15-98-0037	07	S	9/23/98	
VOAGCMSN		RE15-98-0037	08	S	9/23/98	

KEMRON ENVIRONMENTAL SERVICES - OVL
VOLATILE QUALITY CONTROL SUMMARY

Workgroup #: W/G46889 Run Date: 9/30/98 SMPL Num: 09-470-12
Method: 8260A Instrument ID: HPMS 6 SMPL FLNM: 61IU10290
Matrix: Soil BLK FLNM: 6BK10288 MS FLNM: 61IU10291
Units: ug/L LCS FLNM: 6LC10289 MSD FLNM: 61IU10292

LCS DF: 1
SMPL DF: 1
MS DF: 1
MSD DF: 1

CONCENTRATION, PPB													PERCENT RECOVERY										PERCENT RPD				OUTLIERS				
Target Analytes	RDL	LCS Spike					MS Spike					BLK	LCS					MS					MS RPD	RPD UCL	BLK	LCS	SMPL	MS	MSD	RPD	
		ug/Kg	ug/Kg	ug/Kg	Level	SNMPL	MS	MSD	Level	ug/Kg	%		%	LCL	UCL	SNMPL	MS	MSD	LCL	UCL	%	%									
diobromodibromomethane	10.0	ND	24.2	20.0	ND	18.9	19.9	20.0	ND	121.0	46.0	152.0	ND	94.5	99.5	60.0	140.0			5.2	20.0										
vinyl chloride	10.0	ND	23.3	20.0	ND	18.5	18.5	20.0	ND	116.5	70.0	137.0	ND	92.5	92.5	D	251.0			0.0	20.0										
chloromethane	10.0	ND	22.0	20.0	ND	18.7	18.5	20.0	ND	110.0	64.0	140.0	ND	93.5	92.5	D	273.0			1.1	20.0										
bromomethane	10.0	ND	26.1	20.0	ND	20.9	19.8	20.0	ND	130.5	62.0	147.0	ND	104.5	99.0	D	242.0			5.4	20.0										
chloroethane	10.0	ND	23.2	20.0	ND	18.9	19.2	20.0	ND	116.0	69.0	136.0	ND	94.5	96.0	14.0	230.0			1.6	20.0										
trichlorofluoromethane	5.0	ND	23.2	20.0	ND	17.1	17.6	20.0	ND	116.0	70.0	134.0	ND	85.5	88.0	17.0	181.0			2.9	20.0										
acetone	20.0	ND	17.1	20.0	ND	13.4	13.5	20.0	ND	85.5	14.0	171.0	ND	67.0	67.5	70.0	130.0			0.7	20.0										
trichlorotrifluoroethane	5.0	ND	NS	20.0	ND	NS	NS	20.0	ND	NA	NA	NA	ND	NA	NA	70.0	130.0			NA	20.0										
1,1-dichloroethane	5.0	ND	19.3	20.0	ND	12.7	13.7	20.0	ND	96.5	70.0	140.0	ND	63.5	68.5	D	234.0			7.6	20.0										
iodomethane	5.0	ND	16.3	20.0	ND	11.1	11.1	20.0	ND	81.5	50.0	150.0	ND	55.5	55.5	70.0	130.0			0.0	20.0										
methylene chloride	5.0	ND	20.7	20.0	ND	18.3	18.3	20.0	ND	103.5	57.0	146.0	ND	91.5	91.5	D	221.0			0.0	20.0										
carbon disulfide	5.0	ND	21.9	20.0	ND	12.9	13.3	20.0	ND	109.5	69.0	125.0	ND	64.5	66.5	70.0	130.0			3.1	20.0										
trans-1,2-dichloroethene	5.0	ND	20.4	20.0	ND	13.1	13.8	20.0	ND	NA	75.0	141.0	ND	65.5	69.0	54.0	156.0			5.2	20.0										
1,1-dichloroethane	5.0	ND	21.6	20.0	ND	15.6	15.9	20.0	ND	108.0	79.0	125.0	ND	78.0	79.5	59.0	155.0			1.9	20.0										
2-butanone	20.0	ND	14.3	20.0	ND	12.5	12.9	20.0	ND	71.5	28.0	173.0	ND	62.5	64.5	70.0	130.0			3.1	20.0										
2,2-dichloropropene	5.0	ND	21.0	20.0	ND	15.2	15.8	20.0	ND	105.0	69.0	128.0	ND	76.0	79.0	60.0	140.0			3.9	20.0										
cis-1,2-dichloroethene	5.0	ND	20.4	20.0	ND	14.3	14.7	20.0	ND	102.0	75.0	125.0	ND	71.5	73.5	60.0	140.0			2.8	20.0										
chloroform	5.0	ND	21.0	20.0	ND	15.7	16.1	20.0	ND	105.0	78.0	124.0	ND	78.5	80.5	51.0	138.0			2.5	20.0										
bromochloromethane	5.0	ND	20.5	20.0	ND	15.6	15.7	20.0	ND	102.5	78.0	125.0	ND	74.5	76.0	52.0	162.0			2.0	20.0										
1,1,1-trichloroethane	5.0	ND	20.9	20.0	ND	14.9	15.2	20.0	ND	104.5	77.0	124.0	ND	78.0	78.5	60.0	140.0			0.6	20.0										
1,1-dichloropropene	5.0	ND	20.6	20.0	ND	10.9	11.9	20.0	ND	103.0	75.0	132.0	ND	54.5	59.5	60.0	140.0			8.8	20.0										
carbon tetrachloride	5.0	ND	21.6	20.0	ND	14.0	14.4	20.0	ND	108.0	77.0	126.0	ND	70.0	72.0	70.0	140.0			2.8	20.0										
1,2-dichloroethane	5.0	ND	21.0	20.0	ND	16.2	16.3	20.0	ND	105.0	75.0	126.0	ND	81.0	81.5	49.0	155.0			0.6	20.0										
benzene	5.0	ND	21.4	20.0	ND	15.0	15.4	20.0	ND	107.0	81.0	122.0	ND	75.0	77.0	37.0	151.0			2.6	20.0										
trichloroethene	5.0	ND	19.9	20.0	ND	11.6	12.3	20.0	ND	99.5	81.0	123.0	ND	58.0	61.5	71.0	157.0			5.9	20.0										
1,2-dichloropropene	5.0	ND	21.4	20.0	ND	15.2	15.2	20.0	ND	103.0	79.0	125.0	ND	75.0	77.0	D	210.0			2.6	20.0										
bromodichloromethane	5.0	ND	20.6	20.0	ND	15.0	15.4	20.0	ND	103.0	79.0	125.0	ND	76.0	76.0	35.0	155.0			0.0	20.0										
dibromomethane	5.0	ND	21.4	20.0	ND	14.5	14.6	20.0	ND	107.0	81.0	123.0	ND	72.5	73.0	60.0	140.0			0.7	20.0										
4-methyl-2-pentene	20.0	ND	21.5	20.0	ND	10.6	11.1	20.0	ND	100.0	80.0	126.0	ND	53.0	55.5	70.0	130.0			4.6	20.0										
cis-1,3-dichloropropene	5.0	ND	17.4	20.0	ND	10.1	10.0	20.0	ND	87.0	81.0	124.0	ND	50.5	50.0	D	227.0			1.0	20.0										
toluene	5.0	ND	21.1	20.0	15.9	31.1	29.3	20.0	ND	105.5	80.0	124.0	15.9	76.0	67.0	47.0	150.0			6.0	20.0										

LANL

KEMRON ENVIRONMENTAL SERVICES - OVL
VOLATILE QUALITY CONTROL SUMMARY

Workgroup #: W/G46889 Run Date: 9/30/98 SMPL Num: 09-470-12
Method: 8260A Instrument ID: HPM5 6 SMPL FLNM: 61IU10290
Matrix: Soil BLK FLNM: 6BR10288 MS FLNM: 61IU10291
Unit: ug/L LCS FLNM: 6LCT10289 MSD FLNM: 61IU10292 MSD DF: 1

Target Analytes	RDL ug/Kg	CONCENTRATION, PPB							PERCENT RECOVERY										PERCENT RPD				OUTLIERS										
		LCS Spike			MS Spike				BLK	LCS	LCS		SMPL	MS	MSD	LCL	UCL	MS	MSD	LCL	UCL	MS	RPD	UCL	BLK	LCS	SMPL	MS	MSD	RPD			
		ug/Kg	Level	ug/Kg	ug/Kg	MS	MSD	Level			ug/Kg	%																			%	%	%
trans-1,3-dichloropropene	5.0	ND	19.5	20.0	ND	11.8	11.5	20.0	ND	97.5	80.0	122.0	ND	59.0	57.5	17.0	183.0	2.6	20.0														
2-hexanone	20.0	ND	13.4	20.0	ND	8.6	9.7	20.0	ND	67.0	31.0	149.0	ND	42.8	48.4	70.0	130.0	12.4	20.0														
1,1,2-trichloroethane	5.0	ND	20.2	20.0	ND	15.1	15.2	20.0	ND	101.0	79.0	123.0	ND	75.5	76.0	52.0	150.0	0.7	20.0														
1,3-dichloropropene	5.0	ND	20.0	20.0	ND	14.4	14.6	20.0	ND	100.0	79.0	123.0	ND	72.0	73.0	60.0	140.0	1.4	20.0														
tetra-chloroethane	5.0	ND	20.6	20.0	ND	10.2	11.1	20.0	ND	103.0	80.0	122.0	ND	51.0	55.5	64.0	148.0	8.5	20.0														
chlorodibromomethane	5.0	ND	20.1	20.0	ND	13.8	13.7	20.0	ND	100.5	81.0	122.0	ND	69.0	68.5	53.0	149.0	0.7	20.0														
1,3-dibromomethane	5.0	ND	18.9	20.0	ND	12.9	13.2	20.0	ND	94.5	79.0	125.0	ND	64.5	66.0	60.0	140.0	2.3	20.0														
chlorobenzene	5.0	ND	20.8	20.0	ND	10.9	11.4	20.0	ND	104.0	82.0	124.0	ND	54.5	57.0	37.0	160.0	4.5	20.0														
1,1,1,2-tetrachloroethane	5.0	ND	20.8	20.0	ND	13.2	13.3	20.0	ND	104.0	80.0	124.0	ND	66.0	66.5	60.0	140.0	0.8	20.0														
ethylbenzene	5.0	ND	20.7	20.0	ND	10.8	11.3	20.0	ND	103.5	78.0	127.0	ND	54.0	56.5	37.0	162.0	4.5	20.0														
m,p-xylene	5.0	ND	42.0	40.0	ND	23.0	24.2	40.0	ND	105.0	81.0	124.0	ND	57.5	60.5	60.0	140.0	5.1	20.0														
o-xylene	5.0	ND	17.8	20.0	ND	9.2	9.7	20.0	ND	89.0	83.0	124.0	ND	46.1	48.6	60.0	140.0	5.3	20.0														
total xylenes	5.0	ND	39.8	60.0	ND	32.2	33.9	60.0	ND	99.7	NA	NA	ND	53.7	56.5	NA	NA	5.1	20.0														
styrene	5.0	ND	21.1	20.0	ND	9.3	9.8	20.0	ND	105.5	80.0	122.0	ND	46.3	49.2	60.0	140.0	6.0	20.0														
isopropylbenzene	5.0	ND	20.5	20.0	ND	7.6	8.5	20.0	ND	102.5	82.0	124.0	ND	38.0	42.6	60.0	140.0	11.4	20.0														
bromobenzene	5.0	ND	18.5	20.0	ND	11.3	11.4	20.0	ND	92.5	67.0	134.0	ND	56.5	57.0	45.0	169.0	0.9	20.0														
1,1,2,2-tetrahaloethane	5.0	ND	18.6	20.0	ND	13.7	13.9	20.0	ND	93.0	71.0	136.0	ND	68.5	69.5	46.0	157.0	1.4	20.0														
1,2,3-trichloropropene	5.0	ND	18.5	20.0	ND	14.4	15.0	20.0	ND	92.5	70.0	139.0	ND	72.0	75.0	60.0	140.0	4.1	20.0														
n-propylbenzene	5.0	ND	20.6	20.0	ND	7.8	8.9	20.0	ND	103.0	79.0	124.0	ND	38.8	44.3	60.0	140.0	13.2	20.0														
bromobenzene	5.0	ND	19.9	20.0	ND	9.3	10.1	20.0	ND	99.5	80.0	122.0	ND	46.7	50.5	60.0	140.0	7.9	20.0														
1,3,5-trimethylbenzene	5.0	ND	21.3	20.0	ND	8.0	9.2	20.0	ND	NA	82.0	123.0	ND	40.2	45.8	60.0	140.0	13.0	20.0														
2-chlorotoluene	5.0	ND	21.0	20.0	ND	8.6	9.9	20.0	ND	105.0	77.0	126.0	ND	42.8	49.4	60.0	140.0	14.2	20.0														
4-chlorotoluene	5.0	ND	20.9	20.0	ND	8.3	9.2	20.0	ND	104.7	80.0	124.0	ND	41.7	45.8	60.0	140.0	9.5	20.0														
tert-butylbenzene	5.0	ND	18.8	20.0	ND	6.4	7.5	20.0	ND	94.0	78.0	122.0	ND	32.1	37.3	60.0	140.0	15.0	20.0														
1,2,4-trimethylbenzene	5.0	ND	20.5	20.0	ND	7.8	8.9	20.0	ND	102.5	83.0	123.0	ND	39.2	44.1	60.0	140.0	12.6	20.0														
sec-butylbenzene	5.0	ND	20.4	20.0	ND	5.9	6.9	20.0	ND	102.0	80.0	124.0	ND	29.3	34.7	60.0	140.0	16.9	20.0														
p-isopropyltoluene	5.0	ND	20.0	20.0	ND	5.5	6.6	20.0	ND	100.0	77.0	124.0	ND	27.5	32.8	60.0	140.0	17.8	20.0														
1,3-dichlorobenzene	5.0	ND	19.8	20.0	ND	6.5	7.3	20.0	ND	99.0	82.0	120.0	ND	32.3	36.4	60.0	140.0	11.9	20.0														
1,4-dichlorobenzene	5.0	ND	19.6	20.0	ND	6.8	7.6	20.0	ND	98.0	81.0	121.0	ND	31.0	37.9	18.0	190.0	10.9	20.0														

LANL

Workgroup #: WQ46889 Run Date: 9/30/98 SMPL Num: 09-470-12 LCS DF: 1
Method: 8260A Instrument ID: HPMS 6 SMPL FLNM: 6HUJ0290 SMPL DF: 1
Matrix: Soil BLK FLNM: 6BK10288 MS FLNM: 6HUJ0291 MS DF: 1
Units: ug/L LCS FLNM: 6LC10289 MSD FLNM: 6HUJ0292 MSD DF: 1

Target Analytes	RDL	CONCENTRATION, PPB										PERCENT RECOVERY										PERCENT RPD		OUTLIERS							
		LCS Spike					MS Spike					LCS					MS					MS	RPD	BLK	LCS	SMPL	MS	MSD			
		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	Level	BLK	LCS	LCL	UCL	SMPL	MS	MSD	LCL	UCL											
n-butylbenzene	5.0	ND	21.1	20.0	ND	4.6	5.6	20.0	20.0	20.0	%	ND	105.5	81.0	125.0	ND	23.2	28.1	60.0	140.0	%	19.1	20.0								
1,2-dichlorobenzene	5.0	ND	20.1	20.0	ND	6.5	7.2	20.0	20.0	20.0	%	ND	100.5	84.0	122.0	ND	32.3	35.9	19.0	190.0	%	10.7	20.0								
1,2-dibromo-3-chloropropene	10.0	ND	15.5	20.0	ND	9.2	9.9	20.0	20.0	20.0	%	ND	77.5	55.0	155.0	ND	46.0	49.7	60.0	140.0	%	7.6	20.0								
Surrogates																															
dibromofluorobenzene		51.2	47.5	50.0	36.4	37.7	37.7	50.0	50.0	50.0		102.4	94.9	80	120	72.8	75.38	75.36													
1,2-dichloroethane-d4		52.1	48.4	50.0	38.9	41.3	40.5	50.0	50.0	50.0		104.2	96.7	80	120	77.7	82.6	81.04													
toluene-d8		52.4	49.0	50.0	28.4	32.5	33.4	50.0	50.0	50.0		104.8	97.96	81	117	56.7	64.9	66.8													
p-bromofluorobenzene		57.0	50.3	50.0	19.0	24.3	26.5	50.0	50.0	50.0		114.0	100.5	74	121	37.9	48.56	52.9													

Notes and Definitions:
RDL= Reporting Detection Limit
BLK= Method Blank
LCS= Laboratory Control Sample
SMPL= Sample Results
MS/MSD= Matrix Spike / Matrix Spike Duplicate
LCL= Lower Control Limit
UCL= Upper Control Limit
RPD= Relative Percent Difference

KEMRON ENVIRONMENTAL SERVICES - OVL
VOLATILE QUALITY CONTROL SUMMARY

Workgroup #: WG46934 Run Date: 10/1/98 SMPL Num: 00-554-01
Method: 8260A Instrument ID: HPMS 6 SMPL FLNM: 6WSI0313
Matrix: Soil BLK FLNM: 6BR10312 MS FLNM: 6WSI0314
Units: ug/L LCS FLNM: 6CCI0311 MSD FLNM: 6WSI0315 MSD DF: 1

Target Analytes	RDL	CONCENTRATION, PPB										PERCENT RECOVERY										PERCENT RPD				OUTLIERS									
		BLK	LCS Spike			SMPL	MS	MSD	MS Spike			BLK	LCS			SMPL	MS	MSD	LCL	UCL	MS	MSD	LCL	UCL	MS	RPD	UCL	BLK	LCS	SMPL	MS	MSD	RPD		
			Level	ug/Kg	ug/Kg				Level	ug/Kg	%		%	%	%																			%	%
diethylchloromethane	10.0	ND	23.7	20.0	ND	25.8	23.7	20.0	ND	128.5	46.0	152.0	ND	129.0	128.5	60.0	140.0	0.4	20.0																
vinyl chloride	10.0	ND	24.0	20.0	ND	23.8	22.8	20.0	ND	120.0	70.0	137.0	ND	119.0	114.0	D	251.0	4.3	20.0																
chloromethane	10.0	ND	20.8	20.0	ND	20.0	19.6	20.0	ND	104.0	64.0	140.0	ND	100.0	98.0	D	273.0	2.0	20.0																
bromomethane	10.0	ND	25.0	20.0	ND	23.3	21.9	20.0	ND	125.0	62.0	147.0	ND	116.5	109.5	D	242.0	6.2	20.0																
chloroethane	10.0	ND	22.7	20.0	ND	21.7	21.3	20.0	ND	113.5	69.0	136.0	ND	108.5	106.5	14.0	230.0	1.9	20.0																
trichlorofluoromethane	5.0	ND	24.3	20.0	ND	24.1	22.9	20.0	ND	121.5	70.0	134.0	ND	120.5	114.5	17.0	181.0	5.1	20.0																
acetone	20.0	ND	14.6	20.0	ND	12.4	12.8	20.0	ND	73.0	14.0	171.0	ND	62.0	64.0	70.0	130.0	3.2	20.0																
trichlorotrifluoroethane	5.0	ND	NS	20.0	ND	NS	NS	20.0	ND	NA	NA	NA	ND	NA	NA	70.0	130.0	NA	20.0																
1,1-dichloroethane	5.0	ND	18.2	20.0	ND	16.8	17.0	20.0	ND	91.0	70.0	140.0	ND	84.0	85.0	D	234.0	1.2	20.0																
iodomethane	5.0	ND	11.1	20.0	ND	8.7	9.0	20.0	ND	55.5	50.0	150.0	ND	43.4	45.1	70.0	130.0	3.7	20.0																
methyl acetate	5.0	ND	21.5	20.0	ND	20.6	19.8	20.0	ND	107.5	57.0	146.0	ND	103.0	99.0	D	221.0	4.0	20.0																
carbon disulfide	5.0	ND	21.4	20.0	ND	19.2	18.4	20.0	ND	107.0	69.0	125.0	ND	96.0	92.0	70.0	130.0	4.3	20.0																
trans-1,2-dichloroethene	5.0	ND	19.9	20.0	ND	17.4	17.7	20.0	ND	NA	75.0	141.0	ND	87.0	88.5	54.0	156.0	1.7	20.0																
1,1-dichloroethane	5.0	ND	22.2	20.0	ND	19.3	18.6	20.0	ND	111.0	79.0	125.0	ND	96.5	93.0	59.0	155.0	3.7	20.0																
2-butanone	20.0	ND	15.0	20.0	ND	12.0	12.5	20.0	ND	75.0	28.0	173.0	ND	60.0	62.5	70.0	130.0	4.1	20.0																
2,2-dichloropropene	5.0	ND	20.6	20.0	ND	19.7	19.0	20.0	ND	103.0	69.0	128.0	ND	98.5	95.0	60.0	140.0	3.6	20.0																
cis-1,2-dichloroethane	5.0	ND	20.5	20.0	ND	17.5	16.8	20.0	ND	102.5	75.0	125.0	ND	87.5	84.0	60.0	140.0	4.1	20.0																
chloroform	5.0	ND	21.7	20.0	ND	20.0	18.9	20.0	ND	108.5	78.0	124.0	ND	100.0	94.5	51.0	138.0	5.7	20.0																
bromochloromethane	5.0	ND	20.9	20.0	ND	18.2	17.7	20.0	ND	104.5	78.0	125.0	ND	91.0	88.5	60.0	140.0	2.8	20.0																
1,1,1-trichloroethane	5.0	ND	20.9	20.0	ND	19.7	18.8	20.0	ND	104.5	77.0	124.0	ND	98.5	94.0	52.0	162.0	4.7	20.0																
1,1-dichloropropene	5.0	ND	20.0	20.0	ND	16.0	16.0	20.0	ND	100.0	75.0	132.0	ND	80.0	80.0	60.0	140.0	0.0	20.0																
carbon tetrachloride	5.0	ND	22.3	20.0	ND	20.1	19.1	20.0	ND	111.5	77.0	126.0	ND	96.5	91.5	49.0	155.0	5.3	20.0																
1,2-dichloroethane	5.0	ND	21.8	20.0	ND	19.3	18.3	20.0	ND	109.0	75.0	126.0	ND	96.5	89.5	37.0	151.0	6.5	20.0																
benzene	5.0	ND	21.6	20.0	ND	19.1	17.9	20.0	ND	108.0	81.0	122.0	ND	95.5	89.5	37.0	151.0	6.5	20.0																
trichloroethane	5.0	ND	19.4	20.0	ND	15.7	15.1	20.0	ND	97.0	81.0	123.0	ND	78.5	75.5	71.0	157.0	3.9	20.0																
1,2-dichloropropane	5.0	ND	20.9	20.0	ND	18.4	17.5	20.0	ND	104.5	79.0	125.0	ND	92.0	87.5	D	210.0	5.0	20.0																
bromodichloromethane	5.0	ND	21.8	20.0	ND	18.4	17.3	20.0	ND	109.0	81.0	123.0	ND	92.0	86.5	35.0	155.0	6.2	20.0																
chloromethane	5.0	ND	20.8	20.0	ND	17.4	16.3	20.0	ND	104.0	80.0	126.0	ND	87.0	81.5	60.0	140.0	6.5	20.0																
4-methyl-2-pentanone	20.0	ND	15.9	20.0	ND	11.3	11.4	20.0	ND	79.5	38.0	162.0	ND	56.6	57.0	70.0	130.0	0.8	20.0																
cis-1,3-dichloropropene	5.0	ND	17.3	20.0	ND	12.7	11.7	20.0	ND	86.5	81.0	124.0	ND	63.5	58.5	D	227.0	8.2	20.0																
toluene	5.0	ND	22.1	20.0	ND	18.4	16.9	20.0	ND	110.5	80.0	124.0	ND	92.0	84.5	47.0	150.0	8.5	20.0																

LANL

KEMRON ENVIRONMENTAL SERVICES - OVL
VOLATILE QUALITY CONTROL SUMMARY

Workgroup #: WQ46934 Run Date: 10/1/98 SMPL Num: 09-554-01 LCS DF: 1
Method: 8260A Instrument ID: HPMS 6 SMPL FLNM: 5WS10313 SMPL DF: 1
Matrix: Soil BLK FLNM: 6BR10312 MS FLNM: 6WS10314 MS DF: 1
Units: ug/L LCS FLNM: 6QC10311 MSD FLNM: 6WS10315 MSD DF: 1

Target Analytes	RD.L	CONCENTRATION, PPB						PERCENT RECOVERY										PERCENT RPD				OUTLIERS			
		LCS Spike						MS Spike						LCS				MS				MS			
		BLK	LCS	Level	SMPL	MS	MSD	Level	BLK	LCS	LCL	UCL	SMPL	MS	MSD	LCL	UCL	MS	MSD	LCL	UCL	RPD	RPD	UCL	RPD
trans-1,3-dichloropropene	5.0	ND	20.5	20.0	ND	14.7	13.3	20.0	ND	102.5	80.0	122.0	ND	73.5	66.5	17.0	183.0	10.0	20.0						
2-hexanone	20.0	ND	15.3	20.0	ND	11.4	10.7	20.0	ND	76.5	31.0	149.0	ND	57.0	53.5	70.0	130.0	6.3	20.0						
1,1,2-trichloroethane	5.0	ND	22.5	20.0	ND	18.9	17.4	20.0	ND	112.5	79.0	123.0	ND	94.5	87.0	52.0	150.0	8.3	20.0						
1,3-dichloropropene	5.0	ND	21.5	20.0	ND	17.5	16.2	20.0	ND	107.5	79.0	123.0	ND	87.5	81.0	60.0	140.0	7.7	20.0						
tetrachloroethene	5.0	ND	21.7	20.0	ND	16.6	15.7	20.0	ND	108.5	80.0	122.0	ND	83.0	78.5	64.0	148.0	5.6	20.0						
chlorobromomethane	5.0	ND	21.5	20.0	ND	17.1	15.7	20.0	ND	107.5	81.0	122.0	ND	85.5	78.5	53.0	149.0	8.5	20.0						
1,2-dibromochloroethane	5.0	ND	20.3	20.0	ND	15.5	14.7	20.0	ND	101.5	79.0	125.0	ND	77.5	73.5	60.0	140.0	5.3	20.0						
chlorobenzene	5.0	ND	21.8	20.0	ND	16.0	14.4	20.0	ND	109.0	82.0	124.0	ND	91.5	82.0	60.0	140.0	11.0	20.0						
1,1,1,2-tetrachloroethane	5.0	ND	21.6	20.0	ND	18.3	16.4	20.0	ND	108.0	80.0	124.0	ND	80.0	72.0	37.0	160.0	10.5	20.0						
ethylbenzene	5.0	ND	21.6	20.0	ND	16.4	15.1	20.0	ND	108.0	78.0	127.0	ND	82.0	75.5	37.0	162.0	8.3	20.0						
m,p-xylene	5.0	ND	44.2	40.0	ND	32.7	29.6	40.0	ND	110.5	81.0	124.0	ND	81.8	74.0	60.0	140.0	10.0	20.0						
o-xylene	5.0	ND	18.7	20.0	ND	13.5	12.2	20.0	ND	93.5	83.0	124.0	ND	67.5	61.0	60.0	140.0	10.1	20.0						
total xylenes	5.0	ND	62.9	60.0	ND	46.2	41.8	60.0	ND	104.8	N.A.	N.A.	ND	77.0	69.7	N.A.	N.A.	10.0	20.0						
styrene	5.0	ND	22.3	20.0	ND	14.6	13.1	20.0	ND	111.5	80.0	122.0	ND	73.0	65.5	60.0	140.0	10.8	20.0						
isopropylbenzene	5.0	ND	21.1	20.0	ND	14.6	13.3	20.0	ND	105.5	82.0	124.0	ND	73.0	66.5	60.0	140.0	9.3	20.0						
bromoforn	5.0	ND	20.8	20.0	ND	14.9	13.6	20.0	ND	104.0	67.0	134.0	ND	74.5	68.0	45.0	169.0	9.1	20.0						
1,1,2,2-tetrachloroethane	5.0	ND	21.2	20.0	ND	16.3	15.3	20.0	ND	106.0	71.0	136.0	ND	81.5	76.5	46.0	157.0	6.3	20.0						
1,2,3-trichloropropene	5.0	ND	21.2	20.0	ND	17.2	16.0	20.0	ND	106.0	70.0	139.0	ND	86.0	80.0	60.0	140.0	7.2	20.0						
n-propylbenzene	5.0	ND	21.3	20.0	ND	14.0	13.2	20.0	ND	106.5	79.0	124.0	ND	70.0	66.0	60.0	140.0	5.6	20.0						
bromobenzene	5.0	ND	20.3	20.0	ND	13.0	11.9	20.0	ND	101.5	80.0	122.0	ND	65.0	59.5	60.0	140.0	8.8	20.0						
1,3,5-trimethylbenzene	5.0	ND	21.5	20.0	ND	14.3	13.3	20.0	ND	N.A.	82.0	123.0	ND	71.5	66.5	60.0	140.0	7.2	20.0						
2-chlorotoluene	5.0	ND	21.8	20.0	ND	13.9	13.6	20.0	ND	109.0	77.0	126.0	ND	69.5	68.0	60.0	140.0	2.2	20.0						
4-chlorotoluene	5.0	ND	21.3	20.0	ND	13.8	12.2	20.0	ND	106.5	80.0	124.0	ND	69.0	61.0	60.0	140.0	12.3	20.0						
tert-butylbenzene	5.0	ND	19.1	20.0	ND	12.6	11.9	20.0	ND	95.5	78.0	122.0	ND	63.0	59.5	60.0	140.0	5.7	20.0						
1,2,4-trimethylbenzene	5.0	ND	21.0	20.0	ND	13.7	12.6	20.0	ND	105.0	83.0	123.0	ND	68.5	63.0	60.0	140.0	8.4	20.0						
sec-butylbenzene	5.0	ND	20.9	20.0	ND	12.7	12.1	20.0	ND	104.5	80.0	124.0	ND	63.5	60.5	60.0	140.0	4.8	20.0						
p-isopropyltoluene	5.0	ND	20.4	20.0	ND	12.1	11.5	20.0	ND	102.0	77.0	124.0	ND	60.5	57.5	60.0	140.0	5.1	20.0						
1,3-dichlorobenzene	5.0	ND	20.4	20.0	ND	11.1	10.3	20.0	ND	102.0	82.0	120.0	ND	55.5	51.5	60.0	140.0	7.5	20.0						
1,4-dichlorobenzene	5.0	ND	20.3	20.0	ND	11.1	10.3	20.0	ND	101.5	81.0	121.0	ND	55.5	51.5	18.0	190.0	7.5	20.0						

KEMRON ENVIRONMENTAL SERVICES - OVL
VOLATILE QUALITY CONTROL SUMMARY

Workgroup #: WQ46934 Run Date: 10/1/98 SMPL Num: 09-554-01 LCS DF: 1
Method: 8260A Instrument ID: HPMS 6 SMPL FLNM: 6WSI0313 SMPL DF: 1
Matrix: Soil BLK FLNM: 6BK10312 MS FLNM: 6WSI0314 MS DF: 1
Units: ug/L LCS FLNM: 6QC10311 MSD FLNM: 6WSI0315 MSD DF: 1

		CONCENTRATION, PPB										PERCENT RECOVERY										PERCENT RPD		OUTLIERS			
		LCS Spike										MS Spike															
Target Analytes	RDL	BLK	LCS	Level	SMPL	MS	MSD	Level	BLK	LCS	LCL	UCL	SMPL	MS	MSD	LCL	UCL	RPD	UCL	BLK	LCS	SMPL	MS	MSD			
n-butylbenzene	5.0	ND	21.9	20.0	ND	11.5	11.0	20.0	%	%	%	%	%	%	%	%	%	%	4.4	20.0							
1,2-dichlorobenzene	5.0	ND	20.7	20.0	ND	10.9	10.0	20.0	ND	103.5	84.0	122.0	ND	54.5	50.0	19.0	190.0	8.7	20.0								
1,2-dibromo-3-chloropropane	10.0	ND	18.3	20.0	ND	12.4	11.5	20.0	ND	91.5	55.0	155.0	ND	62.0	57.5	60.0	140.0	7.5	20.0								
Surrogates																											
dibromofluoromethane		51.2	51.8	50.0	49.0	47.3	43.5	50.0	102.5	103.5	80	120	97.9	94.68	86.94												
1,2-dichloroethane-d4		53.2	54.1	50.0	50.9	48.9	44.5	50.0	106.3	108.1	80	120	101.8	97.7	89.02												
toluene-d8		54.5	55.3	50.0	49.5	46.9	41.3	50.0	109.0	110.58	81	117	98.96	93.8	82.6												
p-bromofluorobenzene		58.7	56.0	50.0	42.7	36.5	32.3	50.0	117.3	112.0	74	121	85.4	73.04	64.7												

Notes and Definitions:
RDL= Reporting Detection Limit
BLK= Method Blank
LCS= Laboratory Control Sample
SMPL= Sample Results
MS/MSD= Matrix Spike / Matrix Spike Duplicate
LCL= Lower Control Limit
UCL= Upper Control Limit
RPD= Relative Percent Difference

KEMRON ENVIRONMENTAL SERVICES - OVL
VOLATILE QUALITY CONTROL SUMMARY

Workgroup #: WGT007 Run Date: 10/3/98
Method: 8260A Instrument ID: HPMS 6
Matrix: Soil BLK FLNM: 6BK10357
Units: ug/L LCS FLNM: 6QCI0358 MS FLNM: 6ET10360
MSD FLNM: 6ET10361

SMPL Num: 09-514-01
SMPL DF: 1
MS DF: 1
MSD DF: 1

Target Analytes	RDL ug/Kg	CONCENTRATION, PPB										PERCENT RECOVERY										PERCENT RPD				OUTLIERS							
		LCS Spike					MS Spike					LCS					MS					MS		RPD		OUTLIERS							
		BLK ug/Kg	LCS ug/Kg	Level ug/Kg	SMPL ug/Kg	MS ug/Kg	MSD ug/Kg	Level ug/Kg	BLK %	LCS %	LCL %	UCL %	SMPL %	MS %	MSD %	LCL %	UCL %	MS %	RPD %	UCL %	BLK	LCS	SMPL	MS	MSD	RPD							
dichlorodibromomethane	10.0	ND	23.7	20.0	ND	27.2	27.0	20.0	ND	118.5	46.0	152.0	ND	136.0	135.0	60.0	140.0	0.7	20.0														
vinyl chloride	10.0	ND	21.3	20.0	ND	24.0	23.4	20.0	ND	106.5	70.0	137.0	ND	120.0	117.0	D	251.0	2.5	20.0														
chloromethane	10.0	ND	18.3	20.0	ND	20.5	21.0	20.0	ND	91.5	64.0	140.0	ND	102.5	105.0	D	273.0	2.4	20.0														
bromomethane	10.0	ND	22.8	20.0	ND	25.5	24.6	20.0	ND	114.0	62.0	147.0	ND	127.5	123.0	D	242.0	3.6	20.0														
chloroethane	10.0	ND	19.7	20.0	ND	22.9	22.4	20.0	ND	98.5	69.0	136.0	ND	114.5	112.0	14.0	230.0	2.2	20.0														
trichlorofluoromethane	5.0	ND	23.3	20.0	ND	25.7	24.1	20.0	ND	116.5	70.0	134.0	ND	128.5	120.5	17.0	181.0	6.4	20.0														
acetone	20.0	ND	19.2	20.0	ND	16.5	15.6	20.0	ND	96.0	14.0	171.0	ND	82.5	78.0	70.0	130.0	5.6	20.0														
trichlorotrifluoroethane	5.0	ND	NS	20.0	ND	NS	NS	20.0	ND	NA	NA	NA	ND	NA	NA	70.0	130.0	NA	20.0														
1,1-difluoroethane	5.0	ND	17.3	20.0	ND	20.6	20.8	20.0	ND	86.5	70.0	140.0	ND	103.0	104.0	D	234.0	1.0	20.0														
iodomethane	5.0	ND	10.1	20.0	ND	13.4	15.0	20.0	ND	50.5	50.0	150.0	ND	67.0	75.0	70.0	130.0	11.3	20.0														
methylene chloride	5.0	ND	21.3	20.0	ND	23.9	23.4	20.0	ND	106.5	57.0	146.0	ND	119.5	117.0	D	221.0	2.1	20.0														
carbon disulfide	5.0	ND	21.1	20.0	ND	23.7	22.9	20.0	ND	105.5	69.0	125.0	ND	118.5	114.5	70.0	130.0	3.4	20.0														
trans-1,2-dichloroethane	5.0	ND	20.8	20.0	ND	24.2	23.9	20.0	ND	NA	75.0	141.0	ND	121.0	119.5	54.0	156.0	1.2	20.0														
1,1-dichloroethane	5.0	ND	21.1	20.0	ND	23.1	22.4	20.0	ND	105.5	79.0	125.0	ND	115.5	112.0	59.0	155.0	3.1	20.0														
2-butanone	20.0	ND	16.3	20.0	ND	17.1	16.8	20.0	ND	81.5	28.0	173.0	ND	85.5	84.0	70.0	130.0	1.8	20.0														
2,2-dichloropropane	5.0	ND	19.6	20.0	ND	22.1	21.3	20.0	ND	98.0	69.0	128.0	ND	110.5	106.5	60.0	140.0	3.7	20.0														
cis-1,2-dichloroethene	5.0	ND	19.1	20.0	ND	22.1	21.8	20.0	ND	95.5	75.0	125.0	ND	110.5	109.0	60.0	140.0	1.4	20.0														
bromochloromethane	5.0	ND	21.9	20.0	ND	23.1	22.5	20.0	ND	109.5	78.0	124.0	ND	115.5	112.5	51.0	138.0	2.6	20.0														
1,1,1-trichloroethane	5.0	ND	20.2	20.0	ND	22.7	22.2	20.0	ND	101.0	78.0	125.0	ND	113.5	111.0	60.0	140.0	2.2	20.0														
1,1,1-trichloroethane	5.0	ND	20.1	20.0	ND	21.5	20.3	20.0	ND	100.5	77.0	124.0	ND	107.5	101.5	52.0	162.0	5.7	20.0														
1,1-dichloropropene	5.0	ND	21.0	20.0	ND	20.6	19.5	20.0	ND	105.0	75.0	132.0	ND	103.0	97.5	60.0	140.0	5.5	20.0														
carbon tetrachloride	5.0	ND	21.0	20.0	ND	21.6	19.5	20.0	ND	105.0	77.0	126.0	ND	108.0	97.5	70.0	140.0	10.2	20.0														
1,2-dichloroethane	5.0	ND	21.2	20.0	ND	23.1	22.4	20.0	ND	106.0	75.0	126.0	ND	115.5	112.0	49.0	155.0	3.1	20.0														
benzene	5.0	ND	21.1	20.0	ND	23.0	22.1	20.0	ND	105.5	81.0	122.0	ND	115.0	110.5	37.0	151.0	4.0	20.0														
trichloroethene	5.0	ND	18.4	20.0	ND	19.9	18.8	20.0	ND	92.0	81.0	123.0	ND	99.5	94.0	71.0	157.0	5.7	20.0														
1,2-dichloropropane	5.0	ND	20.0	20.0	ND	21.9	21.6	20.0	ND	100.0	79.0	125.0	ND	109.5	108.0	D	210.0	1.4	20.0														
bromodichloromethane	5.0	ND	20.6	20.0	ND	22.3	21.6	20.0	ND	103.0	81.0	123.0	ND	111.5	108.0	35.0	155.0	3.2	20.0														
dichloromethane	5.0	ND	20.5	20.0	ND	21.7	21.0	20.0	ND	102.5	80.0	126.0	ND	108.5	105.0	60.0	140.0	3.3	20.0														
4-methyl-2-pentanone	20.0	ND	14.8	20.0	ND	15.2	14.7	20.0	ND	74.0	38.0	162.0	ND	76.0	73.5	70.0	130.0	3.3	20.0														
cis-1,3-dichloropropene	5.0	ND	16.2	20.0	ND	18.1	17.7	20.0	ND	81.0	81.0	124.0	ND	90.5	88.5	D	227.0	2.2	20.0														
toluene	5.0	ND	20.8	20.0	ND	18.1	20.1	20.0	ND	101.0	80.0	121.0	ND	90.5	100.5	47.0	150.0	10.5	20.0														

L

LANL

KEMRON ENVIRONMENTAL SERVICES - OVL
VOLATILE QUALITY CONTROL SUMMARY

Workgroup #: WG47027 Run Date: 10/3/98
Method: 8260A Instrument ID: HPRMS 6
Matrix: Soil BLK FLNM: 6BK10357 MS FLNM: 6ET10360
Units: ug/L LCS FLNM: 6CC10358 MSD FLNM: 6ET10361

SMPL Num: 09-514-01
SMPL FLNM: 6ET10359
MS FLNM: 6ET10360
MSD FLNM: 6ET10361

LCS DF: 1
SMPL DF: 1
MS DF: 1
MSD DF: 1

Target Analytes	CONCENTRATION, PPB										PERCENT RECOVERY										PERCENT RPD				OUTLIERS																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	RDL ug/Kg	BLK ug/Kg	LCS Spike				MS Spike				BLK %	LCS %	LCS		LCS		MS %	MSD %	LCL %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS %	MS

LANL

Workgroup #: WGA7027 Run Date: 10/3/98 SMPPL Num: 09-514-01 LCS DF: 1
Method: 8260A Instrument ID: HPMS 6 SMPPL FLNM: 6ET10359 SMPPL DF: 1
Matrix: Soil BLK FLNM: 6BK10357 MS FLNM: 6ET10360 MS DF: 1
Units: ug/L LCS FLNM: 6QC10338 MSD FLNM: 6ET10361 MSD DF: 1

		CONCENTRATION, PPB								PERCENT RECOVERY								PERCENT RPD		OUTLIERS				
		LCS Spike				MS Spike				LCS				MS				MS	RPD	BLK	LCS	SMPL	MS	MSD
Target Analytes	RDL	BLK	LCS	Level	SMPL	MS	MSD	Level	BLK	LCS	LCL	UCL	SMPL	MS	MSD	LCL	UCL	RPD	UCL					
n-butylbenzene	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	%	%	%	%	%	%	%	%	%	%	%					
5.0	ND	21.3	20.0	ND	10.9	7.8	20.0	ND	106.5	81.0	125.0	ND	54.5	39.0	60.0	140.0	33.2	20.0						
1,2-dichlorobenzene	\$/g	ND	20.2	20.0	ND	14.5	11.4	20.0	ND	101.0	84.0	122.0	ND	72.5	57.0	19.0	190.0	23.9	20.0					
1,2-dibromo-3-chloropropane	10.0	ND	18.3	20.0	ND	16.7	14.6	20.0	ND	91.5	55.0	155.0	ND	83.5	73.0	60.0	140.0	13.4	20.0					
Surrogates																								
diatomofluorobenzene		52.6	50.8	50.0	55.5	55.9	54.2	50.0	105.2	101.6	80	120	110.9	111.8	108.32									
1,2-dichloroethane-d4		54.3	53.2	50.0	57.6	57.7	55.4	50.0	108.6	106.5	80	120	115.2	115.5	110.86									
toluene-d8		54.8	52.6	50.0	57.9	54.7	50.9	50.0	109.5	105.24	81	117	115.76	109.46	101.9									
p-fluorobenzene		59.1	56.5	50.0	60.8	51.4	44.3	50.0	118.1	113.0	74	121	121.6	102.88	88.6									

Notes and Definitions:
RDL= Reporting Detection Limit
BLK= Method Blank
LCS= Laboratory Control Sample
SMPPL= Sample Results
MS/MSD= Matrix Spike / Matrix Spike Duplicate
LCL= Lower Control Limit
UCL= Upper Control Limit
RPD= Relative Percent Difference

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: kemron Contract: 779710014-8m
 Lab Code: _____ Case No.: 09-522 SAS No.: _____ SDG No.: _____
 Lab File ID (Standard): 6ST10287.D Date Analyzed: 09/30/98
 Instrument ID: hpms 6 Time Analyzed: 21:33
 GC Column: _____ ID: 0.32 (mm) Heated Purge: (Y/N) Y

	IS1FBZ AREA #	RT #	IS2CBZ AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	1392896	12.11	1082769	16.62	653997	20.20
UPPER LIMIT	2785792	11.61	2165538	16.12	1307994	19.70
LOWER LIMIT	696448	12.61	541385	17.12	326999	20.70
EPA SAMPLE NO.						
01 VBLK0930	1380109	12.11	1015607	16.62	516373	20.20
02 VLCS0930	1388372	12.11	1040689	16.62	618994	20.20
03 MD21-98-0144	1194490	12.11	865699	16.62	467770	20.20
04 RE00-98-0056	1229275	12.11	881562	16.62	442876	20.20
05 RE00-98-0057	1203265	12.10	869754	16.62	451365	20.20
06 RE00-98-0059	1240045	12.10	895748	16.62	466798	20.20
07 RE00-98-0060	1207313	12.11	883960	16.62	457245	20.19
08 RE15-98-0029 ✓	6.7 93944 *	12.12	6.2 67579 *	16.62	4.2 27260 *	20.20
09 RE15-98-0030 ✓	1142185	12.11	820627	16.62	430429	20.19
10 RE15-98-0031 ✓	1195912	12.11	868607	16.62	469357	20.20
11 RE15-98-0032 ✓	1178243	12.11	857042	16.62	454975	20.20
12 RE15-98-0033 ✓	1065979	12.11	779249	16.62	395560	20.20

IS1 FBZ = Fluorobenzene
 IS2 CBZ = Chlorobenzene-d5
 IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: kemron Contract: 779710014-8m
 Lab Code: _____ Case No.: 09-522 SAS No.: _____ SDG No.: _____
 Lab File ID (Standard): 6ST10309.D Date Analyzed: 10/01/98
 Instrument ID: hpms 8 Time Analyzed: 09:44
 GC Column: _____ ID: 0.32 (mm) Heated Purge: (Y/N) Y

	IS1FBZ AREA #	RT #	IS2CBZ AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	1396201	12.11	1070629	16.62	634843	20.20
UPPER LIMIT	2792402	11.61	2141258	16.12	1269686	19.70
LOWER LIMIT	698101	12.61	535315	17.12	317422	20.70
EPA SAMPLE NO.						
01 VLCS1001	1352814	12.11	995508	16.62	600302	20.20
02 VBLK1001	1260649	12.12	902515	16.62	468463	20.20
03 RE00-98-0051	1185803	12.11	844967	16.62	479521	20.20
04 MD21-98-0143	1265945	12.11	903618	16.62	485304	20.20
05 MD21-98-0144	1242737	12.11	880470	16.62	486860	20.20

IS1 FBZ = Fluorobenzene
 IS2 CBZ = Chlorobenzene-d5
 IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: kemron Contract: 779710014-8m
 Lab Code: _____ Case No.: 09-522 SAS No.: _____ SDG No.: _____
 Lab File ID (Standard): 6ST10356.D Date Analyzed: 10/03/98
 Instrument ID: hpms 6 Time Analyzed: 09:18
 GC Column: _____ ID: 0.32 (mm) Heated Purge: (Y/N) Y

	IS1FBZ AREA #	RT #	IS2CBZ AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	1375473	12.11	1055158	16.62	637069	20.20
UPPER LIMIT	2750946	11.61	2110316	16.12	1274138	19.70
LOWER LIMIT	687737	12.61	527579	17.12	318535	20.70
EPA SAMPLE NO.						
01 VBLK1003	1252651	12.11	901518	16.63	461669	20.20
02 VLCS1003	1287482	12.11	962852	16.62	544174	20.20
03 MD2-98-0166	1279243	12.11	926611	16.63	478405	20.20
04 RE15-98-0034 ✓	1229226	12.11	887271	16.63	473634	20.20
05 RE15-98-0035 ✓	1215689	12.11	896143	16.63	456581	20.20
06 RE15-98-0036 ✓	1218680	12.11	868667	16.62	473700	20.20
07 RE15-98-0037 ✓	1123767	12.11	799911	16.63	422983	20.20

IS1 FBZ = Fluorobenzene
 IS2 CBZ = Chlorobenzene-d5
 IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

KEMRON ENVIRONMENTAL SERVICES, OVL
SEMI-VOLATILES QUALITY CONTROL SUMMARY

ANAL WORK GRP : WG47900
METHOD : 8270
MATRIX : SOIL
CONCENTRATION UNITS : UG/KG
PREP WORK GRP : WG46720

RUN DATE : 10/16/98
SMPL ID : 09-519-01 4X SOIL
SMPL FLNM : 5982
MS FLNM : 5983
MSD FLNM : 5984

INSTRUMENT : HPMS7
ANALYST : MLS

ANALYTE	CONCENTRATION , ug / Kg										PERCENT RECOVERY , %										PERCENT				BEYOND LIMITS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
	RDL	LCS		MS		MSD	LCS	SAMPLE	SPIKE	MS	MSD	BLANK	LCS	LCS/LCL	LCS	SAMPLE	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD	MSD	RPD	UCL	SAMPLE	BLANK	LCS	LCS/LCL	LCS	UCL	MS	MSD	MS	LCL	MS	UCL	DUP	RPD

NOTES & DEFINITIONS:
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RDL=REPORTING DETECTION LIMIT
NS = NOT SPIKED
L = Below QC Limits
H = Above QC Limits

KEMRON ENVIRONMENTAL SERVICES, OVL
SEMI-VOLATILES QUALITY CONTROL SUMMARY
827LAS

ANAL WORK GRP : WG47900
METHOD : 8270
MATRIX : SOIL
CONCENTRATION UNITS : UG/KG
PREP WORK GRP : WG46720

RUN DATE : 10/16/98
SMPL ID : 09-519-01 4X SOIL
SMPL FLNM : 5982
MS FLNM : 5983
MSD FLNM : 5984

INSTRUMENT : HPMS7
ANALYST : MLS

CONCENTRATION , ug /Kg										PERCENT RECOVERY , %										PERCENT				BEYOND LIMITS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
ANALYTE	RDL	LCS		MS		MSD	BLANK	LCS	SAMPLE	SPIKE	MS	MSD	LCS	LCL	UCL	SAMPLE	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD	LCL	MS	UCL	DUP	MSD	RPD	UCL	SAMPLE	BLANK

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8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Kemron Contract: 7797I0014-8M
 Lab Code: _____ Case No.: 09-522 SAS No.: _____ SDG No.: _____
 Lab File ID (Standard): 5979.D Date Analyzed: 10/16/98
 Instrument ID: HPMS7 Time Analyzed: 10:33

	IS1DCB AREA #	RT #	IS2NPT AREA #	RT #	IS3ANT AREA #	RT #
12 HOUR STD	646304	6.34	2512486	8.28	1386551	11.52
UPPER LIMIT	1292608	5.84	5024972	7.78	2773102	11.02
LOWER LIMIT	323152	6.84	1256243	8.78	693276	12.02
EPA SAMPLE NO.						
01 BLK01	522252	6.34	1941269	8.27	1068519	11.52
02 LCS01	493974	6.34	1893027	8.27	1045576	11.51
03 MD21-98-0165	500781	6.34	1871512	8.27	1032649	11.51
04 09-519MS	499796	6.34	1884431	8.27	1043128	11.51
05 09-519MSD	509764	6.34	1912658	8.27	1048811	11.51
06 MD21-98-0166	574895	6.34	2123634	8.27	1176442	11.51

IS1 DCB = 1,4-Dichlorobenzene-d4
 IS2 NPT = Naphthalene-d8
 IS3 ANT = Acenaphthene-d10
 IS4 PHN = Phenanthrene-d10
 IS5 CRY = Chrysene-d12
 IS6 PRY = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
 * Values outside of contract required QC limits

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Kemron Contract: 7797I0014-8M
 Lab Code: _____ Case No.: 09-522 SAS No.: _____ SDG No.: _____
 Lab File ID (Standard): 5979.D Date Analyzed: 10/16/98
 Instrument ID: HPMS7 Time Analyzed: 10:33

	IS4PHN AREA #	RT #	IS5CRY AREA #	RT #	IS6PRY AREA #	RT #
12 HOUR STD	2387408	14.44	2375713	19.85	2228077	23.02
UPPER LIMIT	4774816	13.94	4751426	19.35	4456154	22.52
LOWER LIMIT	1193704	14.94	1187857	20.35	1114039	23.52
EPA SAMPLE NO.						
01 BLK01	1835154	14.43	1833635	19.83	1879257	23.00
02 LCS01	1781381	14.43	1831472	19.84	1952681	23.01
03 MD21-98-0165	1769365	14.43	1751183	19.83	1844611	23.00
04 09-519MS	1768381	14.43	1816540	19.83	1958272	23.00
05 09-519MSD	1803846	14.43	1841097	19.83	1970586	23.00
06 MD21-98-0166	2013634	14.43	2073062	19.83	2214644	23.00

IS1 DCB = 1,4-Dichlorobenzene-d4
 IS2 NPT = Naphthalene-d8
 IS3 ANT = Acenaphthene-d10
 IS4 PHN = Phenanthrene-d10
 IS5 CRY = Chrysene-d12
 IS6 PRY = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Kemron Contract: 779710014-8M
 Lab Code: _____ Case No.: 09-522 SAS No.: _____ SDG No.: _____
 Lab File ID (Standard): 5987.D Date Analyzed: 10/16/98
 Instrument ID: HPMS7 Time Analyzed: 16:49

		IS1DCB AREA #	RT #	IS2NPT AREA #	RT #	IS3ANT AREA #	RT #
	12 HOUR STD	661599	6.35	2532654	8.28	1405430	11.52
	UPPER LIMIT	1323198	5.85	5065308	7.78	2810860	11.02
	LOWER LIMIT	330800	6.85	1266327	8.78	702715	12.02
	EPA SAMPLE NO.						
01	RE15-98-0029 ✓	534255	6.34	1990181	8.28	1100639	11.51
02	RE15-98-0030 ✓	554103	6.34	2049483	8.27	1134085	11.51
03	RE15-98-0031 ✓	528991	6.34	1972629	8.28	1094041	11.51
04	RE15-98-0032 ✓	533211	6.35	1965634	8.28	1094570	11.51
05	RE15-98-0033 ✓	526025	6.34	1958738	8.28	1097179	11.51
06	RE15-98-0034 ✓	544962	6.35	1977555	8.28	1115803	11.51
07	RE15-98-0035 ✓	582865	6.34	2167095	8.28	1199848	11.52
08	RE15-98-0036 ✓	524944	6.35	1973887	8.28	1093408	11.51
09	RE15-98-0037 ✓	565904	6.35	2105639	8.28	1170780	11.51
10	CAMO-98-0037	525520	6.34	1941695	8.28	1102431	11.51
11	CAMO-98-0038	563231	6.34	2067579	8.28	1152849	11.52
12	CAMO-98-0039	547763	6.35	2047517	8.28	1150332	11.51
13	CAMO-98-0040	554039	6.35	2048186	8.28	1154844	11.51
14	CAMO-98-0041	525754	6.34	1965770	8.28	1101425	11.51
15	CAMO-98-0042	557951	6.35	2075963	8.28	1167295	11.52
16	CAMO-98-0043	548634	6.34	2021103	8.28	1131961	11.51
17	CAMO-98-0044	595456	6.34	2202519	8.28	1237789	11.52
18	CAMO-98-0045	538688	6.34	2023923	8.28	1139974	11.52

IS1 DCB = 1,4-Dichlorobenzene-d4
 IS2 NPT = Naphthalene-d8
 IS3 ANT = Acenaphthene-d10
 IS4 PHN = Phenanthrene-d10
 IS5 CRY = Chrysene-d12
 IS6 PRY = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
 * Values outside of contract required QC limits

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Kemron Contract: 7797I0014-8M
 Lab Code: _____ Case No.: 09-522 SAS No.: _____ SDG No.: _____
 Lab File ID (Standard): 5987.D Date Analyzed: 10/16/98
 Instrument ID: HPMS7 Time Analyzed: 16:49

	IS4PHN AREA #	RT #	IS5CRY AREA #	RT #	IS6PRY AREA #	RT #
12 HOUR STD	2417735	14.44	2424553	19.84	2402887	23.02
UPPER LIMIT	4835470	13.94	4849106	19.34	4805774	22.52
LOWER LIMIT	1208868	14.94	1212277	20.34	1201444	23.52
EPA SAMPLE NO.						
01 RE15-98-0029	1856896	14.43	1883595	19.83	1954367	23.00
02 RE15-98-0030	1917943	14.43	1939372	19.83	2064240	23.01
03 RE15-98-0031	1856785	14.43	1877076	19.83	1947810	23.01
04 RE15-98-0032	1878190	14.43	1908269	19.83	1992365	23.00
05 RE15-98-0033	1863146	14.43	1892504	19.83	1993987	23.01
06 RE15-98-0034	1883985	14.43	1912780	19.83	2025569	23.01
07 RE15-98-0035	2054572	14.43	2097930	19.83	2235472	23.01
08 RE15-98-0036	1862421	14.43	1894901	19.83	1994131	23.00
09 RE15-98-0037	1994903	14.43	2045198	19.84	2140986	23.01
10 CAMO-98-003	1871102	14.43	1900094	19.83	2038385	23.01
11 CAMO-98-003	1989347	14.43	2062175	19.84	2176407	23.02
12 CAMO-98-003	1981850	14.43	2054698	19.84	2138681	23.01
13 CAMO-98-004	1967549	14.43	2017198	19.84	2093147	23.01
14 CAMO-98-004	1883171	14.43	1956896	19.84	1990086	23.01
15 CAMO-98-004	1984973	14.43	2050367	19.84	2061867	23.02
16 CAMO-98-004	1930913	14.43	1978021	19.84	1940390	23.01
17 CAMO-98-004	2127184	14.43	2199929	19.84	2076913	23.02
18 CAMO-98-004	1924839	14.43	2032014	19.84	1878310	23.01

IS1 DCB = 1,4-Dichlorobenzene-d4
 IS2 NPT = Naphthalene-d8
 IS3 ANT = Acenaphthene-d10
 IS4 PHN = Phenanthrene-d10
 IS5 CRY = Chrysene-d12
 IS6 PRY = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

INSTRUMENT : HP 9
EXTN DATE : 9/30/98 ANALYST : ECL
EXTN BENCH SHT : V101P70 RUN DATE : 9/30/98
EXTN WORK GRP : WG46788 ANAL WORK GRP : WG46843
SAMPLE ID : 09-522-01
SMPL FLNM : 403 D
MS FLNM : 404 D
MSD FLNM : 405 D

COMPOUND	RDL	CONCENTRATION, ug/kg				% RECOVERY				PERCENT				Sample LCS MS MSD
		Blank	LCS	Sample	MS	MSD	Blank	LCS	LCS UCL	LCS Sample	MS	MSD	MS LCL UCL	
ALPHA-BHC	1.7	ND	11.3	ND	11.4	12.8	NA	67.5	37	134	NA	68.3	51	Blank
GAMMA-BHC	1.7	ND	12.7	ND	13.0	14.4	NA	76.0	32	127	NA	77.9	54	LCS
BETA-BHC	1.7	ND	12.4	ND	13.3	14.5	NA	74.4	17	147	NA	79.7	51	MS
HEPTACHLOR	1.7	ND	12.8	ND	13.3	14.7	NA	76.6	34	111	NA	79.9	40	MSD
DELTA-BHC	1.7	ND	13.3	ND	13.6	15.0	NA	79.4	19	140	NA	81.4	56	
ALDRIN	1.7	ND	12.6	ND	13.4	14.7	NA	78.4	42	122	NA	80.3	26	
HEPTACHLOR EPOXIDE	1.7	ND	13.1	ND	13.5	15.0	NA	78.5	37	142	NA	81.1	51	
GAMMA-CHLORDANE	1.7	ND	NA	ND	NA	NA	NA	NA	45	119	NA	NA	45	
ALPHA-CHLORDANE	1.7	ND	NA	ND	NA	NA	NA	NA	54	119	NA	NA	45	
ENDOSULFAN I	1.7	ND	12.3	ND	12.7	14.0	NA	75.7	45	153	NA	76.0	37	
4,4-DDE	3.3	ND	13.8	ND	14.3	15.7	NA	82.9	30	145	NA	85.5	64	
DIELDRIN	3.3	ND	13.8	ND	14.4	15.8	NA	83.1	36	146	NA	86.1	23	
ENDRIN	3.3	ND	13.8	ND	14.2	15.8	NA	82.6	30	147	NA	84.8	56	
4,4-DDT	3.3	ND	13.7	ND	14.0	15.5	NA	82.1	31	141	NA	84.1	58	
ENDOSULFAN II	3.3	ND	11.8	ND	11.9	13.3	NA	70.4	D	202	NA	71.2	21	
4,4-DDT	3.3	ND	14.8	ND	15.2	16.8	NA	88.7	25	160	NA	90.9	42	
ENDRIN ALDEHYDE	3.3	ND	9.87	ND	9.65	11.6	NA	59.1	NA	NA	NA	57.8	21	
ENDOSULFAN SULFATE	3.3	ND	9.54	ND	9.27	10.9	NA	57.1	26	144	NA	55.5	31	
METHOXYCHLOR	17	ND	15.2	ND	15.5	17.2	NA	91.3	NA	NA	NA	93.1	26	
ENDRIN KETONE	3.3	ND	12.8	ND	12.5	14.1	NA	76.4	NA	NA	NA	75.1	NA	
TECH-CHLORDANE	33	ND	NA	ND	NA	NA	NA	NA	45	119	NA	NA	45	
TOXAPHENE	33	ND	NA	ND	NA	NA	NA	NA	41	126	NA	NA	40	
SURROGATES														
2,4,5,6-TETRACHLORO-M-XYLENE		14.5	14.5	10.7	14.1	14.3	72.6	72.5	13	154	53.6	70.3	13	
DECA-CHLOROBIIPHENYL		19.6	19.8	15.8	19.0	18.8	97.9	99.0	25	140	79.0	94.8	25	

NOTES & DEFINITIONS:
LCS, MS & MSD spiked at 16.7 ug/kg LCS=LABORATORY CONTROL SAMPLE
SURROGATES spiked at 6.67 ug/kg MS=MATRIX SPIKE
NA = NOT APPLICABLE MSD=MATRIX SPIKE DUPLICATE
DL = DILUTED OUT
ND = NOT DETECTED
RDL=REPORTING DETECTION LIMIT

INSTRUMENT : HP 9
EXT'N DATE : 9/30/98 ANALYST : ECL
EXT'N BENCH SHT : V101P70 RUN DATE : 9/30/98
EXT'N WORK GRP : WG46788 ANAL WORK GRP : WG46843

SAMPLE ID : 09-522-01
BLK FLNM : 398.D
MS FLNM : 403.D
MS FLNM : 404.D
MSD FLNM : 405.D

COMPOUND	RDL	CONCENTRATION, ug/kg					% RECOVERY					PERCENT					MSD Sample LCS Blank	
		ug/kg					%					%						
		Blank	LCS	Sample	MS	MSD	Blank	LCS	LCS LCL	LCS UCL	Sample	MS	MSD	MS LCL	MS UCL	MS/MS D RPD		Advisory Limit	RPD
ALPHA-BHC	1.7	ND	12.2	ND	12.5	13.7	NA	72.8	37	134	NA	74.7	82.1	51	145	9.5	0.43	
GAMMA-BHC	1.7	ND	12.6	ND	12.4	13.0	NA	75.3	32	127	NA	74.3	77.8	54	134	4.5	0.18	
BETA-BHC	1.7	ND	12.4	ND	12.9	14.0	NA	74.3	17	147	NA	77.4	83.9	51	129	8.0	0.28	
HEPTACHLOR	1.7	ND	12.8	ND	13.1	14.2	NA	75.3	34	111	NA	78.6	84.8	40	139	7.5	0.37	
DELTA-BHC	1.7	ND	13.6	ND	14.1	15.3	NA	81.2	19	140	NA	84.4	91.5	56	138	8.1	0.78	
ALDRIN	1.7	ND	12.8	ND	13.4	14.6	NA	76.9	42	122	NA	80.1	87.6	26	143	8.9	0.38	
HEPTACHLOR EPOXIDE	1.7	ND	13.5	ND	14.0	15.5	NA	81.1	37	142	NA	83.9	92.9	51	135	10.2	0.40	
GAMMA-CHLORDANE	1.7	ND	NA	ND	NA	NA	NA	NA	45	119	NA	NA	NA	45	115	NA	0.40	
ALPHA-CHLORDANE	1.7	ND	NA	ND	NA	NA	NA	NA	54	119	NA	NA	NA	45	115	NA	0.17	
ENDOSULFAN I	1.7	ND	13.1	ND	13.54	14.8	NA	78.4	45	133	NA	81	88	37	123	8.7	0.22	
4,4-DDE	3.3	ND	14.4	ND	15.0	16.6	NA	86.3	30	145	NA	89.6	99.4	64	152	10.4	0.23	
DELDRIN	3.3	ND	14.8	ND	15.4	17.0	NA	88.4	38	146	NA	91.9	101.7	23	171	10.1	0.20	
ENDRIN	3.3	ND	14.5	ND	15.0	16.7	NA	86.7	30	147	NA	90	100	56	154	10.4	0.28	
4,4-DDD	3.3	ND	12.0	ND	12.05	13.6	NA	71.9	31	141	NA	72.1	81.4	56	179	12.1	0.30	
ENDOSULFAN II	3.3	ND	14.1	ND	14.5	15.9	NA	84.4	D	202	NA	86.6	95.4	21	117	9.7	0.18	
4,4-DDT	3.3	ND	13.9	ND	14.5	16.2	NA	83.3	25	160	NA	87.1	96.9	42	168	10.6	0.22	
ENDRIN ALDEHYDE	3.3	ND	10.7	ND	10.2	12.5	NA	64.2	NA	NA	NA	61.1	75.0	21	115	20.4	0.40	
ENDOSULFAN SULFATE	3.3	ND	9.81	ND	9.4	11.2	NA	57.5	26	144	NA	56.6	67.2	31	117	17.2	0.30	
METHOXYCHLOR	17	ND	14.9	ND	15.7	17.5	NA	89.5	NA	NA	NA	94.1	105.0	26	196	10.9	0.19	
ENDRIN KETONE	3.3	ND	11.9	ND	11.8	13.5	NA	71.2	NA	NA	NA	70.7	80.7	NA	NA	13.1		
Tech-CHLORDANE	33	ND	NA	ND	NA	NA	NA	NA	45	119	NA	NA	NA	45	115	NA	0.40	
TOXAPHENE	33	ND	NA	ND	NA	NA	NA	NA	41	126	NA	NA	NA	40	125	NA	0.40	
SURROGATES																		
2,4,5,6-TETRACHLORO-M-XYLENE		14.3	14.2	10.6	13.9	13.9	71.5	71.0	13	154	52.8	89.8	89.7	13	154			
DECACHLOROBIPHENYL		18.9	19.0	14.9	18.2	18.6	94.3	95.1	25	140	74.4	91.0	93.0	25	140			

NOTES & DEFINITIONS :
LCS, MS & MSD spiked at 16.7 ug/kg LCS=LABORATORY CONTROL SAMPLE
SURROGATES spiked at 6.67 ug/kg MS=MATRIX SPIKE
NA = NOT APPLICABLE MSD=MATRIX SPIKE DUPLICATE
DL = DILUTED OUT
ND = NOT DETECTED
RDL=REPORTING DETECTION LIMIT

CCS AND VALIDATION

Explanation of qualifiers (Q):

- U The analyte was analyzed for but not detected above the reported EQL
- J The analyte was positively identified, the associated numerical value is the approximate concentration of the analyte in the sample
 - J+ Likely has a high bias
 - J- Likely has a low bias
- UJ The analyte was analyzed for but not detected. The associated value is an estimate
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. Presence or absence cannot be verified.

Note: Any results qualified, as "R" should be looked at for relevance for data use. Thus, "R" implies "PM" also, and must not be used alone
- P Use professional judgement based on data use . It usually has an "M" with it, indicating that a manual check should be made if the data that is qualified with the "P" is important to the data user.

In addition, PM also means that a decision must be made by the project manager/delegee regarding the need for further review of the data. This review should include some consideration of potential impact that could result from using the P qualified data. (For example, in the case of holding time exceedance, the project manager/delegee can decide to use the data with no qualification when analytes of interest are known to not be adversely affected by holding time exceedances. Another example is the case where soil sample duplicate analyses for metals exceed the precision criteria. Since this is likely because of sample non-homogeneity rather than lab error, the manager/delegee must decide how to use the data.)

- PM Manual review of raw data is recommended to determine if the defect impacts data use, as in "R" above.

REASON CODES FOR VALIDATION QUALIFIERSVOLATILES (V)

- 0 The internal standard retention time has shifted by more than ± 30 seconds, which could affect compound identification and cause false positives or negatives.
- 1 The internal standard area count for the quantitating internal standard is outside the - 50, + 100 % window in relation to the previous continuing calibration, which could affect the accuracy of the quantitation of the associated analytes and the correct quantitation of surrogate recoveries.
- 1a Non-detected results, and the area count for the quantitating internal standard is < 50 % of the area count for the previous continuing calibration, which greatly increases the potential for false negative results.
- 2 Very low or abrupt drop-off of quantitating internal standard, which indicates an increased potential for false negative results and possibly other problems with sample quantitation.
- 3 SMC (surrogate) % recovery > upper limit, which indicates a potential high bias in the results and a potential for false positive results.
- 3a SMC % recovery < lower limit but > 10%, which indicates a potential low bias in the results.
- 3b SMC recovery < 10%, which indicates an increased potential for a low bias in the results.
- 3c Indicates that the quantitation limit is approximated for non-detects because of SMC recovery < lower limit but > 10%, which also indicates an increased potential for false negative results.
- 3d SMC % recovery < 10% and result is a non-detect, which indicates a greatly increased potential for false negative results.

- 4 Sample result > EQL and < 5X (10X for acetone, methylene chloride, and 2-butanone) the concentration of the related analyte in the blank, which indicates the reported detection is considered to be indistinguishable from blank contamination.
- 5 Sample result < EQL and < 5X (10X as above) the concentration of the analyte in the blank, which indicates the detected result was indistinguishable from blank contamination and the detected result was changed to non-detected at the EQL.
- 5a Sample result > EQL and > 5X (10X as above) the concentration of the analyte in the blank, which indicates the reported result is not likely to be related to the contamination in the associated blank.
- 6 Response factor for the analytes is <0.05, indicating a sensitivity problem that could prohibit detection if present at low concentrations.
- 7 % RSD or % D exceeds the specification, which may affect quantitation, which indicates potential quantitation problems in the analyses.
- 8 Instrument Performance Check has ion ratios out of specification, which may affect compound identification.
9. Holding time is exceeded. An evaluation of the data of interest with respect to holding time exceedance impact (technically) is recommended. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
10. The result is higher than the high point of the calibration (or outside the linear range). This usually results in a negative bias in the reported concentration.

SEMIVOLATILES (SV)

- 0 The internal standard retention time has shifted by more than ± 30 seconds, which could affect compound identification and cause false positives or negatives.
- 1 The internal standard area count for the quantitating internal standard is outside the $- 50, + 100$ % window in relation to the previous continuing calibration, which could affect the accuracy of the quantitation of the associated analytes and the correct quantitation of surrogate recoveries.
 - 1a Non-detected results, and the area count for the quantitating internal standard is < 50 % of the area count for the previous continuing calibration, which greatly increases the potential for false negative results
- 2 Very low or abrupt drop-off of quantitating internal standard, which indicates an increased potential for false negative results and possibly other problems with sample quantitation.
- 3 2 or more surrogates in either SV fraction have a % recovery $>$ upper limit, which indicates a potential high bias in the results and a potential for false positive results.
 - 3a 2 or more surrogates in either fraction have a % recovery $> 10\%$ but $<$ lower limit, which indicates a potential low bias in the results.
 - 3b A surrogate in the related fraction has a recovery of $< 10\%$, which indicates an increased potential low bias in the results.
 - 3c Result is a non-detect and 2 or more surrogates have a recovery of $> 10\%$ but $<$ the lower limit, which indicates an increased potential for false negative results.
 - 3d Result is a non-detect and a surrogate in the related fraction has a % recovery of $< 10\%$, which indicates a greatly increased potential for false negative results.
 - 3e Recovery of one surrogate in a fraction is $>$ the upper limit and one is $<$ the lower limit but $> 10\%$, which potential bias

in the results, however, the direction of the bias is uncertain.

- 4 Sample result > EQL and < 5X (10X for common phthalates) and < 5X the concentration of the related analyte in the blank, which indicates the reported detection is considered to be indistinguishable from blank contamination.
- 5 Sample result < EQL and < 5X (10X as above) the concentration of the analyte in the blank, which indicates the detected result was indistinguishable from blank contamination and the detected result was changed to non-detected at the EQL.
- 5a Sample result > EQL and > 5X (10X as above) the concentration of the analyte in the blank, which indicates the reported result is not likely to be related to the contamination in the associated blank.
- 6 Response factor for the analytes is <0.05, indicating a sensitivity problem that could prohibit detection if present at low concentrations
- 7 % RSD or % D exceeds the specification, which may affect quantitation, which indicates potential quantitation problems in the analyses.
8. Instrument Performance Check has "important" ion(s) or ion ratios out of specification, which may affect compound identification.
9. Holding time is exceeded. An evaluation of the data of interest with respect to holding time exceedance impact (technically) is recommended. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
- 10 The result is higher than the high point of the calibration (or outside the linear range). This usually results in a negative bias in the reported concentration.

- 3 Surrogate % recovery > upper limit, which indicates a potential high bias in the results and a potential for false positive results.
- 3a Surrogate % recovery is > 10% but < the lower limit, which indicates a potential low bias in the results.
- 3b Surrogate % recovery < 10%, which indicates an increased potential low bias in the results.
- 3c Result is non-detect and the surrogate % recovery > 10 % but < lower limit, which indicates a potential for false negative results.
- 3d Result is a non-detect and the surrogate recovery < 10%, which indicates a greatly increased potential for false negative results.
- 4 Sample result > EQL and < 5X the concentration of the related analyte in the blank, which indicates the reported detection is considered to be indistinguishable from blank contamination.
- 5 Sample result < EQL and < 5X (10X as above) the concentration of the analyte in the blank, which indicates the detected result was indistinguishable from blank contamination and the detected result was changed to non-detected at the EQL.
- 5a Sample result > EQL and > 5X (10X as above) the concentration of the analyte in the blank, which indicates the reported result is not likely to be related to the contamination in the associated blank.
- 6 % RSD or % D exceeds the specification - apply to a positive result, which indicates potential quantitation problems in the analyses and the potential for false positive results.
- 7 % RSD or %D exceeds the specification - apply to a non-detect, which indicates potential quantitation problems in the analyses and the potential false negative results.

8. Analyte concentration exceeds linear range and sample not diluted to within that range. This usually results in a negative bias in the reported concentration.
9. Holding time is exceeded. An evaluation of the data of interest with respect to holding time exceedance impact (technically) is recommended. Factors to consider include sample preservation, sample storage practices, use of the data, levels of contamination found in the sample, and the physical, chemical, and biological stability of the target analytes in the sample matrix.
10. Breakdown criteria have been exceeded, indicating poor instrument performance, which can result in a low bias in the reported results and potential false negative results for labile compounds and potential false positive results for breakdown products.
11. Surrogate retention time has shifted by > 0.05 minutes, possibly affecting analyte identification and causing false positives or negatives.

VOLATILES

<u>Instrument Performance Check</u>			NA	Obtain from lab. Q=A	
Present?	X yes	no			
<u>Initial calibration:</u>			NA	Obtain from lab. Q=A Analytes not meeting RRF or % RSD criteria should be circled on Initial Calibration Form	
Present?	X yes	no			
<u>Continuing Calibration</u>					
Present?	X yes	no		Obtain from lab. Q=A Analytes not meeting RRF or % D criteria should be circled on Continuing Calibration Form	

11/4/am99

<u>Internal Standards</u>	R See comment	<u>Check manually during baseline validation.</u>	
<p>Present? X yes no</p> <p>Required IS:</p> <p>chlorobenzene-d5 1,4-difluorobenzene 1,4-dichlorobenzene -d4</p> <p>RT must be < ± 30 sec. from previous continuing calibration</p> <p>Response area must not vary by > factor of 2 (+100, -50) from previous continuing calibration</p> <p><i>Fluorobenzene was substituted as the surrogate for 1,4-difluorobenzene.</i></p> <p><i>The internal standard area recoveries in sample RE15-98- 0029 are all less than 10%. All results are qualified as R.</i></p>		<p>Obtain from lab. Q=A</p> <p>If RT varies by > 30 seconds, qualify with PM, in which case focused validation checks the chromato-graphic profile for false + or -.</p> <p>If an IS area count is outside the -50 +100 % criterion, qualify positive results quantified by the IS with <u>J,PM</u></p> <p>Non-detects quantified by the IS as <u>UJ</u> if area count < 50 %</p> <p>Very low or abrupt drop-off, <u>R</u></p> <p>Enter % variation in FIMAD table</p>	<p><u>V1</u></p> <p><u>V1a</u></p> <p><u>V2</u></p>

174/Jan 99

System Monitoring Compounds (SMC) or surrogates	OK		
Present? X yes no		Obtain from lab. Q=A	
% recovery <u>Water</u>		If SMC % recovery > upper limit, detected target compounds are qualified with <u>J+</u>.	<u>V3</u>
Toluene-d8 88-110%			
BFB 86-115%			
Dibromofluoromethane 86-118%		For non-detects, not qualified	
% recovery <u>Soil</u>		If SMC has % recovery < lower limit but 3 10%, qualify detected compounds with <u>J-</u>	<u>V3a</u>
Toluene-d8 81-117%			
BFB 74-121		For detected compounds, same J- qualifier if recovery of SMC < 10%	<u>V3b</u>
Dibromofluoromethane 80-120			
		For non-detects, the quantitation limit is qualified as approximated, <u>UJ</u>, when SMC is $\geq 10\%$	<u>V3c</u>
		For non-detected analytes, if SMC recovery < 10%, reject <u>RPM</u>	<u>V3d</u>
		Do not qualify results for diluted samples based on SMC/ Surrogate recoveries	
		Enter % recovery in FIMAD table	

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<p><u>Method Blanks</u></p> <p>Present? X yes no</p> <p>Separate blank for each method, matrix and/or 12 hour batch</p> <p>Target compounds must be \leq EQL except acetone, methylene chloride, and 2-butanone which can be present at $\leq 5 \times$ EQL.</p>	OK	<p>Obtain from lab. Q=A</p> <p>If target compound found in blank but not in sample, no qualifier.</p> <p>Sample result $>$ EQL and $< 5 \times$ ($< 10 \times$ for noted exceptions) multiple of blank, elevate EQL to sample result and qualify as <u>U</u>.</p> <p>Sample result $<$ EQL and $< 5 \times$ ($< 10 \times$ for noted exceptions) multiple of blank, elevate sample results to EQL and qualify as <u>U</u>.</p> <p>Sample result $> 5 \times$ multiple, OK</p>	<p><u>V4</u></p> <p><u>V5</u></p>
<p><u>Holding time</u></p> <p>Analysis within 14 days of sample collection for soil and 7 days for water.</p>	OK	<p>Compare date of analysis with sampling date on Analytical Request</p> <p>Q=PM if not met</p>	
<p><u>TICs (if requested)</u></p> <p>Present yes no</p> <p><i>TICs were not requested.</i></p>	See comment		

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SEMIVOLATILES

<u>Instrument performance check (DFTPP)</u> Present? X yes no	NA	Obtain from lab. Q=A	
<u>Initial Calibration</u> Present? X yes no <u>Continuing calibration</u> Present? X yes no	NA	Obtain from lab. Q=A Analytes not meeting RRF or % RSD criteria should be circled on Initial Calibration Form Obtain from lab. Q=A Analytes not meeting RRF or % D criteria should be circled on Continuing Calibration Form	
<u>Internal Standards</u> Present? X yes no Required IS: 1,4-dichlorobenzene-d4 naphthalene -d8 acenaphthene-d10 phenanthrene-d10 chrysene-d12 perylene-d12 RT < 30 sec. for previous daily calibration Response area must not vary by > +100, -50% from previous daily calibration	OK	<u>Check manually during baseline validation</u> Obtain from lab. Q=A If RT varies by > 30 seconds, qualify with <u>PM</u> , in which case check the chromatographic profile for false + or -. If an IS area count is outside the -50 +100 % criterion, qualify positive results quantified by the IS with <u>J,PM</u> Non-detects quantified by the IS as <u>UJ</u> if area count < 50 % Very low or abrupt drop-off, <u>R</u> Enter % variation in FIMAD table	SV1 SV1a SV2

174/am 99

Surrogates:			OK		
Present?	X yes	no			
<u>% recovery</u>					
				Obtain from lab. Q=A	
				If 2 or more surrogates in either SV fraction have a recovery > UL, specify the fraction being qualified and qualify detected target compounds with <u>J+</u> and no qualifier for non-detects.	<u>SV3</u>
				If 2 or more surrogates in either fraction have a recovery \geq 10% but < LL, specify the fraction being qualified and qualify as <u>J-</u>.	<u>SV3a</u>
				Qualify non-detected target compounds as <u>U,J</u>.	<u>SV3c</u>
				If > 2 surrogates out in either fraction, one with a recovery > UL and one with a recovery \geq 10% but < LL, qualify as above.	<u>SV3e</u>
				If any surrogate in either fraction < 10% recovery, specify the fraction being qualified and qualify detected compounds as <u>J-</u>	<u>SV3b</u>
				and non-detects as <u>R, PM</u>.	<u>SV3d</u>
				Do not qualify results for diluted samples based on surrogate recoveries.	
				Enter % recovery in FIMAD table	

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<p><u>Method Blanks</u></p> <p>Present? X yes no</p> <p>1 for each method, matrix, and/or analytical batch.</p> <p>Target analytes \leq EQL except for common phthalates, which can be up to 5X EQL.</p>	OK	<p>Obtain from lab. Q=A</p> <p>If target compound found in blank but not in sample, no qualifier.</p> <p>Sample result > EQL and < 5 X (< 10x for noted exceptions) multiple of blank, elevate EQL to sample result and qualify as <u>U</u>.</p> <p>Sample result < EQL and < 5X (< 10x for noted exceptions) multiple of blank, elevate sample results to EQL and qualify as <u>U</u>.</p> <p>Sample result > 5X multiple, OK</p>	<p><u>SV4</u></p> <p><u>SV5</u></p>
<p><u>Holding time</u></p> <p>Extraction within 14 days of sample collection for soil and 7 days for water.</p> <p>Analysis within 40 days of extraction</p>	OK	<p>Compare date of extraction with sampling date on Analytical Request and date of analysis with date of extraction.</p> <p>Q=<u>PM</u></p>	
<p><u>TICs (if requested)</u></p> <p>Present yes no</p> <p><i>TICs were not requested.</i></p>	See comment		

11/4/Jan 99

**ORGANOCHLORINE
PESTICIDES/AROCLORS**

<p><u>Initial calibration:</u></p> <p>Present? X yes no</p> <p><u>Daily calibration verification</u></p> <p>Present? X yes no</p> <p>PCB's were analyzed on 10/1/98.</p>	<p>See comment</p>	<p>Obtain from lab. Q=A</p> <p>Obtain from lab. Q=A</p>	
<p><u>Surrogates:</u></p> <p>Present? X yes no</p> <p><u>% recovery</u></p> <p>Tetrachloro-m-xylene 50-160</p> <p>Decachlorobiphenyl 50-160</p> <p><i>The surrogate recoveries for the aroclors were not summarized but calculated from the raw data.</i></p> <p><i>The surrogate recoveries for TCX in the aroclor analysis of samples RE15-98-0036 and RE15-98-0037 are 48.2% and 49.6% respectively. All results are qualified as UJ.</i></p>	<p>UJ See comment</p>	<p>Obtain from lab. Q=A</p> <p>If either surrogate's % recovery is more than upper limit, detected target compounds are qualified with <u>J+</u>.</p> <p>If either surrogate's % recovery is $\geq 10\%$ but \leq lower limit, qualify detected compounds with <u>J-</u></p> <p>and non-detected target analytes as <u>UJ</u>.</p> <p>If either surrogate's % recovery $< 10\%$, qualify detected compounds as <u>J-</u></p> <p>and non-detects as <u>R</u>, <u>PM</u>.</p> <p>Enter % recovery in FIMAD table</p>	<p><u>P3</u></p> <p><u>P3a</u></p> <p><u>P3c</u></p> <p><u>P3b</u></p> <p><u>P3d</u></p>

11/4/99

<p><u>Retention Time Windows</u></p> <p>Present? X yes no</p> <p>Surrogates' retention time should not shift by ± 0.05 minutes.</p> <p><i>The retention time window for the surrogates was calculated from the Continuing Calibration reported on page 506.</i></p>	<p>OK See comment</p>	<p>Obtain from lab. Q=A</p> <p>If either of the surrogate's RT shifts $>\pm 0.05$ minutes, qualify the results as PM. (An examination of chromatographic peaks will be required to determine if target analytes are present).</p>	
<p><u>Method blanks</u></p> <p>Present? X yes no</p> <p>Separate for each method, matrix, and/or analytical batch</p> <p>Target analytes < EQL</p> <p><i>Kemron does not summarize the aroclor method blank results unless there is an analyte of interest detected in the method blank.</i></p>	<p>See comment</p>	<p>Obtain from lab. Q=A</p> <p>If target compound found in blank but not in sample, no qualifier.</p> <p>Sample result > EQL and < 5 X multiple of blank, elevate EQL to sample result and qualify as U.</p> <p>Sample result < EQL and < 5X multiple of blank, elevate sample results to EQL and qualify as U.</p> <p>Sample result > 5X multiple, OK</p>	<p>P4</p> <p>P5</p>
<p><u>Breakdown criteria</u></p> <p>Present? yes no</p> <p>$\leq 20\%$ for either 4,4'-DDT or endrin or 30% for combined breakdown.</p> <p><i>The breakdown for endrin is 22.14% in column DB17MS and the combined breakdown is 33.37% (See page 546). All Pesticide results are qualified as P.</i></p>	<p>P See comment</p>	<p>Obtain from lab. Q=A</p> <p>Q=P</p>	

11/4/99

<u>Holding time</u> Extraction within 14 days of sample collection for soil and 7 days for water Analyses within 40 days of extraction	OK	Compare date of extraction with sampling date on Analytical Request and date of analysis with date of extraction. <u>Q=PM</u>	
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174/ann 99

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L9809522-01
Client Sample ID: RE15-98-0029
Site/Work ID: 4659R/MR3R12082642

Matrix: Soil
Collected: 09/23/98 N/A
% Solid: 98
COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids	% wt.	98		1.0	1	N/A	DKM	10/15/98	13:50	D2216-90

Product: 8081LA - Pesticides & PCB's - LANL

Lab Sample ID: L9809522-01
Client Sample ID: RE15-98-0029
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

TCLP Extract Date: N/A

Extract Date: 09/30/98

Analysis Date: 09/30/98

Time: 10/1/98
SPEST
PCB's

% Solid: 98

Method: 8081A\3550B
Run ID: R53252
Batch: WG46843

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
319-84-6	alpha-BHC	ug/kg		ND	1.7	1
319-85-7	beta-BHC	ug/kg		ND	1.7	1
319-86-8	delta-BHC	ug/kg		ND	1.7	1
58-89-9	gamma-BHC (Lindane)	ug/kg		ND	1.7	1
76-44-8	Heptachlor	ug/kg		ND	1.7	1
309-00-2	Aldrin	ug/kg		ND	1.7	1
1024-57-3	Heptachlor epoxide	ug/kg		ND	1.7	1
959-98-8	Endosulfan I	ug/kg		ND	1.7	1
60-57-1	Dieldrin	ug/kg		ND	1.7	1
72-55-9	4,4'-DDE	ug/kg		ND	3.4	1
72-20-8	Endrin	ug/kg		ND	3.4	1
33213-65-9	Endosulfan II	ug/kg		ND	3.4	1
72-54-8	4,4'-DDD	ug/kg		ND	3.4	1
1031-07-8	Endosulfan sulfate	ug/kg		ND	3.4	1
50-29-3	4,4'-DDT	ug/kg		ND	3.4	1
72-43-5	Methoxychlor	ug/kg		ND	3.4	1
53494-70-5	Endrin ketone	ug/kg		ND	17	1
7421-93-4	Endrin aldehyde	ug/kg		ND	3.4	1
5103-71-9	alpha Chlordane	ug/kg		ND	0.34	1
5103-74-2	gamma Chlordane	ug/kg		ND	1.7	1
8001-35-2	Toxaphene	ug/kg		ND	1.7	1
12674-11-2	Aroclor-1016	ug/kg		ND	170	1
11104-28-2	Aroclor-1221	ug/kg		ND	34	1
11141-16-5	Aroclor-1232	ug/kg		ND	67	1
		ug/kg		ND	34	1

RL = Reporting Limit

M 4/Jan 99

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 8081LA - Pesticides & PCB's - LANL

Lab Sample ID: L9809522-01
Client Sample ID: RE15-98-0029
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

TCLP Extract Date: N/A
Extract Date: 09/30/98
Analysis Date: 09/30/98
Time:

% Solid: 98
Method: 8081A\3550B
Run ID: R53252
Batch : WG46843

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
53469-21-9	Aroclor-1242	ug/kg		ND	34	1
12672-29-6	Aroclor-1248	ug/kg		ND	34	1
11097-69-1	Aroclor-1254	ug/kg		ND	34	1
11096-82-5	Aroclor-1260	ug/kg		ND	34	1
SURROGATES- In Percent Recovery:						
	2,4,5,6-Tetrachloro-m-xylene		53.6 { Peak	(29 - 133%)		
	Decachlorobiphenyl		79.0 {	(30 - 173%)		
	TCX		50.1 100.7			
	DCB		59.2 PCB			

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-01
Client Sample ID: RE15-98-0029
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98
Time: 17:28

% Solid: 98
Method: 8270C
Run ID: R54614
Batch : WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
62-75-9	n-Nitrosodimethylamine	ug/kg		ND	340	1
62-53-3	Aniline	ug/kg		ND	670	1
108-95-2	Phenol	ug/kg		ND	340	1
111-44-4	bis(2-Chloroethyl) ether	ug/kg		ND	340	1
95-57-8	2-Chlorophenol	ug/kg		ND	340	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	340	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	340	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	340	1
95-48-7	2-Methylphenol	ug/kg		ND	340	1
106-44-5	4-Methylphenol	ug/kg		ND	340	1

RL = Reporting Limit

174/Jan 99

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-01
Client Sample ID: RE15-98-0029
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 17:28

% Solid: 98
Method: 8270C
Run ID: R54614
Batch : WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
621-64-7	n-Nitroso-di-n-propylamine	ug/kg		ND	340	1
67-72-1	Hexachloroethane	ug/kg		ND	340	1
98-95-3	Nitrobenzene	ug/kg		ND	340	1
78-59-1	Isophorone	ug/kg		ND	340	1
88-75-5	2-Nitrophenol	ug/kg		ND	340	1
105-67-9	2,4-Dimethylphenol	ug/kg		ND	340	1
65-85-0	Benzoic acid	ug/kg		ND	340	1
111-91-1	bis(2-Chloroethoxy)methane	ug/kg		ND	3400	1
120-83-2	2,4-Dichlorophenol	ug/kg		ND	340	1
120-82-1	1,2,4-Trichlorobenzene	ug/kg		ND	340	1
91-20-3	Naphthalene	ug/kg		ND	340	1
106-47-8	4-Chloroaniline	ug/kg		ND	340	1
87-68-3	Hexachlorobutadiene	ug/kg		ND	1300	1
59-50-7	4-Chloro-3-methylphenol	ug/kg		ND	340	1
91-57-6	2-Methylnaphthalene	ug/kg		ND	670	1
77-47-4	Hexachlorocyclopentadiene	ug/kg		ND	340	1
88-06-2	2,4,6-Trichlorophenol	ug/kg		ND	340	1
95-95-4	2,4,5-Trichlorophenol	ug/kg		ND	340	1
91-58-7	2-Chloronaphthalene	ug/kg		ND	1600	1
88-74-4	2-Nitroaniline	ug/kg		ND	340	1
131-11-3	Dimethylphthalate	ug/kg		ND	1600	1
208-96-8	Acenaphthylene	ug/kg		ND	340	1
99-09-2	3-Nitroaniline	ug/kg		ND	340	1
83-32-9	Acenaphthene	ug/kg		ND	1600	1
51-28-5	2,4-Dinitrophenol	ug/kg		ND	340	1
100-02-7	4-Nitrophenol	ug/kg		ND	1600	1
132-64-9	Dibenzofuran	ug/kg		ND	1600	1
121-14-2	2,4-Dinitrotoluene	ug/kg		ND	340	1
606-20-2	2,6-Dinitrotoluene	ug/kg		ND	340	1
84-66-2	Diethylphthalate	ug/kg		ND	340	1
7005-72-3	4-Chlorophenyl-phenyl ether	ug/kg		ND	340	1
86-73-7	Fluorene	ug/kg		ND	340	1
100-01-6	4-Nitroaniline	ug/kg		ND	340	1
534-52-1	4,6-Dinitro-2-methylphenol	ug/kg		ND	670	1
86-30-6	n-Nitrosodiphenylamine	ug/kg		ND	1600	1
103-33-3	Azobenzene	ug/kg		ND	340	1
101-55-3	4-Bromophenyl-phenylether	ug/kg		ND	670	1
118-74-1	Hexachlorobenzene	ug/kg		ND	340	1
87-86-5	Pentachlorophenol	ug/kg		ND	1600	1

RL = Reporting Limit

M 4 / an 99

Product: 827LAS - Semivolatiles Compounds

Lab Sample ID: L9809522-01
 Client Sample ID: RE15-98-0029
 Site/Work ID: 4659R/MR3R12082642
 Matrix: Soil

Dil. Type: N/A
 COC Info: N/A
 Date Collected: 09/23/98
 Instrument: HPMS7
 Analyst: MLS
 Lab File ID: 5988

Sample Weight: N/A
 Extract Volume: N/A
 % Solid: 98

TCLP Extract Date: N/A
 Extract Date: 09/29/98
 Analysis Date: 10/16/98
 Time: 17:28

Method: 8270C
 Run ID: R54614
 Batch : WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
85-01-8	Phenanthrene	ug/kg		ND	340	1
120-12-7	Anthracene	ug/kg		ND	340	1
84-74-2	Di-n-butylphthalate	ug/kg		ND	340	1
206-44-0	Fluoranthene	ug/kg		ND	340	1
129-00-0	Pyrene	ug/kg		ND	340	1
85-68-7	Butylbenzylphthalate	ug/kg		ND	340	1
91-94-1	3,3'-Dichlorobenzidine	ug/kg		ND	340	1
56-55-3	Benzo(a)anthracene	ug/kg		ND	670	1
117-81-7	bis(2-Ethylhexyl)phthalate	ug/kg		ND	340	1
218-01-9	Chrysene	ug/kg		ND	340	1
117-84-0	Di-n-octylphthalate	ug/kg		ND	340	1
205-99-2	Benzo(b)fluoranthene	ug/kg		ND	340	1
207-08-9	Benzo(k)fluoranthene	ug/kg		ND	340	1
50-32-8	Benzo(a)pyrene	ug/kg		ND	340	1
193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg		ND	340	1
53-70-3	Dibenzo(a,h)anthracene	ug/kg		ND	340	1
191-24-2	Benzo(g,h,i)Perylene	ug/kg		ND	340	1
100-51-6	Benzyl alcohol	ug/kg		ND	340	1
108-60-1	2,2'-Oxybis(1-chloropropane)	ug/kg		ND	1300	1
					340	1
SURROGATES- In Percent Recovery:						
	2,4,6-Tribromophenol	83.9	(19 - 122%)			
	2-Fluorobiphenyl	76.2	(30 - 115%)			
	2-Fluorophenol	58.0	(25 - 121%)			
	Nitrobenzene-d5	65.3	(23 - 120%)			
	Phenol-d5	66.4	(24 - 113%)			
	p-Terphenyl-d14	109	(18 - 137%)			

RL = Reporting Limit

M74/ann 99

Product: 826LA - Volatile Organics

Lab Sample ID: L9809522-01
Client Sample ID: RE15-98-0029
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 10/01/98 Time: 20:01

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 98

Instrument: HPMS6

Analyst: CMS

Lab File ID: 6LA10327

Method: 8260B
Run ID: R53363
Batch : WG46934

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
75-71-8	Dichlorodifluoromethane	ug/kg	(R, V2)	ND (R, PM, V2)	10	1
74-87-3	Chloromethane	ug/kg		ND	10	1
75-01-4	Vinyl chloride	ug/kg		ND	10	1
74-83-9	Bromomethane	ug/kg		ND	10	1
75-00-3	Chloroethane	ug/kg		ND	10	1
75-69-4	Trichlorofluoromethane	ug/kg		ND	10	1
75-35-4	1,1-Dichloroethene	ug/kg		ND	5.1	1
74-88-4	Iodomethane	ug/kg		ND	5.1	1
75-15-0	Carbon disulfide	ug/kg		ND	5.1	1
67-64-1	Acetone	ug/kg		ND	5.1	1
75-09-2	Methylene chloride	ug/kg		ND	20	1
156-60-5	trans-1,2-Dichloroethene	ug/kg		ND	5.1	1
75-34-3	1,1-Dichloroethane	ug/kg		ND	10	1
594-20-7	2,2-Dichloropropane	ug/kg		ND	5.1	1
156-59-2	cis-1,2-Dichloroethene	ug/kg		ND	5.1	1
78-93-3	2-Butanone	ug/kg		ND	10	1
74-97-5	Bromochloromethane	ug/kg		ND	20	1
67-66-3	Chloroform	ug/kg		ND	5.1	1
71-55-6	1,1,1-Trichloroethane	ug/kg		ND	5.1	1
56-23-5	Carbon tetrachloride	ug/kg		ND	5.1	1
563-58-6	1,1-Dichloropropene	ug/kg		ND	5.1	1
71-43-2	Benzene	ug/kg		ND	5.1	1
107-06-2	1,2-Dichloroethane	ug/kg		ND	5.1	1
79-01-6	Trichloroethene	ug/kg		ND	5.1	1
78-87-5	1,2-Dichloropropane	ug/kg		ND	5.1	1
74-95-3	Dibromomethane	ug/kg		ND	5.1	1
75-27-4	Bromodichloromethane	ug/kg		ND	5.1	1
10061-02-6	trans-1,3-Dichloropropene	ug/kg		ND	5.1	1
108-10-1	4-Methyl-2-pentanone	ug/kg		ND	5.1	1
108-88-3	Toluene	ug/kg		ND	5.1	1
10061-01-5	cis-1,3-Dichloropropene	ug/kg		ND	20	1
79-00-5	1,1,2-Trichloroethane	ug/kg		ND	5.1	1
127-18-4	Tetrachloroethene	ug/kg		ND	5.1	1
142-28-9	1,3-Dichloropropane	ug/kg		ND	5.1	1
124-48-1	Dibromochloromethane	ug/kg		ND	5.1	1
591-78-6	2-Hexanone	ug/kg		ND	5.1	1
106-93-4	1,2-Dibromoethane	ug/kg		ND	5.1	1
108-90-7	Chlorobenzene	ug/kg		ND	20	1
630-20-6	1,1,1,2-Tetrachloroethane	ug/kg		ND	5.1	1

RL = Reporting Limit

A7 4/am 99

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826LA - Volatile Organics

Lab Sample ID: L9809522-01
Client Sample ID: RH15-98-0029
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 10/01/98 Time: 20:01

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 98

Method: 8260B
Run ID: R53363
Batch : WG46934

Instrument: HPMS6
Analyst: CMS
Lab File ID: 6LA10327

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethyl benzene.....	ug/kg	(R, V2)	ND (RPM, V2)	5.1	1
1330-20-7	Xylenes (total).....	ug/kg		ND	5.1	1
100-42-5	Styrene.....	ug/kg		ND	5.1	1
75-25-2	Bromoform.....	ug/kg		ND	5.1	1
98-82-8	Isopropylbenzene.....	ug/kg		ND	5.1	1
108-86-1	Bromobenzene.....	ug/kg		ND	5.1	1
96-18-4	1,2,3-Trichloropropane.....	ug/kg		ND	5.1	1
79-34-5	1,1,2,2-Tetrachloroethane.....	ug/kg		ND	5.1	1
103-65-1	n-Propylbenzene.....	ug/kg		ND	5.1	1
95-49-8	2-Chlorotoluene.....	ug/kg		ND	5.1	1
106-43-4	4-Chlorotoluene.....	ug/kg		ND	5.1	1
108-67-8	1,3,5-Trimethylbenzene.....	ug/kg		ND	5.1	1
98-06-6	tert-Butylbenzene.....	ug/kg		ND	5.1	1
95-63-6	1,2,4-Trimethylbenzene.....	ug/kg		ND	5.1	1
135-98-8	sec-Butylbenzene.....	ug/kg		ND	5.1	1
541-73-1	1,3-Dichlorobenzene.....	ug/kg		ND	5.1	1
106-46-7	1,4-Dichlorobenzene.....	ug/kg		ND	5.1	1
99-87-6	p-Isopropyltoluene.....	ug/kg		ND	5.1	1
95-50-1	1,2-Dichlorobenzene.....	ug/kg		ND	5.1	1
104-51-8	n-Butylbenzene.....	ug/kg		ND	5.1	1
96-12-8	1,2-Dibromo-3-chloropropane.....	ug/kg		ND	5.1	1
76-13-1	Trichlorotrifluoroethane.....	ug/kg		ND	10	1
					5.1	1
SURROGATES- In Percent Recovery:						
	Toluene-d8.....	95.1		(81 - 117%)		
	p-Bromofluorobenzene.....	85.3		(74 - 121%)		
	Dibromofluoromethane.....	98.3		(80 - 120%)		
	1,2-Dichloroethane-d4.....	103		(80 - 120%)		

RL = Reporting Limit

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Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L9809522-02
Client Sample ID: RE15-98-0030
Site/Work ID: 4659R/MR3R12082642

Matrix: Soil
Collected: 09/23/98 N/A
% Solid: 92
COC Info: N/A

Analyte	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	92		1.0	1	N/A	DKM	10/15/98	13:50	D2216-90

Product: 8081LA - Pesticides & PCB's - LANL

Lab Sample ID: L9809522-02
Client Sample ID: RE15-98-0030
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

TCLP Extract Date: N/A
Extract Date: 09/30/98
Analysis Date: 09/30/98
Time: 3 PEST
10/1/98
PCB

Date Collected: 09/23/98

Instrument: HP9
Analyst: ECL
Lab File ID: 406.D
Method: 8081A\3550B
Run ID: R53252
Batch: WG46843

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
319-84-6	alpha-BHC.....	ug/kg		ND	1.8	1
319-85-7	beta-BHC.....	ug/kg		ND	1.8	1
319-86-8	delta-BHC.....	ug/kg		ND	1.8	1
58-89-9	gamma-BHC (Lindane)	ug/kg		ND	1.8	1
76-44-8	Heptachlor.....	ug/kg		ND	1.8	1
309-00-2	Aldrin.....	ug/kg		ND	1.8	1
1024-57-3	Heptachlor epoxide.....	ug/kg		ND	1.8	1
959-98-8	Endosulfan I.....	ug/kg		ND	1.8	1
60-57-1	Dieldrin.....	ug/kg		ND	1.8	1
72-55-9	4,4'-DDE.....	ug/kg		ND	3.6	1
72-20-8	Endrin.....	ug/kg		ND	3.6	1
33213-65-9	Endosulfan II.....	ug/kg		ND	3.6	1
72-54-8	4,4'-DDD.....	ug/kg		ND	3.6	1
1031-07-8	Endosulfan sulfate.....	ug/kg		ND	3.6	1
50-29-3	4,4'-DDT.....	ug/kg		ND	3.6	1
72-43-5	Methoxychlor.....	ug/kg		ND	3.6	1
53494-70-5	Endrin ketone.....	ug/kg		ND	18	1
7421-93-4	Endrin aldehyde.....	ug/kg		ND	3.6	1
5103-71-9	alpha Chlordane.....	ug/kg		ND	0.36	1
5103-74-2	gamma Chlordane.....	ug/kg		ND	1.8	1
8001-35-2	Toxaphene.....	ug/kg		ND	1.8	1
12674-11-2	Aroclor-1016.....	ug/kg		ND	180	1
11104-28-2	Aroclor-1221.....	ug/kg		ND	36	1
11141-16-5	Aroclor-1232.....	ug/kg		ND	72	1
				ND	36	1

RL = Reporting Limit

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Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 8081LA - Pesticides & PCB's - LANL

Lab Sample ID: L9809522-02
Client Sample ID: RE15-98-0030
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HP9
Analyst: ECL
Lab File ID: 406.D

Sample Weight: N/A
Extract Volume: N/A
% Solid: 92
Method: 8081A\3550B
Run ID: R53252
Batch: WG46843

TCLP Extract Date: N/A
Extract Date: 09/30/98
Analysis Date: 09/30/98
Time: } PEST
10/1/98 PCB

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
53469-21-9	Aroclor-1242	ug/kg		ND	36	1
12672-29-6	Aroclor-1248	ug/kg		ND	36	1
11097-69-1	Aroclor-1254	ug/kg		ND	36	1
11096-82-5	Aroclor-1260	ug/kg		ND	36	1
SURROGATES- In Percent Recovery:						
	2,4,5,6-Tetrachloro-m-xylene		71.6% } PEST	(29 - 133%)		
	Decachlorobiphenyl		95.6% }	(30 - 173%)		
	TCX		50.7 } 66.7% } PCB			
	DCB		71.8% }			

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-02
Client Sample ID: RE15-98-0030
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HPMS7
Analyst: MLS
Lab File ID: 5989

Sample Weight: N/A
Extract Volume: N/A
% Solid: 92
Method: 8270C
Run ID: R54614
Batch: WG47900

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98
Time: 18:06

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
62-75-9	n-Nitrosodimethylamine	ug/kg		ND	360	1
62-53-3	Aniline	ug/kg		ND	720	1
108-95-2	Phenol	ug/kg		ND	360	1
111-44-4	bis(2-Chloroethyl) ether	ug/kg		ND	360	1
95-57-8	2-Chlorophenol	ug/kg		ND	360	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	360	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	360	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	360	1
95-48-7	2-Methylphenol	ug/kg		ND	360	1
106-44-5	4-Methylphenol	ug/kg		ND	360	1

RL = Reporting Limit

M 4 / an 99

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-02
Client Sample ID: RE15-98-0030
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 18:06

% Solid: 92
Method: 8270C
Run ID: R54614
Batch : WG47900

Instrument: HPMS7
Analyst: MLS
Lab File ID: 5989

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
621-64-7	n-Nitroso-di-n-propylamine.....	ug/kg		ND	360	1
67-72-1	Hexachloroethane.....	ug/kg		ND	360	1
98-95-3	Nitrobenzene.....	ug/kg		ND	360	1
78-59-1	Isophorone.....	ug/kg		ND	360	1
88-75-5	2-Nitrophenol.....	ug/kg		ND	360	1
105-67-9	2,4-Dimethylphenol.....	ug/kg		ND	360	1
65-85-0	Benzoic acid.....	ug/kg		ND	360	1
111-91-1	bis(2-Chloroethoxy)methane.....	ug/kg		ND	3600	1
120-83-2	2,4-Dichlorophenol.....	ug/kg		ND	360	1
120-82-1	1,2,4-Trichlorobenzene.....	ug/kg		ND	360	1
91-20-3	Naphthalene.....	ug/kg		ND	360	1
106-47-8	4-Chloroaniline.....	ug/kg		ND	360	1
87-68-3	Hexachlorobutadiene.....	ug/kg		ND	1400	1
59-50-7	4-Chloro-3-methylphenol.....	ug/kg		ND	360	1
91-57-6	2-Methylnaphthalene.....	ug/kg		ND	720	1
77-47-4	Hexachlorocyclopentadiene.....	ug/kg		ND	360	1
88-06-2	2,4,6-Trichlorophenol.....	ug/kg		ND	360	1
95-95-4	2,4,5-Trichlorophenol.....	ug/kg		ND	360	1
91-58-7	2-Chloronaphthalene.....	ug/kg		ND	1700	1
88-74-4	2-Nitroaniline.....	ug/kg		ND	360	1
131-11-3	Dimethylphthalate.....	ug/kg		ND	1700	1
208-96-8	Acenaphthylene.....	ug/kg		ND	360	1
99-09-2	3-Nitroaniline.....	ug/kg		ND	360	1
83-32-9	Acenaphthene.....	ug/kg		ND	1700	1
51-28-5	2,4-Dinitrophenol.....	ug/kg		ND	360	1
100-02-7	4-Nitrophenol.....	ug/kg		ND	1700	1
132-64-9	Dibenzofuran.....	ug/kg		ND	1700	1
121-14-2	2,4-Dinitrotoluene.....	ug/kg		ND	360	1
606-20-2	2,6-Dinitrotoluene.....	ug/kg		ND	360	1
84-66-2	Diethylphthalate.....	ug/kg		ND	360	1
7005-72-3	4-Chlorophenyl-phenyl ether.....	ug/kg		ND	360	1
86-73-7	Fluorene.....	ug/kg		ND	360	1
100-01-6	4-Nitroaniline.....	ug/kg		ND	360	1
534-52-1	4,6-Dinitro-2-methylphenol.....	ug/kg		ND	720	1
86-30-6	n-Nitrosodiphenylamine.....	ug/kg		ND	1700	1
103-33-3	Azobenzene.....	ug/kg		ND	360	1
101-55-3	4-Bromophenyl-phenylether.....	ug/kg		ND	720	1
118-74-1	Hexachlorobenzene.....	ug/kg		ND	360	1
87-86-5	Pentachlorophenol.....	ug/kg		ND	1700	1

RL = Reporting Limit

M74/Jan 99

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-02
Client Sample ID: RE15-98-0030
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 92
Method: 8270C
Run ID: R54614
Batch : WG47900

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 18:06

Instrument: HPMS7
Analyst: MLS
Lab File ID: 5989

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
85-01-8	Phenanthrene	ug/kg		ND	360	1
120-12-7	Anthracene	ug/kg		ND	360	1
84-74-2	Di-n-butylphthalate	ug/kg		ND	360	1
206-44-0	Fluoranthene	ug/kg		ND	360	1
129-00-0	Pyrene	ug/kg		ND	360	1
85-68-7	Butylbenzylphthalate	ug/kg		ND	360	1
91-94-1	3,3'-Dichlorobenzidine	ug/kg		ND	360	1
56-55-3	Benzo(a)anthracene	ug/kg		ND	720	1
117-81-7	bis(2-Ethylhexyl)phthalate	ug/kg		ND	360	1
218-01-9	Chrysene	ug/kg		ND	360	1
117-84-0	Di-n-octylphthalate	ug/kg		ND	360	1
205-99-2	Benzo(b)fluoranthene	ug/kg		ND	360	1
207-08-9	Benzo(k)fluoranthene	ug/kg		ND	360	1
50-32-8	Benzo(a)pyrene	ug/kg		ND	360	1
193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg		ND	360	1
53-70-3	Dibenzo(a,h)anthracene	ug/kg		ND	360	1
191-24-2	Benzo(g,h,i)Perylene	ug/kg		ND	360	1
100-51-6	Benzyl alcohol	ug/kg		ND	360	1
108-60-1	2,2'-Oxybis(1-chloropropane)	ug/kg		ND	1400	1
SURROGATES- In Percent Recovery:						
	2,4,6-Tribromophenol	57.4	(19 - 122%)			
	2-Fluorobiphenyl	51.1	(30 - 115%)			
	2-Fluorophenol	43.1	(25 - 121%)			
	Nitrobenzene-d5	47.5	(23 - 120%)			
	Phenol-d5	46.8	(24 - 113%)			
	p-Terphenyl-d14	84.9	(18 - 137%)			

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Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826LA - Volatile Organics

Lab Sample ID: L9809522-02
Client Sample ID: RE15-98-0030
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 10/01/98 Time: 07:11

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 92

Instrument: HPMS6
Analyst: CMS
Lab File ID: 6LA10304

Method: 8260B
Run ID: R53362
Batch: WG46889

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
75-71-8	Dichlorodifluoromethane.....	ug/kg		ND	11	1
74-87-3	Chloromethane.....	ug/kg		ND	11	1
75-01-4	Vinyl chloride.....	ug/kg		ND	11	1
74-83-9	Bromomethane.....	ug/kg		ND	11	1
75-00-3	Chloroethane.....	ug/kg		ND	11	1
75-69-4	Trichlorofluoromethane.....	ug/kg		ND	11	1
75-35-4	1,1-Dichloroethene.....	ug/kg		ND	5.4	1
74-88-4	Iodomethane.....	ug/kg		ND	5.4	1
75-15-0	Carbon disulfide.....	ug/kg		ND	5.4	1
67-64-1	Acetone.....	ug/kg		ND	5.4	1
75-09-2	Methylene chloride.....	ug/kg		ND	22	1
156-60-5	trans-1,2-Dichloroethene.....	ug/kg		ND	5.4	1
75-34-3	1,1-Dichloroethane.....	ug/kg		ND	11	1
594-20-7	2,2-Dichloropropane.....	ug/kg		ND	5.4	1
156-59-2	cis-1,2-Dichloroethene.....	ug/kg		ND	5.4	1
78-93-3	2-Butanone.....	ug/kg		ND	11	1
74-97-5	Bromochloromethane.....	ug/kg		ND	22	1
67-66-3	Chloroform.....	ug/kg		ND	5.4	1
71-55-6	1,1,1-Trichloroethane.....	ug/kg		ND	5.4	1
56-23-5	Carbon tetrachloride.....	ug/kg		ND	5.4	1
563-58-6	1,1-Dichloropropene.....	ug/kg		ND	5.4	1
71-43-2	Benzene.....	ug/kg		ND	5.4	1
107-06-2	1,2-Dichloroethane.....	ug/kg		ND	5.4	1
79-01-6	Trichloroethene.....	ug/kg		ND	5.4	1
78-87-5	1,2-Dichloropropane.....	ug/kg		ND	5.4	1
74-95-3	Dibromomethane.....	ug/kg		ND	5.4	1
75-27-4	Bromodichloromethane.....	ug/kg		ND	5.4	1
10061-02-6	trans-1,3-Dichloropropene.....	ug/kg		ND	5.4	1
108-10-1	4-Methyl-2-pentanone.....	ug/kg		ND	5.4	1
108-88-3	Toluene.....	ug/kg		ND	5.4	1
10061-01-5	cis-1,3-Dichloropropene.....	ug/kg		ND	22	1
79-00-5	1,1,2-Trichloroethane.....	ug/kg		ND	5.4	1
127-18-4	Tetrachloroethene.....	ug/kg		ND	5.4	1
142-28-9	1,3-Dichloropropane.....	ug/kg		ND	5.4	1
124-48-1	Dibromochloromethane.....	ug/kg		ND	5.4	1
591-78-6	2-Hexanone.....	ug/kg		ND	5.4	1
106-93-4	1,2-Dibromoethane.....	ug/kg		ND	22	1
108-90-7	Chlorobenzene.....	ug/kg		ND	5.4	1
630-20-6	1,1,1,2-Tetrachloroethane.....	ug/kg		ND	5.4	1

RL = Reporting Limit

M74/Jan 99

KEMRON ENVIRONMENTAL SERVICES

Product: 826LA - Volatile Organics

Lab Sample ID: L9809522-02
Client Sample ID: RE15-98-0030
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 10/01/98 Time: 07:11
Date Collected: 09/23/98
Instrument: HPMS6
Analyst: CMS
Lab File ID: 6LA10304
% Solid: 92
Method: 8260B
Run ID: R53362
Batch: WG46889

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethyl benzene	ug/kg		ND	5.4	1
1330-20-7	Xylenes (total)	ug/kg		ND	5.4	1
100-42-5	Styrene	ug/kg		ND	5.4	1
75-25-2	Bromoform	ug/kg		ND	5.4	1
98-82-8	Isopropylbenzene	ug/kg		ND	5.4	1
108-86-1	Bromobenzene	ug/kg		ND	5.4	1
96-18-4	1,2,3-Trichloropropane	ug/kg		ND	5.4	1
79-34-5	1,1,2,2-Tetrachloroethane	ug/kg		ND	5.4	1
103-65-1	n-Propylbenzene	ug/kg		ND	5.4	1
95-49-8	2-Chlorotoluene	ug/kg		ND	5.4	1
106-43-4	4-Chlorotoluene	ug/kg		ND	5.4	1
108-67-8	1,3,5-Trimethylbenzene	ug/kg		ND	5.4	1
98-06-6	tert-Butylbenzene	ug/kg		ND	5.4	1
95-63-6	1,2,4-Trimethylbenzene	ug/kg		ND	5.4	1
135-98-8	sec-Butylbenzene	ug/kg		ND	5.4	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	5.4	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	5.4	1
99-87-6	p-Isopropyltoluene	ug/kg		ND	5.4	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	5.4	1
104-51-8	n-Butylbenzene	ug/kg		ND	5.4	1
96-12-8	1,2-Dibromo-3-chloropropane	ug/kg		ND	5.4	1
76-13-1	Trichlorotrifluoroethane	ug/kg		ND	11	1
					5.4	1
SURROGATES- In Percent Recovery:						
	Toluene-d8	92.5	(81 - 117%)			
	p-Bromofluorobenzene	80.6	(74 - 121%)			
	Dibromofluoromethane	97.1	(80 - 120%)			
	1,2-Dichloroethane-d4	101	(80 - 120%)			

RL = Reporting Limit

M 4/Jan 99

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L9809522-03
Client Sample ID: RE15-98-0031
Site/Work ID: 4659R/MR3R12082642

Matrix: Soil
Collected: 09/23/98 N/A
% Solid: 93
COC Info: N/A

Analyte	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	93		1.0	1	N/A	DKM	10/15/98	13:50	D2216-90

Product: 80811A - Pesticides & PCB's - LANL

Lab Sample ID: L9809522-03
Client Sample ID: RE15-98-0031
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

TCLP Extract Date: N/A
Extract Date: 09/30/98
Analysis Date: 09/30/98

Time: 3 PEST
10/1/98 PCB

Date Collected: 09/23/98

Instrument: HP9
Analyst: ECL
Lab File ID: 407.D
Method: 8081A\3550B
Run ID: R53252
Batch : WG46843

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
319-84-6	alpha-BHC.....	ug/kg		ND	1.8	1
319-85-7	beta-BHC.....	ug/kg		ND	1.8	1
319-86-8	delta-BHC.....	ug/kg		ND	1.8	1
58-89-9	gamma-BHC (Lindane).....	ug/kg		ND	1.8	1
76-44-8	Heptachlor.....	ug/kg		ND	1.8	1
309-00-2	Aldrin.....	ug/kg		ND	1.8	1
1024-57-3	Heptachlor epoxide.....	ug/kg		ND	1.8	1
959-98-8	Endosulfan I.....	ug/kg		ND	1.8	1
60-57-1	Dielsin.....	ug/kg		ND	1.8	1
72-55-9	4,4'-DDE.....	ug/kg		ND	3.5	1
72-20-8	Endrin.....	ug/kg		ND	3.5	1
33213-65-9	Endosulfan II.....	ug/kg		ND	3.5	1
72-54-8	4,4'-DDD.....	ug/kg		ND	3.5	1
1031-07-8	Endosulfan sulfate.....	ug/kg		ND	3.5	1
50-29-3	4,4'-DDT.....	ug/kg		ND	3.5	1
72-43-5	Methoxychlor.....	ug/kg		ND	18	1
53494-70-5	Endrin ketone.....	ug/kg		ND	3.5	1
7421-93-4	Endrin aldehyde.....	ug/kg		ND	0.35	1
5103-71-9	alpha Chlordane.....	ug/kg		ND	1.8	1
5103-74-2	gamma Chlordane.....	ug/kg		ND	1.8	1
8001-35-2	Toxaphene.....	ug/kg		ND	1.8	1
12674-11-2	Aroclor-1016.....	ug/kg		ND	180	1
11104-28-2	Aroclor-1221.....	ug/kg		ND	35	1
11141-16-5	Aroclor-1232.....	ug/kg		ND	71	1
				ND	35	1

RL = Reporting Limit

M 4/Jan 99

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 80811A - Pesticides & PCB's - LANL

Lab Sample ID: L9809522-03
Client Sample ID: RE15-98-0031
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

TCLP Extract Date: N/A
Extract Date: 09/30/98
Analysis Date: 09/30/98
Time:
Instrument: HP9
Analyst: ECL
Lab File ID: 407.D
% Solid: 93
Method: 8081A\3550B
Run ID: R53252
Batch: WG46843

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
53469-21-9	Aroclor-1242	ug/kg		ND	35	1
12672-29-6	Aroclor-1248	ug/kg		ND	35	1
11097-69-1	Aroclor-1254	ug/kg		ND	35	1
11096-82-5	Aroclor-1260	ug/kg		ND	35	1
SURROGATES- In Percent Recovery:						
	2,4,5,6-Tetrachloro-m-xylene		73.0 } PEAT	(29 - 133%)		
	Decachlorobiphenyl		96.4 }	(30 - 173%)		
	TCX		67.9 }			
	PCB		72.6 }			

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-03
Client Sample ID: RE15-98-0031
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98
Time: 18:44
Instrument: HPMS7
Analyst: MLS
Lab File ID: 5990
% Solid: 93
Method: 8270C
Run ID: R54614
Batch: WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
62-75-9	n-Nitrosodimethylamine	ug/kg		ND	350	1
62-53-3	Aniline	ug/kg		ND	710	1
108-95-2	Phenol	ug/kg		ND	350	1
111-44-4	bis(2-Chloroethyl) ether	ug/kg		ND	350	1
95-57-8	2-Chlorophenol	ug/kg		ND	350	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	350	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	350	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	350	1
95-48-7	2-Methylphenol	ug/kg		ND	350	1
106-44-5	4-Methylphenol	ug/kg		ND	350	1

RL = Reporting Limit

A74/am99

Product: 827LAS - Semivolatle Compounds

Lab Sample ID: L9809522-03
Client Sample ID: RE15-98-0031
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HPMS7
Analyst: MLS
Lab File ID: 5990

Sample Weight: N/A
Extract Volume: N/A
% Solid: 93
Method: 8270C
Run ID: R54614
Batch : WG47900

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98
Time: 18:44

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
621-64-7	n-Nitroso-di-n-propylamine	ug/kg		ND	350	1
67-72-1	Hexachloroethane	ug/kg		ND	350	1
98-95-3	Nitrobenzene	ug/kg		ND	350	1
78-59-1	Isophorone	ug/kg		ND	350	1
88-75-5	2-Nitrophenol	ug/kg		ND	350	1
105-67-9	2,4-Dimethylphenol	ug/kg		ND	350	1
65-85-0	Benzoic acid	ug/kg		ND	350	1
111-91-1	bis(2-Chloroethoxy)methane	ug/kg		ND	3500	1
120-83-2	2,4-Dichlorophenol	ug/kg		ND	350	1
120-82-1	1,2,4-Trichlorobenzene	ug/kg		ND	350	1
91-20-3	Naphthalene	ug/kg		ND	350	1
106-47-8	4-Chloroaniline	ug/kg		ND	350	1
87-68-3	Hexachlorobutadiene	ug/kg		ND	1400	1
59-50-7	4-Chloro-3-methylphenol	ug/kg		ND	350	1
91-57-6	2-Methylnaphthalene	ug/kg		ND	710	1
77-47-4	Hexachlorocyclopentadiene	ug/kg		ND	350	1
88-06-2	2,4,6-Trichlorophenol	ug/kg		ND	350	1
95-95-4	2,4,5-Trichlorophenol	ug/kg		ND	350	1
91-58-7	2-Chloronaphthalene	ug/kg		ND	1700	1
88-74-4	2-Nitroaniline	ug/kg		ND	350	1
131-11-3	Dimethylphthalate	ug/kg		ND	1700	1
208-96-8	Acenaphthylene	ug/kg		ND	350	1
99-09-2	3-Nitroaniline	ug/kg		ND	350	1
83-32-9	Acenaphthene	ug/kg		ND	1700	1
51-28-5	2,4-Dinitrophenol	ug/kg		ND	350	1
100-02-7	4-Nitrophenol	ug/kg		ND	1700	1
132-64-9	Dibenzofuran	ug/kg		ND	1700	1
121-14-2	2,4-Dinitrotoluene	ug/kg		ND	350	1
606-20-2	2,6-Dinitrotoluene	ug/kg		ND	350	1
84-66-2	Diethylphthalate	ug/kg		ND	350	1
7005-72-3	4-Chlorophenyl-phenyl ether	ug/kg		ND	350	1
86-73-7	Fluorene	ug/kg		ND	350	1
100-01-6	4-Nitroaniline	ug/kg		ND	350	1
534-52-1	4,6-Dinitro-2-methylphenol	ug/kg		ND	710	1
86-30-6	n-Nitrosodiphenylamine	ug/kg		ND	1700	1
103-33-3	Azobenzene	ug/kg		ND	350	1
101-55-3	4-Bromophenyl-phenylether	ug/kg		ND	710	1
118-74-1	Hexachlorobenzene	ug/kg		ND	350	1
87-86-5	Pentachlorophenol	ug/kg		ND	1700	1

RL = Reporting Limit

M 4/Jan 99

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-03
Client Sample ID: RE15-98-0031
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98
Time: 18:44

Date Collected: 09/23/98

% Solid: 93

Instrument: HPMS7
Analyst: MLS
Lab File ID: 5990
Method: 8270C
Run ID: R54614
Batch: WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
85-01-8	Phenanthrene	ug/kg		ND	350	1
120-12-7	Anthracene	ug/kg		ND	350	1
84-74-2	Di-n-butylphthalate	ug/kg		ND	350	1
206-44-0	Fluoranthene	ug/kg		ND	350	1
129-00-0	Pyrene	ug/kg		ND	350	1
85-68-7	Butylbenzylphthalate	ug/kg		ND	350	1
91-94-1	3,3'-Dichlorobenzidine	ug/kg		ND	350	1
56-55-3	Benzo(a)anthracene	ug/kg		ND	710	1
117-81-7	bis(2-Ethylhexyl)phthalate	ug/kg		ND	350	1
218-01-9	Chrysene	ug/kg		ND	350	1
117-84-0	Di-n-octylphthalate	ug/kg		ND	350	1
205-99-2	Benzo(b)fluoranthene	ug/kg		ND	350	1
207-08-9	Benzo(k)fluoranthene	ug/kg		ND	350	1
50-32-8	Benzo(a)pyrene	ug/kg		ND	350	1
193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg		ND	350	1
53-70-3	Dibenzo(a,h)anthracene	ug/kg		ND	350	1
191-24-2	Benzo(g,h,i)Perylene	ug/kg		ND	350	1
100-51-6	Benzyl alcohol	ug/kg		ND	350	1
108-60-1	2,2'-Oxybis(1-chloropropane)	ug/kg		ND	1400	1
				ND	350	1
SURROGATES- In Percent Recovery:						
	2,4,6-Tribromophenol	79.2	(	19 - 122%)		
	2-Fluorobiphenyl	71.2	(	30 - 115%)		
	2-Fluorophenol	59.2	(	25 - 121%)		
	Nitrobenzene-d5	65.1	(	23 - 120%)		
	Phenol-d5	63.5	(	24 - 113%)		
	p-Terphenyl-d14	104	(	18 - 137%)		

RL = Reporting Limit

M74/Jan 99

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 8261A - Volatile Organics

Lab Sample ID: L9809522-03
Client Sample ID: RE15-98-0031
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 93

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 10/01/98 Time: 07:43

Instrument: HPMS6
Analyst: CMS
Lab File ID: 6LA10305

Method: 8260B
Run ID: R53362
Batch: WG46889

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
75-71-8	Dichlorodifluoromethane.....	ug/kg		ND	11	1
74-87-3	Chloromethane.....	ug/kg		ND	11	1
75-01-4	Vinyl chloride.....	ug/kg		ND	11	1
74-83-9	Bromomethane.....	ug/kg		ND	11	1
75-00-3	Chloroethane.....	ug/kg		ND	11	1
75-69-4	Trichlorofluoromethane.....	ug/kg		ND	11	1
75-35-4	1,1-Dichloroethene.....	ug/kg		ND	5.4	1
74-88-4	Iodomethane.....	ug/kg		ND	5.4	1
75-15-0	Carbon disulfide.....	ug/kg		ND	5.4	1
67-64-1	Acetone.....	ug/kg		ND	5.4	1
75-09-2	Methylene chloride.....	ug/kg		ND	22	1
156-60-5	trans-1,2-Dichloroethene.....	ug/kg		ND	5.4	1
75-34-3	1,1-Dichloroethane.....	ug/kg		ND	11	1
594-20-7	2,2-Dichloropropane.....	ug/kg		ND	5.4	1
156-59-2	cis-1,2-Dichloroethene.....	ug/kg		ND	5.4	1
78-93-3	2-Butanone.....	ug/kg		ND	11	1
74-97-5	Bromochloromethane.....	ug/kg		ND	22	1
67-66-3	Chloroform.....	ug/kg		ND	5.4	1
71-55-6	1,1,1-Trichloroethane.....	ug/kg		ND	5.4	1
56-23-5	Carbon tetrachloride.....	ug/kg		ND	5.4	1
563-58-6	1,1-Dichloropropene.....	ug/kg		ND	5.4	1
71-43-2	Benzene.....	ug/kg		ND	5.4	1
107-06-2	1,2-Dichloroethane.....	ug/kg		ND	5.4	1
79-01-6	Trichloroethene.....	ug/kg		ND	5.4	1
78-87-5	1,2-Dichloropropane.....	ug/kg		ND	5.4	1
74-95-3	Dibromomethane.....	ug/kg		ND	5.4	1
75-27-4	Bromodichloromethane.....	ug/kg		ND	5.4	1
10061-02-6	trans-1,3-Dichloropropene.....	ug/kg		ND	5.4	1
108-10-1	4-Methyl-2-pentanone.....	ug/kg		ND	5.4	1
108-88-3	Toluene.....	ug/kg		ND	22	1
10061-01-5	cis-1,3-Dichloropropene.....	ug/kg		ND	5.4	1
79-00-5	1,1,2-Trichloroethane.....	ug/kg		ND	5.4	1
127-18-4	Tetrachloroethene.....	ug/kg		ND	5.4	1
142-28-9	1,3-Dichloropropane.....	ug/kg		ND	5.4	1
124-48-1	Dibromochloromethane.....	ug/kg		ND	5.4	1
591-78-6	2-Hexanone.....	ug/kg		ND	5.4	1
106-93-4	1,2-Dibromoethane.....	ug/kg		ND	22	1
108-90-7	Chlorobenzene.....	ug/kg		ND	5.4	1
630-20-6	1,1,1,2-Tetrachloroethane.....	ug/kg		ND	5.4	1

RL = Reporting Limit

M4/an99

Product: 826LA - Volatile Organics

Lab Sample ID: L9809522-03
 Client Sample ID: RE15-98-0031
 Site/Work ID: 4659R/MR3R12082642
 Matrix: Soil

Dil. Type: N/A
 COC Info: N/A
 Sample Weight: N/A
 Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 93

TCLP Extract Date: N/A
 Extract Date: N/A

Instrument: HPMS6
 Analyst: CMS
 Lab File ID: 6LA10305

Method: 8260B
 Run ID: R53362
 Batch : WG46889

Analysis Date: 10/01/98 Time: 07:43

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethyl benzene.....	ug/kg		ND	5.4	1
1330-20-7	Xylenes (total).....	ug/kg		ND	5.4	1
100-42-5	Styrene.....	ug/kg		ND	5.4	1
75-25-2	Bromofom.....	ug/kg		ND	5.4	1
98-82-8	Isopropylbenzene.....	ug/kg		ND	5.4	1
108-86-1	Bromobenzene.....	ug/kg		ND	5.4	1
96-18-4	1,2,3-Trichloropropane.....	ug/kg		ND	5.4	1
79-34-5	1,1,2,2-Tetrachloroethane.....	ug/kg		ND	5.4	1
103-65-1	n-Propylbenzene.....	ug/kg		ND	5.4	1
95-49-8	2-Chlorotoluene.....	ug/kg		ND	5.4	1
106-43-4	4-Chlorotoluene.....	ug/kg		ND	5.4	1
108-67-8	1,3,5-Trimethylbenzene.....	ug/kg		ND	5.4	1
98-06-6	tert-Butylbenzene.....	ug/kg		ND	5.4	1
95-63-6	1,2,4-Trimethylbenzene.....	ug/kg		ND	5.4	1
135-98-8	sec-Butylbenzene.....	ug/kg		ND	5.4	1
541-73-1	1,3-Dichlorobenzene.....	ug/kg		ND	5.4	1
106-46-7	1,4-Dichlorobenzene.....	ug/kg		ND	5.4	1
99-87-6	p-Isopropyltoluene.....	ug/kg		ND	5.4	1
95-50-1	1,2-Dichlorobenzene.....	ug/kg		ND	5.4	1
104-51-8	n-Butylbenzene.....	ug/kg		ND	5.4	1
96-12-8	1,2-Dibromo-3-chloropropane.....	ug/kg		ND	5.4	1
76-13-1	Trichlorotrifluoroethane.....	ug/kg		ND	11	1
					5.4	1
SURROGATES - In Percent Recovery:						
	Toluene-d8.....	100		(81 - 117%)		
	p-Bromofluorobenzene.....	88.1		(74 - 121%)		
	Dibromofluoromethane.....	103		(80 - 120%)		
	1,2-Dichloroethane-d4.....	107		(80 - 120%)		

RL = Reporting Limit

174/Jan 99

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L9809522-04
Client Sample ID: RE15-98-0032
Site/Work ID: 4659R/MR3R12082642

Matrix: Soil
Collected: 09/23/98 N/A
% Solid: 97
COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	% wt.	97		1.0	1	N/A	DKM	10/15/98	13:50	D2216-90

Product: 80811A - Pesticides & PCB's - LANL

Lab Sample ID: L9809522-04
Client Sample ID: RE15-98-0032
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 97

TCLP Extract Date: N/A

Extract Date: 09/30/98

Analysis Date: 10/01/98

Time: 3 PEST

10/1/98 PCB

Instrument: HP9
Analyst: ECL
Lab File ID: 411.D

Method: 8081A\3550B
Run ID: R53256
Batch: WG46843

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
319-84-6	alpha-BHC.....	ug/kg		ND	1.7	1
319-85-7	beta-BHC.....	ug/kg		ND	1.7	1
319-86-8	delta-BHC.....	ug/kg		ND	1.7	1
58-89-9	gamma-BHC (Lindane).....	ug/kg		ND	1.7	1
76-44-8	Heptachlor.....	ug/kg		ND	1.7	1
309-00-2	Aldrin.....	ug/kg		ND	1.7	1
1024-57-3	Heptachlor epoxide.....	ug/kg		ND	1.7	1
959-98-8	Endosulfan I.....	ug/kg		ND	1.7	1
60-57-1	Dieldrin.....	ug/kg		ND	1.7	1
72-55-9	4,4'-DDE.....	ug/kg		ND	1.7	1
72-20-8	Endrin.....	ug/kg		ND	3.4	1
33213-65-9	Endosulfan II.....	ug/kg		ND	3.4	1
72-54-8	4,4'-DDD.....	ug/kg		ND	3.4	1
1031-07-8	Endosulfan sulfate.....	ug/kg		ND	3.4	1
50-29-3	4,4'-DDT.....	ug/kg		ND	3.4	1
72-43-5	Methoxychlor.....	ug/kg		ND	3.4	1
53494-70-5	Endrin ketone.....	ug/kg		ND	17	1
7421-93-4	Endrin aldehyde.....	ug/kg		ND	3.4	1
5103-71-9	alpha Chlordane.....	ug/kg		ND	0.34	1
5103-74-2	gamma Chlordane.....	ug/kg		ND	1.7	1
8001-35-2	Toxaphene.....	ug/kg		ND	1.7	1
12674-11-2	Aroclor-1016.....	ug/kg		ND	170	1
11104-28-2	Aroclor-1221.....	ug/kg		ND	34	1
11141-16-5	Aroclor-1232.....	ug/kg		ND	68	1
		ug/kg		ND	34	1

RL = Reporting Limit

A74/Jan 99

Product: 80811A - Pesticides & PCB's - LANL

Lab Sample ID: L9809522-04
Client Sample ID: RE15-98-0032
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HP9
Analyst: ECL
Lab File ID: 411.D
Sample Weight: N/A
Extract Volume: N/A
% Solid: 97
Method: 8081A\3550B
Run ID: R53256
Batch: WG46843

TCLP Extract Date: N/A
Extract Date: 09/30/98
Analysis Date: 10/01/98
Time:

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
53469-21-9	Aroclor-1242	ug/kg		ND	34	1
12672-29-6	Aroclor-1248	ug/kg		ND	34	1
11097-69-1	Aroclor-1254	ug/kg		ND	34	1
11096-82-5	Aroclor-1260	ug/kg		ND	34	1
SURROGATES- In Percent Recovery:						
	2,4,5,6-Tetrachloro-m-xylene		72.3	(29 - 133%)		
	Decachlorobiphenyl		98.7	(30 - 173%)		
	TCX		69.7			
	PCB		74.1			

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-04
Client Sample ID: RE15-98-0032
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HPMS7
Analyst: MLS
Lab File ID: 5991
Sample Weight: N/A
Extract Volume: N/A
% Solid: 97
Method: 8270C
Run ID: R54614
Batch: WG47900

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98
Time: 19:23

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
62-75-9	n-Nitrosodimethylamine	ug/kg		ND	340	1
62-53-3	Aniline	ug/kg		ND	680	1
108-95-2	Phenol	ug/kg		ND	340	1
111-44-4	bis(2-Chloroethyl) ether	ug/kg		ND	340	1
95-57-8	2-Chlorophenol	ug/kg		ND	340	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	340	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	340	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	340	1
95-48-7	2-Methylphenol	ug/kg		ND	340	1
106-44-5	4-Methylphenol	ug/kg		ND	340	1

RL = Reporting Limit

M4/Jan 99

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 827LAS - Semivolatle Compounds

Lab Sample ID: L9809522-04
Client Sample ID: RE15-98-0032
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 97

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 19:23

Instrument: HPMS7
Analyst: MLS
Lab File ID: 5991
Method: 8270C
Run ID: R54614
Batch: WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
621-64-7	n-Nitroso-di-n-propylamine	ug/kg		ND	340	1
67-72-1	Hexachloroethane	ug/kg		ND	340	1
98-95-3	Nitrobenzene	ug/kg		ND	340	1
78-59-1	Isophorone	ug/kg		ND	340	1
88-75-5	2-Nitrophenol	ug/kg		ND	340	1
105-67-9	2,4-Dimethylphenol	ug/kg		ND	340	1
65-85-0	Benzoic acid	ug/kg		ND	340	1
111-91-1	bis(2-Chloroethoxy)methane	ug/kg		ND	3400	1
120-83-2	2,4-Dichlorophenol	ug/kg		ND	340	1
120-82-1	1,2,4-Trichlorobenzene	ug/kg		ND	340	1
91-20-3	Naphthalene	ug/kg		ND	340	1
106-47-8	4-Chloroaniline	ug/kg		ND	340	1
87-68-3	Hexachlorobutadiene	ug/kg		ND	1300	1
59-50-7	4-Chloro-3-methylphenol	ug/kg		ND	340	1
91-57-6	2-Methylnaphthalene	ug/kg		ND	680	1
77-47-4	Hexachlorocyclopentadiene	ug/kg		ND	340	1
88-06-2	2,4,6-Trichlorophenol	ug/kg		ND	340	1
95-95-4	2,4,5-Trichlorophenol	ug/kg		ND	340	1
91-58-7	2-Chloronaphthalene	ug/kg		ND	1700	1
88-74-4	2-Nitroaniline	ug/kg		ND	340	1
131-11-3	Dimethylphthalate	ug/kg		ND	1700	1
208-96-8	Acenaphthylene	ug/kg		ND	340	1
99-09-2	3-Nitroaniline	ug/kg		ND	340	1
83-32-9	Acenaphthene	ug/kg		ND	1700	1
51-28-5	2,4-Dinitrophenol	ug/kg		ND	340	1
100-02-7	4-Nitrophenol	ug/kg		ND	1700	1
132-64-9	Dibenzofuran	ug/kg		ND	340	1
121-14-2	2,4-Dinitrotoluene	ug/kg		ND	340	1
606-20-2	2,6-Dinitrotoluene	ug/kg		ND	340	1
84-66-2	Diethylphthalate	ug/kg		ND	340	1
7005-72-3	4-Chlorophenyl-phenyl ether	ug/kg		ND	340	1
86-73-7	Fluorene	ug/kg		ND	340	1
100-01-6	4-Nitroaniline	ug/kg		ND	340	1
534-52-1	4,6-Dinitro-2-methylphenol	ug/kg		ND	680	1
86-30-6	n-Nitrosodiphenylamine	ug/kg		ND	1700	1
103-33-3	Azobenzene	ug/kg		ND	340	1
101-55-3	4-Bromophenyl-phenylether	ug/kg		ND	680	1
118-74-1	Hexachlorobenzene	ug/kg		ND	340	1
87-86-5	Pentachlorophenol	ug/kg		ND	340	1
				ND	1700	1

RL = Reporting Limit

M74/Jan 99

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 827IAS - Semivolatile Compounds

Lab Sample ID: L9809522-04
Client Sample ID: RE15-98-0032
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HPMS7
Analyst: MLS
Lab File ID: 5991

Sample Weight: N/A
Extract Volume: N/A
% Solid: 97
Method: 8270C
Run ID: R54614
Batch: WG47900

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 19:23

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
85-01-8	Phenanthrene	ug/kg		ND	340	1
120-12-7	Anthracene	ug/kg		ND	340	1
84-74-2	Di-n-butylphthalate	ug/kg		ND	340	1
206-44-0	Fluoranthene	ug/kg		ND	340	1
129-00-0	Pyrene	ug/kg		ND	340	1
85-68-7	Butylbenzylphthalate	ug/kg		ND	340	1
91-94-1	3,3'-Dichlorobenzidine	ug/kg		ND	340	1
56-55-3	Benzo(a)anthracene	ug/kg		ND	680	1
117-81-7	bis(2-Ethylhexyl)phthalate	ug/kg		ND	340	1
218-01-9	Chrysene	ug/kg		ND	340	1
117-84-0	Di-n-octylphthalate	ug/kg		ND	340	1
205-99-2	Benzo(b)fluoranthene	ug/kg		ND	340	1
207-08-9	Benzo(k)fluoranthene	ug/kg		ND	340	1
50-32-8	Benzo(a)pyrene	ug/kg		ND	340	1
193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg		ND	340	1
53-70-3	Dibenzo(a,h)anthracene	ug/kg		ND	340	1
191-24-2	Benzo(g,h,i)perylene	ug/kg		ND	340	1
100-51-6	Benzyl alcohol	ug/kg		ND	340	1
108-60-1	2,2'-Oxybis(1-chloropropane)	ug/kg		ND	1300	1
					340	1
SURROGATES- In Percent Recovery:						
	2,4,6-Tribromophenol	83.4	(19 - 122%)			
	2-Fluorobiphenyl	79.1	(30 - 115%)			
	2-Fluorophenol	66.7	(25 - 121%)			
	Nitrobenzene-d5	74.8	(23 - 120%)			
	Phenol-d5	70.3	(24 - 113%)			
	p-Terphenyl-d14	105	(18 - 137%)			

RL = Reporting Limit

A74/ann.99

Product: 826LA - Volatile Organics

Lab Sample ID: L9809522-04
Client Sample ID: RE15-98-0032
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HPMS6
Analyst: CMS
Lab File ID: 6LA10306

Sample Weight: N/A
Extract Volume: N/A
% Solid: 97
Method: 8260B
Run ID: R53362
Batch: WG46889

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 10/01/98 Time: 08:14

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
75-71-8	Dichlorodifluoromethane.....	ug/kg		ND	10	1
74-87-3	Chloromethane.....	ug/kg		ND	10	1
75-01-4	Vinyl chloride.....	ug/kg		ND	10	1
74-83-9	Bromomethane.....	ug/kg		ND	10	1
75-00-3	Chloroethane.....	ug/kg		ND	10	1
75-69-4	Trichloroethane.....	ug/kg		ND	5.2	1
75-35-4	Trichlorofluoromethane.....	ug/kg		ND	5.2	1
74-88-4	1,1-Dichloroethene.....	ug/kg		ND	5.2	1
75-15-0	Iodomethane.....	ug/kg		ND	5.2	1
67-64-1	Carbon disulfide.....	ug/kg		ND	5.2	1
75-09-2	Acetone.....	ug/kg		ND	21	1
156-60-5	Methylene chloride.....	ug/kg		ND	5.2	1
75-34-3	trans-1,2-Dichloroethene.....	ug/kg		ND	10	1
594-20-7	2,2-Dichloropropane.....	ug/kg		ND	5.2	1
156-59-2	cis-1,2-Dichloroethene.....	ug/kg		ND	5.2	1
78-93-3	2-Butanone.....	ug/kg		ND	10	1
74-97-5	Bromochloromethane.....	ug/kg		ND	21	1
67-66-3	Chloroform.....	ug/kg		ND	5.2	1
71-55-6	1,1,1-trichloroethane.....	ug/kg		ND	5.2	1
56-23-5	Carbon tetrachloride.....	ug/kg		ND	5.2	1
563-58-6	1,1-Dichloropropene.....	ug/kg		ND	5.2	1
71-43-2	Benzene.....	ug/kg		ND	5.2	1
107-06-2	1,2-Dichloroethane.....	ug/kg		ND	5.2	1
79-01-6	Trichloroethene.....	ug/kg		ND	5.2	1
78-87-5	1,2-Dichloropropane.....	ug/kg		ND	5.2	1
74-95-3	Dibromomethane.....	ug/kg		ND	5.2	1
75-27-4	Bromodichloromethane.....	ug/kg		ND	5.2	1
10061-02-6	trans-1,3-Dichloropropene.....	ug/kg		ND	5.2	1
108-10-1	4-Methyl-2-pentanone.....	ug/kg		ND	5.2	1
108-88-3	Toluene.....	ug/kg		ND	21	1
10061-01-5	cis-1,3-Dichloropropene.....	ug/kg		ND	5.2	1
79-00-5	1,1,2-Trichloroethane.....	ug/kg		ND	5.2	1
127-18-4	Tetrachloroethene.....	ug/kg		ND	5.2	1
142-28-9	1,3-Dichloropropane.....	ug/kg		ND	5.2	1
124-48-1	Dibromochloromethane.....	ug/kg		ND	5.2	1
591-78-6	2-Hexanone.....	ug/kg		ND	5.2	1
106-93-4	1,2-Dibromoethane.....	ug/kg		ND	21	1
108-90-7	Chlorobenzene.....	ug/kg		ND	5.2	1
630-20-6	1,1,1,2-Tetrachloroethane.....	ug/kg		ND	5.2	1

RL = Reporting Limit

M 4/Jan 99

KEMRON ENVIRONMENTAL SERVICES

Product: 826LA - Volatile Organics

Lab Sample ID: L9809522-04
Client Sample ID: RE15-98-0032
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 10/01/98 Time: 08:14
Date Collected: 09/23/98
Instrument: HPMS6
Analyst: CMS
Lab File ID: 6LA10306
% Solid: 97
Method: 8260B
Run ID: R53362
Batch: WG46889

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethyl benzene.....	ug/kg		ND	5.2	1
1330-20-7	Xylenes (total).....	ug/kg		ND	5.2	1
100-42-5	Styrene.....	ug/kg		ND	5.2	1
75-25-2	Bromoform.....	ug/kg		ND	5.2	1
98-82-8	Isopropylbenzene.....	ug/kg		ND	5.2	1
108-86-1	Bromobenzene.....	ug/kg		ND	5.2	1
96-18-4	1,2,3-Trichloropropane.....	ug/kg		ND	5.2	1
79-34-5	1,1,2,2-Tetrachloroethane.....	ug/kg		ND	5.2	1
103-65-1	n-Propylbenzene.....	ug/kg		ND	5.2	1
95-49-8	2-Chlorotoluene.....	ug/kg		ND	5.2	1
106-43-4	4-Chlorotoluene.....	ug/kg		ND	5.2	1
108-67-8	1,3,5-Trimethylbenzene.....	ug/kg		ND	5.2	1
98-06-6	tert-Butylbenzene.....	ug/kg		ND	5.2	1
95-63-6	1,2,4-Trimethylbenzene.....	ug/kg		ND	5.2	1
135-98-8	sec-Butylbenzene.....	ug/kg		ND	5.2	1
541-73-1	1,3-Dichlorobenzene.....	ug/kg		ND	5.2	1
106-46-7	1,4-Dichlorobenzene.....	ug/kg		ND	5.2	1
99-87-6	p-Isopropyltoluene.....	ug/kg		ND	5.2	1
95-50-1	1,2-Dichlorobenzene.....	ug/kg		ND	5.2	1
104-51-8	n-Butylbenzene.....	ug/kg		ND	5.2	1
96-12-8	1,2-Dibromo-3-chloropropane.....	ug/kg		ND	5.2	1
76-13-1	Trichlorotrifluoroethane.....	ug/kg		ND	10	1
					5.2	
SURROGATES- In Percent Recovery:						
	Toluene-d8.....	98.3	(81 - 117%)			
	p-Bromofluorobenzene.....	86.4	(74 - 121%)			
	Dibromofluoromethane.....	102	(80 - 120%)			
	1,2-Dichloroethane-d4.....	108	(80 - 120%)			

RL = Reporting Limit

M 4/ an 99

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L9809522-05
Client Sample ID: RE15-98-0033
Site/Work ID: 4659R/MR3R12082642

Matrix: Soil
Collected: 09/23/98 N/A
% Solid: 98
COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	% wt.	98		1.0	1	N/A	DKM	10/15/98	13:50	D2216-90

Product: 80811A - Pesticides & PCB's - LANL

Lab Sample ID: L9809522-05
Client Sample ID: RE15-98-0033
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

TCLP Extract Date: N/A

Extract Date: 09/30/98
Analysis Date: 10/01/98

Instrument: HP9
Analyst: ECL
Lab File ID: 412.D

Method: 8081A\3550B
Run ID: R53256
Batch : WG46843

10/1/98
PEST
PCB

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
319-84-6	alpha-BHC.....	ug/kg		ND	1.7	1
319-85-7	beta-BHC.....	ug/kg		ND	1.7	1
319-86-8	delta-BHC.....	ug/kg		ND	1.7	1
58-89-9	gamma-BHC (Lindane).....	ug/kg		ND	1.7	1
76-44-8	Heptachlor.....	ug/kg		ND	1.7	1
309-00-2	Aldrin.....	ug/kg		ND	1.7	1
1024-57-3	Heptachlor epoxide.....	ug/kg		ND	1.7	1
959-98-8	Endosulfan I.....	ug/kg		ND	1.7	1
60-57-1	Dieldrin.....	ug/kg		ND	1.7	1
72-55-9	4,4'-DDE.....	ug/kg		ND	3.4	1
72-20-8	Endrin.....	ug/kg		ND	3.4	1
33213-65-9	Endosulfan II.....	ug/kg		ND	3.4	1
72-54-8	4,4'-DDD.....	ug/kg		ND	3.4	1
1031-07-8	Endosulfan sulfate.....	ug/kg		ND	3.4	1
50-29-3	4,4'-DDT.....	ug/kg		ND	3.4	1
72-43-5	Methoxychlor.....	ug/kg		ND	17	1
53494-70-5	Endrin ketone.....	ug/kg		ND	3.4	1
7421-93-4	Endrin aldehyde.....	ug/kg		ND	0.34	1
5103-71-9	alpha Chlordane.....	ug/kg		ND	1.7	1
5103-74-2	gamma Chlordane.....	ug/kg		ND	1.7	1
8001-35-2	Toxaphene.....	ug/kg		ND	1.7	1
12674-11-2	Aroclor-1016.....	ug/kg		ND	170	1
11104-28-2	Aroclor-1221.....	ug/kg		ND	34	1
11141-16-5	Aroclor-1232.....	ug/kg		ND	67	1
				ND	34	1

RL = Reporting Limit

M 4/Jan 99

Product: 8081LA - Pesticides & PCB's - LANL

Lab Sample ID: L9809522-05
Client Sample ID: RE15-98-0033
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HP9
Analyst: ECL
Lab File ID: 412.D
Sample Weight: N/A
Extract Volume: N/A
% Solid: 98
Method: 8081A\3550B
Run ID: R53256
Batch: WG46843

TCLP Extract Date: N/A
Extract Date: 09/30/98
Analysis Date: 10/01/98
Time:

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
53469-21-9	Aroclor-1242	ug/kg		ND	34	1
12672-29-6	Aroclor-1248	ug/kg		ND	34	1
11097-69-1	Aroclor-1254	ug/kg		ND	34	1
11096-82-5	Aroclor-1260	ug/kg		ND	34	1
SURROGATES- In Percent Recovery:						
	2,4,5,6-Tetrachloro-m-xylene	75.8	{ PEST			
	Decachlorobiphenyl	109	(29 - 133%)			
	TCX	71.8	(30 - 173%)			
	OCB	80.2	PCB			

Product: 827LAS - Semivolatle Compounds

Lab Sample ID: L9809522-05
Client Sample ID: RE15-98-0033
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98
Time: 20:01

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HPMS7
Analyst: MLS
Lab File ID: 5992
Sample Weight: N/A
Extract Volume: N/A
% Solid: 98
Method: 8270C
Run ID: R54614
Batch: WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
62-75-9	n-Nitrosodimethylamine	ug/kg		ND	340	1
62-53-3	Aniline	ug/kg		ND	670	1
108-95-2	Phenol	ug/kg		ND	340	1
111-44-4	Bis(2-Chloroethyl) ether	ug/kg		ND	340	1
95-57-8	2-Chlorophenol	ug/kg		ND	340	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	340	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	340	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	340	1
95-48-7	2-Methylphenol	ug/kg		ND	340	1
106-44-5	4-Methylphenol	ug/kg		ND	340	1

RL = Reporting Limit

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-05
Client Sample ID: RE15-98-0033
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HPMS7
Analyst: MLS
Lab File ID: 5992

Sample Weight: N/A
Extract Volume: N/A
% Solid: 98
Method: 8270C
Run ID: R54614
Batch: WG47900

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98
Time: 20:01

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
621-64-7	n-Nitroso-di-n-propylamine	ug/kg		ND	340	1
67-72-1	Hexachloroethane	ug/kg		ND	340	1
98-95-3	Nitrobenzene	ug/kg		ND	340	1
78-59-1	Isophorone	ug/kg		ND	340	1
88-75-5	2-Nitrophenol	ug/kg		ND	340	1
105-67-9	2,4-Dimethylphenol	ug/kg		ND	340	1
65-85-0	Benzoic acid	ug/kg		ND	340	1
111-91-1	bis(2-Chloroethoxy)methane	ug/kg		ND	3400	1
120-83-2	2,4-Dichlorophenol	ug/kg		ND	340	1
120-82-1	1,2,4-Trichlorobenzene	ug/kg		ND	340	1
91-20-3	Naphthalene	ug/kg		ND	340	1
106-47-8	4-Chloroaniline	ug/kg		ND	340	1
87-68-3	Hexachlorobutadiene	ug/kg		ND	1300	1
59-50-7	4-Chloro-3-methylphenol	ug/kg		ND	340	1
91-57-6	2-Methylnaphthalene	ug/kg		ND	670	1
77-47-4	Hexachlorocyclopentadiene	ug/kg		ND	340	1
88-06-2	2,4,6-Trichlorophenol	ug/kg		ND	340	1
95-95-4	2,4,5-Trichlorophenol	ug/kg		ND	340	1
91-58-7	2-Chloronaphthalene	ug/kg		ND	1600	1
88-74-4	2-Nitroaniline	ug/kg		ND	340	1
131-11-3	Dimethylphthalate	ug/kg		ND	1600	1
208-96-8	Acenaphthylene	ug/kg		ND	340	1
99-09-2	3-Nitroaniline	ug/kg		ND	340	1
83-32-9	Acenaphthene	ug/kg		ND	1600	1
51-28-5	2,4-Dinitrophenol	ug/kg		ND	340	1
100-02-7	4-Nitrophenol	ug/kg		ND	1600	1
132-64-9	Dibenzofuran	ug/kg		ND	1600	1
121-14-2	2,4-Dinitrotoluene	ug/kg		ND	340	1
606-20-2	2,6-Dinitrotoluene	ug/kg		ND	340	1
84-66-2	Diethylphthalate	ug/kg		ND	340	1
7005-72-3	4-Chlorophenyl-phenyl ether	ug/kg		ND	340	1
86-73-7	Fluorene	ug/kg		ND	340	1
100-01-6	4-Nitroaniline	ug/kg		ND	340	1
534-52-1	4,6-Dinitro-2-methylphenol	ug/kg		ND	670	1
86-30-6	n-Nitrosodiphenylamine	ug/kg		ND	1600	1
103-33-3	Azobenzene	ug/kg		ND	340	1
101-55-3	4-Bromophenyl-phenylether	ug/kg		ND	670	1
118-74-1	Hexachlorobenzene	ug/kg		ND	340	1
87-86-5	Pentachlorophenol	ug/kg		ND	340	1

RL = Reporting Limit

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-05
Client Sample ID: RE15-98-0033
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 98

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 20:01

Instrument: HPMS7
Analyst: MLS
Lab File ID: 5992

Method: 8270C
Run ID: R54614
Batch: WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
85-01-8	Phenanthrene.....	ug/kg		ND	340	1
120-12-7	Anthracene.....	ug/kg		ND	340	1
84-74-2	Di-n-butylphthalate.....	ug/kg		ND	340	1
206-44-0	Fluoranthene.....	ug/kg		ND	340	1
129-00-0	Pyrene.....	ug/kg		ND	340	1
85-68-7	Butylbenzylphthalate.....	ug/kg		ND	340	1
91-94-1	3,3'-Dichlorobenzidine.....	ug/kg		ND	340	1
56-55-3	Benzo(a)anthracene.....	ug/kg		ND	670	1
117-81-7	bis(2-Ethylhexyl)phthalate.....	ug/kg		ND	340	1
218-01-9	Chrysene.....	ug/kg		ND	340	1
117-84-0	Di-n-octylphthalate.....	ug/kg		ND	340	1
205-99-2	Benzo(b)fluoranthene.....	ug/kg		ND	340	1
207-08-9	Benzo(k)fluoranthene.....	ug/kg		ND	340	1
50-32-8	Benzo(a)pyrene.....	ug/kg		ND	340	1
193-39-5	Indeno(1,2,3-cd)pyrene.....	ug/kg		ND	340	1
53-70-3	Dibenzo(a,h)anthracene.....	ug/kg		ND	340	1
191-24-2	Benzo(g,h,i)perylene.....	ug/kg		ND	340	1
100-51-6	Benzo(l)alcohol.....	ug/kg		ND	340	1
108-60-1	2,2'-Oxybis(1-chloropropane).....	ug/kg		ND	1300	1
					340	
SURROGATES- In Percent Recovery:						
	2,4,6-Tribromophenol.....	77.4		(19 - 122%)		
	2-Fluorobiphenyl.....	65.4		(30 - 115%)		
	2-Fluorophenol.....	56.6		(25 - 121%)		
	Nitrobenzene-d5.....	62.7		(23 - 120%)		
	Phenol-d5.....	59.5		(24 - 113%)		
	p-Terphenyl-d14.....	104		(18 - 137%)		

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826LA - Volatile Organics

Lab Sample ID: L9809522-05
Client Sample ID: RE15-98-0033
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98

Sample Weight: N/A
Extract Volume: N/A

% Solid: 98

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 10/01/98

Instrument: HPMS6
Analyst: CMS
Lab File ID: 6LA10307

Method: 8260B
Run ID: R53362
Batch: WG46889

Time: 08:46

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
75-71-8	Dichlorodifluoromethane.....	ug/kg		ND	10	1
74-87-3	Chloromethane.....	ug/kg		ND	10	1
75-01-4	Vinyl chloride.....	ug/kg		ND	10	1
74-83-9	Bromomethane.....	ug/kg		ND	10	1
75-00-3	Chloroethane.....	ug/kg		ND	10	1
75-69-4	Trichlorofluoromethane.....	ug/kg		ND	5.1	1
75-35-4	1,1-Dichloroethene.....	ug/kg		ND	5.1	1
74-88-4	Iodomethane.....	ug/kg		ND	5.1	1
75-15-0	Carbon disulfide.....	ug/kg		ND	5.1	1
67-64-1	Acetone.....	ug/kg		ND	20	1
75-09-2	Methylene chloride.....	ug/kg		ND	5.1	1
156-60-5	trans-1,2-Dichloroethene.....	ug/kg		ND	10	1
75-34-3	1,1-Dichloroethane.....	ug/kg		ND	5.1	1
594-20-7	2,2-Dichloropropane.....	ug/kg		ND	5.1	1
156-59-2	cis-1,2-Dichloroethene.....	ug/kg		ND	10	1
78-93-3	2-Butanone.....	ug/kg		ND	20	1
74-97-5	Bromochloromethane.....	ug/kg		ND	5.1	1
67-66-3	Chloroform.....	ug/kg		ND	5.1	1
71-55-6	1,1,1-Trichloroethane.....	ug/kg		ND	5.1	1
56-23-5	Carbon tetrachloride.....	ug/kg		ND	5.1	1
563-58-6	1,1-Dichloropropene.....	ug/kg		ND	5.1	1
71-43-2	Benzene.....	ug/kg		ND	5.1	1
107-06-2	1,2-Dichloroethane.....	ug/kg		ND	5.1	1
79-01-6	Trichloroethene.....	ug/kg		ND	5.1	1
78-87-5	1,2-Dichloropropane.....	ug/kg		ND	5.1	1
74-95-3	Dibromomethane.....	ug/kg		ND	5.1	1
75-27-4	Bromodichloromethane.....	ug/kg		ND	5.1	1
10061-02-6	trans-1,3-Dichloropropene.....	ug/kg		ND	5.1	1
108-10-1	4-Methyl-2-pentanone.....	ug/kg		ND	20	1
108-88-3	Toluene.....	ug/kg		ND	5.1	1
10061-01-5	cis-1,3-Dichloropropene.....	ug/kg		ND	5.1	1
79-00-5	1,1,2-Trichloroethane.....	ug/kg		ND	5.1	1
127-18-4	Tetrachloroethene.....	ug/kg		ND	5.1	1
142-28-9	1,3-Dichloropropane.....	ug/kg		ND	5.1	1
124-48-1	Dibromochloromethane.....	ug/kg		ND	5.1	1
591-78-6	2-Hexanone.....	ug/kg		ND	20	1
106-93-4	1,2-Dibromoethane.....	ug/kg		ND	5.1	1
108-90-7	Chlorobenzene.....	ug/kg		ND	5.1	1
630-20-6	1,1,1,2-Tetrachloroethane.....	ug/kg		ND	5.1	1

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RL = Reporting Limit

Product: 826LA - Volatile Organics

Lab Sample ID: L9809522-05
Client Sample ID: RE15-98-0033
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 98

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 10/01/98

Instrument: HPMS6
Analyst: CMS
Lab File ID: 6LA10307

Method: 8260B
Run ID: R53362
Batch: WG46889

Time: 08:46

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethyl benzene	ug/kg		ND	5.1	1
1330-20-7	Xylenes (total)	ug/kg		ND	5.1	1
100-42-5	Styrene	ug/kg		ND	5.1	1
75-25-2	Bromoform	ug/kg		ND	5.1	1
98-82-8	Isopropylbenzene	ug/kg		ND	5.1	1
108-86-1	Bromobenzene	ug/kg		ND	5.1	1
96-18-4	1,2,3-Trichloropropane	ug/kg		ND	5.1	1
79-34-5	1,1,2,2-Tetrachloroethane	ug/kg		ND	5.1	1
103-65-1	n-Propylbenzene	ug/kg		ND	5.1	1
95-49-8	2-Chlorotoluene	ug/kg		ND	5.1	1
106-43-4	4-Chlorotoluene	ug/kg		ND	5.1	1
108-67-8	1,3,5-Trimethylbenzene	ug/kg		ND	5.1	1
98-06-6	tert-Butylbenzene	ug/kg		ND	5.1	1
95-63-6	1,2,4-Trimethylbenzene	ug/kg		ND	5.1	1
135-98-8	sec-Butylbenzene	ug/kg		ND	5.1	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	5.1	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	5.1	1
99-87-6	p-Isopropyltoluene	ug/kg		ND	5.1	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	5.1	1
104-51-8	n-Butylbenzene	ug/kg		ND	5.1	1
96-12-8	1,2-Dibromo-3-chloropropane	ug/kg		ND	5.1	1
76-13-1	Trichlorotrifluoroethane	ug/kg		ND	10	1
					5.1	1

SURROGATES- In Percent Recovery:

Toluene-d8	83.6	(81 - 117%)
p-Bromofluorobenzene	80.8	(74 - 121%)
Dibromofluoromethane	92.7	(80 - 120%)
1,2-Dichloroethane-d4	100	(80 - 120%)

174/09/98

KEMRON ENVIRONMENTAL SERVICES

Login #L9809522
October 21, 1998 04:03 pm

Lab Sample ID: L9809522-06
Client Sample ID: RE15-98-0034
Site/Work ID: 4659R/MR3R12082642

Matrix: Soil
Collected: 09/23/98 N/A
% Solid: 97
COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	% wt.	97		1.0	1	N/A	DKM	10/15/98	13:50	D2216-90

Product: 8081LA - Pesticides & PCB's - LANL

Lab Sample ID: L9809522-06
Client Sample ID: RE15-98-0034
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

Instrument: HP9
Analyst: ECL
Lab File ID: 413.D

TCLP Extract Date: N/A
Extract Date: 09/30/98
Analysis Date: 10/01/98

Time: } Pest
 } PCB

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
319-84-6	alpha-BHC.....	ug/kg		ND	1.7	1
319-85-7	beta-BHC.....	ug/kg		ND	1.7	1
319-86-8	delta-BHC.....	ug/kg		ND	1.7	1
58-89-9	gamma-BHC (Lindane).....	ug/kg		ND	1.7	1
76-44-8	Heptachlor.....	ug/kg		ND	1.7	1
309-00-2	Aldrin.....	ug/kg		ND	1.7	1
1024-57-3	Heptachlor epoxide.....	ug/kg		ND	1.7	1
959-98-8	Endosulfan I.....	ug/kg		ND	1.7	1
60-57-1	Dieldrin.....	ug/kg		ND	1.7	1
72-55-9	4,4'-DDE.....	ug/kg		ND	3.4	1
72-20-8	Endrin.....	ug/kg		ND	3.4	1
33213-65-9	Endosulfan II.....	ug/kg		ND	3.4	1
72-54-8	4,4'-DDD.....	ug/kg		ND	3.4	1
1031-07-8	Endosulfan sulfate.....	ug/kg		ND	3.4	1
50-29-3	4,4'-DDT.....	ug/kg		ND	3.4	1
72-43-5	Methoxychlor.....	ug/kg		ND	3.4	1
53494-70-5	Endrin ketone.....	ug/kg		ND	17	1
7421-93-4	Endrin aldehyde.....	ug/kg		ND	3.4	1
5103-71-9	alpha Chlordane.....	ug/kg		ND	0.34	1
5103-74-2	gamma Chlordane.....	ug/kg		ND	1.7	1
8001-35-2	Toxaphene.....	ug/kg		ND	1.7	1
12674-11-2	Aroclor-1016.....	ug/kg		ND	170	1
11104-28-2	Aroclor-1221.....	ug/kg		ND	34	1
11141-16-5	Aroclor-1232.....	ug/kg		ND	68	1
				ND	34	1

RL = Reporting Limit

Product: 8081LA - Pesticides & PCB's - LANL

Lab Sample ID: L9809522-06
Client Sample ID: RE15-98-0034
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 97

TCLP Extract Date: N/A
Extract Date: 09/30/98
Analysis Date: 10/01/98 Time:

Instrument: HP9
Analyst: ECL
Lab File ID: 413.D
Method: 8081A\3550B
Run ID: R53256
Batch: WG46843

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
53469-21-9	Aroclor-1242	ug/kg		ND	34	1
12672-29-6	Aroclor-1248	ug/kg		ND	34	1
11097-69-1	Aroclor-1254	ug/kg		ND	34	1
11096-82-5	Aroclor-1260	ug/kg		ND	34	1
SURROGATES - In Percent Recovery:						
	2,4,5,6-Tetrachloro-m-xylene		62.87 Pent	(29 - 133%)		
	Decachlorobiphenyl		87.43	(30 - 173%)		
	TCX		58.73 PCB			
	OCCB		64.23			

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-06
Client Sample ID: RE15-98-0034
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 97

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 20:40

Instrument: HPMS7
Analyst: MLS
Lab File ID: 5993
Method: 8270C
Run ID: R54614
Batch: WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
62-75-9	n-Nitrosodimethylamine	ug/kg		ND	340	1
62-53-3	Aniline	ug/kg		ND	680	1
108-95-2	Phenol	ug/kg		ND	340	1
111-44-4	bis(2-Chloroethyl) ether	ug/kg		ND	340	1
95-57-8	2-Chlorophenol	ug/kg		ND	340	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	340	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	340	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	340	1
95-48-7	2-Methylphenol	ug/kg		ND	340	1
106-44-5	4-Methylphenol	ug/kg		ND	340	1

RL = Reporting Limit

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-06
Client Sample ID: RE15-98-0034
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A
% Solid: 97

Date Collected: 09/23/98

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 20:40

Instrument: HPMS7
Analyst: MLS
Lab File ID: 5993

Method: 8270C
Run ID: R54614
Batch: WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
621-64-7	n-Nitroso-di-n-propylamine	ug/kg		ND	340	1
67-72-1	Hexachloroethane	ug/kg		ND	340	1
98-95-3	Nitrobenzene	ug/kg		ND	340	1
78-59-1	Isophorone	ug/kg		ND	340	1
88-75-5	2-Nitrophenol	ug/kg		ND	340	1
105-67-9	2,4-Dimethylphenol	ug/kg		ND	340	1
65-85-0	Benzoic acid	ug/kg		ND	340	1
111-91-1	bis(2-Chloroethoxy)methane	ug/kg		ND	3400	1
120-83-2	2,4-Dichlorophenol	ug/kg		ND	340	1
120-82-1	1,2,4-Trichlorobenzene	ug/kg		ND	340	1
91-20-3	Naphthalene	ug/kg		ND	340	1
106-47-8	4-Chloroaniline	ug/kg		ND	340	1
87-68-3	Hexachlorobutadiene	ug/kg		ND	1300	1
59-50-7	4-Chloro-3-methylphenol	ug/kg		ND	340	1
91-57-6	2-Methylnaphthalene	ug/kg		ND	680	1
77-47-4	Hexachlorocyclopentadiene	ug/kg		ND	340	1
88-06-2	2,4,6-Trichlorophenol	ug/kg		ND	340	1
95-95-4	2,4,5-Trichlorophenol	ug/kg		ND	340	1
91-58-7	2-Chloronaphthalene	ug/kg		ND	1700	1
88-74-4	2-Nitroaniline	ug/kg		ND	340	1
131-11-3	Dimethylphthalate	ug/kg		ND	1700	1
208-96-8	Acenaphthylene	ug/kg		ND	340	1
99-09-2	3-Nitroaniline	ug/kg		ND	340	1
83-32-9	Acenaphthene	ug/kg		ND	1700	1
51-28-5	2,4-Dinitrophenol	ug/kg		ND	340	1
100-02-7	4-Nitrophenol	ug/kg		ND	1700	1
132-64-9	Dibenzofuran	ug/kg		ND	1700	1
121-14-2	2,4-Dinitrotoluene	ug/kg		ND	340	1
606-20-2	2,6-Dinitrotoluene	ug/kg		ND	340	1
84-66-2	Diethylphthalate	ug/kg		ND	340	1
7005-72-3	4-Chlorophenyl-phenyl ether	ug/kg		ND	340	1
86-73-7	Fluorene	ug/kg		ND	340	1
100-01-6	4-Nitroaniline	ug/kg		ND	340	1
534-52-1	4,6-Dinitro-2-methylphenol	ug/kg		ND	340	1
86-30-6	n-Nitrosodiphenylamine	ug/kg		ND	1700	1
103-33-3	Azobenzene	ug/kg		ND	340	1
101-55-3	4-Bromophenyl-phenylether	ug/kg		ND	680	1
118-74-1	Hexachlorobenzene	ug/kg		ND	340	1
87-86-5	Pentachlorophenol	ug/kg		ND	1700	1

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RL = Reporting Limit

Product: 827LAS - Semivolatle Compounds

Lab Sample ID: L9809522-06
Client Sample ID: RE15-98-0034
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Date Collected: 09/23/98

% Solid: 97

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 20:40

Instrument: HPMS7
Analyst: MLS
Lab File ID: 5993

Method: 8270C
Run ID: R54614
Batch : WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
85-01-8	Phenanthrene	ug/kg		ND	340	1
120-12-7	Anthracene	ug/kg		ND	340	1
84-74-2	Di-n-butylphthalate	ug/kg		ND	340	1
206-44-0	Fluoranthene	ug/kg		ND	340	1
129-00-0	Pyrene	ug/kg		ND	340	1
85-68-7	Butylbenzylphthalate	ug/kg		ND	340	1
91-94-1	3,3'-Dichlorobenzidine	ug/kg		ND	340	1
56-55-3	Benzo(a)anthracene	ug/kg		ND	680	1
117-81-7	bis(2-Ethylhexyl)phthalate	ug/kg		ND	340	1
218-01-9	Chrysene	ug/kg		ND	340	1
117-84-0	Di-n-Octylphthalate	ug/kg		ND	340	1
205-99-2	Benzo(b)fluoranthene	ug/kg		ND	340	1
207-08-9	Benzo(k)fluoranthene	ug/kg		ND	340	1
50-32-8	Benzo(a)pyrene	ug/kg		ND	340	1
193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg		ND	340	1
53-70-3	Dibenzo(a,h)anthracene	ug/kg		ND	340	1
191-24-2	Benzo(g,h,i)perylene	ug/kg		ND	340	1
100-51-6	Benzyl alcohol	ug/kg		ND	1300	1
108-60-1	2,2'-Oxybis(1-chloropropane)	ug/kg		ND	340	1
SURROGATES- In Percent Recovery:						
	2,4,6-Tribromophenol	79.1	(	19 - 122%)		
	2-Fluorobiphenyl	75.4	(	30 - 115%)		
	2-Fluorophenol	61.4	(25 - 121%)		
	Nitrobenzene-d5	68.9	(23 - 120%)		
	Phenol-d5	66.2	(24 - 113%)		
	p-Terphenyl-d14	104	(18 - 137%)		

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Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826LA - Volatile Organics

Lab Sample ID: L9809522-06
Client Sample ID: RE15-98-0034
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 97

TCLP Extract Date: N/A

Instrument: HPMS6

Method: 8260B

Extract Date: 10/03/98

Analyst: CMS

Run ID: R53603

Analysis Date: 10/03/98

Lab File ID: 6LA10367

Batch: WG47027

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
75-71-8	Dichlorodifluoromethane	ug/kg		ND	10	1
74-87-3	Chloromethane	ug/kg		ND	10	1
75-01-4	Vinyl chloride	ug/kg		ND	10	1
74-83-9	Bromomethane	ug/kg		ND	10	1
75-00-3	Chloroethane	ug/kg		ND	10	1
75-69-4	Trichlorofluoromethane	ug/kg		ND	5.2	1
75-35-4	1,1-Dichloroethene	ug/kg		ND	5.2	1
74-88-4	Iodomethane	ug/kg		ND	5.2	1
75-15-0	Carbon disulfide	ug/kg		ND	5.2	1
67-64-1	Acetone	ug/kg		ND	21	1
75-09-2	Methylene chloride	ug/kg		ND	5.2	1
156-60-5	trans-1,2-Dichloroethene	ug/kg		ND	10	1
75-34-3	1,1-Dichloroethane	ug/kg		ND	5.2	1
594-20-7	2,2-Dichloropropane	ug/kg		ND	5.2	1
156-59-2	cis-1,2-Dichloroethene	ug/kg		ND	10	1
78-93-3	2-Butanone	ug/kg		ND	21	1
74-97-5	Bromochloromethane	ug/kg		ND	5.2	1
67-66-3	Chloroform	ug/kg		ND	5.2	1
71-55-6	1,1,1-Trichloroethane	ug/kg		ND	5.2	1
56-23-5	Carbon tetrachloride	ug/kg		ND	5.2	1
563-58-6	1,1-Dichloropropene	ug/kg		ND	5.2	1
71-43-2	Benzene	ug/kg		ND	5.2	1
107-06-2	1,2-Dichloroethane	ug/kg		ND	5.2	1
79-01-6	Trichloroethene	ug/kg		ND	5.2	1
78-87-5	1,2-Dichloropropane	ug/kg		ND	5.2	1
74-95-3	Dibromomethane	ug/kg		ND	5.2	1
75-27-4	Bromodichloromethane	ug/kg		ND	5.2	1
10061-02-6	trans-1,3-Dichloropropene	ug/kg		ND	5.2	1
108-10-1	4-Methyl-2-pentanone	ug/kg		ND	21	1
108-88-3	Toluene	ug/kg		ND	5.2	1
10061-01-5	cis-1,3-Dichloropropene	ug/kg		ND	5.2	1
79-00-5	1,1,2-Trichloroethane	ug/kg		ND	5.2	1
127-18-4	Tetrachloroethene	ug/kg		ND	5.2	1
142-28-9	1,3-Dichloropropene	ug/kg		ND	5.2	1
124-48-1	Dibromochloromethane	ug/kg		ND	5.2	1
591-78-6	2-Hexanone	ug/kg		ND	21	1
106-93-4	1,2-Dibromoethane	ug/kg		ND	5.2	1
108-90-7	Chlorobenzene	ug/kg		ND	5.2	1
630-20-6	1,1,1,2-Tetrachloroethane	ug/kg		ND	5.2	1

RL = Reporting Limit

A74/am 99

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826LA - Volatile Organics

Lab Sample ID: L9809522-06
Client Sample ID: RE15-98-0034
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98
% Solid: 97

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 10/03/98 Time: 15:54

Instrument: HPMS6
Analyst: CMS
Lab File ID: 6LA10367
Method: 8260B
Run ID: R53603
Batch: WG47027

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethyl benzene.	ug/kg		ND	5.2	1
1330-20-7	Xylenes (total)	ug/kg		ND	5.2	1
100-42-5	Styrene.	ug/kg		ND	5.2	1
75-25-2	Bromofom.	ug/kg		ND	5.2	1
98-82-8	Isopropylbenzene.	ug/kg		ND	5.2	1
108-86-1	Bromobenzene.	ug/kg		ND	5.2	1
96-18-4	1,2,3-Trichloropropane.	ug/kg		ND	5.2	1
79-34-5	1,1,2,2-Tetrachloroethane.	ug/kg		ND	5.2	1
103-65-1	n-Propylbenzene.	ug/kg		ND	5.2	1
95-49-8	2-Chlorotoluene.	ug/kg		ND	5.2	1
106-43-4	4-Chlorotoluene.	ug/kg		ND	5.2	1
108-67-8	1,3,5-Trimethylbenzene.	ug/kg		ND	5.2	1
98-06-6	tert-Butylbenzene.	ug/kg		ND	5.2	1
95-63-6	1,2,4-Trimethylbenzene.	ug/kg		ND	5.2	1
135-98-8	sec-Butylbenzene.	ug/kg		ND	5.2	1
541-73-1	1,3-Dichlorobenzene.	ug/kg		ND	5.2	1
106-46-7	1,4-Dichlorobenzene.	ug/kg		ND	5.2	1
99-87-6	p-Isopropyltoluene.	ug/kg		ND	5.2	1
95-50-1	1,2-Dichlorobenzene.	ug/kg		ND	5.2	1
104-51-8	n-Butylbenzene.	ug/kg		ND	5.2	1
96-12-8	1,2-Dibromo-3-chloropropane.	ug/kg		ND	5.2	1
76-13-1	Trichlorotrifluoroethane.	ug/kg		ND	10	1
					5.2	1
SURROGATES- In Percent Recovery:						
	Toluene-d8.	104	(81 - 117%)			
	p-Bromofluorobenzene.	92.6	(74 - 121%)			
	Dibromofluoromethane.	104	(80 - 120%)			
	1,2-Dichloroethane-d4.	109	(80 - 120%)			

RL = Reporting Limit

M 4 / an 99

Lab Sample ID: L9809522-07
Client Sample ID: RE15-98-0035
Site/Work ID: 4659R/MR3R12082642

Matrix: Soil
Collected: 09/23/98 N/A

% Solid: 94
COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	% wt.	94		1.0	1	N/A	DKM	10/15/98	13:50	D2216-90

Product: 8081LA - Pesticides & PCB's - LANL

Lab Sample ID: L9809522-07
Client Sample ID: RE15-98-0035
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A

TCPLP Extract Date: N/A
Extract Date: 09/30/98
Analysis Date: 10/01/98
Time: 3:00 PM
10/1/98

Date Collected: 09/23/98

Instrument: HP9
Analyst: ECL
Lab File ID: 414.D

Method: 8081A\3550B
Run ID: R53256
Batch: WG46843

% Solid: 94

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
319-84-6	alpha-BHC.....	ug/kg	ND	ND	1.8	1
319-85-7	beta-BHC.....	ug/kg	ND	ND	1.8	1
319-86-8	delta-BHC.....	ug/kg	ND	ND	1.8	1
58-89-9	gamma-BHC (Lindane).....	ug/kg	ND	ND	1.8	1
76-44-8	Heptachlor.....	ug/kg	ND	ND	1.8	1
309-00-2	Aldrin.....	ug/kg	ND	ND	1.8	1
1024-57-3	Heptachlor epoxide.....	ug/kg	ND	ND	1.8	1
959-98-8	Endosulfan I.....	ug/kg	ND	ND	1.8	1
60-57-1	Dieldrin.....	ug/kg	ND	ND	1.8	1
72-55-9	4,4'-DDE.....	ug/kg	ND	ND	3.5	1
72-20-8	Endrin.....	ug/kg	ND	ND	3.5	1
33213-65-9	Endosulfan II.....	ug/kg	ND	ND	3.5	1
72-54-8	4,4'-DDD.....	ug/kg	ND	ND	3.5	1
1031-07-8	Endosulfan sulfate.....	ug/kg	ND	ND	3.5	1
50-29-3	4,4'-DDT.....	ug/kg	ND	ND	3.5	1
72-43-5	Methoxychlor.....	ug/kg	ND	ND	18	1
53494-70-5	Endrin ketone.....	ug/kg	ND	ND	3.5	1
7421-93-4	Endrin aldehyde.....	ug/kg	ND	ND	0.35	1
5103-71-9	alpha Chlordane.....	ug/kg	ND	ND	1.8	1
5103-74-2	gamma Chlordane.....	ug/kg	ND	ND	1.8	1
8001-35-2	Toxaphene.....	ug/kg	ND	ND	1.8	1
12674-11-2	Aroclor-1016.....	ug/kg	ND	ND	180	1
11104-28-2	Aroclor-1221.....	ug/kg	ND	ND	35	1
11141-16-5	Aroclor-1232.....	ug/kg	ND	ND	70	1
			ND	ND	35	1

RL = Reporting Limit

A7 4/Jan 99

KEMRON ENVIRONMENTAL SERVICES

Login #L9809522
October 21, 1998 04:03 pm

Product: 8081LA - Pesticides & PCB's - LANL

Lab Sample ID: L9809522-07
Client Sample ID: RE15-98-0035
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A
% Solid: 94
Method: 8081A\3550B
Run ID: R53256
Batch: WG46843

Date Collected: 09/23/98

Instrument: HP9
Analyst: ECL
Lab File ID: 414.D

TCLP Extract Date: N/A
Extract Date: 09/30/98
Analysis Date: 10/01/98
Time:

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
53469-21-9	Aroclor-1242	ug/kg		ND	35	1
12672-29-6	Aroclor-1248	ug/kg		ND	35	1
11097-69-1	Aroclor-1254	ug/kg		ND	35	1
11096-82-5	Aroclor-1260	ug/kg		ND	35	1
SURROGATES- In Percent Recovery:						
	2,4,5,6-Tetrachloro-m-xylene		69.5 { Pent	(29 - 133%)		
	Decachlorobiphenyl		97.2 {	(30 - 173%)		
	TCX		65.0 { PCB			
	DCB		72.3 {			

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-07
Client Sample ID: RE15-98-0035
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A
% Solid: 94
Method: 8270C
Run ID: R54614
Batch: WG47900

Date Collected: 09/23/98

Instrument: HPMS7
Analyst: MLS
Lab File ID: 5994

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98
Time: 21:19

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
62-75-9	n-Nitrosodimethylamine	ug/kg		ND	350	1
62-53-3	Aniline	ug/kg		ND	700	1
108-95-2	Phenol	ug/kg		ND	350	1
111-44-4	bis(2-Chloroethyl) ether	ug/kg		ND	350	1
95-57-8	2-Chlorophenol	ug/kg		ND	350	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	350	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	350	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	350	1
95-48-7	2-Methylphenol	ug/kg		ND	350	1
106-44-5	4-Methylphenol	ug/kg		ND	350	1

RL = Reporting Limit

A74/am 99

KEMRON ENVIRONMENTAL SERVICES

Login #L9809522
October 21, 1998 04:03 pm

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-07
Client Sample ID: RE15-98-0035
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98

Sample Weight: N/A
Extract Volume: N/A

% Solid: 94

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 21:19

Instrument: HPMS7
Analyst: MLS
Lab File ID: 5994
Method: 8270C
Run ID: R54614
Batch: WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
621-64-7	n-Nitroso-di-n-propylamine	ug/kg		ND	350	1
67-72-1	Hexachloroethane	ug/kg		ND	350	1
98-95-3	Nitrobenzene	ug/kg		ND	350	1
78-59-1	Isophorone	ug/kg		ND	350	1
88-75-5	2-Nitrophenol	ug/kg		ND	350	1
105-67-9	2,4-Dimethylphenol	ug/kg		ND	350	1
65-85-0	Benzoic acid	ug/kg		ND	3500	1
111-91-1	bis (2-Chloroethoxy) methane	ug/kg		ND	350	1
120-83-2	2,4-Dichlorophenol	ug/kg		ND	350	1
120-82-1	1,2,4-Trichlorobenzene	ug/kg		ND	350	1
91-20-3	Naphthalene	ug/kg		ND	350	1
106-47-8	4-Chloroaniline	ug/kg		ND	1400	1
87-68-3	Hexachlorobutadiene	ug/kg		ND	350	1
59-50-7	4-Chloro-3-methylphenol	ug/kg		ND	700	1
91-57-6	2-Methylnaphthalene	ug/kg		ND	350	1
77-47-4	Hexachlorocyclopentadiene	ug/kg		ND	350	1
88-06-2	2,4,6-Trichlorophenol	ug/kg		ND	350	1
95-95-4	2,4,5-Trichlorophenol	ug/kg		ND	1700	1
91-58-7	2-Chloronaphthalene	ug/kg		ND	350	1
88-74-4	2-Nitroaniline	ug/kg		ND	1700	1
131-11-3	Dimethylphthalate	ug/kg		ND	350	1
208-96-8	Acenaphthylene	ug/kg		ND	350	1
99-09-2	3-Nitroaniline	ug/kg		ND	1700	1
83-32-9	Acenaphthene	ug/kg		ND	350	1
51-28-5	2,4-Dinitrophenol	ug/kg		ND	1700	1
100-02-7	4-Nitrophenol	ug/kg		ND	1700	1
132-64-9	Dibenzofuran	ug/kg		ND	350	1
121-14-2	2,4-Dinitrotoluene	ug/kg		ND	350	1
606-20-2	2,6-Dinitrotoluene	ug/kg		ND	350	1
84-66-2	Diethylphthalate	ug/kg		ND	350	1
7005-72-3	4-Chlorophenyl-phenyl ether	ug/kg		ND	350	1
86-73-7	Fluorene	ug/kg		ND	350	1
100-01-6	4-Nitroaniline	ug/kg		ND	700	1
534-52-1	4,6-Dinitro-2-methylphenol	ug/kg		ND	1700	1
86-30-6	n-Nitrosodiphenylamine	ug/kg		ND	350	1
103-33-3	Azobenzene	ug/kg		ND	700	1
101-55-3	4-Bromophenyl-phenylether	ug/kg		ND	350	1
118-74-1	Hexachlorobenzene	ug/kg		ND	350	1
87-86-5	Pentachlorophenol	ug/kg		ND	1700	1

RL = Reporting Limit

M 4/am 99

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-07
Client Sample ID: RH15-98-0035
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 94

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98
Time: 21:19

Instrument: HPMS7
Analyst: MLS
Lab File ID: 5994

Method: 8270C
Run ID: R54614
Batch : WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
85-01-8	Phenanthrene.....	ug/kg		ND	350	1
120-12-7	Anthracene.....	ug/kg		ND	350	1
84-74-2	Di-n-butylphthalate.....	ug/kg		ND	350	1
206-44-0	Fluoranthene.....	ug/kg		ND	350	1
129-00-0	Pyrene.....	ug/kg		ND	350	1
85-68-7	Butylbenzylphthalate.....	ug/kg		ND	350	1
91-94-1	3,3'-Dichlorobenzidine.....	ug/kg		ND	700	1
56-55-3	Benzo(a)anthracene.....	ug/kg		ND	350	1
117-81-7	bis(2-Ethylhexyl)phthalate.....	ug/kg		ND	350	1
218-01-9	Chrysene.....	ug/kg		ND	350	1
117-84-0	Di-n-octylphthalate.....	ug/kg		ND	350	1
205-99-2	Benzo(b)fluoranthene.....	ug/kg		ND	350	1
207-08-9	Benzo(k)fluoranthene.....	ug/kg		ND	350	1
50-32-8	Benzo(a)pyrene.....	ug/kg		ND	350	1
193-39-5	Indeno(1,2,3-cd)pyrene.....	ug/kg		ND	350	1
53-70-3	Dibenzo(a,h)anthracene.....	ug/kg		ND	350	1
191-24-2	Benzo(g,h,i)perylene.....	ug/kg		ND	350	1
100-51-6	Benzy alcohol.....	ug/kg		ND	350	1
108-60-1	2,2'-Oxybis(1-chloropropane).....	ug/kg		ND	1400	1
					350	
SURROGATES- In Percent Recovery:						
	2,4,6-Tribromophenol.....	78.1	(	19 - 122%)		
	2-Fluorobiphenyl.....	72.4	(	30 - 115%)		
	2-Fluorophenol.....	60.9	(	25 - 121%)		
	Nitrobenzene-d5.....	67.6	(	23 - 120%)		
	Phenol-d5.....	64.2	(	24 - 113%)		
	p-Terphenyl-d14.....	100	(	18 - 137%)		

RL = Reporting Limit

M74/am 99

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826LA - Volatile Organics

Lab Sample ID: L9809522-07
Client Sample ID: RE15-98-0035
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HPMS6
Analyst: CMS
Lab File ID: 6LA10368

Sample Weight: N/A
Extract Volume: N/A
% Solid: 94

Method: 8260B
Run ID: R53603
Batch: WG47027

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 10/03/98 Time: 16:27

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
75-71-8	Dichlorodifluoromethane.....	ug/kg		ND	11	1
74-87-3	Chloromethane.....	ug/kg		ND	11	1
75-01-4	Vinyl chloride.....	ug/kg		ND	11	1
74-83-9	Bromomethane.....	ug/kg		ND	11	1
75-00-3	Chloroethane.....	ug/kg		ND	11	1
75-69-4	Trichlorofluoromethane.....	ug/kg		ND	5.3	1
75-35-4	1,1-Dichloroethene.....	ug/kg		ND	5.3	1
74-88-4	Iodomethane.....	ug/kg		ND	5.3	1
75-15-0	Carbon disulfide.....	ug/kg		ND	5.3	1
67-64-1	Acetone.....	ug/kg		ND	21	1
75-09-2	Methylene chloride.....	ug/kg		ND	5.3	1
156-60-5	trans-1,2-Dichloroethene.....	ug/kg		ND	11	1
75-34-3	1,1-Dichloroethane.....	ug/kg		ND	5.3	1
594-20-7	2,2-Dichloropropane.....	ug/kg		ND	5.3	1
156-59-2	cis-1,2-Dichloroethene.....	ug/kg		ND	11	1
78-93-3	2-Butanone.....	ug/kg		ND	21	1
74-97-5	Bromochloromethane.....	ug/kg		ND	5.3	1
67-66-3	Chloroform.....	ug/kg		ND	5.3	1
71-55-6	1,1,1-Trichloroethane.....	ug/kg		ND	5.3	1
56-23-5	Carbon tetrachloride.....	ug/kg		ND	5.3	1
563-58-6	1,1-Dichloropropene.....	ug/kg		ND	5.3	1
71-43-2	Benzene.....	ug/kg		ND	5.3	1
107-06-2	1,2-Dichloroethane.....	ug/kg		ND	5.3	1
79-01-6	Trichloroethene.....	ug/kg		ND	5.3	1
78-87-5	1,2-Dichloropropane.....	ug/kg		ND	5.3	1
74-95-3	Dibromomethane.....	ug/kg		ND	5.3	1
75-27-4	Bromodichloromethane.....	ug/kg		ND	5.3	1
10061-02-6	trans-1,3-Dichloropropene.....	ug/kg		ND	5.3	1
108-10-1	4-Methyl-2-pentanone.....	ug/kg		ND	21	1
108-88-3	Toluene.....	ug/kg		ND	5.3	1
10061-01-5	cis-1,3-Dichloropropene.....	ug/kg		ND	5.3	1
79-00-5	1,1,2-Trichloroethane.....	ug/kg		ND	5.3	1
127-18-4	Tetrachloroethene.....	ug/kg		ND	5.3	1
142-28-9	1,3-Dichloropropene.....	ug/kg		ND	5.3	1
124-48-1	Dibromochloromethane.....	ug/kg		ND	5.3	1
591-78-6	2-Hexanone.....	ug/kg		ND	21	1
106-93-4	1,2-Dibromoethane.....	ug/kg		ND	5.3	1
108-90-7	Chlorobenzene.....	ug/kg		ND	5.3	1
630-20-6	1,1,1,2-Tetrachloroethane.....	ug/kg		ND	5.3	1

RL = Reporting Limit

M74/Jan 99

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826LA - Volatile Organics

Lab Sample ID: L9809522-07
Client Sample ID: RE15-98-0035
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 94

TCLP Extract Date: N/A
Extract Date: N/A

Method: 8260B
Run ID: R53603
Batch : WG47027

Analysis Date: 10/03/98 Time: 16:27

Instrument: HPMS6
Analyst: CMS
Lab File ID: 6LA10368

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethyl benzene.....	ug/kg		ND	5.3	1
1330-20-7	Xylenes (total).....	ug/kg		ND	5.3	1
100-42-5	Styrene.....	ug/kg		ND	5.3	1
75-25-2	Bromofom.....	ug/kg		ND	5.3	1
98-82-8	Isopropylbenzene.....	ug/kg		ND	5.3	1
108-86-1	Bromobenzene.....	ug/kg		ND	5.3	1
96-18-4	1,2,3-Trichloropropane.....	ug/kg		ND	5.3	1
79-34-5	1,1,2,2-Tetrachloroethane.....	ug/kg		ND	5.3	1
103-65-1	n-Propylbenzene.....	ug/kg		ND	5.3	1
95-49-8	2-Chlorotoluene.....	ug/kg		ND	5.3	1
106-43-4	4-Chlorotoluene.....	ug/kg		ND	5.3	1
108-67-8	1,3,5-Trimethylbenzene.....	ug/kg		ND	5.3	1
98-06-6	tert-Butylbenzene.....	ug/kg		ND	5.3	1
95-63-6	1,2,4-Trimethylbenzene.....	ug/kg		ND	5.3	1
135-98-8	sec-Butylbenzene.....	ug/kg		ND	5.3	1
541-73-1	1,3-Dichlorobenzene.....	ug/kg		ND	5.3	1
106-46-7	1,4-Dichlorobenzene.....	ug/kg		ND	5.3	1
99-87-6	p-Isopropyltoluene.....	ug/kg		ND	5.3	1
95-50-1	1,2-Dichlorobenzene.....	ug/kg		ND	5.3	1
104-51-8	n-Butylbenzene.....	ug/kg		ND	5.3	1
96-12-8	1,2-Dibromo-3-chloropropane.....	ug/kg		ND	11	1
76-13-1	Trichlorotrifluoroethane.....	ug/kg		ND	5.3	1

SURROGATES- In Percent Recovery:

Toluene-d8.....	109	(81 - 117%)
p-Bromofluorobenzene.....	107	(74 - 121%)
Dibromofluoromethane.....	108	(80 - 120%)
1,2-Dichloroethane-d4.....	112	(80 - 120%)

RL = Reporting Limit

M 4/Jan 99

KEMRON ENVIRONMENTAL SERVICES

Login #L9809522
October 21, 1998 04:03 pm

Lab Sample ID: L9809522-08
Client Sample ID: RE15-98-0036
Site/Work ID: 4659R/MR3R12082642

Matrix: Soil
Collected: 09/23/98 N/A
% Solid: 95
COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	% wt.	95		1.0	1	N/A	DKM	10/15/98	13:50	D2216-90

Product: 8081LA - Pesticides & PCB's - LANL

Lab Sample ID: L9809522-08
Client Sample ID: RE15-98-0036
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 95

TCLP Extract Date: N/A
Extract Date: 09/30/98
Analysis Date: 10/01/98
Time: 10/1/98

Instrument: HP9
Analyst: ECL
Lab File ID: 415.D
Method: 8081A\3550B
Run ID: R53256
Batch: WG46843

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
319-84-6	alpha-BHC.....	ug/kg		ND	1.7	1
319-85-7	beta-BHC.....	ug/kg		ND	1.7	1
319-86-8	delta-BHC.....	ug/kg		ND	1.7	1
58-89-9	gamma-BHC (Lindane).....	ug/kg		ND	1.7	1
76-44-8	Heptachlor.....	ug/kg		ND	1.7	1
309-00-2	Aldrin.....	ug/kg		ND	1.7	1
1024-57-3	Heptachlor epoxide.....	ug/kg		ND	1.7	1
959-98-8	Endosulfan I.....	ug/kg		ND	1.7	1
60-57-1	Dieldrin.....	ug/kg		ND	1.7	1
72-55-9	4,4'-DDE.....	ug/kg		ND	3.5	1
72-20-8	Endrin.....	ug/kg		ND	3.5	1
33213-65-9	Endosulfan II.....	ug/kg		ND	3.5	1
72-54-8	4,4'-DDD.....	ug/kg		ND	3.5	1
1031-07-8	Endosulfan sulfate.....	ug/kg		ND	3.5	1
50-29-3	4,4'-DDT.....	ug/kg		ND	3.5	1
72-43-5	Methoxychlor.....	ug/kg		ND	17	1
53494-70-5	Endrin ketone.....	ug/kg		ND	3.5	1
7421-93-4	Endrin aldehyde.....	ug/kg		ND	0.35	1
5103-71-9	alpha Chlordane.....	ug/kg		ND	1.7	1
5103-74-2	gamma Chlordane.....	ug/kg		ND	1.7	1
8001-35-2	Toxaphene.....	ug/kg		ND	1.7	1
12674-11-2	Aroclor-1016.....	ug/kg		ND	170	1
11104-28-2	Aroclor-1221.....	ug/kg		ND	35	1
11141-16-5	Aroclor-1232.....	ug/kg		ND	69	1
				ND	35	1

RL = Reporting Limit

M 4/Jan 99

Product: 8081LA - Pesticides & PCB's - LANL

Lab Sample ID: L9809522-08
Client Sample ID: RE15-98-0036
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 95

TCLP Extract Date: N/A
Extract Date: 09/30/98
Analysis Date: 10/01/98 Time:

Instrument: HP9
Analyst: ECL
Lab File ID: 415.D
Method: 8081A\3550B
Run ID: R53256
Batch: WG46843

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
53469-21-9	Aroclor-1242	ug/kg		ND (UJ, P3e)	35	1
12672-29-6	Aroclor-1248	ug/kg		ND	35	1
11097-69-1	Aroclor-1254	ug/kg		ND	35	1
11096-82-5	Aroclor-1260	ug/kg		ND	35	1
SURROGATES - In Percent Recovery:						
	2,4,5,6-Tetrachloro-m-xylene		52.2 { Reat	(29 - 133%)		
	Decachlorobiphenyl		72.6 {	(30 - 173%)		
	TCA		48.2 {			
	DCB		53.1 {			

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-08
Client Sample ID: RE15-98-0036
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 95

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 21:58

Instrument: HPMS7
Analyst: MLS
Lab File ID: 5995
Method: 8270C
Run ID: R54614
Batch: WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
62-75-9	n-Nitrosodimethylamine	ug/kg		ND	350	1
62-53-3	Aniline	ug/kg		ND	690	1
108-95-2	Phenol	ug/kg		ND	350	1
111-44-4	bis(2-Chloroethyl) ether	ug/kg		ND	350	1
95-57-8	2-Chlorophenol	ug/kg		ND	350	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	350	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	350	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	350	1
95-48-7	2-Methylphenol	ug/kg		ND	350	1
106-44-5	4-Methylphenol	ug/kg		ND	350	1

RL = Reporting Limit

M74/an 99

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 827LAS - Semivolatle Compounds

Lab Sample ID: L9809522-08
Client Sample ID: RE15-98-0036
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 95

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 21:58

Instrument: HPMS7
Analyst: MLS
Lab File ID: 5995

Method: 8270C
Run ID: R54614
Batch : WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
621-64-7	n-Nitroso-di-n-propylamine.....	ug/kg		ND	350	1
67-72-1	Hexachloroethane.....	ug/kg		ND	350	1
98-95-3	Nitrobenzene.....	ug/kg		ND	350	1
78-59-1	Isophorone.....	ug/kg		ND	350	1
88-75-5	2-Nitrophenol.....	ug/kg		ND	350	1
105-67-9	2,4-Dimethylphenol.....	ug/kg		ND	350	1
65-85-0	Benzoic acid.....	ug/kg		ND	350	1
111-91-1	bis(2-Chloroethoxy)methane.....	ug/kg		ND	350	1
120-83-2	2,4-Dichlorophenol.....	ug/kg		ND	350	1
120-82-1	1,2,4-Trichlorobenzene.....	ug/kg		ND	350	1
91-20-3	Naphthalene.....	ug/kg		ND	350	1
106-47-8	4-Chloroaniline.....	ug/kg		ND	1400	1
87-68-3	Hexachlorobutadiene.....	ug/kg		ND	350	1
59-50-7	4-Chloro-3-methylphenol.....	ug/kg		ND	690	1
91-57-6	2-Methylnaphthalene.....	ug/kg		ND	350	1
77-47-4	Hexachlorocyclopentadiene.....	ug/kg		ND	350	1
88-06-2	2,4,6-Trichlorophenol.....	ug/kg		ND	350	1
95-95-4	2,4,5-Trichlorophenol.....	ug/kg		ND	350	1
91-58-7	2-Chloronaphthalene.....	ug/kg		ND	1700	1
88-74-4	2-Nitroaniline.....	ug/kg		ND	350	1
131-11-3	Dimethylphthalate.....	ug/kg		ND	1700	1
208-96-8	Acenaphthylene.....	ug/kg		ND	350	1
99-09-2	3-Nitroaniline.....	ug/kg		ND	350	1
83-32-9	Acenaphthene.....	ug/kg		ND	1700	1
51-28-5	2,4-Dinitrophenol.....	ug/kg		ND	350	1
100-02-7	4-Nitrophenol.....	ug/kg		ND	1700	1
132-64-9	Dibenzofuran.....	ug/kg		ND	1700	1
121-14-2	2,4-Dinitrotoluene.....	ug/kg		ND	350	1
606-20-2	2,6-Dinitrotoluene.....	ug/kg		ND	350	1
84-66-2	Diethylphthalate.....	ug/kg		ND	350	1
7005-72-3	4-Chlorophenyl-phenyl ether.....	ug/kg		ND	350	1
86-73-7	Fluorene.....	ug/kg		ND	350	1
100-01-6	4-Nitroaniline.....	ug/kg		ND	690	1
534-52-1	4,6-Dinitro-2-methylphenol.....	ug/kg		ND	1700	1
86-30-6	n-Nitrosodiphenylamine.....	ug/kg		ND	350	1
103-33-3	Azobenzene.....	ug/kg		ND	690	1
101-55-3	4-Bromophenyl-phenylether.....	ug/kg		ND	350	1
118-74-1	Hexachlorobenzene.....	ug/kg		ND	350	1
87-86-5	Pentachlorophenol.....	ug/kg		ND	1700	1

RL = Reporting Limit

M 4 / an 99

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-08
Client Sample ID: RE15-98-0036
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 95

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 21:58

Instrument: HPMS7
Analyst: MLS
Lab File ID: 5995

Method: 8270C
Run ID: R54614
Batch : WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
85-01-8	Phenanthrene.....	ug/kg		ND	350	1
120-12-7	Anthracene.....	ug/kg		ND	350	1
84-74-2	Di-n-butylphthalate.....	ug/kg		ND	350	1
206-44-0	Fluoranthene.....	ug/kg		ND	350	1
129-00-0	Pyrene.....	ug/kg		ND	350	1
85-68-7	Butylbenzylphthalate.....	ug/kg		ND	350	1
91-94-1	3,3'-Dichlorobenzidine.....	ug/kg		ND	350	1
56-55-3	Benzo(a)anthracene.....	ug/kg		ND	690	1
117-81-7	bis(2-Ethylhexyl)phthalate.....	ug/kg		ND	350	1
218-01-9	Chrysene.....	ug/kg		ND	350	1
117-84-0	Di-n-octylphthalate.....	ug/kg		ND	350	1
205-99-2	Benzo(b)fluoranthene.....	ug/kg		ND	350	1
207-08-9	Benzo(k)fluoranthene.....	ug/kg		ND	350	1
50-32-8	Benzo(a)pyrene.....	ug/kg		ND	350	1
193-39-5	Indeno(1,2,3-cd)pyrene.....	ug/kg		ND	350	1
53-70-3	Dibenzo(a,h)anthracene.....	ug/kg		ND	350	1
191-24-2	Benzo(g,h,i)Perylene.....	ug/kg		ND	350	1
100-51-6	Benzyl alcohol.....	ug/kg		ND	350	1
108-60-1	2,2'-Oxybis(1-chloropropane).....	ug/kg		ND	1400	1
					350	1
SURROGATES- In Percent Recovery:						
	2,4,6-Tribromophenol.....	76.2	(19 - 122%)			
	2-Fluorobiphenyl.....	58.3	(30 - 115%)			
	2-Fluorophenol.....	51.0	(25 - 121%)			
	Nitrobenzene-d5.....	53.5	(23 - 120%)			
	Phenol-d5.....	54.0	(24 - 113%)			
	p-Terphenyl-d14.....	106	(18 - 137%)			

M74/om 99

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L9809522-09
Client Sample ID: RE15-98-0037
Site/Work ID: 4659R/MR3R12082642

Matrix: Soil
Collected: 09/23/98 N/A
% Solid: 100
COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	% wt.	100		1.0	1	N/A	DKM	10/15/98	14:40	D2216-90

Product: 8081LA - Pesticides & PCB's - LANL

Lab Sample ID: L9809522-09
Client Sample ID: RE15-98-0037
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 100

TCPL Extract Date: N/A

Extract Date: 09/30/98

Analysis Date: 10/01/98

Instrument: HP9

Analyst: ECL

Lab File ID: 416.D

Method: 8081A\3550B

Run ID: R53256

Batch: WG46843

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
319-84-6	alpha-BHC.....	ug/kg		ND	1.7	1
319-85-7	beta-BHC.....	ug/kg		ND	1.7	1
319-86-8	delta-BHC.....	ug/kg		ND	1.7	1
58-89-9	gamma-BHC (Lindane).....	ug/kg		ND	1.7	1
76-44-8	Heptachlor.....	ug/kg		ND	1.7	1
309-00-2	Aldrin.....	ug/kg		ND	1.7	1
1024-57-3	Heptachlor epoxide.....	ug/kg		ND	1.7	1
959-98-8	Endosulfan I.....	ug/kg		ND	1.7	1
60-57-1	Dieldrin.....	ug/kg		ND	1.7	1
72-55-9	4,4'-DDE.....	ug/kg		ND	3.3	1
72-20-8	Endrin.....	ug/kg		ND	3.3	1
33213-65-9	Endosulfan II.....	ug/kg		ND	3.3	1
72-54-8	4,4'-DDD.....	ug/kg		ND	3.3	1
1031-07-8	Endosulfan sulfate.....	ug/kg		ND	3.3	1
50-29-3	4,4'-DDT.....	ug/kg		ND	3.3	1
72-43-5	Methoxychlor.....	ug/kg		ND	17	1
53494-70-5	Endrin ketone.....	ug/kg		ND	3.3	1
7421-93-4	Endrin aldehyde.....	ug/kg		ND	0.33	1
5103-71-9	alpha Chlordane.....	ug/kg		ND	1.7	1
5103-74-2	gamma Chlordane.....	ug/kg		ND	1.7	1
8001-35-2	Toxaphene.....	ug/kg		ND	1.7	1
12674-11-2	Aroclor-1016.....	ug/kg		ND	170	1
11104-28-2	Aroclor-1221.....	ug/kg		ND	33	1
11141-16-5	Aroclor-1232.....	ug/kg		ND	66	1
				ND	33	1

RL = Reporting Limit

M 4/Jan 99

Product: 8081LA - Pesticides & PCB's - LANL

Lab Sample ID: L9809522-09
Client Sample ID: RE15-98-0037
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 100

TCLP Extract Date: N/A
Extract Date: 09/30/98
Analysis Date: 10/01/98 Time:

Instrument: HP9
Analyst: ECL
Lab File ID: 416.D

Method: 8081A\3550B
Run ID: R53256
Batch: WG46843

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
53469-21-9	Aroclor-1242	ug/kg		ND (UJ, P3c)	33	1
12672-29-6	Aroclor-1248	ug/kg		ND	33	1
11097-69-1	Aroclor-1254	ug/kg		ND	33	1
11096-82-5	Aroclor-1260	ug/kg		ND	33	1
SURROGATES- In Percent Recovery:						
	2,4,5,6-Tetrachloro-m-xylene		54.2% PEST	(29 - 133%)		
	Decachlorobiphenyl		79.1%	(30 - 173%)		
	TCB	49.6				
	DCB	57.3				

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-09
Client Sample ID: RE15-98-0037
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 100

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 22:37

Instrument: HPMS7
Analyst: MLS
Lab File ID: 5996

Method: 8270C
Run ID: R54614
Batch: WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
62-75-9	n-Nitrosodimethylamine	ug/kg		ND	330	1
62-53-3	Aniline	ug/kg		ND	660	1
108-95-2	Phenol	ug/kg		ND	330	1
111-44-4	bis(2-Chloroethyl) ether	ug/kg		ND	330	1
95-57-8	2-Chlorophenol	ug/kg		ND	330	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	330	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	330	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	330	1
95-48-7	2-Methylphenol	ug/kg		ND	330	1
106-44-5	4-Methylphenol	ug/kg		ND	330	1

RL = Reporting Limit

A74/am 99

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-09
Client Sample ID: RE15-98-0037
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 100

TCLP Extract Date: N/A

Extract Date: 09/29/98

Analysis Date: 10/16/98 Time: 22:37

Instrument: HPMS7
Analyst: MLS
Lab File ID: 5996

Method: 8270C
Run ID: R54614
Batch : WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
621-64-7	n-Nitroso-di-n-propylamine.....	ug/kg		ND	330	1
67-72-1	Hexachloroethane.....	ug/kg		ND	330	1
98-95-3	Nitrobenzene.....	ug/kg		ND	330	1
78-59-1	Isophorone.....	ug/kg		ND	330	1
88-75-5	2-Nitrophenol.....	ug/kg		ND	330	1
105-67-9	2,4-Dimethylphenol.....	ug/kg		ND	330	1
65-85-0	Benzoic acid.....	ug/kg		ND	330	1
111-91-1	bis(2-Chloroethoxy)methane.....	ug/kg		ND	3300	1
120-83-2	2,4-Dichlorophenol.....	ug/kg		ND	330	1
120-82-1	1,2,4-Trichlorobenzene.....	ug/kg		ND	330	1
91-20-3	Naphthalene.....	ug/kg		ND	330	1
106-47-8	4-Chloroaniline.....	ug/kg		ND	330	1
87-68-3	Hexachlorobutadiene.....	ug/kg		ND	1300	1
59-50-7	4-Chloro-3-methylphenol.....	ug/kg		ND	660	1
91-57-6	2-Methylnaphthalene.....	ug/kg		ND	330	1
77-47-4	Hexachlorocyclopentadiene.....	ug/kg		ND	330	1
88-06-2	2,4,6-Trichlorophenol.....	ug/kg		ND	330	1
95-95-4	2,4,5-Trichlorophenol.....	ug/kg		ND	330	1
91-58-7	2-Chloronaphthalene.....	ug/kg		ND	1600	1
88-74-4	2-Nitroaniline.....	ug/kg		ND	330	1
131-11-3	Dimethylphthalate.....	ug/kg		ND	1600	1
208-96-8	Acenaphthylene.....	ug/kg		ND	330	1
99-09-2	3-Nitroaniline.....	ug/kg		ND	330	1
83-32-9	Acenaphthene.....	ug/kg		ND	1600	1
51-28-5	2,4-Dinitrophenol.....	ug/kg		ND	330	1
100-02-7	4-Nitrophenol.....	ug/kg		ND	1600	1
132-64-9	Dibenzofuran.....	ug/kg		ND	1600	1
121-14-2	2,4-Dinitrotoluene.....	ug/kg		ND	330	1
606-20-2	2,6-Dinitrotoluene.....	ug/kg		ND	330	1
84-66-2	Diethylphthalate.....	ug/kg		ND	330	1
7005-72-3	4-Chlorophenyl-phenyl ether.....	ug/kg		ND	330	1
86-73-7	Fluorene.....	ug/kg		ND	330	1
100-01-6	4-Nitroaniline.....	ug/kg		ND	330	1
534-52-1	4,6-Dinitro-2-methylphenol.....	ug/kg		ND	660	1
86-30-6	n-Nitrosodiphenylamine.....	ug/kg		ND	1600	1
103-33-3	Azobenzene.....	ug/kg		ND	330	1
101-55-3	4-Bromophenyl-phenylether.....	ug/kg		ND	660	1
118-74-1	Hexachlorobenzene.....	ug/kg		ND	330	1
87-86-5	Pentachlorophenol.....	ug/kg		ND	330	1

RL = Reporting Limit

A74/am 99

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-09
Client Sample ID: RE15-98-0037
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98

Sample Weight: N/A
Extract Volume: N/A

% Solid: 100
Method: 8270C
Run ID: R54614
Batch : WG47900

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 22:37

Instrument: HPMS7
Analyst: MLS
Lab File ID: 5996

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
85-01-8	Phenanthrene	ug/kg		ND	330	1
120-12-7	Anthracene	ug/kg		ND	330	1
84-74-2	Di-n-butylphthalate	ug/kg		ND	330	1
206-44-0	Fluoranthene	ug/kg		ND	330	1
129-00-0	Pyrene	ug/kg		ND	330	1
85-68-7	Butylbenzylphthalate	ug/kg		ND	330	1
91-94-1	3,3'-Dichlorobenzidine	ug/kg		ND	660	1
56-55-3	Benzo(a)anthracene	ug/kg		ND	330	1
117-81-7	bis(2-Ethylhexyl)phthalate	ug/kg		ND	330	1
218-01-9	Chrysene	ug/kg		ND	330	1
117-84-0	Di-n-octylphthalate	ug/kg		ND	330	1
205-99-2	Benzo(b)fluoranthene	ug/kg		ND	330	1
207-08-9	Benzo(k)fluoranthene	ug/kg		ND	330	1
50-32-8	Benzo(a)pyrene	ug/kg		ND	330	1
193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg		ND	330	1
53-70-3	Dibenzo(a,h)anthracene	ug/kg		ND	330	1
191-24-2	Benzo(g,h,i)Perylene	ug/kg		ND	330	1
100-51-6	Benzyl alcohol	ug/kg		ND	330	1
108-60-1	2,2'-Oxybis(1-chloropropane)	ug/kg		ND	1300	1
SURROGATES- In Percent Recovery:						
2,4,6-Tribromophenol		83.3	(19 - 122%)			
2-Fluorobiphenyl		68.3	(30 - 115%)			
2-Fluorophenol		56.9	(25 - 121%)			
Nitrobenzene-d5		62.0	(23 - 120%)			
Phenol-d5		60.3	(24 - 113%)			
p-Terphenyl-d14		104	(18 - 137%)			

RL = Reporting Limit

M 4 / an 99

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826LA - Volatile Organics

Lab Sample ID: L9809522-09
Client Sample ID: RE15-98-0037
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 100

TCLP Extract Date: N/A
Extract Date: N/A

Instrument: HPMS6

Method: 8260B
Run ID: R53603
Batch : WG47027

Analysis Date: 10/03/98 Time: 17:34

Analyst: CMS
Lab File ID: 6LA10370

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
75-71-8	Dichlorodifluoromethane.....	ug/kg		ND	10	1
74-87-3	Chloromethane.....	ug/kg		ND	10	1
75-01-4	Vinyl chloride.....	ug/kg		ND	10	1
74-83-9	Bromomethane.....	ug/kg		ND	10	1
75-00-3	Chloroethane.....	ug/kg		ND	10	1
75-69-4	Trichlorofluoromethane.....	ug/kg		ND	5.0	1
75-35-4	1,1-Dichloroethene.....	ug/kg		ND	5.0	1
74-88-4	Iodomethane.....	ug/kg		ND	5.0	1
75-15-0	Carbon disulfide.....	ug/kg		ND	5.0	1
67-64-1	Acetone.....	ug/kg		ND	20	1
75-09-2	Methylene chloride.....	ug/kg		ND	5.0	1
156-60-5	trans-1,2-Dichloroethene.....	ug/kg		ND	10	1
75-34-3	1,1-Dichloroethane.....	ug/kg		ND	5.0	1
594-20-7	2,2-Dichloropropane.....	ug/kg		ND	5.0	1
156-59-2	cis-1,2-Dichloroethene.....	ug/kg		ND	10	1
78-93-3	2-Butanone.....	ug/kg		ND	20	1
74-97-5	Bromochloromethane.....	ug/kg		ND	5.0	1
67-66-3	Chloroform.....	ug/kg		ND	5.0	1
71-55-6	1,1,1-Trichloroethane.....	ug/kg		ND	5.0	1
56-23-5	Carbon tetrachloride.....	ug/kg		ND	5.0	1
563-58-6	1,1-Dichloropropene.....	ug/kg		ND	5.0	1
71-43-2	Benzene.....	ug/kg		ND	5.0	1
107-06-2	1,2-Dichloroethane.....	ug/kg		ND	5.0	1
79-01-6	Trichloroethene.....	ug/kg		ND	5.0	1
78-87-5	1,2-Dichloropropane.....	ug/kg		ND	5.0	1
74-95-3	Dibromomethane.....	ug/kg		ND	5.0	1
75-27-4	Bromodichloromethane.....	ug/kg		ND	5.0	1
10061-02-6	trans-1,3-Dichloropropene.....	ug/kg		ND	5.0	1
108-10-1	4-Methyl-2-pentanone.....	ug/kg		ND	20	1
108-88-3	Toluene.....	ug/kg		ND	5.0	1
10061-01-5	cis-1,3-Dichloropropene.....	ug/kg		ND	5.0	1
79-00-5	1,1,2-Trichloroethane.....	ug/kg		ND	5.0	1
127-18-4	Tetrachloroethene.....	ug/kg		ND	5.0	1
142-28-9	1,3-Dichloropropane.....	ug/kg		ND	5.0	1
124-48-1	Dibromochloromethane.....	ug/kg		ND	5.0	1
591-78-6	2-Hexanone.....	ug/kg		ND	20	1
106-93-4	1,2-Dibromoethane.....	ug/kg		ND	5.0	1
108-90-7	Chlorobenzene.....	ug/kg		ND	5.0	1
630-20-6	1,1,1,2-Tetrachloroethane.....	ug/kg		ND	5.0	1

RL = Reporting Limit

M 4/Jan 99

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826LA - Volatile Organics

Lab Sample ID: L9809522-09
Client Sample ID: RE15-98-0037
Site/Work ID: 4659R/WR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A
% Solid: 100

Date Collected: 09/23/98

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 10/03/98 Time: 17:34

Instrument: HPMS6
Analyst: CMS
Lab File ID: 6LA10370
Method: 8260B
Run ID: R53603
Batch: WG47027

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethyl benzene.....	ug/kg		ND	5.0	1
1330-20-7	Xylenes (total).....	ug/kg		ND	5.0	1
100-42-5	Styrene.....	ug/kg		ND	5.0	1
75-25-2	Bromoform.....	ug/kg		ND	5.0	1
98-82-8	Isopropylbenzene.....	ug/kg		ND	5.0	1
108-86-1	Bromobenzene.....	ug/kg		ND	5.0	1
96-18-4	1,2,3-Trichloropropane.....	ug/kg		ND	5.0	1
79-34-5	1,1,2,2-Tetrachloroethane.....	ug/kg		ND	5.0	1
103-65-1	n-Propylbenzene.....	ug/kg		ND	5.0	1
95-49-8	2-Chlorotoluene.....	ug/kg		ND	5.0	1
106-43-4	4-Chlorotoluene.....	ug/kg		ND	5.0	1
108-67-8	1,3,5-Trimethylbenzene.....	ug/kg		ND	5.0	1
98-06-6	tert-Butylbenzene.....	ug/kg		ND	5.0	1
95-63-6	1,2,4-Trimethylbenzene.....	ug/kg		ND	5.0	1
135-98-8	sec-Butylbenzene.....	ug/kg		ND	5.0	1
541-73-1	1,3-Dichlorobenzene.....	ug/kg		ND	5.0	1
106-46-7	1,4-Dichlorobenzene.....	ug/kg		ND	5.0	1
99-87-6	p-Isopropyltoluene.....	ug/kg		ND	5.0	1
95-50-1	1,2-Dichlorobenzene.....	ug/kg		ND	5.0	1
104-51-8	n-Butylbenzene.....	ug/kg		ND	5.0	1
96-12-8	1,2-Dibromo-3-chloropropane.....	ug/kg		ND	5.0	1
76-13-1	Trichlorotrifluoroethane.....	ug/kg		ND	10	1
					5.0	1
SURROGATES- In Percent Recovery:						
	Toluene-d8.....	93.6	(81 - 117%)			
	p-Bromofluorobenzene.....	78.2	(74 - 121%)			
	Dibromofluoromethane.....	99.4	(80 - 120%)			
	1,2-Dichloroethane-d4.....	108	(80 - 120%)			

RL = Reporting Limit

174/aw99

CCS/VALIDATION COVER SHEET

MR3R12882642
C CODE _____

SDG 4659

LAB NAME Kemlon

LAB CODE _____

NAME OF CCS CHECKER _____

COMPANY _____

NAME OF VALIDATOR Antonia Tallarico

COMPANY ICF Kaiser

CCS DATA _____

VALIDATION DATE 4 Jan 99

EDS ENTRY DATE _____

ANALYTICAL SUITE:

- ☒ VOLATILES
☐ SEMIVOLATILES
☐ PESTICIDES

- ☐ HIGH EXPLOSIVE
☐ INORGANICS
☐ RADIOCHEMISTRY

GENERAL CHECKLIST

PRESENT

X IF "YES"

O IF "NO"

1. CASE NARRATIVE _____
2. AIRBILLS (NO. OF SHIPMENTS _____)
3. CHAIN-OF-CUSTODY RECORDS _____
4. SAMPLE TAGS _____
5. SAMPLE LOG-IN SHEETS _____
6. INTERNAL LAB SAMPLE TRANSFER RECORDS
AND TRACKING SHEETS _____
7. OTHER? IDENTIFY _____

ARE ALL SAMPLES ASSIGNED TO THE SDG PRESENT

YES

NO

IDENTIFY ANY SAMPLES IN THE ASSIGNED SDG?RN THAT ARE MISSING

COMMENTS/ PROBLEMS NOTED, INCLUDING INFORMATION ABOUT REQUEST TO THE
LABORATORY AND AGREED UPON DATA OF RESOLUTION AND LAB CONTACT:

KEMRON Environmental Services
109 Starlite Park
Marietta, Ohio 45750
Phone: (740) 373-4071

Los Alamos National Laboratory
SMO, TA-3, Bldg. 271
MS H865, Drop Point OIU
Los Alamos, NM 87545
Attention: Joylene Valdez

PO Number:

Account Number: LANL-295

Login #: L9809522

Report Date: 10/21/98

Work ID: 4659R/MR3R12082642

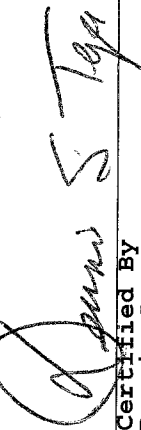
Date Received: 09/26/98

SAMPLE IDENTIFICATION

Sample Number	Sample Description	Sample Number	Sample Description
L9809522-01	RE15-98-0029	L9809522-02	RE15-98-0030
L9809522-03	RE15-98-0031	L9809522-04	RE15-98-0032
L9809522-05	RE15-98-0033	L9809522-06	RE15-98-0034
L9809522-07	RE15-98-0035	L9809522-08	RE15-98-0036
L9809522-09	RE15-98-0037		

All results on solids/sludges are reported on a dry weight basis, where applicable, unless otherwise specified. This report shall not be reproduced, except in full, without the written approval of KEMRON.

NYSDEC ELAP ID: 10861



Certified By
Dennis S. Tepe

Order #98-09-522
November 1, 1998
11:53

KEMRON ENVIRONMENTAL SERVICES
REPORT NARRATIVE

Lab ID# 7797L0014-8M

CLIENT: Los Alamos National Laboratory

LANL SDG/RN: 4659R

Sample Management:

Nine soil samples were received at Kemron Environmental Services on 9/26/98.

Client ID:

RE-98-0029

-0030

-0031

-0033

-0034

-0035

-0036

-0037

Quality Control:

VOLATILE ORGANICS - 8260:

Several MS/MSD and RPD results were outside acceptable limits. All MS/MSD and RPD outliers were acceptable in the LCS. MS/MSD analysis was performed on a non LANL sample.

SEMIVOLATILES - 8270:

The batch LCS yielded a % recovery for pyridine that was outside advisory limits. The MS/MSD yielded % recoveries for benzoic acid and 2,4-dinitrophenol that were outside advisory limits. All other analytes were within limits. MS/MSD analysis was performed on sample MD21-98-0165 RN 4678R.

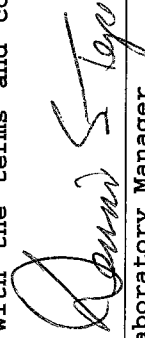
PESTICIDES - 8081:

There were no technical difficulties encountered during the analysis of these samples. MS/MSD analysis was performed on sample RE15-98-0029.

Shipment Conditions:

The samples were received intact. Solid blue ice was present.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and in completeness, except as detailed in this QC Report.


Laboratory Manager

Date: Nov 1 1998

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L9809522-01
Client Sample ID: RE15-98-0029
Site/Work ID: 4659R/MR3R12082642

Matrix: Soil
Collected: 09/23/98 N/A
% Solid: 98
COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	% wt.	98		1.0	1	N/A	DKM	10/15/98	13:50	D2216-90

Product: 8081LA - Pesticides & PCB's - LANL

Lab Sample ID: L9809522-01
Client Sample ID: RE15-98-0029
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 98

TCPLP Extract Date: N/A
Extract Date: 09/30/98
Analysis Date: 09/30/98 Time:

Instrument: HP9
Analyst: ECL
Lab File ID: 403.D
Method: 8081A\3550B
Run ID: R53252
Batch : WG46843

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
319-84-6	alpha-BHC.....	ug/kg		ND	1.7	1
319-85-7	beta-BHC.....	ug/kg		ND	1.7	1
319-86-8	delta-BHC.....	ug/kg		ND	1.7	1
58-89-9	gamma-BHC (Lindane).....	ug/kg		ND	1.7	1
76-44-8	Heptachlor.....	ug/kg		ND	1.7	1
309-00-2	Aldrin.....	ug/kg		ND	1.7	1
1024-57-3	Heptachlor epoxide.....	ug/kg		ND	1.7	1
959-98-8	Endosulfan I.....	ug/kg		ND	1.7	1
60-57-1	Dieldrin.....	ug/kg		ND	1.7	1
72-55-9	4,4'-DDE.....	ug/kg		ND	3.4	1
72-20-8	Endrin.....	ug/kg		ND	3.4	1
33213-65-9	Endosulfan II.....	ug/kg		ND	3.4	1
72-54-8	4,4'-DDD.....	ug/kg		ND	3.4	1
1031-07-8	Endosulfan sulfate.....	ug/kg		ND	3.4	1
50-29-3	4,4'-DDT.....	ug/kg		ND	3.4	1
72-43-5	Methoxychlor.....	ug/kg		ND	17	1
53494-70-5	Endrin ketone.....	ug/kg		ND	3.4	1
7421-93-4	Endrin aldehyde.....	ug/kg		ND	0.34	1
5103-71-9	alpha Chlordane.....	ug/kg		ND	1.7	1
5103-74-2	gamma Chlordane.....	ug/kg		ND	1.7	1
8001-35-2	Toxaphene.....	ug/kg		ND	1.7	1
12674-11-2	Aroclor-1016.....	ug/kg		ND	170	1
11104-28-2	Aroclor-1221.....	ug/kg		ND	34	1
11141-16-5	Aroclor-1232.....	ug/kg		ND	67	1
		ug/kg		ND	34	1

RL = Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 80811A - Pesticides & PCB's - LANL

Lab Sample ID: L9809522-01
Client Sample ID: RE15-98-0029
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 98

TCLP Extract Date: N/A
Extract Date: 09/30/98
Analysis Date: 09/30/98 Time:

Instrument: HP9
Analyst: ECL
Lab File ID: 403.D
Method: 8081A\3550B
Run ID: R53252
Batch: WG46843

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
53469-21-9	Aroclor-1242	ug/kg			34	1
12672-29-6	Aroclor-1248	ug/kg		ND	34	1
11097-69-1	Aroclor-1254	ug/kg		ND	34	1
11096-82-5	Aroclor-1260	ug/kg		ND	34	1
SURROGATES- In Percent Recovery:						
	2,4,5,6-Tetrachloro-m-xylene	53.6		(29 - 133%)		
	Decachlorobiphenyl	79.0		(30 - 173%)		

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-01
Client Sample ID: RE15-98-0029
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 98

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 17:28

Instrument: HPMS7
Analyst: MLS
Lab File ID: 5988
Method: 8270C
Run ID: R54614
Batch: WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
62-75-9	n-Nitrosodimethylamine	ug/kg			340	1
62-53-3	Aniline	ug/kg		ND	670	1
108-95-2	Phenol	ug/kg		ND	340	1
111-44-4	bis(2-Chloroethyl) ether	ug/kg		ND	340	1
95-57-8	2-Chlorophenol	ug/kg		ND	340	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	340	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	340	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	340	1
95-48-7	2-Methylphenol	ug/kg		ND	340	1
106-44-5	4-Methylphenol	ug/kg		ND	340	1

RL = Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 827LAS - Semivolatle Compounds

Lab Sample ID: L9809522-01
Client Sample ID: RE15-98-0029
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 98

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98

Time: 17:28

Instrument: HPMS7
Analyst: MJS
Lab File ID: 5988

Method: 8270C
Run ID: R54614
Batch : WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
621-64-7	n-Nitroso-di-n-propylamine	ug/kg		ND	340	1
67-72-1	Hexachloroethane	ug/kg		ND	340	1
98-95-3	Nitrobenzene	ug/kg		ND	340	1
78-59-1	Isophorone	ug/kg		ND	340	1
88-75-5	2-Nitrophenol	ug/kg		ND	340	1
105-67-9	2,4-Dimethylphenol	ug/kg		ND	340	1
65-85-0	Benzoic acid	ug/kg		ND	340	1
111-91-1	bis(2-Chloroethoxy)methane	ug/kg		ND	3400	1
120-83-2	2,4-Dichlorophenol	ug/kg		ND	340	1
120-82-1	1,2,4-Trichlorobenzene	ug/kg		ND	340	1
91-20-3	Naphthalene	ug/kg		ND	340	1
106-47-8	4-Chloroaniline	ug/kg		ND	340	1
87-68-3	Hexachlorobutadiene	ug/kg		ND	1300	1
59-50-7	4-Chloro-3-methylphenol	ug/kg		ND	340	1
91-57-6	2-Methylnaphthalene	ug/kg		ND	670	1
77-47-4	Hexachlorocyclopentadiene	ug/kg		ND	340	1
88-06-2	2,4,6-Trichlorophenol	ug/kg		ND	340	1
95-95-4	2,4,5-Trichlorophenol	ug/kg		ND	340	1
91-58-7	2-Chloronaphthalene	ug/kg		ND	1600	1
88-74-4	2-Nitroaniline	ug/kg		ND	340	1
131-11-3	Dimethylphthalate	ug/kg		ND	1600	1
208-96-8	Acenaphthylene	ug/kg		ND	340	1
99-09-2	3-Nitroaniline	ug/kg		ND	340	1
83-32-9	Acenaphthene	ug/kg		ND	1600	1
51-28-5	2,4-Dinitrophenol	ug/kg		ND	340	1
100-02-7	4-Nitrophenol	ug/kg		ND	1600	1
132-64-9	Dibenzofuran	ug/kg		ND	1600	1
121-14-2	2,4-Dinitrotoluene	ug/kg		ND	340	1
606-20-2	2,6-Dinitrotoluene	ug/kg		ND	340	1
84-66-2	Diethylphthalate	ug/kg		ND	340	1
7005-72-3	4-Chlorophenyl-phenyl ether	ug/kg		ND	340	1
86-73-7	Fluorene	ug/kg		ND	340	1
100-01-6	4-Nitroaniline	ug/kg		ND	340	1
534-52-1	4,6-Dinitro-2-methylphenol	ug/kg		ND	670	1
86-30-6	n-Nitrosodiphenylamine	ug/kg		ND	1600	1
103-33-3	Azobenzene	ug/kg		ND	340	1
101-55-3	4-Bromophenyl-phenylether	ug/kg		ND	670	1
118-74-1	Hexachlorobenzene	ug/kg		ND	340	1
87-86-5	Pentachlorophenol	ug/kg		ND	340	1

RL = Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-01
Client Sample ID: RE15-98-0029
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 98

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98
Time: 17:28

Instrument: HPMS7
Analyst: MLS
Lab File ID: 5988

Method: 8270C
Run ID: R54614
Batch: WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
85-01-8	Phenanthrene	ug/kg		ND	340	1
120-12-7	Anthracene	ug/kg		ND	340	1
84-74-2	Di-n-butylphthalate	ug/kg		ND	340	1
206-44-0	Fluoranthene	ug/kg		ND	340	1
129-00-0	Pyrene	ug/kg		ND	340	1
85-68-7	Butylbenzylphthalate	ug/kg		ND	340	1
91-94-1	3,3'-Dichlorobenzidine	ug/kg		ND	340	1
56-55-3	Benzo(a)anthracene	ug/kg		ND	670	1
117-81-7	bis(2-Ethylhexyl)phthalate	ug/kg		ND	340	1
218-01-9	Chrysene	ug/kg		ND	340	1
117-84-0	Di-n-octylphthalate	ug/kg		ND	340	1
205-99-2	Benzo(b)fluoranthene	ug/kg		ND	340	1
207-08-9	Benzo(k)fluoranthene	ug/kg		ND	340	1
50-32-8	Benzo(a)pyrene	ug/kg		ND	340	1
193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg		ND	340	1
53-70-3	Dibenzo(a,h)anthracene	ug/kg		ND	340	1
191-24-2	Benzo(g,h,i)Perylene	ug/kg		ND	340	1
100-51-6	Benzyl alcohol	ug/kg		ND	340	1
108-60-1	2,2'-Oxybis(1-chloropropane)	ug/kg		ND	1300	1
					340	1
SURROGATES- In Percent Recovery:						
	2,4,6-Tribromophenol	83.9	(19 - 122%)			
	2-Fluorobiphenyl	76.2	(30 - 115%)			
	2-Fluorophenol	58.0	(25 - 121%)			
	Nitrobenzene-d5	65.3	(23 - 120%)			
	Phenol-d5	66.4	(24 - 113%)			
	p-Terphenyl-d14	109	(18 - 137%)			

RL = Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 8261A - Volatile Organics

Lab Sample ID: L9809522-01
Client Sample ID: RE15-98-0029
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HPMS6
Analyst: CMS
Lab File ID: 6LA10327

Sample Weight: N/A
Extract Volume: N/A
% Solid: 98
Method: 8260B
Run ID: R53363
Batch: WG46934

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 10/01/98 Time: 20:01

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
75-71-8	Dichlorodifluoromethane.....	ug/kg		ND	10	1
74-87-3	Chloromethane.....	ug/kg		ND	10	1
75-01-4	Vinyl chloride.....	ug/kg		ND	10	1
74-83-9	Bromomethane.....	ug/kg		ND	10	1
75-00-3	Chloroethane.....	ug/kg		ND	10	1
75-69-4	Trichlorofluoromethane.....	ug/kg		ND	5.1	1
75-35-4	1,1-Dichloroethene.....	ug/kg		ND	5.1	1
74-88-4	Iodomethane.....	ug/kg		ND	5.1	1
75-15-0	Carbon disulfide.....	ug/kg		ND	5.1	1
67-64-1	Acetone.....	ug/kg		ND	20	1
75-09-2	Methylene chloride.....	ug/kg		ND	5.1	1
156-60-5	trans-1,2-Dichloroethene.....	ug/kg		ND	10	1
75-34-3	1,1-Dichloroethane.....	ug/kg		ND	5.1	1
594-20-7	2,2-Dichloropropane.....	ug/kg		ND	5.1	1
156-59-2	cis-1,2-Dichloroethene.....	ug/kg		ND	10	1
78-93-3	2-Butanone.....	ug/kg		ND	20	1
74-97-5	Bromochloromethane.....	ug/kg		ND	5.1	1
67-66-3	Chloroform.....	ug/kg		ND	5.1	1
71-55-6	1,1,1-Trichloroethane.....	ug/kg		ND	5.1	1
56-23-5	Carbon tetrachloride.....	ug/kg		ND	5.1	1
563-58-6	1,1-Dichloropropene.....	ug/kg		ND	5.1	1
71-43-2	Benzene.....	ug/kg		ND	5.1	1
107-06-2	1,2-Dichloroethane.....	ug/kg		ND	5.1	1
79-01-6	Trichloroethene.....	ug/kg		ND	5.1	1
78-87-5	1,2-Dichloropropane.....	ug/kg		ND	5.1	1
74-95-3	Dibromomethane.....	ug/kg		ND	5.1	1
75-27-4	Bromodichloromethane.....	ug/kg		ND	5.1	1
10061-02-6	trans-1,3-Dichloropropene.....	ug/kg		ND	5.1	1
108-10-1	4-Methyl-2-pentanone.....	ug/kg		ND	20	1
108-88-3	Toluene.....	ug/kg		ND	5.1	1
10061-01-5	cis-1,3-Dichloropropene.....	ug/kg		ND	5.1	1
79-00-5	1,1,2-Trichloroethane.....	ug/kg		ND	5.1	1
127-18-4	Tetrachloroethene.....	ug/kg		ND	5.1	1
142-28-9	1,3-Dichloropropene.....	ug/kg		ND	5.1	1
124-48-1	Dibromochloromethane.....	ug/kg		ND	5.1	1
591-78-6	2-Hexanone.....	ug/kg		ND	5.1	1
106-93-4	1,2-Dibromoethane.....	ug/kg		ND	20	1
108-90-7	Chlorobenzene.....	ug/kg		ND	5.1	1
630-20-6	1,1,1,2-Tetrachloroethane.....	ug/kg		ND	5.1	1

RL = Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826LA - Volatile Organics

Lab Sample ID: L9809522-01
Client Sample ID: RE15-98-0029
Site/Work ID: 4659R/WR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 98

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 10/01/98

Instrument: HPMS6
Analyst: CMS
Lab File ID: 6LA10327

Method: 8260B
Run ID: R53363
Batch : WG46934

Time: 20:01

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethyl benzene.....	ug/kg		ND	5.1	1
1330-20-7	Xylenes (total).....	ug/kg		ND	5.1	1
100-42-5	Styrene.....	ug/kg		ND	5.1	1
75-25-2	Bromoform.....	ug/kg		ND	5.1	1
98-82-8	Isopropylbenzene.....	ug/kg		ND	5.1	1
108-86-1	Bromobenzene.....	ug/kg		ND	5.1	1
96-18-4	1,2,3-Trichloropropane.....	ug/kg		ND	5.1	1
79-34-5	1,1,2,2-Tetrachloroethane.....	ug/kg		ND	5.1	1
103-65-1	n-Propylbenzene.....	ug/kg		ND	5.1	1
95-49-8	2-Chlorotoluene.....	ug/kg		ND	5.1	1
106-43-4	4-Chlorotoluene.....	ug/kg		ND	5.1	1
108-67-8	1,3,5-Trimethylbenzene.....	ug/kg		ND	5.1	1
98-06-6	tert-Butylbenzene.....	ug/kg		ND	5.1	1
95-63-6	1,2,4-Trimethylbenzene.....	ug/kg		ND	5.1	1
135-98-8	sec-Butylbenzene.....	ug/kg		ND	5.1	1
541-73-1	1,3-Dichlorobenzene.....	ug/kg		ND	5.1	1
106-46-7	1,4-Dichlorobenzene.....	ug/kg		ND	5.1	1
99-87-6	p-Isopropyltoluene.....	ug/kg		ND	5.1	1
95-50-1	1,2-Dichlorobenzene.....	ug/kg		ND	5.1	1
104-51-8	n-Butylbenzene.....	ug/kg		ND	5.1	1
96-12-8	1,2-Dibromo-3-chloropropane.....	ug/kg		ND	10	1
76-13-1	Trichlorotrifluoroethane.....	ug/kg		ND	5.1	1
SURROGATES- In Percent Recovery:						
	Toluene-d8.....	95.1	(81 - 117%)			
	p-Bromofluorobenzene.....	85.3	(74 - 121%)			
	Dibromofluoromethane.....	98.3	(80 - 120%)			
	1,2-Dichloroethane-d4.....	103	(80 - 120%)			

RL = Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L9809522-02
Client Sample ID: RE15-98-0030
Site/Work ID: 4659R/MR3R12082642

Matrix: Soil
Collected: 09/23/98 N/A
% Solid: 92
COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	% wt.	92		1.0	1	N/A	DKM	10/15/98	13:50	D2216-90

Product: 8081LA - Pesticides & PCB's - LANL

Lab Sample ID: L9809522-02
Client Sample ID: RE15-98-0030
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98
% Solid: 92

TCLP Extract Date: N/A
Extract Date: 09/30/98
Analysis Date: 09/30/98 Time:

Instrument: HP9
Analyst: ECL
Lab File ID: 406.D
Method: 8081A\3550B
Run ID: R53252
Batch : WG46843

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
319-84-6	alpha-BHC.....	ug/kg		ND	1.8	1
319-85-7	beta-BHC.....	ug/kg		ND	1.8	1
319-86-8	delta-BHC.....	ug/kg		ND	1.8	1
58-89-9	gamma-BHC (Lindane).....	ug/kg		ND	1.8	1
76-44-8	Heptachlor.....	ug/kg		ND	1.8	1
309-00-2	Aldrin.....	ug/kg		ND	1.8	1
1024-57-3	Heptachlor epoxide.....	ug/kg		ND	1.8	1
959-98-8	Endosulfan I.....	ug/kg		ND	1.8	1
60-57-1	Dieldrin.....	ug/kg		ND	1.8	1
72-55-9	4,4'-DDE.....	ug/kg		ND	3.6	1
72-20-8	Endrin.....	ug/kg		ND	3.6	1
33213-65-9	Endosulfan II.....	ug/kg		ND	3.6	1
72-54-8	4,4'-DDD.....	ug/kg		ND	3.6	1
1031-07-8	Endosulfan sulfate.....	ug/kg		ND	3.6	1
50-29-3	4,4'-DDT.....	ug/kg		ND	3.6	1
72-43-5	Methoxychlor.....	ug/kg		ND	18	1
53494-70-5	Endrin ketone.....	ug/kg		ND	3.6	1
7421-93-4	Endrin aldehyde.....	ug/kg		ND	0.36	1
5103-71-9	alpha Chlordane.....	ug/kg		ND	1.8	1
5103-74-2	gamma Chlordane.....	ug/kg		ND	1.8	1
8001-35-2	Toxaphene.....	ug/kg		ND	1.8	1
12674-11-2	Aroclor-1016.....	ug/kg		ND	180	1
11104-28-2	Aroclor-1221.....	ug/kg		ND	36	1
11141-16-5	Aroclor-1232.....	ug/kg		ND	72	1
					36	1

RL = Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 80811A - Pesticides & PCB's - LANL

Lab Sample ID: L9809522-02
Client Sample ID: RE15-98-0030
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: 09/30/98
Analysis Date: 09/30/98 Time:

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HP9
Analyst: ECL
Lab File ID: 406.D

Sample Weight: N/A
Extract Volume: N/A
% Solid: 92
Method: 8081A\3550B
Run ID: R53252
Batch: WG46843

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
53469-21-9	Aroclor-1242	ug/kg		ND	36	1
12672-29-6	Aroclor-1248	ug/kg		ND	36	1
11097-69-1	Aroclor-1254	ug/kg		ND	36	1
11096-82-5	Aroclor-1260	ug/kg		ND	36	1
SURROGATES- In Percent Recovery:						
	2,4,5,6-Tetrachloro-m-xylene	71.6		(29 - 133%)		
	Decachlorobiphenyl	95.6		(30 - 173%)		

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-02
Client Sample ID: RE15-98-0030
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 18:06

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HPMS7
Analyst: MLS
Lab File ID: 5989

Sample Weight: N/A
Extract Volume: N/A
% Solid: 92
Method: 8270C
Run ID: R54614
Batch: WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
62-75-9	n-Nitrosodimethylamine	ug/kg		ND	360	1
62-53-3	Aniline	ug/kg		ND	720	1
108-95-2	Phenol	ug/kg		ND	360	1
111-44-4	bis(2-Chloroethyl) ether	ug/kg		ND	360	1
95-57-8	2-Chlorophenol	ug/kg		ND	360	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	360	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	360	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	360	1
95-48-7	2-Methylphenol	ug/kg		ND	360	1
106-44-5	4-Methylphenol	ug/kg		ND	360	1

RL = Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-02
Client Sample ID: RE15-98-0030
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 92

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 18:06

Instrument: HPMS7
Analyst: MLS
Lab File ID: 5989

Method: 8270C
Run ID: R54614
Batch: WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
621-64-7	n-Nitroso-di-n-propylamine.....	ug/kg		ND	360	1
67-72-1	Hexachloroethane.....	ug/kg		ND	360	1
98-95-3	Nitrobenzene.....	ug/kg		ND	360	1
78-59-1	Isophorone.....	ug/kg		ND	360	1
88-75-5	2-Nitrophenol.....	ug/kg		ND	360	1
105-67-9	2,4-Dimethylphenol.....	ug/kg		ND	360	1
65-85-0	Benzoic acid.....	ug/kg		ND	360	1
111-91-1	bis(2-Chloroethoxy)methane.....	ug/kg		ND	3600	1
120-83-2	2,4-Dichlorophenol.....	ug/kg		ND	360	1
120-82-1	1,2,4-Trichlorobenzene.....	ug/kg		ND	360	1
91-20-3	Naphthalene.....	ug/kg		ND	360	1
106-47-8	4-Chloroaniline.....	ug/kg		ND	1400	1
87-68-3	Hexachlorobutadiene.....	ug/kg		ND	360	1
59-50-7	4-Chloro-3-methylphenol.....	ug/kg		ND	720	1
91-57-6	2-Methylnaphthalene.....	ug/kg		ND	360	1
77-47-4	Hexachlorocyclopentadiene.....	ug/kg		ND	360	1
88-06-2	2,4,6-Trichlorophenol.....	ug/kg		ND	360	1
95-95-4	2,4,5-Trichlorophenol.....	ug/kg		ND	1700	1
91-58-7	2-Chloronaphthalene.....	ug/kg		ND	360	1
88-74-4	2-Nitroaniline.....	ug/kg		ND	1700	1
131-11-3	Dimethylphthalate.....	ug/kg		ND	360	1
208-96-8	Acenaphthylene.....	ug/kg		ND	360	1
99-09-2	3-Nitroaniline.....	ug/kg		ND	1700	1
83-32-9	Acenaphthene.....	ug/kg		ND	360	1
51-28-5	2,4-Dinitrophenol.....	ug/kg		ND	360	1
100-02-7	4-Nitrophenol.....	ug/kg		ND	1700	1
132-64-9	Dibenzofuran.....	ug/kg		ND	360	1
121-14-2	2,4-Dinitrotoluene.....	ug/kg		ND	360	1
606-20-2	2,6-Dinitrotoluene.....	ug/kg		ND	360	1
84-66-2	Diethylphthalate.....	ug/kg		ND	360	1
7005-72-3	4-Chlorophenyl-phenyl ether.....	ug/kg		ND	360	1
86-73-7	Fluorene.....	ug/kg		ND	360	1
100-01-6	4-Nitroaniline.....	ug/kg		ND	720	1
534-52-1	4,6-Dinitro-2-methylphenol.....	ug/kg		ND	1700	1
86-30-6	n-Nitrosodiphenylamine.....	ug/kg		ND	360	1
103-33-3	Azobenzene.....	ug/kg		ND	720	1
101-55-3	4-Bromophenyl-phenylether.....	ug/kg		ND	360	1
118-74-1	Hexachlorobenzene.....	ug/kg		ND	360	1
87-86-5	Pentachlorophenol.....	ug/kg		ND	1700	1

RL = Reporting Limit

KEMRON ENVIRONMENTAL SERVICES

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-02
Client Sample ID: RE15-98-0030
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 92

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98

Instrument: HPMS7
Analyst: MLS
Lab File ID: 5989

Method: 8270C
Run ID: R54614
Batch: WG47900

Time: 18:06

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
85-01-8	Phenanthrene	ug/kg		ND	360	1
120-12-7	Anthracene	ug/kg		ND	360	1
84-74-2	Di-n-butylphthalate	ug/kg		ND	360	1
206-44-0	Fluoranthene	ug/kg		ND	360	1
129-00-0	Pyrene	ug/kg		ND	360	1
85-68-7	Butylbenzylphthalate	ug/kg		ND	360	1
91-94-1	3,3'-Dichlorobenzidine	ug/kg		ND	720	1
56-55-3	Benzo(a)anthracene	ug/kg		ND	360	1
117-81-7	bis(2-Ethylhexyl)phthalate	ug/kg		ND	360	1
218-01-9	Chrysene	ug/kg		ND	360	1
117-84-0	Di-n-octylphthalate	ug/kg		ND	360	1
205-99-2	Benzo(b)fluoranthene	ug/kg		ND	360	1
207-08-9	Benzo(k)fluoranthene	ug/kg		ND	360	1
50-32-8	Benzo(a)pyrene	ug/kg		ND	360	1
193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg		ND	360	1
53-70-3	Dibenzo(a,h)anthracene	ug/kg		ND	360	1
191-24-2	Benzo(g,h,i)Perylene	ug/kg		ND	360	1
100-51-6	Benzyl alcohol	ug/kg		ND	360	1
108-60-1	2,2'-Oxybis(1-chloropropane)	ug/kg		ND	1400	1
SURROGATES- In Percent Recovery:						
	2,4,6-Tribromophenol	57.4	(	19 - 122%)		
	2-Fluorobiphenyl	51.1	(	30 - 115%)		
	2-Fluorophenol	43.1	(	25 - 121%)		
	Nitrobenzene-d5	47.5	(	23 - 120%)		
	Phenol-d5	46.8	(	24 - 113%)		
	p-Terphenyl-d14	84.9	(	18 - 137%)		

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 8261A - Volatile Organics

Lab Sample ID: L9809522-02
Client Sample ID: RE15-98-0030
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98

Sample Weight: N/A
Extract Volume: N/A

% Solid: 92

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 10/01/98 Time: 07:11

Instrument: HPMS6
Analyst: CMS
Lab File ID: 6LA10304

Method: 8260B
Run ID: R53362
Batch : WG46889

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
75-71-8	Dichlorodifluoromethane.....	ug/kg		ND	11	1
74-87-3	Chloromethane.....	ug/kg		ND	11	1
75-01-4	Vinyl chloride.....	ug/kg		ND	11	1
74-83-9	Bromomethane.....	ug/kg		ND	11	1
75-00-3	Chloroethane.....	ug/kg		ND	11	1
75-69-4	Trichlorofluoromethane.....	ug/kg		ND	11	1
75-35-4	1,1-Dichloroethane.....	ug/kg		ND	5.4	1
74-88-4	Iodomethane.....	ug/kg		ND	5.4	1
75-15-0	Carbon disulfide.....	ug/kg		ND	5.4	1
67-64-1	Acetone.....	ug/kg		ND	5.4	1
75-09-2	Methylene chloride.....	ug/kg		ND	22	1
156-60-5	trans-1,2-Dichloroethene.....	ug/kg		ND	5.4	1
75-34-3	1,1-Dichloroethane.....	ug/kg		ND	11	1
594-20-7	2,2-Dichloropropane.....	ug/kg		ND	5.4	1
156-59-2	cis-1,2-Dichloroethene.....	ug/kg		ND	5.4	1
78-93-3	2-Butanone.....	ug/kg		ND	11	1
74-97-5	Bromochloromethane.....	ug/kg		ND	22	1
67-66-3	Chloroform.....	ug/kg		ND	5.4	1
71-55-6	1,1,1-Trichloroethane.....	ug/kg		ND	5.4	1
56-23-5	Carbon tetrachloride.....	ug/kg		ND	5.4	1
563-58-6	1,1-Dichloropropene.....	ug/kg		ND	5.4	1
71-43-2	Benzene.....	ug/kg		ND	5.4	1
107-06-2	1,2-Dichloroethane.....	ug/kg		ND	5.4	1
79-01-6	Trichloroethene.....	ug/kg		ND	5.4	1
78-87-5	1,2-Dichloropropane.....	ug/kg		ND	5.4	1
74-95-3	Dibromomethane.....	ug/kg		ND	5.4	1
75-27-4	Bromodichloromethane.....	ug/kg		ND	5.4	1
10061-02-6	trans-1,3-Dichloropropene.....	ug/kg		ND	5.4	1
108-10-1	4-Methyl-2-pentanone.....	ug/kg		ND	5.4	1
108-88-3	Toluene.....	ug/kg		ND	22	1
10061-01-5	cis-1,3-Dichloropropene.....	ug/kg		ND	5.4	1
79-00-5	1,1,2-Trichloroethane.....	ug/kg		ND	5.4	1
127-18-4	Tetrachloroethene.....	ug/kg		ND	5.4	1
142-28-9	1,3-Dichloropropane.....	ug/kg		ND	5.4	1
124-48-1	Dibromochloromethane.....	ug/kg		ND	5.4	1
591-78-6	2-Hexanone.....	ug/kg		ND	5.4	1
106-93-4	1,2-Dibromoethane.....	ug/kg		ND	22	1
108-90-7	Chlorobenzene.....	ug/kg		ND	5.4	1
630-20-6	1,1,1,2-Tetrachloroethane.....	ug/kg		ND	5.4	1

RL = Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 8261A - Volatile Organics

Lab Sample ID: L9809522-02
Client Sample ID: RE15-98-0030
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98

Sample Weight: N/A
Extract Volume: N/A

% Solid: 92

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 10/01/98 Time: 07:11

Instrument: HPMS6
Analyst: CMS
Lab File ID: 6LA10304
Method: 8260B
Run ID: R53362
Batch: WG46889

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethyl benzene.....	ug/kg		ND	5.4	1
1330-20-7	Xylenes (total).....	ug/kg		ND	5.4	1
100-42-5	Styrene.....	ug/kg		ND	5.4	1
75-25-2	Bromoform.....	ug/kg		ND	5.4	1
98-82-8	Isopropylbenzene.....	ug/kg		ND	5.4	1
108-86-1	Bromobenzene.....	ug/kg		ND	5.4	1
96-18-4	1,2,3-Trichloropropane.....	ug/kg		ND	5.4	1
79-34-5	1,1,2,2-Tetrachloroethane.....	ug/kg		ND	5.4	1
103-65-1	n-Propylbenzene.....	ug/kg		ND	5.4	1
95-49-8	2-Chlorotoluene.....	ug/kg		ND	5.4	1
106-43-4	4-Chlorotoluene.....	ug/kg		ND	5.4	1
108-67-8	1,3,5-Trimethylbenzene.....	ug/kg		ND	5.4	1
98-06-6	tert-Butylbenzene.....	ug/kg		ND	5.4	1
95-63-6	1,2,4-Trimethylbenzene.....	ug/kg		ND	5.4	1
135-98-8	sec-Butylbenzene.....	ug/kg		ND	5.4	1
541-73-1	1,3-Dichlorobenzene.....	ug/kg		ND	5.4	1
106-46-7	1,4-Dichlorobenzene.....	ug/kg		ND	5.4	1
99-87-6	p-Isopropyltoluene.....	ug/kg		ND	5.4	1
95-50-1	1,2-Dichlorobenzene.....	ug/kg		ND	5.4	1
104-51-8	n-Butylbenzene.....	ug/kg		ND	5.4	1
96-12-8	1,2-Dibromo-3-chloropropane.....	ug/kg		ND	5.4	1
76-13-1	Trichlorotrifluoroethane.....	ug/kg		ND	11	1
					5.4	
SURROGATES- In Percent Recovery:						
	Toluene-d8.....	92.5	(81 - 117%)			
	p-Bromofluorobenzene.....	80.6	(74 - 121%)			
	Dibromofluoromethane.....	97.1	(80 - 120%)			
	1,2-Dichloroethane-d4.....	101	(80 - 120%)			

RL = Reporting Limit

Lab Sample ID: L9809522-03
Client Sample ID: RE15-98-0031
Site/Work ID: 4659R/MR3R12082642

Matrix: Soil
Collected: 09/23/98 N/A
% Solid: 93
COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	% wt.	93		1.0	1	N/A	DKM	10/15/98	13:50	D2216-90

Product: 8081LA - Pesticides & PCB's - LANL

Lab Sample ID: L9809522-03
Client Sample ID: RE15-98-0031
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 93

TCPLP Extract Date: N/A
Extract Date: 09/30/98
Analysis Date: 09/30/98 Time:

Instrument: HP9
Analyst: ECL
Lab File ID: 407.D
Method: 8081A\3550B
Run ID: R53252
Batch : WG46843

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
319-84-6	alpha-BHC.....	ug/kg	ND	ND	1.8	1
319-85-7	beta-BHC.....	ug/kg	ND	ND	1.8	1
319-86-8	delta-BHC.....	ug/kg	ND	ND	1.8	1
58-89-9	gamma-BHC (Lindane).....	ug/kg	ND	ND	1.8	1
76-44-8	Heptachlor.....	ug/kg	ND	ND	1.8	1
309-00-2	Aldrin.....	ug/kg	ND	ND	1.8	1
1024-57-3	Heptachlor epoxide.....	ug/kg	ND	ND	1.8	1
959-98-8	Endosulfan I.....	ug/kg	ND	ND	1.8	1
60-57-1	Endosulfan II.....	ug/kg	ND	ND	1.8	1
72-55-9	Dieldrin.....	ug/kg	ND	ND	3.5	1
72-20-8	4,4'-DDE.....	ug/kg	ND	ND	3.5	1
72-20-8	Endrin.....	ug/kg	ND	ND	3.5	1
33213-65-9	Endosulfan II.....	ug/kg	ND	ND	3.5	1
72-54-8	4,4'-DDD.....	ug/kg	ND	ND	3.5	1
1031-07-8	Endosulfan sulfate.....	ug/kg	ND	ND	3.5	1
50-29-3	4,4'-DDT.....	ug/kg	ND	ND	3.5	1
72-43-5	Methoxychlor.....	ug/kg	ND	ND	18	1
53494-70-5	Endrin ketone.....	ug/kg	ND	ND	3.5	1
7421-93-4	Endrin aldehyde.....	ug/kg	ND	ND	0.35	1
5103-71-9	alpha Chlordane.....	ug/kg	ND	ND	1.8	1
5103-74-2	gamma Chlordane.....	ug/kg	ND	ND	1.8	1
8001-35-2	Toxaphene.....	ug/kg	ND	ND	180	1
12674-11-2	Aroclor-1016.....	ug/kg	ND	ND	35	1
11104-28-2	Aroclor-1221.....	ug/kg	ND	ND	71	1
11141-16-5	Aroclor-1232.....	ug/kg	ND	ND	35	1

RL = Reporting Limit

Product: 80811A - Pesticides & PCB's - LANL

Lab Sample ID: L9809522-03
Client Sample ID: RE15-98-0031
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 93

TCLP Extract Date: N/A
Extract Date: 09/30/98
Analysis Date: 09/30/98 Time:

Instrument: HP9
Analyst: ECL
Lab File ID: 407.D

Method: 8081A\3550B
Run ID: R53252
Batch: WG46843

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
53469-21-9	Aroclor-1242	ug/kg		ND	35	1
12672-29-6	Aroclor-1248	ug/kg		ND	35	1
11097-69-1	Aroclor-1254	ug/kg		ND	35	1
11096-82-5	Aroclor-1260	ug/kg		ND	35	1
SURROGATES- In Percent Recovery:						
	2,4,5,6-Tetrachloro-m-xylene	73.0		(29 - 133%)		
	Decachlorobiphenyl	96.4		(30 - 173%)		

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-03
Client Sample ID: RE15-98-0031
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 93

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 18:44

Instrument: HPMS7
Analyst: MLS
Lab File ID: 5990

Method: 8270C
Run ID: R54614
Batch: WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
62-75-9	n-Nitrosodimethylamine	ug/kg		ND	350	1
62-53-3	Aniline	ug/kg		ND	710	1
108-95-2	Phenol	ug/kg		ND	350	1
111-44-4	bis(2-Chloroethyl) ether	ug/kg		ND	350	1
95-57-8	2-Chlorophenol	ug/kg		ND	350	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	350	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	350	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	350	1
95-48-7	2-Methylphenol	ug/kg		ND	350	1
106-44-5	4-Methylphenol	ug/kg		ND	350	1

RL = Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 827LAS - Semivolatle Compounds

Lab Sample ID: L9809522-03
Client Sample ID: RE15-98-0031
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 93

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98

Time: 18:44

Instrument: HPMS7
Analyst: MLS
Lab File ID: 5990

Method: 8270C
Run ID: R54614
Batch : WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
621-64-7	n-Nitroso-di-n-propylamine.....	ug/kg		ND	350	1
67-72-1	Hexachloroethane.....	ug/kg		ND	350	1
98-95-3	Nitrobenzene.....	ug/kg		ND	350	1
78-59-1	Isophorone.....	ug/kg		ND	350	1
88-75-5	2-Nitrophenol.....	ug/kg		ND	350	1
105-67-9	2,4-Dimethylphenol.....	ug/kg		ND	350	1
65-85-0	Benzoic acid.....	ug/kg		ND	350	1
111-91-1	bis(2-Chloroethoxy)methane.....	ug/kg		ND	3500	1
120-83-2	2,4-Dichlorophenol.....	ug/kg		ND	350	1
120-82-1	1,2,4-Trichlorobenzene.....	ug/kg		ND	350	1
91-20-3	Naphthalene.....	ug/kg		ND	350	1
106-47-8	4-Chloroaniline.....	ug/kg		ND	1400	1
87-68-3	Hexachlorobutadiene.....	ug/kg		ND	350	1
59-50-7	4-Chloro-3-methylphenol.....	ug/kg		ND	710	1
91-57-6	2-Methylnaphthalene.....	ug/kg		ND	350	1
77-47-4	Hexachlorocyclopentadiene.....	ug/kg		ND	350	1
88-06-2	2,4,6-Trichlorophenol.....	ug/kg		ND	350	1
95-95-4	2,4,5-Trichlorophenol.....	ug/kg		ND	1700	1
91-58-7	2-Chloronaphthalene.....	ug/kg		ND	350	1
88-74-4	2-Nitroaniline.....	ug/kg		ND	1700	1
131-11-3	Dimethylphthalate.....	ug/kg		ND	350	1
208-96-8	Acenaphthylene.....	ug/kg		ND	350	1
99-09-2	3-Nitroaniline.....	ug/kg		ND	1700	1
83-32-9	Acenaphthene.....	ug/kg		ND	350	1
51-28-5	2,4-Dinitrophenol.....	ug/kg		ND	1700	1
100-02-7	4-Nitrophenol.....	ug/kg		ND	1700	1
132-64-9	Dibenzofuran.....	ug/kg		ND	350	1
121-14-2	2,4-Dinitrotoluene.....	ug/kg		ND	350	1
606-20-2	2,6-Dinitrotoluene.....	ug/kg		ND	350	1
84-66-2	Diethylphthalate.....	ug/kg		ND	350	1
7005-72-3	4-Chlorophenyl-phenyl ether.....	ug/kg		ND	350	1
86-73-7	Fluorene.....	ug/kg		ND	350	1
100-01-6	4-Nitroaniline.....	ug/kg		ND	710	1
534-52-1	4,6-Dinitro-2-methylphenol.....	ug/kg		ND	1700	1
86-30-6	n-Nitrosodiphenylamine.....	ug/kg		ND	350	1
103-33-3	Azobenzene.....	ug/kg		ND	710	1
101-55-3	4-Bromophenyl-phenylether.....	ug/kg		ND	350	1
118-74-1	Hexachlorobenzene.....	ug/kg		ND	350	1
87-86-5	Pentachlorophenol.....	ug/kg		ND	1700	1

RL = Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-03
Client Sample ID: RE15-98-0031
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 93

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98

Time: 18:44

Instrument: HPMS7
Analyst: MLS
Lab File ID: 5990

Method: 8270C
Run ID: R54614
Batch: WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
85-01-8	Phenanthrene	ug/kg		ND	350	1
120-12-7	Anthracene	ug/kg		ND	350	1
84-74-2	Di-n-butylphthalate	ug/kg		ND	350	1
206-44-0	Fluoranthene	ug/kg		ND	350	1
129-00-0	Pyrene	ug/kg		ND	350	1
85-68-7	Butylbenzylphthalate	ug/kg		ND	350	1
91-94-1	3,3'-Dichlorobenzidine	ug/kg		ND	350	1
56-55-3	Benzo(a)anthracene	ug/kg		ND	710	1
117-81-7	bis(2-Ethylhexyl)phthalate	ug/kg		ND	350	1
218-01-9	Chrysene	ug/kg		ND	350	1
117-84-0	Di-n-octylphthalate	ug/kg		ND	350	1
205-99-2	Benzo(b)fluoranthene	ug/kg		ND	350	1
207-08-9	Benzo(k)fluoranthene	ug/kg		ND	350	1
50-32-8	Benzo(a)pyrene	ug/kg		ND	350	1
193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg		ND	350	1
53-70-3	Dibenzo(a,h)anthracene	ug/kg		ND	350	1
191-24-2	Benzo(g,h,i)perylene	ug/kg		ND	350	1
100-51-6	Benzyl alcohol	ug/kg		ND	350	1
108-60-1	2,2'-Oxybis(1-chloropropane)	ug/kg		ND	1400	1
					350	1
SURROGATES- In Percent Recovery:						
	2,4,6-Tribromophenol	79.2	(19 - 122%)			
	2-Fluorobiphenyl	71.2	(30 - 115%)			
	2-Fluorophenol	59.2	(25 - 121%)			
	Nitrobenzene-d5	65.1	(23 - 120%)			
	Phenol-d5	63.5	(24 - 113%)			
	p-Terphenyl-d14	104	(18 - 137%)			

RL = Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826LA - Volatile Organics

Lab Sample ID: L9809522-03
Client Sample ID: RE15-98-0031
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98

Sample Weight: N/A
Extract Volume: N/A

% Solid: 93

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 10/01/98 Time: 07:43

Instrument: HPMS6
Analyst: CMS
Lab File ID: 6LA10305
Method: 8260B
Run ID: R53362
Batch: WG46889

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
75-71-8	Dichlorodifluoromethane.....	ug/kg		ND	11	1
74-87-3	Chloromethane.....	ug/kg		ND	11	1
75-01-4	Vinyl chloride.....	ug/kg		ND	11	1
74-83-9	Bromomethane.....	ug/kg		ND	11	1
75-00-3	Chloroethane.....	ug/kg		ND	11	1
75-69-4	Trichlorofluoromethane.....	ug/kg		ND	5.4	1
75-35-4	1,1-Dichloroethane.....	ug/kg		ND	5.4	1
74-88-4	Iodomethane.....	ug/kg		ND	5.4	1
75-15-0	Carbon disulfide.....	ug/kg		ND	5.4	1
67-64-1	Acetone.....	ug/kg		ND	22	1
75-09-2	Methylene chloride.....	ug/kg		ND	5.4	1
156-60-5	trans-1,2-Dichloroethene.....	ug/kg		ND	11	1
75-34-3	1,1-Dichloroethane.....	ug/kg		ND	5.4	1
594-20-7	2,2-Dichloropropane.....	ug/kg		ND	5.4	1
156-59-2	cis-1,2-Dichloroethene.....	ug/kg		ND	11	1
78-93-3	2-Butanone.....	ug/kg		ND	22	1
74-97-5	Bromochloromethane.....	ug/kg		ND	5.4	1
67-66-3	Chloroform.....	ug/kg		ND	5.4	1
71-55-6	1,1,1-Trichloroethane.....	ug/kg		ND	5.4	1
56-23-5	Carbon tetrachloride.....	ug/kg		ND	5.4	1
563-58-6	1,1-Dichloropropene.....	ug/kg		ND	5.4	1
71-43-2	Benzene.....	ug/kg		ND	5.4	1
107-06-2	1,2-Dichloroethane.....	ug/kg		ND	5.4	1
79-01-6	Trichloroethene.....	ug/kg		ND	5.4	1
78-87-5	1,2-Dichloropropane.....	ug/kg		ND	5.4	1
74-95-3	Dibromomethane.....	ug/kg		ND	5.4	1
75-27-4	Bromodichloromethane.....	ug/kg		ND	5.4	1
10061-02-6	trans-1,3-Dichloropropene.....	ug/kg		ND	5.4	1
108-10-1	4-Methyl-2-pentanone.....	ug/kg		ND	22	1
108-88-3	Toluene.....	ug/kg		ND	5.4	1
10061-01-5	cis-1,3-Dichloropropene.....	ug/kg		ND	5.4	1
79-00-5	1,1,2-Trichloroethane.....	ug/kg		ND	5.4	1
127-18-4	Tetrachloroethene.....	ug/kg		ND	5.4	1
142-28-9	1,3-Dichloropropane.....	ug/kg		ND	5.4	1
124-48-1	Dibromochloromethane.....	ug/kg		ND	5.4	1
591-78-6	2-Hexanone.....	ug/kg		ND	22	1
106-93-4	1,2-Dibromoethane.....	ug/kg		ND	5.4	1
108-90-7	Chlorobenzene.....	ug/kg		ND	5.4	1
630-20-6	1,1,1,2-Tetrachloroethane.....	ug/kg		ND	5.4	1

RL = Reporting Limit

Product: 8261A - Volatile Organics

Lab Sample ID: L9809522-03
Client Sample ID: RE15-98-0031
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 93

TCLP Extract Date: N/A

Instrument: HPMS6

Method: 8260B

Extract Date: N/A

Analyst: CMS

Run ID: R53362

Analysis Date: 10/01/98 Time: 07:43

Lab File ID: 6LA10305

Batch : WG46889

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethyl benzene.....	ug/kg		ND	5.4	1
1330-20-7	Xylenes (total).....	ug/kg		ND	5.4	1
100-42-5	Styrene.....	ug/kg		ND	5.4	1
75-25-2	Bromoform.....	ug/kg		ND	5.4	1
98-82-8	Isopropylbenzene.....	ug/kg		ND	5.4	1
108-86-1	Bromobenzene.....	ug/kg		ND	5.4	1
96-18-4	1,2,3-Trichloropropane.....	ug/kg		ND	5.4	1
79-34-5	1,1,2,2-Tetrachloroethane.....	ug/kg		ND	5.4	1
103-65-1	n-Propylbenzene.....	ug/kg		ND	5.4	1
95-49-8	2-Chlorotoluene.....	ug/kg		ND	5.4	1
106-43-4	4-Chlorotoluene.....	ug/kg		ND	5.4	1
108-67-8	1,3,5-Trimethylbenzene.....	ug/kg		ND	5.4	1
98-06-6	tert-Butylbenzene.....	ug/kg		ND	5.4	1
95-63-6	1,2,4-Trimethylbenzene.....	ug/kg		ND	5.4	1
135-98-8	sec-Butylbenzene.....	ug/kg		ND	5.4	1
541-73-1	1,3-Dichlorobenzene.....	ug/kg		ND	5.4	1
106-46-7	1,4-Dichlorobenzene.....	ug/kg		ND	5.4	1
99-87-6	p-Isopropyltoluene.....	ug/kg		ND	5.4	1
95-50-1	1,2-Dichlorobenzene.....	ug/kg		ND	5.4	1
104-51-8	n-Butylbenzene.....	ug/kg		ND	5.4	1
96-12-8	1,2-Dibromo-3-chloropropane.....	ug/kg		ND	5.4	1
76-13-1	Trichlorotrifluoroethane.....	ug/kg		ND	11	1
					5.4	
SURROGATES- In Percent Recovery:						
	Toluene-d8.....	100	(81 - 117%)			
	p-Bromofluorobenzene.....	88.1	(74 - 121%)			
	Dibromofluoromethane.....	103	(80 - 120%)			
	1,2-Dichloroethane-d4.....	107	(80 - 120%)			

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L9809522-04
Client Sample ID: RE15-98-0032
Site/Work ID: 4659R/MR3R12082642

Matrix: Soil
Collected: 09/23/98 N/A
% Solid: 97
COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	% wt.	97		1.0	1	N/A	DKM	10/15/98	13:50	D2216-90

Product: 80811A - Pesticides & PCB's - LANL

Lab Sample ID: L9809522-04
Client Sample ID: RE15-98-0032
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 97

TCLP Extract Date: N/A
Extract Date: 09/30/98
Analysis Date: 10/01/98 Time:

Instrument: HP9
Analyst: ECL
Lab File ID: 411.D
Method: 8081A\3550B
Run ID: R53256
Batch : WG46843

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
319-84-6	alpha-BHC.....	ug/kg		ND	1.7	1
319-85-7	beta-BHC.....	ug/kg		ND	1.7	1
319-86-8	delta-BHC.....	ug/kg		ND	1.7	1
58-89-9	gamma-BHC (Lindane).....	ug/kg		ND	1.7	1
76-44-8	Heptachlor.....	ug/kg		ND	1.7	1
309-00-2	Aldrin.....	ug/kg		ND	1.7	1
1024-57-3	Heptachlor epoxide.....	ug/kg		ND	1.7	1
959-98-8	Endosulfan I.....	ug/kg		ND	1.7	1
60-57-1	Dieldrin.....	ug/kg		ND	1.7	1
72-55-9	4,4'-DDE.....	ug/kg		ND	3.4	1
72-20-8	Endrin.....	ug/kg		ND	3.4	1
33213-65-9	Endosulfan II.....	ug/kg		ND	3.4	1
72-54-8	4,4'-DDD.....	ug/kg		ND	3.4	1
1031-07-8	Endosulfan sulfate.....	ug/kg		ND	3.4	1
50-29-3	4,4'-DDT.....	ug/kg		ND	3.4	1
72-43-5	Methoxychlor.....	ug/kg		ND	17	1
53494-70-5	Endrin ketone.....	ug/kg		ND	17	1
7421-93-4	Endrin aldehyde.....	ug/kg		ND	3.4	1
5103-71-9	alpha Chlordane.....	ug/kg		ND	0.34	1
5103-74-2	gamma Chlordane.....	ug/kg		ND	1.7	1
8001-35-2	Toxaphene.....	ug/kg		ND	1.7	1
12674-11-2	Aroclor-1016.....	ug/kg		ND	170	1
11104-28-2	Aroclor-1221.....	ug/kg		ND	34	1
11141-16-5	Aroclor-1232.....	ug/kg		ND	68	1
				ND	34	1

RL = Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 8081LA - Pesticides & PCB's - LANL

Lab Sample ID: L9809522-04
Client Sample ID: RE15-98-0032
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 97

TCLP Extract Date: N/A
Extract Date: 09/30/98
Analysis Date: 10/01/98 Time:

Instrument: HP9
Analyst: ECL
Lab File ID: 411.D
Method: 8081A\3550B
Run ID: R53256
Batch: WG46843

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
53469-21-9	Aroclor-1242	ug/kg		ND	34	1
12672-29-6	Aroclor-1248	ug/kg		ND	34	1
11097-69-1	Aroclor-1254	ug/kg		ND	34	1
11096-82-5	Aroclor-1260	ug/kg		ND	34	1
SURROGATES- In Percent Recovery:						
	2,4,5,6-Tetrachloro-m-xylene	72.3		(29 - 133%)		
	Decachlorobiphenyl	98.7		(30 - 173%)		

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-04
Client Sample ID: RE15-98-0032
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 97

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 19:23

Instrument: HPMS7
Analyst: MLS
Lab File ID: 5991
Method: 8270C
Run ID: R54614
Batch: WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
62-75-9	n-Nitrosodimethylamine	ug/kg		ND	340	1
62-53-3	Aniline	ug/kg		ND	680	1
108-95-2	Phenol	ug/kg		ND	340	1
111-44-4	bis(2-Chloroethyl) ether	ug/kg		ND	340	1
95-57-8	2-Chlorophenol	ug/kg		ND	340	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	340	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	340	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	340	1
95-48-7	2-Methylphenol	ug/kg		ND	340	1
106-44-5	4-Methylphenol	ug/kg		ND	340	1

RL = Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-04
Client Sample ID: RE15-98-0032
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HPMS7
Analyst: MJS
Lab File ID: 5991

Sample Weight: N/A
Extract Volume: N/A

% Solid: 97

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 19:23

Method: 8270C
Run ID: R54614
Batch: WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
621-64-7	n-Nitroso-di-n-propylamine.....	ug/kg		ND	340	1
67-72-1	Hexachloroethane.....	ug/kg		ND	340	1
98-95-3	Nitrobenzene.....	ug/kg		ND	340	1
78-59-1	Isophorone.....	ug/kg		ND	340	1
88-75-5	2-Nitrophenol.....	ug/kg		ND	340	1
105-67-9	2,4-Dimethylphenol.....	ug/kg		ND	340	1
65-85-0	Benzoic acid.....	ug/kg		ND	340	1
111-91-1	bis(2-Chloroethoxy)methane.....	ug/kg		ND	3400	1
120-83-2	2,4-Dichlorophenol.....	ug/kg		ND	340	1
120-82-1	1,2,4-Trichlorobenzene.....	ug/kg		ND	340	1
91-20-3	Naphthalene.....	ug/kg		ND	340	1
106-47-8	4-Chloroaniline.....	ug/kg		ND	1300	1
87-68-3	Hexachlorobutadiene.....	ug/kg		ND	340	1
59-50-7	4-Chloro-3-methylphenol.....	ug/kg		ND	680	1
91-57-6	2-Methylnaphthalene.....	ug/kg		ND	340	1
77-47-4	Hexachlorocyclopentadiene.....	ug/kg		ND	340	1
88-06-2	2,4,6-Trichlorophenol.....	ug/kg		ND	340	1
95-95-4	2,4,5-Trichlorophenol.....	ug/kg		ND	340	1
91-58-7	2-Chloronaphthalene.....	ug/kg		ND	1700	1
88-74-4	2-Nitroaniline.....	ug/kg		ND	340	1
131-11-3	Dimethylphthalate.....	ug/kg		ND	1700	1
208-96-8	Acenaphthylene.....	ug/kg		ND	340	1
99-09-2	3-Nitroaniline.....	ug/kg		ND	340	1
83-32-9	Acenaphthene.....	ug/kg		ND	1700	1
51-28-5	2,4-Dinitrophenol.....	ug/kg		ND	340	1
100-02-7	4-Nitrophenol.....	ug/kg		ND	1700	1
132-64-9	Dibenzofuran.....	ug/kg		ND	1700	1
121-14-2	2,4-Dinitrotoluene.....	ug/kg		ND	340	1
606-20-2	2,6-Dinitrotoluene.....	ug/kg		ND	340	1
84-66-2	Diethylphthalate.....	ug/kg		ND	340	1
7005-72-3	4-Chlorophenyl-phenyl ether.....	ug/kg		ND	340	1
86-73-7	Fluorene.....	ug/kg		ND	340	1
100-01-6	4-Nitroaniline.....	ug/kg		ND	340	1
534-52-1	4,6-Dinitro-2-methylphenol.....	ug/kg		ND	680	1
86-30-6	n-Nitrosodiphenylamine.....	ug/kg		ND	1700	1
103-33-3	Azobenzene.....	ug/kg		ND	340	1
101-55-3	4-Bromophenyl-phenylether.....	ug/kg		ND	680	1
118-74-1	Hexachlorobenzene.....	ug/kg		ND	340	1
87-86-5	Pentachlorophenol.....	ug/kg		ND	340	1

RL = Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-04
Client Sample ID: RE15-98-0032
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 97

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 19:23

Instrument: HPMS7
Analyst: MLS
Lab File ID: 5991

Method: 8270C
Run ID: R54614
Batch: WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
85-01-8	Phenanthrene	ug/kg		ND	340	1
120-12-7	Anthracene	ug/kg		ND	340	1
84-74-2	Di-n-butylphthalate	ug/kg		ND	340	1
206-44-0	Fluoranthene	ug/kg		ND	340	1
129-00-0	Pyrene	ug/kg		ND	340	1
85-68-7	Butylbenzylphthalate	ug/kg		ND	340	1
91-94-1	3,3'-Dichlorobenzidine	ug/kg		ND	340	1
56-55-3	Benzo(a)anthracene	ug/kg		ND	680	1
117-81-7	bis(2-Ethylhexyl)phthalate	ug/kg		ND	340	1
218-01-9	Chrysene	ug/kg		ND	340	1
117-84-0	Di-n-octylphthalate	ug/kg		ND	340	1
205-99-2	Benzo(b)fluoranthene	ug/kg		ND	340	1
207-08-9	Benzo(k)fluoranthene	ug/kg		ND	340	1
50-32-8	Benzo(a)pyrene	ug/kg		ND	340	1
193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg		ND	340	1
53-70-3	Dibenzo(a,h)anthracene	ug/kg		ND	340	1
191-24-2	Benzo(g,h,i)perylene	ug/kg		ND	340	1
100-51-6	Benzyl alcohol	ug/kg		ND	340	1
108-60-1	2,2'-Oxybis(1-chloropropane)	ug/kg		ND	1300	1
					340	1
SURROGATES- In Percent Recovery:						
	2,4,6-Tribromophenol	83.4	(19 - 122%)			
	2-Fluorobiphenyl	79.1	(30 - 115%)			
	2-Fluorophenol	66.7	(25 - 121%)			
	Nitrobenzene-d5	74.8	(23 - 120%)			
	Phenol-d5	70.3	(24 - 113%)			
	p-Terphenyl-d14	105	(18 - 137%)			

RL = Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 8261A - Volatile Organics

Lab Sample ID: L9809522-04
Client Sample ID: RE15-98-0032
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 97

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 10/01/98

Instrument: HPMS6
Analyst: CMS
Lab File ID: 6LA10306

Method: 8260B
Run ID: R53362
Batch: WG46889

Time: 08:14

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
75-71-8	Dichlorodifluoromethane	ug/kg		ND	10	1
74-87-3	Chloromethane	ug/kg		ND	10	1
75-01-4	Vinyl chloride	ug/kg		ND	10	1
74-83-9	Bromomethane	ug/kg		ND	10	1
75-00-3	Chloroethane	ug/kg		ND	10	1
75-69-4	Trichlorofluoromethane	ug/kg		ND	5.2	1
75-35-4	1,1-Dichloroethene	ug/kg		ND	5.2	1
74-88-4	Iodomethane	ug/kg		ND	5.2	1
75-15-0	Carbon disulfide	ug/kg		ND	5.2	1
67-64-1	Acetone	ug/kg		ND	21	1
75-09-2	Methylene chloride	ug/kg		ND	5.2	1
156-60-5	trans-1,2-Dichloroethene	ug/kg		ND	10	1
75-34-3	1,1-Dichloroethane	ug/kg		ND	5.2	1
594-20-7	2,2-Dichloropropane	ug/kg		ND	5.2	1
156-59-2	cis-1,2-Dichloroethene	ug/kg		ND	10	1
78-93-3	2-Butanone	ug/kg		ND	21	1
74-97-5	Bromochloromethane	ug/kg		ND	5.2	1
67-66-3	Chloroform	ug/kg		ND	5.2	1
71-55-6	1,1,1-Trichloroethane	ug/kg		ND	5.2	1
56-23-5	Carbon tetrachloride	ug/kg		ND	5.2	1
563-58-6	1,1-Dichloropropene	ug/kg		ND	5.2	1
71-43-2	Benzene	ug/kg		ND	5.2	1
107-06-2	1,2-Dichloroethane	ug/kg		ND	5.2	1
79-01-6	Trichloroethene	ug/kg		ND	5.2	1
78-87-5	1,2-Dichloropropane	ug/kg		ND	5.2	1
74-95-3	Dibromomethane	ug/kg		ND	5.2	1
75-27-4	Bromodichloromethane	ug/kg		ND	5.2	1
10061-02-6	trans-1,3-Dichloropropene	ug/kg		ND	5.2	1
108-10-1	4-Methyl-2-pentanone	ug/kg		ND	21	1
108-88-3	Toluene	ug/kg		ND	5.2	1
10061-01-5	cis-1,3-Dichloropropene	ug/kg		ND	5.2	1
79-00-5	1,1,2-Trichloroethane	ug/kg		ND	5.2	1
127-18-4	Tetrachloroethene	ug/kg		ND	5.2	1
142-28-9	1,3-Dichloropropane	ug/kg		ND	5.2	1
124-48-1	Dibromochloromethane	ug/kg		ND	5.2	1
591-78-6	2-Hexanone	ug/kg		ND	21	1
106-93-4	1,2-Dibromoethane	ug/kg		ND	5.2	1
108-90-7	Chlorobenzene	ug/kg		ND	5.2	1
630-20-6	1,1,1,2-Tetrachloroethane	ug/kg		ND	5.2	1

RL = Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 8261A - Volatile Organics

Lab Sample ID: L9809522-04
Client Sample ID: RE15-98-0032
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 97

TCLP Extract Date: N/A

Instrument: HPMS6

Method: 8260B

Extract Date: N/A

Analyst: CMS

Run ID: R53362

Analysis Date: 10/01/98 Time: 08:14

Lab File ID: 6LA10306

Batch : WG46889

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethyl benzene.....	ug/kg		ND	5.2	1
1330-20-7	Xylenes (total).....	ug/kg		ND	5.2	1
100-42-5	Styrene.....	ug/kg		ND	5.2	1
75-25-2	Bromoform.....	ug/kg		ND	5.2	1
98-82-8	Isopropylbenzene.....	ug/kg		ND	5.2	1
108-86-1	Bromobenzene.....	ug/kg		ND	5.2	1
96-18-4	1,2,3-Trichloropropane.....	ug/kg		ND	5.2	1
79-34-5	1,1,2,2-Tetrachloroethane.....	ug/kg		ND	5.2	1
103-65-1	n-Propylbenzene.....	ug/kg		ND	5.2	1
95-49-8	2-Chlorotoluene.....	ug/kg		ND	5.2	1
106-43-4	4-Chlorotoluene.....	ug/kg		ND	5.2	1
108-67-8	1,3,5-Trimethylbenzene.....	ug/kg		ND	5.2	1
98-06-6	tert-Butylbenzene.....	ug/kg		ND	5.2	1
95-63-6	1,2,4-Trimethylbenzene.....	ug/kg		ND	5.2	1
135-98-8	sec-Butylbenzene.....	ug/kg		ND	5.2	1
541-73-1	1,3-Dichlorobenzene.....	ug/kg		ND	5.2	1
106-46-7	1,4-Dichlorobenzene.....	ug/kg		ND	5.2	1
99-87-6	p-Isopropyltoluene.....	ug/kg		ND	5.2	1
95-50-1	1,2-Dichlorobenzene.....	ug/kg		ND	5.2	1
104-51-8	n-Butylbenzene.....	ug/kg		ND	5.2	1
96-12-8	1,2-Dibromo-3-chloropropane.....	ug/kg		ND	5.2	1
76-13-1	Trichlorotrifluoroethane.....	ug/kg		ND	10	1
					5.2	
SURROGATES- In Percent Recovery:						
	Toluene-d8.....	98.3	(81 - 117%)			
	p-Bromofluorobenzene.....	86.4	(74 - 121%)			
	Dibromofluoromethane.....	102	(80 - 120%)			
	1,2-Dichloroethane-d4.....	108	(80 - 120%)			

RL = Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L9809522-05
Client Sample ID: RE15-98-0033
Site/Work ID: 4659R/MR3R12082642

Matrix: Soil
Collected: 09/23/98 N/A
% Solid: 98
COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	% wt.	98		1.0	1	N/A	DKM	10/15/98	13:50	D2216-90

Product: 80811A - Pesticides & PCB's - LANL

Lab Sample ID: L9809522-05
Client Sample ID: RE15-98-0033
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 98

TCLP Extract Date: N/A

Extract Date: 09/30/98

Analysis Date: 10/01/98 Time:

Instrument: HP9

Analyst: ECL

Lab File ID: 412.D

Method: 8081A\3550B

Run ID: R53256

Batch : WG46843

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
319-84-6	alpha-BHC.....	ug/kg		ND	1.7	1
319-85-7	beta-BHC.....	ug/kg		ND	1.7	1
319-86-8	delta-BHC.....	ug/kg		ND	1.7	1
58-89-9	gamma-BHC (Lindane).....	ug/kg		ND	1.7	1
76-44-8	Heptachlor.....	ug/kg		ND	1.7	1
309-00-2	Aldrin.....	ug/kg		ND	1.7	1
1024-57-3	Heptachlor epoxide.....	ug/kg		ND	1.7	1
959-98-8	Endosulfan I.....	ug/kg		ND	1.7	1
60-57-1	Dieldrin.....	ug/kg		ND	1.7	1
72-55-9	4,4'-DDE.....	ug/kg		ND	3.4	1
72-20-8	Endrin.....	ug/kg		ND	3.4	1
33213-65-9	Endosulfan II.....	ug/kg		ND	3.4	1
72-54-8	4,4'-DDD.....	ug/kg		ND	3.4	1
1031-07-8	Endosulfan sulfate.....	ug/kg		ND	3.4	1
50-29-3	4,4'-DDT.....	ug/kg		ND	3.4	1
72-43-5	Methoxychlor.....	ug/kg		ND	17	1
53494-70-5	Endrin ketone.....	ug/kg		ND	17	1
7421-93-4	Endrin aldehyde.....	ug/kg		ND	3.4	1
5103-71-9	alpha Chlordane.....	ug/kg		ND	0.34	1
5103-74-2	gamma Chlordane.....	ug/kg		ND	1.7	1
8001-35-2	Toxaphene.....	ug/kg		ND	1.7	1
12674-11-2	Aroclor-1016.....	ug/kg		ND	170	1
11104-28-2	Aroclor-1221.....	ug/kg		ND	34	1
11141-16-5	Aroclor-1232.....	ug/kg		ND	67	1
				ND	34	1

RL = Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 8081LA - Pesticides & PCB's - LANL

Lab Sample ID: L9809522-05
Client Sample ID: RE15-98-0033
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 98

TCLP Extract Date: N/A

Extract Date: 09/30/98

Analysis Date: 10/01/98 Time:

Instrument: HP9

Analyst: ECL

Lab File ID: 412.D

Method: 8081A\3550B
Run ID: R53256
Batch: WG46843

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
53469-21-9	Aroclor-1242	ug/kg		ND	34	1
12672-29-6	Aroclor-1248	ug/kg		ND	34	1
11097-69-1	Aroclor-1254	ug/kg		ND	34	1
11096-82-5	Aroclor-1260	ug/kg		ND	34	1
SURROGATES- In Percent Recovery:						
	2,4,5,6-Tetrachloro-m-xylene	75.8		(29 - 133%)		
	Decachlorobiphenyl	109		(30 - 173%)		

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-05
Client Sample ID: RE15-98-0033
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 98

TCLP Extract Date: N/A

Extract Date: 09/29/98

Analysis Date: 10/16/98 Time: 20:01

Instrument: HPMS7

Analyst: MLS

Lab File ID: 5992

Method: 8270C
Run ID: R54614
Batch: WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
62-75-9	n-Nitrosodimethylamine	ug/kg		ND	340	1
62-53-3	Aniline	ug/kg		ND	670	1
108-95-2	Phenol	ug/kg		ND	340	1
111-44-4	Bis (2-Chloroethyl) ether	ug/kg		ND	340	1
95-57-8	2-Chlorophenol	ug/kg		ND	340	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	340	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	340	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	340	1
95-48-7	2-Methylphenol	ug/kg		ND	340	1
106-44-5	4-Methylphenol	ug/kg		ND	340	1

RL = Reporting Limit

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-05
Client Sample ID: RE15-98-0033
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 98

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98

Instrument: HPMS7
Analyst: MJS
Lab File ID: 5992

Method: 8270C
Run ID: R54614
Batch : WG47900

Time: 20:01

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
621-64-7	n-Nitroso-di-n-propylamine.....	ug/kg		ND	340	1
67-72-1	Hexachloroethane.....	ug/kg		ND	340	1
98-95-3	Nitrobenzene.....	ug/kg		ND	340	1
78-59-1	Isophorone.....	ug/kg		ND	340	1
88-75-5	2-Nitrophenol.....	ug/kg		ND	340	1
105-67-9	2,4-Dimethylphenol.....	ug/kg		ND	340	1
65-85-0	Benzoic acid.....	ug/kg		ND	340	1
111-91-1	bis(2-Chloroethoxy)methane.....	ug/kg		ND	3400	1
120-83-2	2,4-Dichlorophenol.....	ug/kg		ND	340	1
120-82-1	1,2,4-Trichlorobenzene.....	ug/kg		ND	340	1
91-20-3	Naphthalene.....	ug/kg		ND	340	1
106-47-8	4-Chloroaniline.....	ug/kg		ND	1300	1
87-68-3	Hexachlorobutadiene.....	ug/kg		ND	340	1
59-50-7	4-Chloro-3-methylphenol.....	ug/kg		ND	670	1
91-57-6	2-Methylnaphthalene.....	ug/kg		ND	340	1
77-47-4	Hexachlorocyclopentadiene.....	ug/kg		ND	340	1
88-06-2	2,4,6-Trichlorophenol.....	ug/kg		ND	340	1
95-95-4	2,4,5-Trichlorophenol.....	ug/kg		ND	340	1
91-58-7	2-Chloronaphthalene.....	ug/kg		ND	1600	1
88-74-4	2-Nitroaniline.....	ug/kg		ND	340	1
131-11-3	Dimethylphthalate.....	ug/kg		ND	1600	1
208-96-8	Acenaphthylene.....	ug/kg		ND	340	1
99-09-2	3-Nitroaniline.....	ug/kg		ND	340	1
83-32-9	Acenaphthene.....	ug/kg		ND	1600	1
51-28-5	2,4-Dinitrophenol.....	ug/kg		ND	340	1
100-02-7	4-Nitrophenol.....	ug/kg		ND	1600	1
132-64-9	Dibenzofuran.....	ug/kg		ND	1600	1
121-14-2	2,4-Dinitrotoluene.....	ug/kg		ND	340	1
606-20-2	2,6-Dinitrotoluene.....	ug/kg		ND	340	1
84-66-2	Diethylphthalate.....	ug/kg		ND	340	1
7005-72-3	4-Chlorophenyl-phenyl ether.....	ug/kg		ND	340	1
86-73-7	Fluorene.....	ug/kg		ND	340	1
100-01-6	4-Nitroaniline.....	ug/kg		ND	340	1
534-52-1	4,6-Dinitro-2-methylphenol.....	ug/kg		ND	670	1
86-30-6	n-Nitrosodiphenylamine.....	ug/kg		ND	1600	1
103-33-3	Azobenzene.....	ug/kg		ND	340	1
101-55-3	4-Bromophenyl-phenylether.....	ug/kg		ND	670	1
118-74-1	Hexachlorobenzene.....	ug/kg		ND	340	1
87-86-5	Pentachlorophenol.....	ug/kg		ND	340	1

RL = Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-05
Client Sample ID: RE15-98-0033
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98

Sample Weight: N/A
Extract Volume: N/A

% Solid: 98

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 20:01

Instrument: HPMS7
Analyst: MJS
Lab File ID: 5992

Method: 8270C
Run ID: R54614
Batch: WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
85-01-8	Phenanthrene.....	ug/kg		ND	340	1
120-12-7	Anthracene.....	ug/kg		ND	340	1
84-74-2	Di-n-butylphthalate.....	ug/kg		ND	340	1
206-44-0	Fluoranthene.....	ug/kg		ND	340	1
129-00-0	Pyrene.....	ug/kg		ND	340	1
85-68-7	Butylbenzylphthalate.....	ug/kg		ND	340	1
91-94-1	3,3'-Dichlorobenzidine.....	ug/kg		ND	340	1
56-55-3	Benzo(a)anthracene.....	ug/kg		ND	670	1
117-81-7	bis(2-Ethylhexyl)phthalate.....	ug/kg		ND	340	1
218-01-9	Chrysene.....	ug/kg		ND	340	1
117-84-0	Di-n-octylphthalate.....	ug/kg		ND	340	1
205-99-2	Benzo(b)fluoranthene.....	ug/kg		ND	340	1
207-08-9	Benzo(k)fluoranthene.....	ug/kg		ND	340	1
50-32-8	Benzo(a)pyrene.....	ug/kg		ND	340	1
193-39-5	Indeno(1,2,3-cd)pyrene.....	ug/kg		ND	340	1
53-70-3	Dibenzo(a,h)anthracene.....	ug/kg		ND	340	1
191-24-2	Benzo(g,h,i)perylene.....	ug/kg		ND	340	1
100-51-6	Benzyl alcohol.....	ug/kg		ND	340	1
108-60-1	2,2'-Oxybis(1-chloropropane).....	ug/kg		ND	1300	1
					340	1
SURROGATES- In Percent Recovery:						
	2,4,6-Tribromophenol.....	77.4	(19 - 122%)			
	2-Fluorobiphenyl.....	65.4	(30 - 115%)			
	2-Fluorophenol.....	56.6	(25 - 121%)			
	Nitrobenzene-d5.....	62.7	(23 - 120%)			
	Phenol-d5.....	59.5	(24 - 113%)			
	p-Terphenyl-d14.....	104	(18 - 137%)			

RL = Reporting Limit

Product: 826LA - Volatile Organics

Lab Sample ID: L9809522-05
Client Sample ID: RE15-98-0033
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 98

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 10/01/98 Time: 08:46

Instrument: HPMS6
Analyst: CMS
Lab File ID: 6LA10307
Method: 8260B
Run ID: R53362
Batch: WG46889

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
75-71-8	Dichlorodifluoromethane.....	ug/kg		ND	10	1
74-87-3	Chloromethane.....	ug/kg		ND	10	1
75-01-4	Vinyl chloride.....	ug/kg		ND	10	1
74-83-9	Bromomethane.....	ug/kg		ND	10	1
75-00-3	Chloroethane.....	ug/kg		ND	10	1
75-69-4	Trichlorofluoromethane.....	ug/kg		ND	5.1	1
75-35-4	1,1-Dichloroethene.....	ug/kg		ND	5.1	1
74-88-4	Iodomethane.....	ug/kg		ND	5.1	1
75-15-0	Carbon disulfide.....	ug/kg		ND	5.1	1
67-64-1	Acetone.....	ug/kg		ND	20	1
75-09-2	Methylene chloride.....	ug/kg		ND	5.1	1
156-60-5	trans-1,2-Dichloroethene.....	ug/kg		ND	10	1
75-34-3	1,1-Dichloroethane.....	ug/kg		ND	5.1	1
594-20-7	2,2-Dichloropropane.....	ug/kg		ND	5.1	1
156-59-2	cis-1,2-Dichloroethene.....	ug/kg		ND	10	1
78-93-3	2-Butanone.....	ug/kg		ND	20	1
74-97-5	Bromochloromethane.....	ug/kg		ND	5.1	1
67-66-3	Chloroform.....	ug/kg		ND	5.1	1
71-55-6	1,1,1-Trichloroethane.....	ug/kg		ND	5.1	1
56-23-5	Carbon tetrachloride.....	ug/kg		ND	5.1	1
563-58-6	1,1-Dichloropropene.....	ug/kg		ND	5.1	1
71-43-2	Benzene.....	ug/kg		ND	5.1	1
107-06-2	1,2-Dichloroethane.....	ug/kg		ND	5.1	1
79-01-6	Trichloroethene.....	ug/kg		ND	5.1	1
78-87-5	1,2-Dichloropropane.....	ug/kg		ND	5.1	1
74-95-3	Dibromomethane.....	ug/kg		ND	5.1	1
75-27-4	Bromodichloromethane.....	ug/kg		ND	5.1	1
10061-02-6	trans-1,3-Dichloropropene.....	ug/kg		ND	5.1	1
108-10-1	4-Methyl-2-pentanone.....	ug/kg		ND	20	1
108-88-3	Toluene.....	ug/kg		ND	5.1	1
10061-01-5	cis-1,3-Dichloropropene.....	ug/kg		ND	5.1	1
79-00-5	1,1,2-Trichloroethane.....	ug/kg		ND	5.1	1
127-18-4	Tetrachloroethene.....	ug/kg		ND	5.1	1
142-28-9	1,3-Dichloropropane.....	ug/kg		ND	5.1	1
124-48-1	Dibromochloromethane.....	ug/kg		ND	5.1	1
591-78-6	2-Hexanone.....	ug/kg		ND	20	1
106-93-4	1,2-Dibromoethane.....	ug/kg		ND	5.1	1
108-90-7	Chlorobenzene.....	ug/kg		ND	5.1	1
630-20-6	1,1,1,2-Tetrachloroethane.....	ug/kg		ND	5.1	1

RL = Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826LA - Volatile Organics

Lab Sample ID: L9809522-05
Client Sample ID: RE15-98-0033
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 98

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 10/01/98 Time: 08:46

Instrument: HPMS6
Analyst: CMS
Lab File ID: 6LA10307
Method: 8260B
Run ID: R53362
Batch: WG46889

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethyl benzene.....	ug/kg		ND	5.1	1
1330-20-7	Xylenes (total).....	ug/kg			5.1	1
100-42-5	Styrene.....	ug/kg		ND	5.1	1
75-25-2	Bromofom.....	ug/kg		ND	5.1	1
98-82-8	Isopropylbenzene.....	ug/kg		ND	5.1	1
108-86-1	Bromobenzene.....	ug/kg		ND	5.1	1
96-18-4	1,2,3-Trichloropropane.....	ug/kg		ND	5.1	1
79-34-5	1,1,2,2-Tetrachloroethane.....	ug/kg		ND	5.1	1
103-65-1	n-Propylbenzene.....	ug/kg		ND	5.1	1
95-49-8	2-Chlorotoluene.....	ug/kg		ND	5.1	1
106-43-4	4-Chlorotoluene.....	ug/kg		ND	5.1	1
108-67-8	1,3,5-Trimethylbenzene.....	ug/kg		ND	5.1	1
98-06-6	tert-Butylbenzene.....	ug/kg		ND	5.1	1
95-63-6	1,2,4-Trimethylbenzene.....	ug/kg		ND	5.1	1
135-98-8	sec-Butylbenzene.....	ug/kg		ND	5.1	1
541-73-1	1,3-Dichlorobenzene.....	ug/kg		ND	5.1	1
106-46-7	1,4-Dichlorobenzene.....	ug/kg		ND	5.1	1
99-87-6	p-Isopropyltoluene.....	ug/kg		ND	5.1	1
95-50-1	1,2-Dichlorobenzene.....	ug/kg		ND	5.1	1
104-51-8	n-Butylbenzene.....	ug/kg		ND	5.1	1
96-12-8	1,2-Dibromo-3-chloropropane.....	ug/kg		ND	5.1	1
76-13-1	Trichlorotrifluoroethane.....	ug/kg		ND	10	1
SURROGATES - In Percent Recovery:						
	Toluene-d8.....	83.6	(81 - 117%)			
	p-Bromofluorobenzene.....	80.8	(74 - 121%)			
	Dibromofluoromethane.....	92.7	(80 - 120%)			
	1,2-Dichloroethane-d4.....	100	(80 - 120%)			

RL = Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L9809522-06
Client Sample ID: RE15-98-0034
Site/Work ID: 4659R/MR3R12082642

Matrix: Soil
Collected: 09/23/98 N/A
% Solid: 97
COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	% wt.	97		1.0	1	N/A	DKM	10/15/98	13:50	D2216-90

Product: 80811A - Pesticides & PCB's - LANL

Lab Sample ID: L9809522-06
Client Sample ID: RE15-98-0034
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 97

TCLP Extract Date: N/A
Extract Date: 09/30/98
Analysis Date: 10/01/98 Time:

Instrument: HP9
Analyst: ECL
Lab File ID: 413.D
Method: 8081A\3550B
Run ID: R53256
Batch : WG46843

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
319-84-6	alpha-BHC.....	ug/kg		ND	1.7	1
319-85-7	beta-BHC.....	ug/kg		ND	1.7	1
319-86-8	delta-BHC.....	ug/kg		ND	1.7	1
58-89-9	gamma-BHC (Lindane).....	ug/kg		ND	1.7	1
76-44-8	Heptachlor.....	ug/kg		ND	1.7	1
309-00-2	Aldrin.....	ug/kg		ND	1.7	1
1024-57-3	Heptachlor epoxide.....	ug/kg		ND	1.7	1
959-98-8	Endosulfan I.....	ug/kg		ND	1.7	1
60-57-1	Dieldrin.....	ug/kg		ND	1.7	1
72-55-9	4,4'-DDE.....	ug/kg		ND	3.4	1
72-20-8	Endrin.....	ug/kg		ND	3.4	1
33213-65-9	Endosulfan II.....	ug/kg		ND	3.4	1
72-54-8	4,4'-DDD.....	ug/kg		ND	3.4	1
1031-07-8	Endosulfan sulfate.....	ug/kg		ND	3.4	1
50-29-3	4,4'-DDT.....	ug/kg		ND	3.4	1
72-43-5	Methoxychlor.....	ug/kg		ND	17	1
53494-70-5	Endrin ketone.....	ug/kg		ND	3.4	1
7421-93-4	Endrin aldehyde.....	ug/kg		ND	0.34	1
5103-71-9	alpha Chlordane.....	ug/kg		ND	1.7	1
5103-74-2	gamma Chlordane.....	ug/kg		ND	1.7	1
8001-35-2	Toxaphene.....	ug/kg		ND	1.7	1
12674-11-2	Aroclor-1016.....	ug/kg		ND	170	1
11104-28-2	Aroclor-1221.....	ug/kg		ND	34	1
11141-16-5	Aroclor-1232.....	ug/kg		ND	68	1
				ND	34	1

RL = Reporting Limit

Product: 8081LA - Pesticides & PCB's - LANL

Lab Sample ID: L9809522-06
Client Sample ID: RE15-98-0034
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 97

TCLP Extract Date: N/A
Extract Date: 09/30/98
Analysis Date: 10/01/98 Time:

Instrument: HP9
Analyst: ECL
Lab File ID: 413.D
Method: 8081A\3550B
Run ID: R53256
Batch: WG46843

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
53469-21-9	Aroclor-1242	ug/kg		ND	34	1
12672-29-6	Aroclor-1248	ug/kg		ND	34	1
11097-69-1	Aroclor-1254	ug/kg		ND	34	1
11096-82-5	Aroclor-1260	ug/kg		ND	34	1
SURROGATES- In Percent Recovery:						
	2,4,5,6-Tetrachloro-m-xylene	62.8		(29 - 133%)		
	Decachlorobiphenyl	87.4		(30 - 173%)		

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-06
Client Sample ID: RE15-98-0034
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 97

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 20:40

Instrument: HPMS7
Analyst: MLS
Lab File ID: 5993
Method: 8270C
Run ID: R54614
Batch: WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
62-75-9	n-Nitrosodimethylamine	ug/kg		ND	340	1
62-53-3	Aniline	ug/kg		ND	680	1
108-95-2	Phenol	ug/kg		ND	340	1
111-44-4	bis(2-Chloroethyl) ether	ug/kg		ND	340	1
95-57-8	2-Chlorophenol	ug/kg		ND	340	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	340	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	340	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	340	1
95-48-7	2-Methylphenol	ug/kg		ND	340	1
106-44-5	4-Methylphenol	ug/kg		ND	340	1

RL = Reporting Limit

Product: 827LAS - Semivolatle Compounds

Lab Sample ID: L9809522-06
Client Sample ID: RE15-98-0034
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Instrument: HPMS7
Analyst: MLS
Lab File ID: 5993

Sample Weight: N/A
Extract Volume: N/A
% Solid: 97
Method: 8270C
Run ID: R54614
Batch : WG47900

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 20:40

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
621-64-7	n-Nitroso-di-n-propylamine.....	ug/kg		ND	340	1
67-72-1	Hexachloroethane.....	ug/kg		ND	340	1
98-95-3	Nitrobenzene.....	ug/kg		ND	340	1
78-59-1	Isophorone.....	ug/kg		ND	340	1
88-75-5	2-Nitrophenol.....	ug/kg		ND	340	1
105-67-9	2,4-Dimethylphenol.....	ug/kg		ND	340	1
65-85-0	Benzoic acid.....	ug/kg		ND	340	1
111-91-1	bis(2-Chloroethoxy) methane.....	ug/kg		ND	3400	1
120-83-2	2,4-Dichlorophenol.....	ug/kg		ND	340	1
120-82-1	1,2,4-Trichlorobenzene.....	ug/kg		ND	340	1
91-20-3	Naphthalene.....	ug/kg		ND	340	1
106-47-8	4-Chloroaniline.....	ug/kg		ND	340	1
87-68-3	Hexachlorobutadiene.....	ug/kg		ND	1300	1
59-50-7	4-Chloro-3-methylphenol.....	ug/kg		ND	340	1
91-57-6	2-Methylnaphthalene.....	ug/kg		ND	680	1
77-47-4	Hexachlorocyclopentadiene.....	ug/kg		ND	340	1
88-06-2	2,4,6-Trichlorophenol.....	ug/kg		ND	340	1
95-95-4	2,4,5-Trichlorophenol.....	ug/kg		ND	340	1
91-58-7	2-Chloronaphthalene.....	ug/kg		ND	1700	1
88-74-4	2-Nitroaniline.....	ug/kg		ND	340	1
131-11-3	Dimethylphthalate.....	ug/kg		ND	1700	1
208-96-8	Acenaphthylene.....	ug/kg		ND	340	1
99-09-2	3-Nitroaniline.....	ug/kg		ND	340	1
83-32-9	Acenaphthene.....	ug/kg		ND	1700	1
51-28-5	2,4-Dinitrophenol.....	ug/kg		ND	340	1
100-02-7	4-Nitrophenol.....	ug/kg		ND	340	1
132-64-9	Dibenzofuran.....	ug/kg		ND	1700	1
121-14-2	2,4-Dinitrotoluene.....	ug/kg		ND	340	1
606-20-2	2,6-Dinitrotoluene.....	ug/kg		ND	340	1
84-66-2	Diethylphthalate.....	ug/kg		ND	340	1
7005-72-3	4-Chlorophenyl-phenyl ether.....	ug/kg		ND	340	1
86-73-7	Fluorene.....	ug/kg		ND	340	1
100-01-6	4-Nitroaniline.....	ug/kg		ND	340	1
534-52-1	4,6-Dinitro-2-methylphenol.....	ug/kg		ND	680	1
86-30-6	n-Nitrosodiphenylamine.....	ug/kg		ND	1700	1
103-33-3	Azobenzene.....	ug/kg		ND	340	1
101-55-3	4-Bromophenyl-phenylether.....	ug/kg		ND	680	1
118-74-1	Hexachlorobenzene.....	ug/kg		ND	340	1
87-86-5	Pentachlorophenol.....	ug/kg		ND	340	1

RL = Reporting Limit

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-06
Client Sample ID: RE15-98-0034
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 97

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98

Instrument: HPMS7
Analyst: MJS
Lab File ID: 5993

Method: 8270C
Run ID: R54614
Batch : WG47900

Time: 20:40

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
85-01-8	Phenanthrene.....	ug/kg		ND	340	1
120-12-7	Anthracene.....	ug/kg		ND	340	1
84-74-2	Di-n-butylphthalate.....	ug/kg		ND	340	1
206-44-0	Fluoranthene.....	ug/kg		ND	340	1
129-00-0	Pyrene.....	ug/kg		ND	340	1
85-68-7	Butylbenzylphthalate.....	ug/kg		ND	340	1
91-94-1	3,3'-Dichlorobenzidine.....	ug/kg		ND	680	1
56-55-3	Benzo(a)anthracene.....	ug/kg		ND	340	1
117-81-7	bis(2-Ethylhexyl)phthalate.....	ug/kg		ND	340	1
218-01-9	Chrysene.....	ug/kg		ND	340	1
117-84-0	Di-n-octylphthalate.....	ug/kg		ND	340	1
205-99-2	Benzo(b)fluoranthene.....	ug/kg		ND	340	1
207-08-9	Benzo(k)fluoranthene.....	ug/kg		ND	340	1
50-32-8	Benzo(a)pyrene.....	ug/kg		ND	340	1
193-39-5	Indeno(1,2,3-cd)pyrene.....	ug/kg		ND	340	1
53-70-3	Dibenzo(a,h)anthracene.....	ug/kg		ND	340	1
191-24-2	Benzo(g,h,i)Perylene.....	ug/kg		ND	340	1
100-51-6	Benzyl alcohol.....	ug/kg		ND	340	1
108-60-1	2,2'-Oxybis(1-chloropropane).....	ug/kg		ND	1300	1
SURROGATES- In Percent Recovery:						
	2,4,6-Tribromophenol.....	79.1	(	19 - 122%)		
	2-Fluorobiphenyl.....	75.4	(	30 - 115%)		
	2-Fluorophenol.....	61.4	(	25 - 121%)		
	Nitrobenzene-d5.....	68.9	(	23 - 120%)		
	Phenol-d5.....	66.2	(	24 - 113%)		
	p-Terphenyl-di4.....	104	(	18 - 137%)		

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826LA - Volatile Organics

Lab Sample ID: L9809522-06
Client Sample ID: RE15-98-0034
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 97

TCLP Extract Date: N/A

Extract Date: N/A

Analysis Date: 10/03/98 Time: 15:54

Instrument: HPMS6

Analyst: CMS

Lab File ID: 6LA10367

Method: 8260B
Run ID: R53603
Batch: WG47027

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
75-71-8	Dichlorodifluoromethane.....	ug/kg		ND	10	1
74-87-3	Chloromethane.....	ug/kg		ND	10	1
75-01-4	Vinyl chloride.....	ug/kg		ND	10	1
74-83-9	Bromomethane.....	ug/kg		ND	10	1
75-00-3	Chloroethane.....	ug/kg		ND	10	1
75-69-4	Trichlorofluoromethane.....	ug/kg		ND	5.2	1
75-35-4	1,1-Dichloroethene.....	ug/kg		ND	5.2	1
74-88-4	Iodomethane.....	ug/kg		ND	5.2	1
75-15-0	Carbon disulfide.....	ug/kg		ND	5.2	1
67-64-1	Acetone.....	ug/kg		ND	21	1
75-09-2	Methylene chloride.....	ug/kg		ND	5.2	1
156-60-5	trans-1,2-Dichloroethene.....	ug/kg		ND	10	1
75-34-3	1,1-Dichloroethane.....	ug/kg		ND	5.2	1
594-20-7	2,2-Dichloropropane.....	ug/kg		ND	5.2	1
156-59-2	cis-1,2-Dichloroethene.....	ug/kg		ND	10	1
78-93-3	2-Butanone.....	ug/kg		ND	21	1
74-97-5	Bromochloromethane.....	ug/kg		ND	5.2	1
67-66-3	Chloroform.....	ug/kg		ND	5.2	1
71-55-6	1,1,1-Trichloroethane.....	ug/kg		ND	5.2	1
56-23-5	Carbon tetrachloride.....	ug/kg		ND	5.2	1
563-58-6	1,1-Dichloropropene.....	ug/kg		ND	5.2	1
71-43-2	Benzene.....	ug/kg		ND	5.2	1
107-06-2	1,2-Dichloroethane.....	ug/kg		ND	5.2	1
79-01-6	Trichloroethene.....	ug/kg		ND	5.2	1
78-87-5	1,2-Dichloropropane.....	ug/kg		ND	5.2	1
74-95-3	Dibromomethane.....	ug/kg		ND	5.2	1
75-27-4	Bromodichloromethane.....	ug/kg		ND	5.2	1
10061-02-6	trans-1,3-Dichloropropene.....	ug/kg		ND	5.2	1
108-10-1	4-Methyl-2-pentanone.....	ug/kg		ND	5.2	1
108-88-3	Toluene.....	ug/kg		ND	21	1
10061-01-5	cis-1,3-Dichloropropene.....	ug/kg		ND	5.2	1
79-00-5	1,1,2-Trichloroethane.....	ug/kg		ND	5.2	1
127-18-4	Tetrachloroethene.....	ug/kg		ND	5.2	1
142-28-9	1,3-Dichloropropane.....	ug/kg		ND	5.2	1
124-48-1	Dibromochloromethane.....	ug/kg		ND	5.2	1
591-78-6	2-Hexanone.....	ug/kg		ND	5.2	1
106-93-4	1,2-Dibromoethane.....	ug/kg		ND	21	1
108-90-7	Chlorobenzene.....	ug/kg		ND	5.2	1
630-20-6	1,1,1,2-Tetrachloroethane.....	ug/kg		ND	5.2	1

RL = Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826LA - Volatile Organics

Lab Sample ID: L9809522-06
Client Sample ID: RE15-98-0034
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 97

TCLP Extract Date: N/A

Extract Date: N/A

Analysis Date: 10/03/98 Time: 15:54

Instrument: HPMS6

Analyst: CMS

Lab File ID: 6LA10367

Method: 8260B
Run ID: R53603
Batch : WG47027

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethyl benzene	ug/kg		ND	5.2	1
1330-20-7	Xylenes (total)	ug/kg		ND	5.2	1
100-42-5	Styrene	ug/kg		ND	5.2	1
75-25-2	Bromofom	ug/kg		ND	5.2	1
98-82-8	Isopropylbenzene	ug/kg		ND	5.2	1
108-86-1	Bromobenzene	ug/kg		ND	5.2	1
96-18-4	1,2,3-Trichloropropane	ug/kg		ND	5.2	1
79-34-5	1,1,2,2-Tetrachloroethane	ug/kg		ND	5.2	1
103-65-1	n-Propylbenzene	ug/kg		ND	5.2	1
95-49-8	2-Chlorotoluene	ug/kg		ND	5.2	1
106-43-4	4-Chlorotoluene	ug/kg		ND	5.2	1
108-67-8	1,3,5-Trimethylbenzene	ug/kg		ND	5.2	1
98-06-6	tert-Butylbenzene	ug/kg		ND	5.2	1
95-63-6	1,2,4-Trimethylbenzene	ug/kg		ND	5.2	1
135-98-8	sec-Butylbenzene	ug/kg		ND	5.2	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	5.2	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	5.2	1
99-87-6	p-Isopropyltoluene	ug/kg		ND	5.2	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	5.2	1
104-51-8	n-Butylbenzene	ug/kg		ND	5.2	1
96-12-8	1,2-Dibromo-3-chloropropane	ug/kg		ND	5.2	1
76-13-1	Trichlorotrifluoroethane	ug/kg		ND	10	1
SURROGATES- In Percent Recovery:						
	Toluene-d8	104	(81 - 117%)			
	p-Bromofluorobenzene	92.6	(74 - 121%)			
	Dibromofluoromethane	104	(80 - 120%)			
	1,2-Dichloroethane-d4	109	(80 - 120%)			

RL = Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L9809522-07
Client Sample ID: RE15-98-0035
Site/Work ID: 4659R/MR3R12082642

Matrix: Soil
Collected: 09/23/98 N/A
% Solid: 94
COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	% wt.	94		1.0	1	N/A	DKM	10/15/98	13:50	D2216-90

Product: 80811A - Pesticides & PCB's - LANL

Lab Sample ID: L9809522-07
Client Sample ID: RE15-98-0035
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 94

TCLP Extract Date: N/A

Extract Date: 09/30/98

Analysis Date: 10/01/98 Time:

Instrument: HP9

Analyst: ECL

Lab File ID: 414.D

Method: 8081A\3550B

Run ID: R53256

Batch : WG46843

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
319-84-6	alpha-BHC.....	ug/kg		ND	1.8	1
319-85-7	beta-BHC.....	ug/kg		ND	1.8	1
319-86-8	delta-BHC.....	ug/kg		ND	1.8	1
58-89-9	gamma-BHC (Lindane).....	ug/kg		ND	1.8	1
76-44-8	Heptachlor.....	ug/kg		ND	1.8	1
309-00-2	Aldrin.....	ug/kg		ND	1.8	1
1024-57-3	Heptachlor epoxide.....	ug/kg		ND	1.8	1
959-98-8	Endosulfan I.....	ug/kg		ND	1.8	1
60-57-1	Dieldrin.....	ug/kg		ND	1.8	1
72-55-9	4,4'-DDE.....	ug/kg		ND	3.5	1
72-20-8	Endrin.....	ug/kg		ND	3.5	1
33213-65-9	Endosulfan II.....	ug/kg		ND	3.5	1
72-54-8	4,4'-DDD.....	ug/kg		ND	3.5	1
1031-07-8	Endosulfan sulfate.....	ug/kg		ND	3.5	1
50-29-3	4,4'-DDT.....	ug/kg		ND	3.5	1
72-43-5	Methoxychlor.....	ug/kg		ND	18	1
53494-70-5	Endrin ketone.....	ug/kg		ND	3.5	1
7421-93-4	Endrin aldehyde.....	ug/kg		ND	0.35	1
5103-71-9	alpha Chlordane.....	ug/kg		ND	1.8	1
5103-74-2	gamma Chlordane.....	ug/kg		ND	1.8	1
8001-35-2	Toxaphene.....	ug/kg		ND	180	1
12674-11-2	Aroclor-1016.....	ug/kg		ND	35	1
11104-28-2	Aroclor-1221.....	ug/kg		ND	70	1
11141-16-5	Aroclor-1232.....	ug/kg		ND	35	1

RL = Reporting Limit

Product: 8081LA - Pesticides & PCB's - LANL

Lab Sample ID: L9809522-07
Client Sample ID: RE15-98-0035
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 94

TCLP Extract Date: N/A
Extract Date: 09/30/98
Analysis Date: 10/01/98 Time:

Instrument: HP9
Analyst: ECL
Lab File ID: 414.D
Method: 8081A\3550B
Run ID: R53256
Batch : WG46843

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
53469-21-9	Aroclor-1242	ug/kg		ND	35	1
12672-29-6	Aroclor-1248	ug/kg		ND	35	1
11097-69-1	Aroclor-1254	ug/kg		ND	35	1
11096-82-5	Aroclor-1260	ug/kg		ND	35	1
SURROGATES- In Percent Recovery:						
	2,4,5,6-Tetrachloro-m-xylene	69.5	(29 - 133%)			
	Decachlorobiphenyl	97.2	(30 - 173%)			

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-07
Client Sample ID: RE15-98-0035
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 94

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 21:19

Instrument: HPMS7
Analyst: MLS
Lab File ID: 5994
Method: 8270C
Run ID: R54614
Batch : WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
62-75-9	n-Nitrosodimethylamine	ug/kg		ND	350	1
62-53-3	Aniline	ug/kg		ND	700	1
108-95-2	Phenol	ug/kg		ND	350	1
111-44-4	Bis(2-Chloroethyl) ether	ug/kg		ND	350	1
95-57-8	2-Chlorophenol	ug/kg		ND	350	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	350	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	350	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	350	1
95-48-7	2-Methylphenol	ug/kg		ND	350	1
106-44-5	4-Methylphenol	ug/kg		ND	350	1

RL = Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-07
Client Sample ID: RE15-98-0035
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A
% Solid: 94
Method: 8270C
Run ID: R54614
Batch: WG47900

Date Collected: 09/23/98

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98
Time: 21:19

Instrument: HPMS7
Analyst: MLS
Lab File ID: 5994

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
621-64-7	n-Nitroso-di-n-propylamine.....	ug/kg		ND	350	1
67-72-1	Hexachloroethane.....	ug/kg		ND	350	1
98-95-3	Nitrobenzene.....	ug/kg		ND	350	1
78-59-1	Isophorone.....	ug/kg		ND	350	1
88-75-5	2-Nitrophenol.....	ug/kg		ND	350	1
105-67-9	2,4-Dimethylphenol.....	ug/kg		ND	350	1
65-85-0	Benzoic acid.....	ug/kg		ND	350	1
111-91-1	bis(2-Chloroethoxy)methane.....	ug/kg		ND	3500	1
120-83-2	2,4-Dichlorophenol.....	ug/kg		ND	350	1
120-82-1	1,2,4-Trichlorobenzene.....	ug/kg		ND	350	1
91-20-3	Naphthalene.....	ug/kg		ND	350	1
106-47-8	4-Chloroaniline.....	ug/kg		ND	350	1
87-68-3	Hexachlorobutadiene.....	ug/kg		ND	1400	1
59-50-7	4-Chloro-3-methylphenol.....	ug/kg		ND	350	1
91-57-6	2-Methylnaphthalene.....	ug/kg		ND	700	1
77-47-4	Hexachlorocyclopentadiene.....	ug/kg		ND	350	1
88-06-2	2,4,6-Trichlorophenol.....	ug/kg		ND	350	1
95-95-4	2,4,5-Trichlorophenol.....	ug/kg		ND	350	1
91-58-7	2-Chloronaphthalene.....	ug/kg		ND	1700	1
88-74-4	2-Nitroaniline.....	ug/kg		ND	350	1
131-11-3	Dimethylphthalate.....	ug/kg		ND	1700	1
208-96-8	Acenaphthylene.....	ug/kg		ND	350	1
99-09-2	3-Nitroaniline.....	ug/kg		ND	350	1
83-32-9	Acenaphthene.....	ug/kg		ND	1700	1
51-28-5	2,4-Dinitrophenol.....	ug/kg		ND	350	1
100-02-7	4-Nitrophenol.....	ug/kg		ND	1700	1
132-64-9	Dibenzofuran.....	ug/kg		ND	1700	1
121-14-2	2,4-Dinitrotoluene.....	ug/kg		ND	350	1
606-20-2	2,6-Dinitrotoluene.....	ug/kg		ND	350	1
84-66-2	Diethylphthalate.....	ug/kg		ND	350	1
7005-72-3	4-Chlorophenyl-phenyl ether.....	ug/kg		ND	350	1
86-73-7	Fluorene.....	ug/kg		ND	350	1
100-01-6	4-Nitroaniline.....	ug/kg		ND	350	1
534-52-1	4,6-Dinitro-2-methylphenol.....	ug/kg		ND	700	1
86-30-6	n-Nitrosodiphenylamine.....	ug/kg		ND	1700	1
103-33-3	Azobenzene.....	ug/kg		ND	350	1
101-55-3	4-Bromophenyl-phenylether.....	ug/kg		ND	700	1
118-74-1	Hexachlorobenzene.....	ug/kg		ND	350	1
87-86-5	Pentachlorophenol.....	ug/kg		ND	350	1

RL = Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-07
Client Sample ID: RE15-98-0035
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 94

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98

Instrument: HPMS7
Analyst: MLS
Lab File ID: 5994

Method: 8270C
Run ID: R54614
Batch: WG47900

Time: 21:19

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
85-01-8	Phenanthrene	ug/kg		ND	350	1
120-12-7	Anthracene	ug/kg		ND	350	1
84-74-2	Di-n-butylphthalate	ug/kg		ND	350	1
206-44-0	Fluoranthene	ug/kg		ND	350	1
129-00-0	Pyrene	ug/kg		ND	350	1
85-68-7	Butylbenzylphthalate	ug/kg		ND	350	1
91-94-1	3,3'-Dichlorobenzidine	ug/kg		ND	700	1
56-55-3	Benzo(a)anthracene	ug/kg		ND	350	1
117-81-7	bis(2-Ethylhexyl)phthalate	ug/kg		ND	350	1
218-01-9	Chrysene	ug/kg		ND	350	1
117-84-0	Di-n-octylphthalate	ug/kg		ND	350	1
205-99-2	Benzo(b)fluoranthene	ug/kg		ND	350	1
207-08-9	Benzo(k)fluoranthene	ug/kg		ND	350	1
50-32-8	Benzo(a)pyrene	ug/kg		ND	350	1
193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg		ND	350	1
53-70-3	Dibenzo(a,h)anthracene	ug/kg		ND	350	1
191-24-2	Benzo(g,h,i)Perylene	ug/kg		ND	350	1
100-51-6	Benzyl alcohol	ug/kg		ND	350	1
108-60-1	2,2'-Oxybis(1-chloropropane)	ug/kg		ND	1400	1
SURROGATES- In Percent Recovery:						
	2,4,6-Tribromophenol	78.1	(	19 - 122%)		
	2-Fluorobiphenyl	72.4	(	30 - 115%)		
	2-Fluorophenol	60.9	(	25 - 121%)		
	Nitrobenzene-d5	67.6	(	23 - 120%)		
	Phenol-d5	64.2	(	24 - 113%)		
	p-Terphenyl-d14	100	(	18 - 137%)		

RL = Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826LA - Volatile Organics

Lab Sample ID: L9809522-07
Client Sample ID: RE15-98-0035
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 94

TCLP Extract Date: N/A

Extract Date: N/A

Analysis Date: 10/03/98 Time: 16:27

Instrument: HPMS6

Analyst: CMS

Lab File ID: 6LA10368

Method: 8260B
Run ID: R53603
Batch : WG47027

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
75-71-8	Dichlorodifluoromethane.....	ug/kg		ND	11	1
74-87-3	Chloromethane.....	ug/kg		ND	11	1
75-01-4	Vinyl chloride.....	ug/kg		ND	11	1
74-83-9	Bromomethane.....	ug/kg		ND	11	1
75-00-3	Chloroethane.....	ug/kg		ND	11	1
75-69-4	Trichlorofluoromethane.....	ug/kg		ND	11	1
75-35-4	1,1-Dichloroethene.....	ug/kg		ND	5.3	1
74-88-4	Iodomethane.....	ug/kg		ND	5.3	1
75-15-0	Carbon disulfide.....	ug/kg		ND	5.3	1
67-64-1	Acetone.....	ug/kg		ND	21	1
75-09-2	Methylene chloride.....	ug/kg		ND	5.3	1
156-60-5	trans-1,2-Dichloroethene.....	ug/kg		ND	11	1
75-34-3	1,1-Dichloroethane.....	ug/kg		ND	5.3	1
594-20-7	2,2-Dichloropropane.....	ug/kg		ND	5.3	1
156-59-2	cis-1,2-Dichloroethene.....	ug/kg		ND	11	1
78-93-3	2-Butanone.....	ug/kg		ND	21	1
74-97-5	Bromochloromethane.....	ug/kg		ND	5.3	1
67-66-3	Chloroform.....	ug/kg		ND	5.3	1
71-55-6	1,1,1-Trichloroethane.....	ug/kg		ND	5.3	1
56-23-5	Carbon tetrachloride.....	ug/kg		ND	5.3	1
563-58-6	1,1-Dichloropropene.....	ug/kg		ND	5.3	1
71-43-2	Benzene.....	ug/kg		ND	5.3	1
107-06-2	1,2-Dichloroethane.....	ug/kg		ND	5.3	1
79-01-6	Trichloroethene.....	ug/kg		ND	5.3	1
78-87-5	1,2-Dichloropropane.....	ug/kg		ND	5.3	1
74-95-3	Dibromomethane.....	ug/kg		ND	5.3	1
75-27-4	Bromodichloromethane.....	ug/kg		ND	5.3	1
10061-02-6	trans-1,3-Dichloropropene.....	ug/kg		ND	5.3	1
108-10-1	4-Methyl-2-pentanone.....	ug/kg		ND	5.3	1
108-88-3	Toluene.....	ug/kg		ND	21	1
10061-01-5	cis-1,3-Dichloropropene.....	ug/kg		ND	5.3	1
79-00-5	1,1,2-Trichloroethane.....	ug/kg		ND	5.3	1
127-18-4	Tetrachloroethene.....	ug/kg		ND	5.3	1
142-28-9	1,3-Dichloropropane.....	ug/kg		ND	5.3	1
124-48-1	Dibromochloromethane.....	ug/kg		ND	5.3	1
591-78-6	2-Hexanone.....	ug/kg		ND	5.3	1
106-93-4	1,2-Dibromoethane.....	ug/kg		ND	21	1
108-90-7	Chlorobenzene.....	ug/kg		ND	5.3	1
630-20-6	1,1,1,2-Tetrachloroethane.....	ug/kg		ND	5.3	1

RL = Reporting Limit

KEMRON ENVIRONMENTAL SERVICES

Login #L9809522
October 21, 1998 04:03 pm

Product: 826LA - Volatile Organics

Lab Sample ID: L9809522-07
Client Sample ID: RE15-98-0035
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 94

TCLP Extract Date: N/A

Method: 8260B

Extract Date: N/A

Run ID: R53603

Analysis Date: 10/03/98 Time: 16:27

Batch: WG47027

Instrument: HPMS6

Analyst: CMS
Lab File ID: 6LA10368

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethyl benzene.....	ug/kg		ND	5.3	1
1330-20-7	Xylenes (total).....	ug/kg		ND	5.3	1
100-42-5	Styrene.....	ug/kg		ND	5.3	1
75-25-2	Bromofom.....	ug/kg		ND	5.3	1
98-82-8	Isopropylbenzene.....	ug/kg		ND	5.3	1
108-86-1	Bromobenzene.....	ug/kg		ND	5.3	1
96-18-4	1,2,3-Trichloropropane.....	ug/kg		ND	5.3	1
79-34-5	1,1,2,2-Tetrachloroethane.....	ug/kg		ND	5.3	1
103-65-1	n-Propylbenzene.....	ug/kg		ND	5.3	1
95-49-8	2-Chlorotoluene.....	ug/kg		ND	5.3	1
106-43-4	4-Chlorotoluene.....	ug/kg		ND	5.3	1
108-67-8	1,3,5-Trimethylbenzene.....	ug/kg		ND	5.3	1
98-06-6	tert-Butylbenzene.....	ug/kg		ND	5.3	1
95-63-6	1,2,4-Trimethylbenzene.....	ug/kg		ND	5.3	1
135-98-8	sec-Butylbenzene.....	ug/kg		ND	5.3	1
541-73-1	1,3-Dichlorobenzene.....	ug/kg		ND	5.3	1
106-46-7	1,4-Dichlorobenzene.....	ug/kg		ND	5.3	1
99-87-6	p-Isopropyltoluene.....	ug/kg		ND	5.3	1
95-50-1	1,2-Dichlorobenzene.....	ug/kg		ND	5.3	1
104-51-8	n-Butylbenzene.....	ug/kg		ND	5.3	1
96-12-8	1,2-Dibromo-3-chloropropane.....	ug/kg		ND	5.3	1
76-13-1	Trichlorotrifluoroethane.....	ug/kg		ND	11	1
					5.3	

SURROGATES- In Percent Recovery:

Toluene-d8.....	109	(81 - 117%)
p-Bromofluorobenzene.....	107	(74 - 121%)
Dibromofluoromethane.....	108	(80 - 120%)
1,2-Dichloroethane-d4.....	112	(80 - 120%)

RL = Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L9809522-08
Client Sample ID: RE15-98-0036
Site/Work ID: 4659R/MR3R12082642

Matrix: Soil
Collected: 09/23/98 N/A
% Solid: 95
COC Info: N/A

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	% wt.	95		1.0	1	N/A	DKM	10/15/98	13:50	D2216-90

Product: 8081LA - Pesticides & PCB's - LANL

Lab Sample ID: L9809522-08
Client Sample ID: RE15-98-0036
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 95

TCLP Extract Date: N/A
Extract Date: 09/30/98
Analysis Date: 10/01/98 Time:

Instrument: HP9
Analyst: ECL
Lab File ID: 415.D
Method: 8081A\3550B
Run ID: R53256
Batch: WG46843

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
319-84-6	alpha-BHC.....	ug/kg		ND	1.7	1
319-85-7	beta-BHC.....	ug/kg		ND	1.7	1
319-86-8	delta-BHC.....	ug/kg		ND	1.7	1
58-89-9	gamma-BHC (Lindane).....	ug/kg		ND	1.7	1
76-44-8	Heptachlor.....	ug/kg		ND	1.7	1
309-00-2	Aldrin.....	ug/kg		ND	1.7	1
1024-57-3	Heptachlor epoxide.....	ug/kg		ND	1.7	1
959-98-8	Endosulfan I.....	ug/kg		ND	1.7	1
60-57-1	Dieldrin.....	ug/kg		ND	1.7	1
72-55-9	4,4'-DDE.....	ug/kg		ND	1.7	1
72-20-8	Endrin.....	ug/kg		ND	3.5	1
33213-65-9	Endosulfan II.....	ug/kg		ND	3.5	1
72-54-8	4,4'-DDD.....	ug/kg		ND	3.5	1
1031-07-8	Endosulfan sulfate.....	ug/kg		ND	3.5	1
50-29-3	4,4'-DDT.....	ug/kg		ND	3.5	1
72-43-5	Methoxychlor.....	ug/kg		ND	17	1
53494-70-5	Endrin ketone.....	ug/kg		ND	3.5	1
7421-93-4	Endrin aldehyde.....	ug/kg		ND	0.35	1
5103-71-9	alpha Chlordane.....	ug/kg		ND	1.7	1
5103-74-2	gamma Chlordane.....	ug/kg		ND	1.7	1
8001-35-2	Toxaphene.....	ug/kg		ND	170	1
12674-11-2	Aroclor-1016.....	ug/kg		ND	35	1
11104-28-2	Aroclor-1221.....	ug/kg		ND	69	1
11141-16-5	Aroclor-1232.....	ug/kg		ND	35	1

RL = Reporting Limit

Product: 80811A - Pesticides & PCB's - LANL

Lab Sample ID: L9809522-08
Client Sample ID: RE15-98-0036
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 95

TCLP Extract Date: N/A
Extract Date: 09/30/98
Analysis Date: 10/01/98 Time:

Instrument: HP9
Analyst: ECL
Lab File ID: 415.D
Method: 8081A\3550B
Run ID: R53256
Batch: WG46843

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
53469-21-9	Aroclor-1242	ug/kg		ND	35	1
12672-29-6	Aroclor-1248	ug/kg		ND	35	1
11097-69-1	Aroclor-1254	ug/kg		ND	35	1
11096-82-5	Aroclor-1260	ug/kg		ND	35	1
SURROGATES- In Percent Recovery:						
	2,4,5,6-Tetrachloro-m-xylene	52.2		(29 - 133%)		
	Decachlorobiphenyl	72.6		(30 - 173%)		

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-08
Client Sample ID: RE15-98-0036
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 95

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 21:58

Instrument: HPMS7
Analyst: MLS
Lab File ID: 5995
Method: 8270C
Run ID: R54614
Batch: WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
62-75-9	n-Nitrosodimethylamine	ug/kg		ND	350	1
62-53-3	Aniline	ug/kg		ND	690	1
108-95-2	Phenol	ug/kg		ND	350	1
111-44-4	bis (2-Chloroethyl) ether	ug/kg		ND	350	1
95-57-8	2-Chlorophenol	ug/kg		ND	350	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	350	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	350	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	350	1
95-48-7	2-Methylphenol	ug/kg		ND	350	1
106-44-5	4-Methylphenol	ug/kg		ND	350	1

RL = Reporting Limit

Product: 827LAS - Semivolatle Compounds

Lab Sample ID: L9809522-08
Client Sample ID: RE15-98-0036
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A
% Solid: 95
Method: 8270C
Run ID: R54614
Batch : WG47900

Date Collected: 09/23/98

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 21:58

Instrument: HPMS7
Analyst: MLS
Lab File ID: 5995

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
621-64-7	n-Nitroso-di-n-propylamine.....	ug/kg		ND	350	1
67-72-1	Hexachloroethane.....	ug/kg		ND	350	1
98-95-3	Nitrobenzene.....	ug/kg		ND	350	1
78-59-1	Isophorone.....	ug/kg		ND	350	1
88-75-5	2-Nitrophenol.....	ug/kg		ND	350	1
105-67-9	2,4-Dimethylphenol.....	ug/kg		ND	350	1
65-85-0	Benzoic acid.....	ug/kg		ND	3500	1
111-91-1	bis(2-Chloroethoxy)methane.....	ug/kg		ND	350	1
120-83-2	2,4-Dichlorophenol.....	ug/kg		ND	350	1
120-82-1	1,2,4-Trichlorobenzene.....	ug/kg		ND	350	1
91-20-3	Naphthalene.....	ug/kg		ND	350	1
106-47-8	4-Chloroaniline.....	ug/kg		ND	350	1
87-68-3	Hexachlorobutadiene.....	ug/kg		ND	1400	1
59-50-7	4-Chloro-3-methylphenol.....	ug/kg		ND	350	1
91-57-6	2-Methylnaphthalene.....	ug/kg		ND	690	1
77-47-4	Hexachlorocyclopentadiene.....	ug/kg		ND	350	1
88-06-2	2,4,6-Trichlorophenol.....	ug/kg		ND	350	1
95-95-4	2,4,5-Trichlorophenol.....	ug/kg		ND	350	1
91-58-7	2-Chloronaphthalene.....	ug/kg		ND	1700	1
88-74-4	2-Nitroaniline.....	ug/kg		ND	350	1
131-11-3	Dimethylphthalate.....	ug/kg		ND	1700	1
208-96-8	Acenaphthylene.....	ug/kg		ND	350	1
99-09-2	3-Nitroaniline.....	ug/kg		ND	350	1
83-32-9	Acenaphthene.....	ug/kg		ND	1700	1
51-28-5	2,4-Dinitrophenol.....	ug/kg		ND	350	1
100-02-7	4-Nitrophenol.....	ug/kg		ND	1700	1
132-64-9	Dibenzofuran.....	ug/kg		ND	1700	1
121-14-2	2,4-Dinitrotoluene.....	ug/kg		ND	350	1
606-20-2	2,6-Dinitrotoluene.....	ug/kg		ND	350	1
84-66-2	Diethylphthalate.....	ug/kg		ND	350	1
7005-72-3	4-Chlorophenyl-phenyl ether.....	ug/kg		ND	350	1
86-73-7	Fluorene.....	ug/kg		ND	350	1
100-01-6	4-Nitroaniline.....	ug/kg		ND	350	1
534-52-1	4,6-Dinitro-2-methylphenol.....	ug/kg		ND	690	1
86-30-6	n-Nitrosodiphenylamine.....	ug/kg		ND	1700	1
103-33-3	Azobenzene.....	ug/kg		ND	350	1
101-55-3	4-Bromophenyl-phenylether.....	ug/kg		ND	690	1
118-74-1	Hexachlorobenzene.....	ug/kg		ND	350	1
87-86-5	Pentachlorophenol.....	ug/kg		ND	350	1

RL = Reporting Limit

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-08
Client Sample ID: RE15-98-0036
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 95

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98

Instrument: HPMS7
Analyst: MLS
Lab File ID: 5995

Method: 8270C
Run ID: R54614
Batch : WG47900

Time: 21:58

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
85-01-8	Phenanthrene	ug/kg		ND	350	1
120-12-7	Anthracene	ug/kg		ND	350	1
84-74-2	Di-n-butylphthalate	ug/kg		ND	350	1
206-44-0	Fluoranthene	ug/kg		ND	350	1
129-00-0	Pyrene	ug/kg		ND	350	1
85-68-7	Butylbenzylphthalate	ug/kg		ND	350	1
91-94-1	3,3'-Dichlorobenzidine	ug/kg		ND	690	1
56-55-3	Benzo(a)anthracene	ug/kg		ND	350	1
117-81-7	bis(2-Ethylhexyl)phthalate	ug/kg		ND	350	1
218-01-9	Chrysene	ug/kg		ND	350	1
117-84-0	Di-n-octylphthalate	ug/kg		ND	350	1
205-99-2	Benzo(b)fluoranthene	ug/kg		ND	350	1
207-08-9	Benzo(k)fluoranthene	ug/kg		ND	350	1
50-32-8	Benzo(a)pyrene	ug/kg		ND	350	1
193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg		ND	350	1
53-70-3	Dibenzo(a,h)anthracene	ug/kg		ND	350	1
191-24-2	Benzo(g,h,i)Perylene	ug/kg		ND	350	1
100-51-6	Benzyl alcohol	ug/kg		ND	350	1
108-60-1	2,2'-Oxybis(1-chloropropane)	ug/kg		ND	1400	1
SURROGATES - In Percent Recovery:						
	2,4,6-Tribromophenol	76.2	(19 - 122%)			
	2-Fluorobiphenyl	58.3	(30 - 115%)			
	2-Fluorophenol	51.0	(25 - 121%)			
	Nitrobenzene-d5	53.5	(23 - 120%)			
	Phenol-d5	54.0	(24 - 113%)			
	p-Terphenyl-di4	106	(18 - 137%)			

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826LA - Volatile Organics

Lab Sample ID: L9809522-08
Client Sample ID: RE15-98-0036
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A

% Solid: 95

Date Collected: 09/23/98

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 10/03/98

Instrument: HPMS6
Analyst: CMS
Lab File ID: 6LA10369

Method: 8260B
Run ID: R53603
Batch : WG47027

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
75-71-8	Dichlorodifluoromethane.....	ug/kg		ND	11	1
74-87-3	Chloromethane.....	ug/kg		ND	11	1
75-01-4	Vinyl chloride.....	ug/kg		ND	11	1
74-83-9	Bromomethane.....	ug/kg		ND	11	1
75-00-3	Chloroethane.....	ug/kg		ND	11	1
75-69-4	Trichlorofluoromethane.....	ug/kg		ND	5.3	1
75-35-4	1,1-Dichloroethene.....	ug/kg		ND	5.3	1
74-88-4	Iodomethane.....	ug/kg		ND	5.3	1
75-15-0	Carbon disulfide.....	ug/kg		ND	5.3	1
67-64-1	Acetone.....	ug/kg		ND	21	1
75-09-2	Methylene chloride.....	ug/kg		ND	5.3	1
156-60-5	trans-1,2-Dichloroethene.....	ug/kg		ND	11	1
75-34-3	1,1-Dichloroethane.....	ug/kg		ND	5.3	1
594-20-7	2,2-Dichloropropane.....	ug/kg		ND	5.3	1
156-59-2	cis-1,2-Dichloroethene.....	ug/kg		ND	11	1
78-93-3	2-Butanone.....	ug/kg		ND	21	1
74-97-5	Bromochloromethane.....	ug/kg		ND	5.3	1
67-66-3	Chloroform.....	ug/kg		ND	5.3	1
71-55-6	1,1,1-Trichloroethane.....	ug/kg		ND	5.3	1
56-23-5	Carbon tetrachloride.....	ug/kg		ND	5.3	1
563-58-6	1,1-Dichloropropene.....	ug/kg		ND	5.3	1
71-43-2	Benzene.....	ug/kg		ND	5.3	1
107-06-2	1,2-Dichloroethane.....	ug/kg		ND	5.3	1
79-01-6	Trichloroethene.....	ug/kg		ND	5.3	1
78-87-5	1,2-Dichloropropane.....	ug/kg		ND	5.3	1
74-95-3	Dibromomethane.....	ug/kg		ND	5.3	1
75-27-4	Bromodichloromethane.....	ug/kg		ND	5.3	1
10061-02-6	trans-1,3-Dichloropropene.....	ug/kg		ND	5.3	1
108-10-1	4-Methyl-2-pentanone.....	ug/kg		ND	21	1
108-88-3	Toluene.....	ug/kg		ND	5.3	1
10061-01-5	cis-1,3-Dichloropropene.....	ug/kg		ND	5.3	1
79-00-5	1,1,2-Trichloroethane.....	ug/kg		ND	5.3	1
127-18-4	Tetrachloroethene.....	ug/kg		ND	5.3	1
142-28-9	1,3-Dichloropropane.....	ug/kg		ND	5.3	1
124-48-1	Dibromochloromethane.....	ug/kg		ND	5.3	1
591-78-6	2-Hexanone.....	ug/kg		ND	21	1
106-93-4	1,2-Dibromoethane.....	ug/kg		ND	5.3	1
108-90-7	Chlorobenzene.....	ug/kg		ND	5.3	1
630-20-6	1,1,1,2-Tetrachloroethane.....	ug/kg		ND	5.3	1

RL = Reporting Limit

Product: 826LA - Volatile Organics

Lab Sample ID: L9809522-08
Client Sample ID: RE15-98-0036
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 95

TCLP Extract Date: N/A
Extract Date: N/A

Method: 8260B
Run ID: R53603
Batch : WG47027

Analysis Date: 10/03/98 Time: 17:01

Instrument: HPMS6
Analyst: CMS
Lab File ID: 6LA10369

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethyl benzene	ug/kg		ND	5.3	1
1330-20-7	Xylenes (total)	ug/kg		ND	5.3	1
100-42-5	Styrene	ug/kg		ND	5.3	1
75-25-2	Bromofom	ug/kg		ND	5.3	1
98-82-8	Isopropylbenzene	ug/kg		ND	5.3	1
108-86-1	Bromobenzene	ug/kg		ND	5.3	1
96-18-4	1,2,3-Trichloropropane	ug/kg		ND	5.3	1
79-34-5	1,1,2,2-Tetrachloroethane	ug/kg		ND	5.3	1
103-65-1	n-Propylbenzene	ug/kg		ND	5.3	1
95-49-8	2-Chlorotoluene	ug/kg		ND	5.3	1
106-43-4	4-Chlorotoluene	ug/kg		ND	5.3	1
108-67-8	1,3,5-Trimethylbenzene	ug/kg		ND	5.3	1
98-06-6	tert-Butylbenzene	ug/kg		ND	5.3	1
95-63-6	1,2,4-Trimethylbenzene	ug/kg		ND	5.3	1
135-98-8	sec-Butylbenzene	ug/kg		ND	5.3	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	5.3	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	5.3	1
99-87-6	p-Isopropyltoluene	ug/kg		ND	5.3	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	5.3	1
104-51-8	n-Butylbenzene	ug/kg		ND	5.3	1
96-12-8	1,2-Dibromo-3-chloropropane	ug/kg		ND	5.3	1
76-13-1	Trichlorotrifluoroethane	ug/kg		ND	11	1
					5.3	1
SURROGATES- In Percent Recovery:						
	Toluene-d8	111	(81 - 117%)			
	p-Bromofluorobenzene	98.4	(74 - 121%)			
	Dibromofluoromethane	106	(80 - 120%)			
	1,2-Dichloroethane-d4	108	(80 - 120%)			

KEMRON ENVIRONMENTAL SERVICES

Login #L9809522
October 21, 1998 04:03 pm

Lab Sample ID: L9809522-09
Client Sample ID: RE15-98-0037
Site/Work ID: 4659R/MR3R12082642

Matrix: Soil
Collected: 09/23/98 N/A
% Solid: 100
COC Info: N/A

Analyte	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	100	% wt.	1.0	1	N/A	DKM	10/15/98	14:40	D2216-90

Product: 8081LA - Pesticides & PCB's - LANL

Lab Sample ID: L9809522-09
Client Sample ID: RE15-98-0037
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 100

TCLP Extract Date: N/A
Extract Date: 09/30/98
Analysis Date: 10/01/98 Time:

Method: 8081A\3550B
Run ID: R53256
Batch: WG46843

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
319-84-6	alpha-BHC.....	ug/kg		ND	1.7	1
319-85-7	beta-BHC.....	ug/kg		ND	1.7	1
319-86-8	delta-BHC.....	ug/kg		ND	1.7	1
58-89-9	gamma-BHC (Lindane).....	ug/kg		ND	1.7	1
76-44-8	Heptachlor.....	ug/kg		ND	1.7	1
309-00-2	Aldrin.....	ug/kg		ND	1.7	1
1024-57-3	Heptachlor epoxide.....	ug/kg		ND	1.7	1
959-98-8	Endosulfan I.....	ug/kg		ND	1.7	1
60-57-1	Dieldrin.....	ug/kg		ND	1.7	1
72-55-9	4,4'-DDE.....	ug/kg		ND	3.3	1
72-20-8	Endrin.....	ug/kg		ND	3.3	1
33213-65-9	Endosulfan II.....	ug/kg		ND	3.3	1
72-54-8	4,4'-DDD.....	ug/kg		ND	3.3	1
1031-07-8	Endosulfan sulfate.....	ug/kg		ND	3.3	1
50-29-3	4,4'-DDT.....	ug/kg		ND	3.3	1
72-43-5	Methoxychlor.....	ug/kg		ND	17	1
53494-70-5	Endrin ketone.....	ug/kg		ND	3.3	1
7421-93-4	Endrin aldehyde.....	ug/kg		ND	0.33	1
5103-71-9	alpha Chlordane.....	ug/kg		ND	1.7	1
5103-74-2	gamma Chlordane.....	ug/kg		ND	1.7	1
8001-35-2	Toxaphene.....	ug/kg		ND	170	1
12674-11-2	Aroclor-1016.....	ug/kg		ND	33	1
11104-28-2	Aroclor-1221.....	ug/kg		ND	66	1
11141-16-5	Aroclor-1232.....	ug/kg		ND	33	1

RL = Reporting Limit

Product: 80811A - Pesticides & PCB's - LANL

Lab Sample ID: L9809522-09
Client Sample ID: RE15-98-0037
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 100

TCLP Extract Date: N/A
Extract Date: 09/30/98
Analysis Date: 10/01/98
Time:

Instrument: HP9
Analyst: ECL
Lab File ID: 416.D
Method: 8081A\3550B
Run ID: R53256
Batch : WG46843

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
53469-21-9	Aroclor-1242	ug/kg		ND	33	1
12672-29-6	Aroclor-1248	ug/kg		ND	33	1
11097-69-1	Aroclor-1254	ug/kg		ND	33	1
11096-82-5	Aroclor-1260	ug/kg		ND	33	1
SURROGATES- In Percent Recovery:						
	2,4,5,6-Tetrachloro-m-xylene	54.2		(29 - 133%)		
	Decachlorobiphenyl	79.1		(30 - 173%)		

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-09
Client Sample ID: RE15-98-0037
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 100

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98
Time: 22:37

Instrument: HPMS7
Analyst: MLS
Lab File ID: 5996
Method: 8270C
Run ID: R54614
Batch : WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
62-75-9	n-Nitrosodimethylamine	ug/kg		ND	330	1
62-53-3	Aniline	ug/kg		ND	660	1
108-95-2	Phenol	ug/kg		ND	330	1
111-44-4	bis(2-Chloroethyl) ether	ug/kg		ND	330	1
95-57-8	2-Chlorophenol	ug/kg		ND	330	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	330	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	330	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	330	1
95-48-7	2-Methylphenol	ug/kg		ND	330	1
106-44-5	4-Methylphenol	ug/kg		ND	330	1

RL = Reporting Limit

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-09
Client Sample ID: RE15-98-0037
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 100

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98
Time: 22:37

Instrument: HPMS7
Analyst: MLS
Lab File ID: 5996
Method: 8270C
Run ID: R54614
Batch: WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
621-64-7	n-Nitroso-di-n-propylamine.....	ug/kg		ND	330	1
67-72-1	Hexachloroethane.....	ug/kg		ND	330	1
98-95-3	Nitrobenzene.....	ug/kg		ND	330	1
78-59-1	Isophorone.....	ug/kg		ND	330	1
88-75-5	2-Nitrophenol.....	ug/kg		ND	330	1
105-67-9	2,4-Dimethylphenol.....	ug/kg		ND	330	1
65-85-0	Benzoic acid.....	ug/kg		ND	330	1
111-91-1	bis(2-Chloroethoxy)methane.....	ug/kg		ND	3300	1
120-83-2	2,4-Dichlorophenol.....	ug/kg		ND	330	1
120-82-1	1,2,4-Trichlorobenzene.....	ug/kg		ND	330	1
91-20-3	Naphthalene.....	ug/kg		ND	330	1
106-47-8	4-Chloroaniline.....	ug/kg		ND	330	1
87-68-3	Hexachlorobutadiene.....	ug/kg		ND	1300	1
59-50-7	4-Chloro-3-methylphenol.....	ug/kg		ND	330	1
91-57-6	2-Methylnaphthalene.....	ug/kg		ND	660	1
77-47-4	Hexachlorocyclopentadiene.....	ug/kg		ND	330	1
88-06-2	2,4,6-Trichlorophenol.....	ug/kg		ND	330	1
95-95-4	2,4,5-Trichlorophenol.....	ug/kg		ND	330	1
91-58-7	2-Chloronaphthalene.....	ug/kg		ND	1600	1
88-74-4	2-Nitroaniline.....	ug/kg		ND	330	1
131-11-3	Dimethylphthalate.....	ug/kg		ND	1600	1
208-96-8	Acenaphthylene.....	ug/kg		ND	330	1
99-09-2	3-Nitroaniline.....	ug/kg		ND	330	1
83-32-9	Acenaphthene.....	ug/kg		ND	1600	1
51-28-5	2,4-Dinitrophenol.....	ug/kg		ND	330	1
100-02-7	4-Nitrophenol.....	ug/kg		ND	1600	1
132-64-9	Dibenzofuran.....	ug/kg		ND	330	1
121-14-2	2,4-Dinitrotoluene.....	ug/kg		ND	330	1
606-20-2	2,6-Dinitrotoluene.....	ug/kg		ND	330	1
84-66-2	Diethylphthalate.....	ug/kg		ND	330	1
7005-72-3	4-Chlorophenyl-phenyl ether.....	ug/kg		ND	330	1
86-73-7	Fluorene.....	ug/kg		ND	330	1
100-01-6	4-Nitroaniline.....	ug/kg		ND	330	1
534-52-1	4,6-Dinitro-2-methylphenol.....	ug/kg		ND	660	1
86-30-6	n-Nitrosodiphenylamine.....	ug/kg		ND	1600	1
103-33-3	Azobenzene.....	ug/kg		ND	330	1
101-55-3	4-Bromophenyl-phenylether.....	ug/kg		ND	660	1
118-74-1	Hexachlorobenzene.....	ug/kg		ND	330	1
87-86-5	Pentachlorophenol.....	ug/kg		ND	330	1

RL = Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 827LAS - Semivolatile Compounds

Lab Sample ID: L9809522-09
Client Sample ID: RE15-98-0037
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 100

TCLP Extract Date: N/A
Extract Date: 09/29/98
Analysis Date: 10/16/98 Time: 22:37

Instrument: HPMS7
Analyst: MLS
Lab File ID: 5996

Method: 8270C
Run ID: R54614
Batch : WG47900

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
85-01-8	Phenanthrene	ug/kg		ND	330	1
120-12-7	Anthracene	ug/kg		ND	330	1
84-74-2	Di-n-butylphthalate	ug/kg		ND	330	1
206-44-0	Fluoranthene	ug/kg		ND	330	1
129-00-0	Pyrene	ug/kg		ND	330	1
85-68-7	Butylbenzylphthalate	ug/kg		ND	330	1
91-94-1	3,3'-Dichlorobenzidine	ug/kg		ND	660	1
56-55-3	Benzo(a)anthracene	ug/kg		ND	330	1
117-81-7	bis(2-Ethylhexyl)phthalate	ug/kg		ND	330	1
218-01-9	Chrysene	ug/kg		ND	330	1
117-84-0	Di-n-octylphthalate	ug/kg		ND	330	1
205-99-2	Benzo(b)fluoranthene	ug/kg		ND	330	1
207-08-9	Benzo(k)fluoranthene	ug/kg		ND	330	1
50-32-8	Benzo(a)pyrene	ug/kg		ND	330	1
193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg		ND	330	1
53-70-3	Dibenzo(a,h)anthracene	ug/kg		ND	330	1
191-24-2	Benzo(g,h,i)Perylene	ug/kg		ND	330	1
100-51-6	Benzyl alcohol	ug/kg		ND	330	1
108-60-1	2,2'-Oxybis(1-chloropropane)	ug/kg		ND	1300	1
SURROGATES- In Percent Recovery:						
	2,4,6-Tribromophenol	83.3	(	19 - 122%)		
	2-Fluorobiphenyl	68.3	(	30 - 115%)		
	2-Fluorophenol	56.9	(	25 - 121%)		
	Nitrobenzene-d5	62.0	(	23 - 120%)		
	Phenol-d5	60.3	(	24 - 113%)		
	p-Terphenyl-d14	104	(	18 - 137%)		

RL = Reporting Limit

Product: 826LA - Volatile Organics

Lab Sample ID: L9809522-09
Client Sample ID: RE15-98-0037
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A
Date Collected: 09/23/98
Sample Weight: N/A
Extract Volume: N/A
% Solid: 100

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 10/03/98 Time: 17:34

Instrument: HPMS6
Analyst: CMS
Lab File ID: 6LA10370
Method: 8260B
Run ID: R53603
Batch : WG47027

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
75-71-8	Dichlorodifluoromethane.....	ug/kg		ND	10	1
74-87-3	Chloromethane.....	ug/kg		ND	10	1
75-01-4	Vinyl chloride.....	ug/kg		ND	10	1
74-83-9	Bromomethane.....	ug/kg		ND	10	1
75-00-3	Chloroethane.....	ug/kg		ND	10	1
75-69-4	Trichlorofluoromethane.....	ug/kg		ND	5.0	1
75-35-4	1,1-Dichloroethene.....	ug/kg		ND	5.0	1
74-88-4	Iodomethane.....	ug/kg		ND	5.0	1
75-15-0	Carbon disulfide.....	ug/kg		ND	5.0	1
67-64-1	Acetone.....	ug/kg		ND	20	1
75-09-2	Methylene chloride.....	ug/kg		ND	5.0	1
156-60-5	trans-1,2-Dichloroethene.....	ug/kg		ND	10	1
75-34-3	1,1-Dichloroethane.....	ug/kg		ND	5.0	1
594-20-7	2,2-Dichloropropane.....	ug/kg		ND	5.0	1
156-59-2	cis-1,2-Dichloroethene.....	ug/kg		ND	10	1
78-93-3	2-Butanone.....	ug/kg		ND	20	1
74-97-5	Bromochloromethane.....	ug/kg		ND	5.0	1
67-66-3	Chloroform.....	ug/kg		ND	5.0	1
71-55-6	1,1,1-Trichloroethane.....	ug/kg		ND	5.0	1
56-23-5	Carbon tetrachloride.....	ug/kg		ND	5.0	1
563-58-6	1,1-Dichloropropene.....	ug/kg		ND	5.0	1
71-43-2	Benzene.....	ug/kg		ND	5.0	1
107-06-2	1,2-Dichloroethane.....	ug/kg		ND	5.0	1
79-01-6	Trichloroethene.....	ug/kg		ND	5.0	1
78-87-5	1,2-Dichloropropane.....	ug/kg		ND	5.0	1
74-95-3	Dibromomethane.....	ug/kg		ND	5.0	1
75-27-4	Bromodichloromethane.....	ug/kg		ND	5.0	1
10061-02-6	trans-1,3-Dichloropropene.....	ug/kg		ND	5.0	1
108-10-1	4-Methyl-2-pentanone.....	ug/kg		ND	5.0	1
108-88-3	Toluene.....	ug/kg		ND	20	1
10061-01-5	cis-1,3-Dichloropropene.....	ug/kg		ND	5.0	1
79-00-5	1,1,2-Trichloroethane.....	ug/kg		ND	5.0	1
127-18-4	Tetrachloroethene.....	ug/kg		ND	5.0	1
142-28-9	1,3-Dichloropropane.....	ug/kg		ND	5.0	1
124-48-1	Dibromochloromethane.....	ug/kg		ND	5.0	1
591-78-6	2-Hexanone.....	ug/kg		ND	5.0	1
106-93-4	1,2-Dibromoethane.....	ug/kg		ND	20	1
108-90-7	Chlorobenzene.....	ug/kg		ND	5.0	1
630-20-6	1,1,1,2-Tetrachloroethane.....	ug/kg		ND	5.0	1

RL = Reporting Limit

Login #L9809522
October 21, 1998 04:03 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 826LA - Volatile Organics

Lab Sample ID: L9809522-09
Client Sample ID: RE15-98-0037
Site/Work ID: 4659R/MR3R12082642
Matrix: Soil

Dil. Type: N/A
COC Info: N/A

Sample Weight: N/A
Extract Volume: N/A

Date Collected: 09/23/98

% Solid: 100

TCLP Extract Date: N/A
Extract Date: N/A

Instrument: HPMS6

Method: 8260B

Analysis Date: 10/03/98 Time: 17:34

Analyst: CMS
Lab File ID: 6LA10370

Run ID: R53603
Batch: WG47027

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
100-41-4	Ethyl benzene	ug/kg		ND	5.0	1
1330-20-7	Xylenes (total)	ug/kg		ND	5.0	1
100-42-5	Styrene	ug/kg		ND	5.0	1
75-25-2	Bromofom	ug/kg		ND	5.0	1
98-82-8	Isopropylbenzene	ug/kg		ND	5.0	1
108-86-1	Bromobenzene	ug/kg		ND	5.0	1
96-18-4	1,2,3-Trichloropropane	ug/kg		ND	5.0	1
79-34-5	1,1,2,2-Tetrachloroethane	ug/kg		ND	5.0	1
103-65-1	n-Propylbenzene	ug/kg		ND	5.0	1
95-49-8	2-Chlorotoluene	ug/kg		ND	5.0	1
106-43-4	4-Chlorotoluene	ug/kg		ND	5.0	1
108-67-8	1,3,5-Trimethylbenzene	ug/kg		ND	5.0	1
98-06-6	tert-Butylbenzene	ug/kg		ND	5.0	1
95-63-6	1,2,4-Trimethylbenzene	ug/kg		ND	5.0	1
135-98-8	sec-Butylbenzene	ug/kg		ND	5.0	1
541-73-1	1,3-Dichlorobenzene	ug/kg		ND	5.0	1
106-46-7	1,4-Dichlorobenzene	ug/kg		ND	5.0	1
99-87-6	p-Isopropyltoluene	ug/kg		ND	5.0	1
95-50-1	1,2-Dichlorobenzene	ug/kg		ND	5.0	1
104-51-8	n-Butylbenzene	ug/kg		ND	5.0	1
96-12-8	1,2-Dibromo-3-chloropropane	ug/kg		ND	5.0	1
76-13-1	Trichlorotrifluoroethane	ug/kg		ND	10	1
SURROGATES- In Percent Recovery:						
	Toluene-d8	93.6	(81 - 117%)			
	p-Bromofluorobenzene	78.2	(74 - 121%)			
	Dibromofluoromethane	99.4	(80 - 120%)			
	1,2-Dichloroethane-d4	108	(80 - 120%)			

RL = Reporting Limit

Order #: 98-09-522
October 21, 1998 04:03 pm

**KEMRON ENVIRONMENTAL SERVICES
WORK GROUPS**

Work Group	Run ID	Sample	Dil Type Matrix	Product	Method	Analyst	Date Collected	Run Date	Run Time	Department
WG46720	R54614	L9809522-01	Soil	Semivolatile Compounds	8270C	MLS	23-SEP-1998	16-OCT-1998	17:28	Extraction
WG46720	R54614	L9809522-02	Soil	Semivolatile Compounds	8270C	MLS	23-SEP-1998	16-OCT-1998	18:06	Extraction
WG46720	R54614	L9809522-03	Soil	Semivolatile Compounds	8270C	MLS	23-SEP-1998	16-OCT-1998	18:44	Extraction
WG46720	R54614	L9809522-04	Soil	Semivolatile Compounds	8270C	MLS	23-SEP-1998	16-OCT-1998	19:23	Extraction
WG46720	R54614	L9809522-05	Soil	Semivolatile Compounds	8270C	MLS	23-SEP-1998	16-OCT-1998	20:01	Extraction
WG46720	R54614	L9809522-06	Soil	Semivolatile Compounds	8270C	MLS	23-SEP-1998	16-OCT-1998	20:40	Extraction
WG46720	R54614	L9809522-07	Soil	Semivolatile Compounds	8270C	MLS	23-SEP-1998	16-OCT-1998	21:19	Extraction
WG46720	R54614	L9809522-08	Soil	Semivolatile Compounds	8270C	MLS	23-SEP-1998	16-OCT-1998	21:58	Extraction
WG46720	R54614	L9809522-09	Soil	Semivolatile Compounds	8270C	MLS	23-SEP-1998	16-OCT-1998	22:37	Extraction
WG46788	R53252	L9809522-01	Soil	Pesticides & PCB's - LANL	8081A\3550B	ECL	23-SEP-1998	30-SEP-1998		Extraction
WG46788	R53252	L9809522-02	Soil	Pesticides & PCB's - LANL	8081A\3550B	ECL	23-SEP-1998	30-SEP-1998		Extraction
WG46788	R53252	L9809522-03	Soil	Pesticides & PCB's - LANL	8081A\3550B	ECL	23-SEP-1998	30-SEP-1998		Extraction
WG46788	R53256	L9809522-04	Soil	Pesticides & PCB's - LANL	8081A\3550B	ECL	23-SEP-1998	01-OCT-1998		Extraction
WG46788	R53256	L9809522-05	Soil	Pesticides & PCB's - LANL	8081A\3550B	ECL	23-SEP-1998	01-OCT-1998		Extraction
WG46788	R53256	L9809522-06	Soil	Pesticides & PCB's - LANL	8081A\3550B	ECL	23-SEP-1998	01-OCT-1998		Extraction
WG46788	R53256	L9809522-07	Soil	Pesticides & PCB's - LANL	8081A\3550B	ECL	23-SEP-1998	01-OCT-1998		Extraction
WG46788	R53256	L9809522-08	Soil	Pesticides & PCB's - LANL	8081A\3550B	ECL	23-SEP-1998	01-OCT-1998		Extraction
WG46788	R53256	L9809522-09	Soil	Pesticides & PCB's - LANL	8081A\3550B	ECL	23-SEP-1998	01-OCT-1998		Extraction
WG46843	R53252	L9809522-01	Soil	Pesticides & PCB's - LANL	8081A\3550B	ECL	23-SEP-1998	30-SEP-1998		Semivolatile - GC
WG46843	R53252	L9809522-02	Soil	Pesticides & PCB's - LANL	8081A\3550B	ECL	23-SEP-1998	30-SEP-1998		Semivolatile - GC
WG46843	R53252	L9809522-03	Soil	Pesticides & PCB's - LANL	8081A\3550B	ECL	23-SEP-1998	30-SEP-1998		Semivolatile - GC
WG46843	R53256	L9809522-04	Soil	Pesticides & PCB's - LANL	8081A\3550B	ECL	23-SEP-1998	01-OCT-1998		Semivolatile - GC
WG46843	R53256	L9809522-05	Soil	Pesticides & PCB's - LANL	8081A\3550B	ECL	23-SEP-1998	01-OCT-1998		Semivolatile - GC
WG46843	R53256	L9809522-06	Soil	Pesticides & PCB's - LANL	8081A\3550B	ECL	23-SEP-1998	01-OCT-1998		Semivolatile - GC
WG46843	R53256	L9809522-07	Soil	Pesticides & PCB's - LANL	8081A\3550B	ECL	23-SEP-1998	01-OCT-1998		Semivolatile - GC
WG46843	R53256	L9809522-08	Soil	Pesticides & PCB's - LANL	8081A\3550B	ECL	23-SEP-1998	01-OCT-1998		Semivolatile - GC
WG46843	R53256	L9809522-09	Soil	Pesticides & PCB's - LANL	8081A\3550B	ECL	23-SEP-1998	01-OCT-1998		Semivolatile - GC
WG46889	R53362	L9809522-02	Soil	Volatile Organics	8260B	CMS	23-SEP-1998	01-OCT-1998	07:11	Volatile - GC/MS
WG46889	R53362	L9809522-03	Soil	Volatile Organics	8260B	CMS	23-SEP-1998	01-OCT-1998	07:43	Volatile - GC/MS
WG46889	R53362	L9809522-04	Soil	Volatile Organics	8260B	CMS	23-SEP-1998	01-OCT-1998	08:14	Volatile - GC/MS
WG46889	R53362	L9809522-05	Soil	Volatile Organics	8260B	CMS	23-SEP-1998	01-OCT-1998	08:46	Volatile - GC/MS
WG46934	R53363	L9809522-01	Soil	Volatile Organics	8260B	CMS	23-SEP-1998	01-OCT-1998	20:01	Volatile - GC/MS
WG47027	R53603	L9809522-06	Soil	Volatile Organics	8260B	CMS	23-SEP-1998	03-OCT-1998	15:54	Volatile - GC/MS
WG47027	R53603	L9809522-07	Soil	Volatile Organics	8260B	CMS	23-SEP-1998	03-OCT-1998	16:27	Volatile - GC/MS
WG47027	R53603	L9809522-08	Soil	Volatile Organics	8260B	CMS	23-SEP-1998	03-OCT-1998	17:01	Volatile - GC/MS
WG47027	R53603	L9809522-09	Soil	Volatile Organics	8260B	CMS	23-SEP-1998	03-OCT-1998	17:34	Volatile - GC/MS
WG47774	R54237	L9809522-01	Soil	Percent Solids	D2216-90	DKM	23-SEP-1998	15-OCT-1998	13:50	Conventionals
WG47774	R54237	L9809522-02	Soil	Percent Solids	D2216-90	DKM	23-SEP-1998	15-OCT-1998	13:50	Conventionals
WG47774	R54237	L9809522-03	Soil	Percent Solids	D2216-90	DKM	23-SEP-1998	15-OCT-1998	13:50	Conventionals

KEMRON ENVIRONMENTAL SERVICES WORK GROUPS

Order #: 98-09-522
October 21, 1998 04:03 pm

Work Group	Run ID	Sample	Dil Type	Matrix	Product	Method	Analyst	Date Collected	Run Date	Run Time	Department
WG47774	R54237	L9809522-04	Soil		Percent Solids	D2216-90	DKM	23-SEP-1998	15-OCT-1998	13:50	Conventionals
WG47774	R54237	L9809522-05	Soil		Percent Solids	D2216-90	DKM	23-SEP-1998	15-OCT-1998	13:50	Conventionals
WG47774	R54237	L9809522-06	Soil		Percent Solids	D2216-90	DKM	23-SEP-1998	15-OCT-1998	13:50	Conventionals
WG47774	R54237	L9809522-07	Soil		Percent Solids	D2216-90	DKM	23-SEP-1998	15-OCT-1998	13:50	Conventionals
WG47774	R54237	L9809522-08	Soil		Percent Solids	D2216-90	DKM	23-SEP-1998	15-OCT-1998	13:50	Conventionals
WG47775	R54242	L9809522-09	Soil		Percent Solids	D2216-90	DKM	23-SEP-1998	15-OCT-1998	14:40	Conventionals
WG47900	R54614	L9809522-01	Soil		Semivolatiles Compounds	8270C	MLS	23-SEP-1998	16-OCT-1998	17:28	Semivolatiles - GC/MS
WG47900	R54614	L9809522-02	Soil		Semivolatiles Compounds	8270C	MLS	23-SEP-1998	16-OCT-1998	18:06	Semivolatiles - GC/MS
WG47900	R54614	L9809522-03	Soil		Semivolatiles Compounds	8270C	MLS	23-SEP-1998	16-OCT-1998	18:44	Semivolatiles - GC/MS
WG47900	R54614	L9809522-04	Soil		Semivolatiles Compounds	8270C	MLS	23-SEP-1998	16-OCT-1998	19:23	Semivolatiles - GC/MS
WG47900	R54614	L9809522-05	Soil		Semivolatiles Compounds	8270C	MLS	23-SEP-1998	16-OCT-1998	20:01	Semivolatiles - GC/MS
WG47900	R54614	L9809522-06	Soil		Semivolatiles Compounds	8270C	MLS	23-SEP-1998	16-OCT-1998	20:40	Semivolatiles - GC/MS
WG47900	R54614	L9809522-07	Soil		Semivolatiles Compounds	8270C	MLS	23-SEP-1998	16-OCT-1998	21:19	Semivolatiles - GC/MS
WG47900	R54614	L9809522-08	Soil		Semivolatiles Compounds	8270C	MLS	23-SEP-1998	16-OCT-1998	21:58	Semivolatiles - GC/MS
WG47900	R54614	L9809522-09	Soil		Semivolatiles Compounds	8270C	MLS	23-SEP-1998	16-OCT-1998	22:37	Semivolatiles - GC/MS

KEMRON ANALYST LIST

Ohio Valley Laboratory

07/06/98

ALC - - Ann L. Clark
BAD - - Becky A. Diehl
BWH - - Ben W. Haynes
CEB - - Chad E. Barnes
CDB - - Christy D. Burton
CLH - - Chris L. Hurst
CMS - - Crystal M. Stevens
CRC - - Carla R. Cochran
DIH - - Deanna I. Hesson
DKM - - Dewey K. Miller
DLN - - Deanna L. Norton
DLP - - Dorothy L. Payne
ECL - - Eric C. Lawson
FEH - - Fay E. Harmon
HV - - Hema Vilasagar
JLH - - Janice L. Holland
JMM - - Jim M. Monk
JWR - - John W. Richards
JYH - - Ji Y. Hu
KHA - - Kim H. Archer
KMM - - Kevin M. McDonald
KMS - - Kevin M. Stutler
KRA - - Kathy R. Albertson

MDA - - Mike D. Albertson
MDC - - Michael D. Cochran
MES - - Mary E. Schling
MLS - - Michael L. Schimmel
MMB - - Maren M. Beery
RDC - - Rebecca D. Cutlip
RDS - - Rebecca D. Sutton
REF - - Ron E. Fertile
REK - - Robert E. Kyer
RSS - - Regina S. Simmons
RWC - - Rodney W. Campbell
SJK - - Sindy J. Kinney
SJM - - Shawn J. Marshall
SKH - - Shellie K. Hamrick
SLJ - - Susan L. Johnson
SLP - - Sheri L. Pfalzgraf
SLT - - Stephanie L. Tepe
SMW - - Shauna M. Welch
SPL - - Steve P. Learn
TJW - - Thomas J. Ware
TRS - - Todd R. Stack
VC - - Vicki Collier
VMN - - Vincent M. Nedeff

KEMRON Environmental Services, Inc.
LIST OF VALID QUALIFIERS (qual)
March 9, 1998

Qualifier	Description	Qualifier	Description
(A)	See the report narrative	N	Tentatively Identified Compound (TIC)
(B)	See the report narrative	NA	Not applicable
(C)	See the report narrative	ND	Not detected at or above the reporting limit (RL)
+	Correlation coefficient for the MSA is less than 0.995	NF	Not found
<	Less than	NFL	No free liquid
>	Greater than	NI	Non-ignitable
B	Present in the method blank	NR	Analyte is not required to be analyzed
C	Confirmed by GC/MS	NS	Not spiked
*	Surrogate or spike compound out of range	P	Concentration > 25% difference between the two GC columns
CG	Confluent growth	QNS	Quantity not sufficient to perform analysis
D	The analyte was quantified at a secondary dilution factor	R	Analyte exceeds regulatory limit
DL	Surrogate or spike was diluted out	RA	Reanalysis confirms reported results
E	Estimated concentration due to sample matrix interference	RE	Reanalysis confirms sample matrix interference
F	Present below nominal reporting limit (AFCEE only)	S	Analyzed by method of standard addition
FL	Free liquid	SMI	Sample matrix interference on surrogate
I	Semiquantitative result, out of instrument calibration range	SP	Reported results are for spike compounds only
J	Present below nominal reporting limit	TNTC	Too numerous to count
L	Sample reporting limits elevated due to matrix interference	U	Analyzed for but not detected
M	Duplicate injection precision not met	W	Post-digestion spike for furnace AA out of control limits
		X	Can not be resolved from isomer. See below.

Special Notes for Organic Analytes

1. Acrolein and acrylonitrile by method 624 are semiquantitative screens only.
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
3. N-nitrosodiphenylamine cannot be separated from diphenylamine.
4. 3-Methylphenol and 4-Methylphenol are unresolvable compounds.
5. m-Xylene and p-Xylene are unresolvable compounds.
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound and are matrix dependent.

[illegible]

Friday, September 25, 1998

REQUEST NUMBER: 4659R

ANALYSIS TYPE: ORG

Los Alamos
NATIONAL LABORATORY

ATTN: Maren Beery
KEMRON
109 STARLITE PARK
MARIETTA, OH 45750

Please analyze the enclosed samples
according to the schedule indicated:

These samples are on:

SHIP DATE: 9/25/98
REPORT DUE: 10/25/98
TURN AROUND REQ'D: 30 days

LANL Request Number: 4659R
Per Agreement Number: 7797L0014-9S
Project Cost Code: MR3R12082642

RAD SCREENING: Not Required

COMMENTS: 15 - 1086 , GG;

LANL ER SMO CONTACT: Joylene Valdez MS H865 5056659968

Signature: 

ANALYSIS ORDER CODE	ANALYTE(S)	SAMPLE ID	CONT ID	SAMPLE MATRIX	DATE SAMPLED	COMMENTS
PESTPCB		RE15-98-0029	06	S	9/23/98	
SEMIN		RE15-98-0029	07	S	9/23/98	
VOAGCMSN		RE15-98-0029	08	S	9/23/98	
PESTPCB		RE15-98-0030	06	S	9/23/98	
SEMIN		RE15-98-0030	07	S	9/23/98	
VOAGCMSN		RE15-98-0030	08	S	9/23/98	
PESTPCB		RE15-98-0031	06	S	9/23/98	
SEMIN		RE15-98-0031	07	S	9/23/98	
VOAGCMSN		RE15-98-0031	08	S	9/23/98	
PESTPCB		RE15-98-0032	06	S	9/23/98	
SEMIN		RE15-98-0032	07	S	9/23/98	
VOAGCMSN		RE15-98-0032	08	S	9/23/98	
PESTPCB		RE15-98-0033	06	S	9/23/98	
SEMIN		RE15-98-0033	08	S	9/23/98	
VOAGCMSN		RE15-98-0033	09	S	9/23/98	
PESTPCB		RE15-98-0034	06	S	9/23/98	
SEMIN		RE15-98-0034	08	S	9/23/98	
VOAGCMSN		RE15-98-0034	09	S	9/23/98	
PESTPCB		RE15-98-0035	06	S	9/23/98	
SEMIN		RE15-98-0035	07	S	9/23/98	
VOAGCMSN		RE15-98-0035	08	S	9/23/98	
PESTPCB		RE15-98-0036	06	S	9/23/98	
SEMIN		RE15-98-0036	08	S	9/23/98	
VOAGCMSN		RE15-98-0036	09	S	9/23/98	

ANALYSIS ORDER CODE	ANALYTE(S)	SAMPLE ID	CONT ID	SAMPLE MATRIX	DATE SAMPLED	COMMENTS
PESTPCB		RE15-98-0037	06	S	9/23/98	
SEMIN		RE15-98-0037	07	S	9/23/98	
VOAGCMSN		RE15-98-0037	08	S	9/23/98	

Friday, September 25, 1998

CHAIN OF CUSTODY DOCUMENT NUMBER: 4659RC

Los Alamos
NATIONAL LABORATORY

REQUEST NUMBER: 4659R

ANALYSIS TYPE: ORG

ATTN: Maren Beery
KEMRON
109 STARLITE PARK
MARIETTA, OH 45750

SAMPLE ID	CONT ID	CONTAINER DESCRIPTION	ANALYSIS ORDER CODE	PRESERVATIVE	MATRIX
RE15-98-0029	06	125 ml Glass	PESTPCB	Ice	S
RE15-98-0029	07	125 ml Glass	SEMIN	Ice	S
RE15-98-0029	08	125 ml Septum Amber Glass	VOAGCMSN	Ice	S
RE15-98-0030	06	125 ml Glass	PESTPCB	Ice	S
RE15-98-0030	07	125 ml Glass	SEMIN	Ice	S
RE15-98-0030	08	125 ml Septum Amber Glass	VOAGCMSN	Ice	S
RE15-98-0031	06	125 ml Glass	PESTPCB	Ice	S
RE15-98-0031	07	125 ml Glass	SEMIN	Ice	S
RE15-98-0031	08	125 ml Septum Amber Glass	VOAGCMSN	Ice	S
RE15-98-0032	06	125 ml Glass	PESTPCB	Ice	S
RE15-98-0032	07	125 ml Glass	SEMIN	Ice	S
RE15-98-0032	08	125 ml Septum Amber Glass	VOAGCMSN	Ice	S
RE15-98-0033	06	125 ml Glass	PESTPCB	Ice	S
RE15-98-0033	08	125 ml Glass	SEMIN	Ice	S
RE15-98-0033	09	125 ml Septum Amber Glass	VOAGCMSN	Ice	S
RE15-98-0034	06	125 ml Glass	PESTPCB	Ice	S
RE15-98-0034	08	125 ml Glass	SEMIN	Ice	S
RE15-98-0034	09	125 ml Septum Amber Glass	VOAGCMSN	Ice	S
RE15-98-0035	06	125 ml Glass	PESTPCB	Ice	S
RE15-98-0035	07	125 ml Glass	SEMIN	Ice	S

Relinquished By: S. Hagelberg S. Hag
PRINTED NAME SIGNATURE
Date 1341 Time 9:25:98

Received By: Brenda Gregory Brenda Gregory
PRINTED NAME SIGNATURE
Date 9/28/98 Time 1800

PRINTED NAME SIGNATURE

PRINTED NAME SIGNATURE

PRINTED NAME SIGNATURE

PRINTED NAME SIGNATURE

Received for DISPOSAL By: _____ Date _____ Time _____

Remarks:

PRINTED NAME SIGNATURE

Cy c Dealed
S/S contact
Solid blue wire (64)

Friday, September 25, 1998

COC DOC NUMBER: 4659RC

REQUEST NUMBER: 4659R

Page 2

SAMPLE ID	CONT ID	CONTAINER DESCRIPTION	ANALYSIS ORDER CODE		
RE15-98-0035	08	125 ml Septum Amber Glass	VOAGCMSN	Ice	S
RE15-98-0036	06	125 ml Glass	PESTPCB	Ice	S
RE15-98-0036	08	125 ml Glass	SEMIN	Ice	S
RE15-98-0036	09	125 ml Septum Amber Glass	VOAGCMSN	Ice	S
RE15-98-0037	06	125 ml Glass	PESTPCB	Ice	S
RE15-98-0037	07	125 ml Glass	SEMIN	Ice	S
RE15-98-0037	08	125 ml Septum Amber Glass	VOAGCMSN	Ice	S

Final Page of CHAIN OF CUSTODY DOCUMENT FOR REQUEST NUMBER 4659R

Page 2

Disposal used 9/26/98
Stored in
locked cooler
over weekend
(bag)

Relinquished By: SI Hagelberg [Signature] Date 9.25.98 Time 1341
PRINTED NAME SIGNATURE

PRINTED NAME SIGNATURE

PRINTED NAME SIGNATURE

Received for DISPOSAL By: _____ Date _____ Time _____

PRINTED NAME SIGNATURE

Received By: Brenda Gregory [Signature] Date 9/25/98 Time 0800
PRINTED NAME SIGNATURE

PRINTED NAME SIGNATURE

PRINTED NAME SIGNATURE

Remarks: _____

C of C sealed
Sp intact
solid blue incipient
(bag)

DOE - AL
COOLER RECEIPT FORM

Contractor Cooler
Number of Coolers 3

PROJECT: MR3R12082642 LIMS# L9809522

A. **PRELIMINARY EXAMINATION PHASE:** Date cooler opened: 9/26/98 C-of-C Number: 4659R
by (print) Jane K. Warden (sign) Jane

1. Did cooler come with a shipping slip (air bill, etc.)? YES NO
If YES, enter carrier name & air bill number here: Fed Ex (Below)
2. Were custody seals on outside of cooler? YES NO
3. Were custody seals unbroken and intact at the date and time of arrival? YES NO
4. Did you screen samples for radioactivity using the Geiger Counter? YES NO
5. Were custody papers filled out properly and legible (ink, signed, etc.)? YES NO
6. If required, was enough ice used? Blue Type of ice: Blue Temp 5.0 °C YES NO
See Cooler Check Form if more than 1 cooler

B. **LOG-IN PHASE:** Date samples were logged-in: 9/28/98
by (print) Brenda Gregory (sign) Brenda Gregory

7. Did all bottles arrive unbroken & were labels in good condition? YES NO
8. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? YES NO
9. Did all bottle labels agree with custody papers? YES NO
10. Were correct containers used for the tests indicated? YES NO
11. Were correct preservatives added to samples? YES NO
12. Was a sufficient amount of sample sent for tests indicated? YES NO
13. Were bubbles absent in volatile samples? If NO, list by Sample # YES NO
14. Was the project manager called and status discussed? If YES, give details on the back of this form YES NO
15. Who was called? _____ By whom? _____ (date) _____

Comments: 1) 411799009629
411799009618
411799009607

QC SUMMARY

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Analyst CMS
Instrument HPMS6

Analysis Date 9-29-98[illegible]

Comments:

✓ = Compliant Analysis, Reanalysis complete

$$RR = Rerun$$

RR# = Rerun at a specified level

IS or SS = Interference with internal and/or surrogate standards

SMI = Sample Matrix Interference

MT' = Missed Tune, beyond method tuning requirements

C/O = Suspected Carryover from previous sample

Workgroup #(s) WG46889 (PM)
 Analysis Date 9-30-98

Volatile GCMS Runlog

Analyst CMS
 Instrument HPMS6

Filename	pH	P/T Stat	Sample ID		Amnt	Comments	SOLN #	ISS/SS SOLN #	Analysis Time
6BFI0263	NA	1	BFB	50 PPM STD	10ul/50ml	RR	S-39-22		
6BFI0264		1	BFB	50 PPM STD	10ul/50ml	RR	S-39-22		
6BFI0265		1	BFB	50 PPM STD	10ul/50ml	✓	S-39-22		0922
6ST10266		2	VSTD050	50 PPB STD	MB260	✓	VSTD0929		
6STBK10267		3	VBLK0930	VOA SOIL BLANK		✓			
6QC10268		4	20 PPB	VOA QC SPIKE		✓	QC0929		
6ST10269		5	VSTD100	F001-5 100 PPB STD		✓			
6UC10270		6	UCCSC	09-455-01	MB260/824-F001-5	RR:SS			
6UC10271		7	UCCSC	09-453-01		✓			
6UC10272		8	UCCSC	09-451-01		RR:SS			
6UC10273		9	UCCSC	09-455-01 5X		✓			
6WS10274		10	WASTRON	09-462-01	MB260	✓:bwss			
6WS10275		11		-01 MS		✓	QC0929		
6WS10276		12		-01 MSD		✓			
6WS10277		13		-08		RR:SS			
6WS10278		14	WASTRON	09-461-01	MB260	RR:SS			
6WS10279		15		-04		RR:SS			
6LA10280		16	LANL	09-490-01	826LA	✓			
6LA10281		17		-02		RR:SS			
6LA10282		18		-03		✓			
6LA10283		19		-04		✓			
6HA10284		20	HULL ASSC.	09-470-05	MB260	RR:SS			
6HA10285		21		-06		RR:SS			
6BFI0286	NA	22	BFB	50 PPM STD	10ul/50ml	✓	S-39-22		2102
6ST10287		23	50% ₁₀₀ STD	B260B	5g/5ml	✓	VSTD0929		

Comments:

✓ = Compliant Analysis, Reanalysis complete

RR = Rerun

RR# = Rerun at a specified level

IS or SS = Interference with internal and/or surrogate standards

SMI = Sample Matrix Interference
 MT = Missed Tune, beyond method tuning requirements
 C/O = Suspected Carryover from previous sample

Volatile GCMS Runlog

Workgroup #(s)

Analysis Date 9-30-98 (cont)

Analyst CMS
Instrument HPMS6

Filename	pH	P/T Stat	Sample ID	Amt	Comments	SOLN #	ISS/SS SOLN #	Analysis Time
60K10248	NA	24	VBK0130 VOA BUL 8260B	55/5 mL	✓			
60K10249		25	20 Wly LLS 8260B	55/5 mL	✓	QC0929		
60K10250		26	Hull Assoc 09-470-17 8260	55/5 mL	✓: 10WSS			
91		27	12ms		✓	QC0929		
92		28	12ms		✓	1		
93		29	14		RR:SS			
94		30	15		RR:SS			
95		31	16		✓			
60A10246		32	LANL 09-471-01 8260A		RR:SS			
97		33	↓ 02		✓			
98		34	09-418-01		✓ RR:SS			
99		35	09-528-01		✓			
60A10320		36	02		✓			
01		37	03		✓			
02		38	04		✓			
03		39	09-527-01		RR:SS			
04		40	02		✓			
05		41	03		✓			
06		42	04		✓			
60A10307 107 4176		43	05		✓			

Comments:

✓ = Compliant Analysis, Reanalysis complete

RR = Rerun

RR# = Rerun at a specified level

IS or SS = Interference with internal and/or surrogate standards

SMI = Sample Matrix Interference

MT = Missed Tune, beyond method tuning requirements

C/O = Suspected Carryover from previous sample

Volatile GCMS Runlog

Workgroup #(s) W6746934Analysis Date 10-1-98Analyst CMSInstrument HPMS6

Filename	pH	P/T Stat	Sample ID	Amt	Comments	SOLN #	ISS/SS SOLN #	Analysis Time
6BF10308	NA	1	BEB 50 PPM STD	5ml	✓	S-39-22		0915
6ST10309		2	VSTD050 50 PPB STD	5g/15ml	✓	VSTD0929		
6BK10310		3	VBLK1001 VOA SOIL BLANK		RR: SS			
6GC10311		4	20 PPB VOA QC SPIKE		✓	QC0929		
6BK10312		5	VBLK1001 VOA SOIL BLANK		✓			
6WS10313		6	WASTRON 09-554-01		✓			
6WS10314		7	└ -01MS		✓	QC0929		
6WS10315		8	└ -01MSD		✓	└		
6UC10316		9	UCCSC 09-451-01 5X	1g/15ml	✓: Conf's 9/30			
6WS10317		10	WASTRON 09-462-08	5g/15ml	✓: Conf's 9/30			
6WS10318		11	WASTRON 09-461-01		✓: Conf's 9/30			
6WS10319		12	└ -04		✓: Conf's 9/30			
6LA10320		13	LANL 09-490-02		✓			
6HA10321		14	HULL ASSC. 09-470-05		✓			
6HA10322		15	└ -06		✓: Conf's 9/30			
6HA10323		16	└ -14		✓: Conf's 9/30			
6HA10324		17	└ -15		✓: Conf's 9/30			
6LA10325		18	LANL 09-421-01		✓			
6LA10326		19	LANL 09-418-01		✓			
6LA10327		20	LANL 09-522-01		✓			
6WA10328		21	WASTRON 09-554-08		RR: SS			
6WA10329		22	└ -11		RR: SS			
6ST10330	NA	23	BENZYL CHLORIDE 50 PPB STD	5g/15ml				

Comments:

✓ = Compliant Analysis, Reanalysis complete

RR = Rerun

RR# = Rerun at a specified level

IS or SS = Interference with internal and/or surrogate standards

SMI = Sample Matrix Interference

MT = Missed Tune, beyond method tuning requirements

C/O = Suspected Carryover from previous sample

Volatile GCMS Runlog

Workgroup #(s) WG47027
 Analysis Date 10-3-98

Analyst CMS
 Instrument HPMS6

Filename	pH	P/T Stat	Sample ID		Amt	Comments	SOLN #	ISS/SS SOLN #	Analysis Time
6BFI0355	NA	1	BFB	50 PPM STD	5ml	✓	S-39-22		0849
6STI0356		2	VSTD050	50 PPB STD	5g/15ml	✓	VSTD0929		
6BKI0357		3	VBLK1003	VOA SOIL BLANK		✓			
6QC10358		4	20 PPB VOA QC SPIKE			✓ RR=554	QC0929		
6ETI0359		5	E.TECH	09-514-01		✓	QC0929		
6ETI0360		6		-01MS		✓			
6ETI0361		7		-01MSD		✓			
6LA10362		8	LANL	09-519-02		✓			
6WS10363		9	WASTRON	09-554-19		✓: conf's 10/2			
6WS10364		10		-22		✓: conf's 10/2			
6WS10365		11		-26		✓: conf's 10/2			
6WS10366		12		-29		✓: conf's 10/2			
6LA10367		13	LANL	09-522-06		✓			
6LA10368		14		-07		✓			
6LA10369		15		-08		✓			
6LA10370		16		-09		✓			
6ETI0371		17	E.TECH	09-514-02		✓			
6ETI0372		18		-03		✓			
6ETI0373		19		-04		✓			
6ETI0374		20		-05		✓			
6ETI0375		21		-06		✓			
6LA10376		22	LANL	09-582-01		RR: MT			

Comments:

- ✓ = Compliant Analysis, Reanalysis complete
- RR = Rerun
- RR# = Rerun at a specified level
- IS or SS = Interference with internal and/or surrogate standards

SMI = Sample Matrix Interference
 MT = Missed Tune, beyond method tuning requirements
 C/O = Suspected Carryover from previous sample

KEMRON ENVIRONMENTAL SERVICES - OVL
VOLATILE QUALITY CONTROL SUMMARY

Page 1 of 3
M8260A
6093098P.XLS

Workgroup #: WG46889 Run Date: 9/30/98
Method: 8260A Instrument ID: HPMS 6
Matrix: Soil BLK FLNM: 6BK10288
Units: ug/L LCS FLNM: 6LC10289

SMPL Num: 09-470-12
SMPL FLNM: 6HU10290
MS FLNM: 6HU10291
MSD FLNM: 6HU10292

LCS DF: 1
SMPL DF: 1
MS DF: 1
MSD DF: 1

Target Analytes	RDL ug/Kg	CONCENTRATION, PPB										PERCENT RECOVERY										PERCENT RPD			OUTLIERS						
		LCS Spike					MS Spike					LCS					MS					MS RPD	MSD UCL	MS UCL	BLK LCS	SMPL	MSD	LCL	MS UCL		
		BLK ug/Kg	LCS ug/Kg	Level ug/Kg	SMPL ug/Kg	MS ug/Kg	MSD ug/Kg	Level ug/Kg	MS ug/Kg	BLK %	LCS %	LCL %	UCL %	SMPL %	MS %	MSD %	LCL %	MS %													
dichlorodifluoromethane	10.0	ND	24.2	20.0	ND	18.9	19.9	20.0	ND	121.0	46.0	152.0	ND	94.5	99.5	60.0	140.0	5.2	20.0												
vinyl chloride	10.0	ND	23.3	20.0	ND	18.5	18.5	20.0	ND	116.5	70.0	137.0	ND	92.5	92.5	D	251.0	0.0	20.0												
chloromethane	10.0	ND	22.0	20.0	ND	18.7	18.5	20.0	ND	110.0	64.0	140.0	ND	93.5	92.5	D	273.0	1.1	20.0												
bromomethane	10.0	ND	26.1	20.0	ND	20.9	19.8	20.0	ND	130.5	62.0	147.0	ND	104.5	99.0	D	242.0	5.4	20.0												
chloroethane	10.0	ND	23.2	20.0	ND	18.9	19.2	20.0	ND	116.0	69.0	136.0	ND	94.5	96.0	14.0	230.0	1.6	20.0												
trichlorofluoromethane	5.0	ND	23.2	20.0	ND	17.1	17.6	20.0	ND	116.0	70.0	134.0	ND	85.5	88.0	17.0	181.0	2.9	20.0												
acetone	20.0	ND	17.1	20.0	ND	13.4	13.5	20.0	ND	85.5	14.0	171.0	ND	67.0	67.5	70.0	130.0	0.7	20.0												
trichlorotrifluoroethane	5.0	ND	NS	20.0	ND	NS	NS	20.0	ND	NA	NA	NA	NA	NA	NA	NA	130.0	NA	20.0												
1,1-dichloroethene	5.0	ND	19.3	20.0	ND	12.7	13.7	20.0	ND	96.5	70.0	140.0	ND	63.5	68.5	D	234.0	7.6	20.0												
iodomethane	5.0	ND	16.3	20.0	ND	11.1	11.1	20.0	ND	81.5	50.0	150.0	ND	55.5	55.5	70.0	130.0	0.0	20.0												
methylene chloride	5.0	ND	20.7	20.0	ND	18.3	18.3	20.0	ND	103.5	57.0	146.0	ND	91.5	91.5	D	221.0	6.0	20.0												
carbon disulfide	5.0	ND	21.9	20.0	ND	12.9	13.3	20.0	ND	109.5	69.0	125.0	ND	64.5	66.5	70.0	130.0	3.1	20.0												
trans-1,2-dichloroethene	5.0	ND	20.4	20.0	ND	13.1	13.8	20.0	ND	108.0	75.0	141.0	ND	65.5	69.0	54.0	156.0	5.2	20.0												
1,1-dichloroethane	5.0	ND	21.6	20.0	ND	15.6	15.9	20.0	ND	105.0	69.0	128.0	ND	76.0	79.5	59.0	155.0	1.9	20.0												
2-butanone	20.0	ND	14.3	20.0	ND	12.5	12.9	20.0	ND	71.5	28.0	173.0	ND	62.5	64.5	70.0	130.0	3.1	20.0												
2,2-dichloropropane	5.0	ND	21.0	20.0	ND	15.2	15.8	20.0	ND	105.0	69.0	128.0	ND	76.0	79.0	60.0	140.0	3.9	20.0												
cis-1,2-dichloroethene	5.0	ND	20.4	20.0	ND	14.3	14.7	20.0	ND	102.0	75.0	125.0	ND	71.5	73.5	60.0	140.0	2.8	20.0												
chloroform	5.0	ND	21.0	20.0	ND	15.7	16.1	20.0	ND	102.5	78.0	125.0	ND	78.5	80.5	51.0	138.0	2.5	20.0												
bromochloromethane	5.0	ND	20.5	20.0	ND	15.6	15.7	20.0	ND	104.5	77.0	124.0	ND	74.5	76.0	52.0	162.0	2.0	20.0												
1,1,1-trichloroethane	5.0	ND	20.9	20.0	ND	14.9	15.2	20.0	ND	103.0	75.0	132.0	ND	54.5	59.5	60.0	140.0	0.6	20.0												
1,1-dichloropropene	5.0	ND	20.6	20.0	ND	10.9	11.9	20.0	ND	108.0	77.0	126.0	ND	70.0	72.0	70.0	140.0	2.8	20.0												
carbon tetrachloride	5.0	ND	21.6	20.0	ND	14.0	14.4	20.0	ND	105.0	75.0	126.0	ND	81.0	81.5	49.0	155.0	0.6	20.0												
1,2-dichloroethane	5.0	ND	21.0	20.0	ND	16.2	16.3	20.0	ND	108.0	77.0	126.0	ND	70.0	72.0	70.0	140.0	2.8	20.0												
benzene	5.0	ND	21.4	20.0	ND	15.0	15.4	20.0	ND	105.0	75.0	126.0	ND	81.0	81.5	49.0	155.0	0.6	20.0												
trichloroethene	5.0	ND	19.9	20.0	ND	11.6	12.3	20.0	ND	107.0	81.0	122.0	ND	75.0	77.0	37.0	151.0	2.6	20.0												
1,2-dichloropropane	5.0	ND	20.6	20.0	ND	15.0	15.4	20.0	ND	99.5	81.0	123.0	ND	58.0	61.5	71.0	157.0	5.9	20.0												
bromodichloromethane	5.0	ND	21.4	20.0	ND	15.2	15.2	20.0	ND	103.0	79.0	125.0	ND	75.0	77.0	D	210.0	2.6	20.0												
chloromethane	5.0	ND	20.0	20.0	ND	14.5	14.6	20.0	ND	107.0	81.0	123.0	ND	76.0	76.0	35.0	155.0	0.0	20.0												
4-methyl-2-pentanone	20.0	ND	21.5	20.0	ND	10.6	11.1	20.0	ND	100.0	80.0	126.0	ND	72.5	73.0	60.0	140.0	0.7	20.0												
cis-1,3-dichloropropene	5.0	ND	17.4	20.0	ND	10.1	10.0	20.0	ND	107.5	38.0	162.0	ND	53.0	55.5	70.0	130.0	4.6	20.0												
toluene	5.0	ND	21.1	20.0	ND	15.9	16.3	20.0	ND	105.5	80.0	124.0	15.9	76.0	67.0	47.0	150.0	6.0	20.0												

LANL

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M8260A
6093098P.XLSLANI

KEMRON ENVIRONMENTAL SERVICES - OVL
VOLATILE QUALITY CONTROL SUMMARY

Workgroup #: WG46889 Run Date: 9/30/98 SMPL Num: 09-470-12 LCS DF: 1
Method: 8260A Instrument ID: HPMS 6 SMPL FLNM: 6HUI0290 SMPL DF: 1
Matrix: Soil BLK FLNM: 6BK10288 MS FLNM: 6HUI0291 MS DF: 1
Units: ug/L LCS FLNM: 6LCI0289 MSD FLNM: 6HUI0292 MSD DF: 1

	RDL ug/Kg	CONCENTRATION, PPB										PERCENT RECOVERY										PERCENT RPD				OUTLIERS				
		LCS Spike					MS Spike					LCS					MS					RPD		MSD		RPD		MSD		
		BLK ug/Kg	LCS ug/Kg	Level ug/Kg	SMPL ug/Kg	MS ug/Kg	MSD ug/Kg	Level ug/Kg	BLK %	LCS %	LCL %	UCL %	SMPL %	MS %	MSD %	LCL %	UCL %	BLK %	LCS %	SMPL %	MS %	MSD %	LCL %	UCL %	BLK %	LCS %	SMPL %	MS %	MSD %	
Target Analytes																														
n-butylbenzene	5.0	ND	21.1	20.0	ND	4.6	5.6	20.0	ND	105.5	81.0	125.0	ND	23.2	28.1	60.0	140.0	19.1	20.0											
1,2-dichlorobenzene	5.0	ND	20.1	20.0	ND	6.5	7.2	20.0	ND	100.5	84.0	122.0	ND	32.3	35.9	19.0	190.0	10.7	20.0											
1,2-dibromo-3-chloropropane	10.0	ND	15.5	20.0	ND	9.2	9.9	20.0	ND	77.5	55.0	155.0	ND	46.0	49.7	60.0	140.0	7.6	20.0											
Surrogates																														
di-bromofluoromethane		51.2	47.5	50.0	36.4	37.7	37.7	50.0	102.4	94.9	80	120	72.8	75.38	75.36															
1,2-dichloroethene-d4		52.1	48.4	50.0	38.9	41.3	40.5	50.0	104.2	96.7	80	120	77.7	82.6	81.04															
toluene-d8		52.4	49.0	50.0	38.4	32.5	33.4	50.0	104.8	97.96	81	117	56.7	64.9	66.8															
p-bromofluorobenzene		57.0	50.3	50.0	19.0	24.3	26.5	50.0	114.0	100.5	74	121	37.9	48.56	52.9															

Notes and Definitions:
RDL= Reporting Detection Limit
BLK= Method Blank
LCS= Laboratory Control Sample
SMPL= Sample Results
MS/MSD= Matrix Spike / Matrix Spike Duplicate
LCL= Lower Control Limit
UCL= Upper Control Limit
RPD= Relative Percent Difference

KEMRON ENVIRONMENTAL SERVICES - OVL
VOLATILE QUALITY CONTROL SUMMARY

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MB260A
6100198S.XLS

Workgroup #: WG46934 Run Date: 10/1/98
Method: 8260A Instrument ID: HPMS 6
Matrix: Soil BLK FLNM: 6BK10312
Units: ug/L LCS FLNM: 6QC10311

SMPL Num: 09-554-01
SMPL FLNM: 6WSI0313
MS FLNM: 6WSI0314
MSD FLNM: 6WSI0315

LCS DF: 1
SMPL DF: 1
MS DF: 1
MSD DF: 1

Target Analytes	RDL ug/Kg	CONCENTRATION, PPB										PERCENT RECOVERY										PERCENT RPD				OUTLIERS						
		LCS Spike					MS Spike					LCS					MS					MS		RPD		BLK		LCS		MS		
		BLK	LCS	ug/Kg	Level	SMPL	MS	ug/Kg	Level	MSD	ug/Kg	BLK	LCS	LCL	UCL	%	BLK	LCS	LCL	UCL	%	MS	RPD	%	RPD	UCL	%	BLK	LCS	SMPL	MS	MSD	RPD
1,1,1-trichloroethane	10.0	ND	25.7	20.0	ND	25.8	25.7	20.0	ND	25.7	20.0	ND	128.5	46.0	152.0	ND	129.0	128.5	60.0	140.0	0.4	20.0	4.3	20.0								
vinyl chloride	10.0	ND	24.0	20.0	ND	23.8	22.8	20.0	ND	23.8	20.0	ND	120.0	70.0	137.0	ND	119.0	114.0	D	251.0	4.3	20.0	4.3	20.0								
chloroethane	10.0	ND	20.8	20.0	ND	20.0	19.6	20.0	ND	20.0	20.0	ND	104.0	64.0	140.0	ND	100.0	98.0	D	273.0	2.0	20.0	2.0	20.0								
bromomethane	10.0	ND	25.0	20.0	ND	23.3	21.9	20.0	ND	23.3	20.0	ND	125.0	62.0	147.0	ND	116.5	109.5	D	242.0	6.2	20.0	6.2	20.0								
chloroethane	10.0	ND	22.7	20.0	ND	21.7	21.3	20.0	ND	21.7	20.0	ND	113.5	69.0	136.0	ND	108.5	106.5	D	230.0	1.9	20.0	1.9	20.0								
trichlorobromomethane	5.0	ND	24.3	20.0	ND	24.1	22.9	20.0	ND	24.1	20.0	ND	121.5	70.0	134.0	ND	120.5	114.5	D	181.0	5.1	20.0	5.1	20.0								
acetone	20.0	ND	14.6	20.0	ND	12.4	12.8	20.0	ND	12.4	20.0	ND	73.0	14.0	171.0	ND	62.0	64.0	70.0	130.0	3.2	20.0	3.2	20.0								
trichlorotrifluoroethane	5.0	ND	NS	20.0	ND	NS	NS	20.0	ND	NS	20.0	ND	NA	NA	NA	NA	NA	NA	NA	130.0	NA	20.0	NA	20.0								
1,1-dichloroethane	5.0	ND	18.2	20.0	ND	16.8	17.0	20.0	ND	16.8	20.0	ND	91.0	70.0	140.0	ND	84.0	85.0	D	234.0	1.2	20.0	1.2	20.0								
iodomethane	5.0	ND	11.1	20.0	ND	8.7	9.0	20.0	ND	8.7	20.0	ND	55.5	50.0	150.0	ND	43.4	45.1	70.0	130.0	3.7	20.0	3.7	20.0								
methylene chloride	5.0	ND	21.5	20.0	ND	20.6	19.8	20.0	ND	20.6	20.0	ND	107.5	57.0	146.0	ND	103.0	99.0	D	221.0	4.0	20.0	4.0	20.0								
carbon disulfide	5.0	ND	21.4	20.0	ND	19.2	18.4	20.0	ND	19.2	20.0	ND	107.0	69.0	125.0	ND	96.0	92.0	70.0	130.0	4.3	20.0	4.3	20.0								
trans-1,2-dichloroethene	5.0	ND	19.9	20.0	ND	17.4	17.7	20.0	ND	17.4	20.0	ND	NA	75.0	141.0	ND	87.0	88.5	54.0	156.0	1.7	20.0	1.7	20.0								
1,1-dichloroethane	5.0	ND	22.2	20.0	ND	19.3	18.6	20.0	ND	19.3	20.0	ND	111.0	79.0	125.0	ND	96.5	93.0	59.0	155.0	3.7	20.0	3.7	20.0								
2-butanone	20.0	ND	15.0	20.0	ND	12.0	12.5	20.0	ND	12.0	20.0	ND	75.0	28.0	173.0	ND	60.0	62.5	70.0	130.0	4.1	20.0	4.1	20.0								
2,2-dichloropropane	5.0	ND	20.6	20.0	ND	19.7	19.0	20.0	ND	19.7	20.0	ND	103.0	69.0	128.0	ND	98.5	95.0	60.0	140.0	3.6	20.0	3.6	20.0								
cis-1,2-dichloroethene	5.0	ND	20.5	20.0	ND	17.5	16.8	20.0	ND	17.5	20.0	ND	102.5	75.0	125.0	ND	87.5	84.0	60.0	140.0	4.1	20.0	4.1	20.0								
chloroform	5.0	ND	21.7	20.0	ND	20.0	18.9	20.0	ND	20.0	20.0	ND	104.5	78.0	124.0	ND	100.0	94.5	51.0	138.0	5.7	20.0	5.7	20.0								
bromochloromethane	5.0	ND	20.9	20.0	ND	18.2	17.7	20.0	ND	18.2	20.0	ND	104.5	78.0	124.0	ND	91.0	88.5	60.0	140.0	2.8	20.0	2.8	20.0								
1,1,1-trichloroethane	5.0	ND	20.9	20.0	ND	19.7	18.8	20.0	ND	19.7	20.0	ND	104.5	77.0	124.0	ND	98.5	94.0	52.0	162.0	4.7	20.0	4.7	20.0								
1,1-dichloropropene	5.0	ND	22.3	20.0	ND	20.1	19.1	20.0	ND	20.1	20.0	ND	100.0	75.0	132.0	ND	80.0	80.0	60.0	140.0	0.0	20.0	0.0	20.0								
carbon tetrachloride	5.0	ND	21.8	20.0	ND	19.3	18.3	20.0	ND	19.3	20.0	ND	111.5	77.0	126.0	ND	100.5	95.5	70.0	140.0	5.1	20.0	5.1	20.0								
1,2-dichloroethane	5.0	ND	21.6	20.0	ND	19.1	17.9	20.0	ND	19.1	20.0	ND	108.0	81.0	122.0	ND	96.5	91.5	49.0	155.0	6.5	20.0	6.5	20.0								
benzene	5.0	ND	19.4	20.0	ND	15.7	15.1	20.0	ND	15.7	20.0	ND	97.0	81.0	123.0	ND	78.5	75.5	71.0	157.0	3.9	20.0	3.9	20.0								
trichloroethene	5.0	ND	20.9	20.0	ND	18.4	17.5	20.0	ND	18.4	20.0	ND	104.5	79.0	125.0	ND	92.0	87.5	D	210.0	5.0	20.0	5.0	20.0								
1,2-dichloropropane	5.0	ND	21.8	20.0	ND	18.4	17.3	20.0	ND	18.4	20.0	ND	109.0	81.0	123.0	ND	92.0	86.5	35.0	155.0	6.2	20.0	6.2	20.0								
bromodichloromethane	5.0	ND	20.8	20.0	ND	17.4	16.3	20.0	ND	17.4	20.0	ND	104.0	80.0	126.0	ND	87.0	81.5	60.0	140.0	6.5	20.0	6.5	20.0								
dibromomethane	5.0	ND	20.8	20.0	ND	17.4	16.3	20.0	ND	17.4	20.0	ND	104.0	80.0	126.0	ND	87.0	81.5	60.0	140.0	6.5	20.0	6.5	20.0								
4-methyl-2-pentanone	20.0	ND	15.9	20.0	ND	11.3	11.4	20.0	ND	11.3	20.0	ND	79.5	38.0	162.0	ND	56.6	57.0	70.0	130.0	0.8	20.0	0.8	20.0								
cis-1,3-dichloropropene	5.0	ND	17.3	20.0	ND	12.7	11.7	20.0	ND	12.7	20.0	ND	86.5	81.0	124.0	ND	63.5	58.5	D	227.0	8.2	20.0	8.2	20.0								
toluene	5.0	ND	22.1	20.0	ND	18.4	16.9	20.0	ND	18.4	20.0	ND	110.5	80.0	124.0	ND	92.0	84.5	47.0	150.0	8.5	20.0	8.5	20.0								

LANL

KEMRON ENVIRONMENTAL SERVICES - OVL
VOLATILE QUALITY CONTROL SUMMARY

Page 2 of 3
M6260A
6100198S.XLS

Workgroup #: WG46934 Run Date: 10/1/98
Method: 8260A Instrument ID: HPMS 6
Matrix: Soil BLK FLNM: 6BK10312
Units: ug/L LCS FLNM: 6QC10311
MSD FLNM: 6WS10315

LCS DF: 1
SMPL DF: 1
MS DF: 1
MSD DF: 1

Target Analytes		RDL ug/Kg	CONCENTRATION, PPB						PERCENT RECOVERY												PERCENT RPD				OUTLIERS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
			LCS Spike						MS Spike						MSD												MSD				MSD																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
			BLK	LCS	Level	SMPL	MS	MSD	BLK	LCS	Level	SMPL	MS	MSD	BLK	LCS	LCL	UCL	SMPL	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS	MSD	MS

LANL

KEMRON ENVIRONMENTAL SERVICES - OVL
VOLATILE QUALITY CONTROL SUMMARY

Workgroup #: WG46934 Run Date: 10/1/98 SMPL Num: 09-554-01 LCS DF: 1
Method: 8260A Instrument ID: HPMS 6 SMPL FLNM: GWS10313 SMPL DF: 1
Matrix: Soil BLK FLNM: 6BK10312 MS FLNM: GWS10314 MS DF: 1
Units: ug/L LCS FLNM: 6QC10311 MSD FLNM: GWS10315 MSD DF: 1

		CONCENTRATION, PPB										PERCENT RECOVERY										PERCENT RPD		OUTLIERS												
		LCS Spike					MS Spike					BLK					LCS					MS					RPD		BLK		LCS		MS		MSD	
		RDL	BLK	LCS	Level	SMPL	MS	MSD	Level	MS	MSD	Level	BLK	LCS	LCL	UCL	SMPL	MS	MSD	LCL	UCL	RPD	MS	RPD	UCL	BLK	LCS	SMPL	MS	MSD						
Target Analytes		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%					
	n-butylbenzene	5.0	ND	21.9	20.0	ND	11.5	11.0	20.0	20.0	20.0	20.0	ND	109.5	81.0	125.0	ND	57.5	55.0	60.0	140.0	4.4	20.0								L	L				
	1,2-dichlorobenzene	5.0	ND	20.7	20.0	ND	10.9	10.0	20.0	20.0	20.0	20.0	ND	103.5	84.0	122.0	ND	54.5	50.0	19.0	190.0	8.7	20.0									L				
	1,2-dibromo-3-chloropropane	10.0	ND	18.3	20.0	ND	12.4	11.5	20.0	20.0	20.0	20.0	ND	91.5	55.0	155.0	ND	62.0	57.5	60.0	140.0	7.5	20.0									L				
Surrogates																																				
	di-bromofluoromethane		51.2	51.8	50.0	49.0	47.3	43.5	50.0				102.5	103.5	80	120	97.9	94.68	86.94																	
	1,2-dichloroethane-d4		53.2	54.1	50.0	50.9	48.9	44.5	50.0				106.3	108.1	80	120	101.8	97.7	89.02																	
	toluene-d8		54.5	55.3	50.0	49.5	46.9	41.3	50.0				109.0	110.58	81	117	98.96	93.8	82.6																	
	p-bromofluorobenzene		58.7	56.0	50.0	42.7	36.5	32.3	50.0				117.3	112.0	74	121	85.4	73.04	64.7											L	L					

Notes and Definitions:
RDL= Reporting Detection Limit
BLK= Method Blank
LCS= Laboratory Control Sample
SMPL= Sample Results
MS/MSD= Matrix Spike / Matrix Spike Duplicate
LCL= Lower Control Limit
UCL= Upper Control Limit
RPD= Relative Percent Difference

KEMRON ENVIRONMENTAL SERVICES - OVL
VOLATILE QUALITY CONTROL SUMMARY

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M8260A
6100398S.XLS

Workgroup #: WG47027 Run Date: 10/3/98
Method: 8260A Instrument ID: HPMS 6
Matrix: Soil BLK FLNM: 6BK10357
Units: ug/L LCS FLNM: 6QC10358

SMP L Num: 09-514-01
SMP L FLNM: 6ET10359
MS DF: 1
MSD DF: 1

LCS DF: 1
SMP L DF: 1
MS DF: 1
MSD DF: 1

Target Analytes	CONCENTRATION, PPB										PERCENT RECOVERY										PERCENT RPD				OUTLIERS																
	RDL ug/Kg	LCS Spike					MS Spike					LCS					MS					MS		MSD		MSD		RPD		BLK		LCS		SMPL		MS		MSD		RPD	
		ug/Kg	ug/Kg	ug/Kg	Level	ug/Kg	MS	ug/Kg	MSD	ug/Kg	Level	MS Spike	BLK	LCS	LCL	UCL	SMPL	MS	MSD	LCL	UCL	MS	MS	RPD	MS	RPD	UCL	MS	MSD	RPD	BLK	LCS	SMPL	MS	MSD	RPD					
dichlorodifluoromethane	10.0	ND	23.7	20.0	ND	27.2	27.0	20.0	ND	20.0	20.0	ND	118.5	46.0	152.0	ND	136.0	135.0	60.0	140.0	0.7	20.0																			
vinyl chloride	10.0	ND	21.3	20.0	ND	24.0	23.4	20.0	ND	20.0	20.0	ND	106.5	70.0	137.0	ND	120.0	117.0	D	251.0	2.5	20.0																			
chloromethane	10.0	ND	18.3	20.0	ND	20.5	21.0	20.0	ND	20.0	20.0	ND	91.5	64.0	140.0	ND	102.5	105.0	D	273.0	2.4	20.0																			
bromomethane	10.0	ND	22.8	20.0	ND	25.5	24.6	20.0	ND	20.0	20.0	ND	114.0	62.0	147.0	ND	127.5	123.0	D	242.0	3.6	20.0																			
chloroethane	10.0	ND	19.7	20.0	ND	22.9	22.4	20.0	ND	20.0	20.0	ND	98.5	69.0	136.0	ND	114.5	112.0	14.0	230.0	2.2	20.0																			
trichlorofluoromethane	5.0	ND	23.3	20.0	ND	25.7	24.1	20.0	ND	20.0	20.0	ND	116.5	70.0	134.0	ND	128.5	120.5	17.0	181.0	6.4	20.0																			
acetone	20.0	ND	19.2	20.0	ND	16.5	15.6	20.0	ND	20.0	20.0	ND	96.0	14.0	171.0	ND	82.5	78.0	70.0	130.0	5.6	20.0																			
trichlorotrifluoroethane	5.0	ND	NS	20.0	ND	NS	NS	20.0	ND	20.0	20.0	ND	NA	NA	NA	ND	NA	NA	70.0	130.0	NA	20.0																			
1,1-dichloroethene	5.0	ND	17.3	20.0	ND	20.6	20.8	20.0	ND	20.0	20.0	ND	86.5	70.0	140.0	ND	103.0	104.0	D	234.0	1.0	20.0																			
iodomethane	5.0	ND	10.1	20.0	ND	13.4	15.0	20.0	ND	20.0	20.0	ND	50.5	50.0	150.0	ND	67.0	75.0	70.0	130.0	11.3	20.0																			
methylene chloride	5.0	ND	21.3	20.0	ND	23.9	23.4	20.0	ND	20.0	20.0	ND	106.5	57.0	146.0	ND	119.5	117.0	D	221.0	2.1	20.0																			
carbon disulfide	5.0	ND	21.1	20.0	ND	23.7	22.9	20.0	ND	20.0	20.0	ND	105.5	69.0	125.0	ND	118.5	114.5	70.0	130.0	3.4	20.0																			
trans-1,2-dichloroethene	5.0	ND	20.8	20.0	ND	24.2	23.9	20.0	ND	20.0	20.0	ND	NA	NA	75.0	141.0	ND	121.0	119.5	54.0	156.0	1.2	20.0																		
1,1-dichloroethane	5.0	ND	21.1	20.0	ND	23.1	22.4	20.0	ND	20.0	20.0	ND	105.5	79.0	125.0	ND	115.5	112.0	59.0	155.0	3.1	20.0																			
2-butanone	20.0	ND	16.3	20.0	ND	17.1	16.8	20.0	ND	20.0	20.0	ND	81.5	28.0	173.0	ND	85.5	84.0	70.0	130.0	1.8	20.0																			
2,2-dichloropropane	5.0	ND	19.6	20.0	ND	22.1	21.3	20.0	ND	20.0	20.0	ND	98.0	69.0	128.0	ND	110.5	106.5	60.0	140.0	3.7	20.0																			
cis-1,2-dichloroethene	5.0	ND	19.1	20.0	ND	22.1	21.8	20.0	ND	20.0	20.0	ND	95.5	75.0	125.0	ND	110.5	109.0	60.0	140.0	1.4	20.0																			
chloroform	5.0	ND	21.9	20.0	ND	23.1	22.5	20.0	ND	20.0	20.0	ND	109.5	78.0	124.0	ND	115.5	112.5	51.0	138.0	2.6	20.0																			
bromochloromethane	5.0	ND	20.2	20.0	ND	22.7	22.2	20.0	ND	20.0	20.0	ND	101.0	78.0	125.0	ND	113.5	111.0	60.0	140.0	2.2	20.0																			
1,1,1-trichloroethane	5.0	ND	20.1	20.0	ND	21.5	20.3	20.0	ND	20.0	20.0	ND	100.5	77.0	124.0	ND	107.5	101.5	52.0	162.0	5.7	20.0																			
1,1-dichloropropene	5.0	ND	21.0	20.0	ND	20.6	19.5	20.0	ND	20.0	20.0	ND	105.0	75.0	132.0	ND	103.0	97.5	60.0	140.0	5.5	20.0																			
carbon tetrachloride	5.0	ND	21.0	20.0	ND	21.6	19.5	20.0	ND	20.0	20.0	ND	105.0	77.0	126.0	ND	108.0	97.5	70.0	140.0	10.2	20.0																			
1,2-dichloroethane	5.0	ND	21.2	20.0	ND	23.1	22.4	20.0	ND	20.0	20.0	ND	106.0	75.0	126.0	ND	115.5	112.0	49.0	155.0	3.1	20.0																			
benzene	5.0	ND	21.1	20.0	ND	23.0	22.1	20.0	ND	20.0	20.0	ND	105.5	81.0	122.0	ND	115.0	110.5	37.0	151.0	4.0	20.0																			
trichloroethene	5.0	ND	18.4	20.0	ND	19.9	18.8	20.0	ND	20.0	20.0	ND	92.0	81.0	123.0	ND	99.5	94.0	71.0	157.0	5.7	20.0																			
1,2-dichloropropane	5.0	ND	20.0	20.0	ND	21.9	21.6	20.0	ND	20.0	20.0	ND	100.0	79.0	125.0	ND	109.5	108.0	D	210.0	1.4	20.0																			
bromodichloromethane	5.0	ND	20.6	20.0	ND	22.3	21.6	20.0	ND	20.0	20.0	ND	103.0	81.0	123.0	ND	111.5	108.0	35.0	155.0	3.2	20.0																			
chloromethane	5.0	ND	20.5	20.0	ND	21.7	21.0	20.0	ND	20.0	20.0	ND	102.5	80.0	126.0	ND	108.5	105.0	60.0	140.0	3.3	20.0																			
4-methyl-2-pentanone	20.0	ND	14.8	20.0	ND	15.2	14.7	20.0	ND	20.0	20.0	ND	74.0	38.0	162.0	ND	76.0	73.5	70.0	130.0	3.3	20.0																			
cis-1,3-dichloropropene	5.0	ND	16.2	20.0	ND	18.1	17.7	20.0	ND	20.0	20.0	ND	81.0	81.0	124.0	ND	90.5	88.5	D	227.0	2.2	20.0																			
toluene	5.0	ND	20.8	20.0	ND	18.1	20.1	20.0	ND	20.0	20.0	ND	104.0	80.0	124.0	ND	90.5	100.5	47.0	150.0	10.5	20.0																			

LANL

KEMRON ENVIRONMENTAL SERVICES - OVL
VOLATILE QUALITY CONTROL SUMMARY

Workgroup #: WG47027 Run Date: 10/3/98 SMP/L Num: 09-314-01 LCS DF: 1
Method: 8260A Instrument ID: HPMS 6 SMP/L FLNM: 6ETI0359 SMP/L DF: 1
Matrix: Soil BLK FLNM: 6BK10357 MS FLNM: 6ETI0360 MS DF: 1
Units: ug/L LCS FLNM: 6QC10358 MSD FLNM: 6ETI0361 MSD DF: 1

Target Analytes	CONCENTRATION, PPB										PERCENT RECOVERY										PERCENT RPD				OUTLIERS									
	RDL ug/Kg	LCS Spike					MS Spike					LCS					MSD					RPD		MSD		RPD								
		BLK ug/Kg	LCS ug/Kg	Level	SMPL ug/Kg	MS ug/Kg	MSD ug/Kg	BLK ug/Kg	LCS ug/Kg	Level	SMPL ug/Kg	MS ug/Kg	MSD ug/Kg	BLK %	LCS %	LCL %	UCL %	LCS %	SMPL %	MS %	MSD %	BLK %	LCS %	LCL %	UCL %	MS %	RPD %	BLK	LCS	SMPL	MS	MSD	RPD	
trans-1,3-dichloropropene	5.0	ND	19.0	20.0	ND	20.2	19.9	20.0	ND	20.2	19.9	20.0	ND	95.0	80.0	122.0	ND	101.0	99.5	17.0	183.0	1.5	20.0											
2-hexanone	20.0	ND	15.0	20.0	ND	14.7	14.0	20.0	ND	14.7	14.0	20.0	ND	75.0	31.0	149.0	ND	73.5	70.0	70.0	130.0	4.9	20.0											
1,1,2-trichloroethane	5.0	ND	21.4	20.0	ND	22.4	21.2	20.0	ND	22.4	21.2	20.0	ND	107.0	79.0	123.0	ND	112.0	106.0	52.0	150.0	5.5	20.0											
1,3-dichloropropane	5.0	ND	20.7	20.0	ND	21.8	21.0	20.0	ND	21.8	21.0	20.0	ND	103.5	79.0	123.0	ND	109.0	105.0	60.0	140.0	3.7	20.0											
tetrachloroethene	5.0	ND	20.1	20.0	ND	17.9	15.1	20.0	ND	17.9	15.1	20.0	ND	100.5	80.0	122.0	ND	89.5	75.5	64.0	148.0	17.0	20.0											
chlorodibromomethane	5.0	ND	20.0	20.0	ND	20.8	20.1	20.0	ND	20.8	20.1	20.0	ND	100.0	81.0	122.0	ND	104.0	100.5	53.0	149.0	3.4	20.0											
1,2-dibromomethane	5.0	ND	19.4	20.0	ND	20.4	20.1	20.0	ND	20.4	20.1	20.0	ND	97.0	79.0	125.0	ND	102.0	100.5	60.0	140.0	1.5	20.0											
chlorobenzene	5.0	ND	21.6	20.0	ND	19.8	18.0	20.0	ND	19.8	18.0	20.0	ND	108.0	82.0	124.0	ND	99.0	90.0	37.0	160.0	9.5	20.0											
1,1,1,2-tetrachloroethane	5.0	ND	20.8	20.0	ND	20.0	18.8	20.0	ND	20.0	18.8	20.0	ND	104.0	80.0	124.0	ND	100.0	94.0	60.0	140.0	6.2	20.0											
ethylbenzene	5.0	ND	20.4	20.0	ND	18.2	15.7	20.0	ND	18.2	15.7	20.0	ND	102.0	78.0	127.0	ND	91.0	78.5	37.0	162.0	14.7	20.0											
m,p-xylene	5.0	ND	41.2	40.0	ND	36.1	31.0	40.0	ND	36.1	31.0	40.0	ND	103.0	81.0	124.0	ND	90.3	77.5	60.0	140.0	15.2	20.0											
o-xylene	5.0	ND	17.2	20.0	ND	15.2	12.9	20.0	ND	15.2	12.9	20.0	ND	86.0	83.0	124.0	ND	76.0	64.5	60.0	140.0	16.4	20.0											
total xylenes	5.0	ND	58.4	60.0	ND	51.3	43.9	60.0	ND	51.3	43.9	60.0	ND	97.3	NA	NA	ND	85.5	73.2	NA	NA	15.5	20.0											
styrene	5.0	ND	20.7	20.0	ND	18.4	16.1	20.0	ND	18.4	16.1	20.0	ND	103.5	80.0	122.0	ND	92.0	80.5	60.0	140.0	13.3	20.0											
isopropylbenzene	5.0	ND	19.2	20.0	ND	14.2	11.3	20.0	ND	14.2	11.3	20.0	ND	96.0	82.0	124.0	ND	71.0	56.5	60.0	140.0	22.7	20.0									L	H	
bromoforn	5.0	ND	19.4	20.0	ND	18.6	17.5	20.0	ND	18.6	17.5	20.0	ND	97.0	67.0	134.0	ND	93.0	87.5	45.0	169.0	6.1	20.0											
1,1,2,2-tetrachloroethane	5.0	ND	21.5	20.0	ND	21.2	19.5	20.0	ND	21.2	19.5	20.0	ND	107.5	71.0	136.0	ND	106.0	97.5	46.0	157.0	8.4	20.0											
1,2,3-trichloropropane	5.0	ND	21.7	20.0	ND	21.7	20.0	20.0	ND	21.7	20.0	20.0	ND	108.5	70.0	139.0	ND	108.5	100.0	60.0	140.0	8.2	20.0										L	H
n-propylbenzene	5.0	ND	20.8	20.0	ND	14.8	11.7	20.0	ND	14.8	11.7	20.0	ND	104.0	79.0	124.0	ND	74.0	58.5	60.0	140.0	23.4	20.0											
bromobenzene	5.0	ND	20.2	20.0	ND	18.2	16.1	20.0	ND	18.2	16.1	20.0	ND	101.0	80.0	122.0	ND	91.0	80.5	60.0	140.0	12.2	20.0										L	H
1,3,5-trimethylbenzene	5.0	ND	21.1	20.0	ND	14.8	11.3	20.0	ND	14.8	11.3	20.0	ND	NA	82.0	123.0	ND	74.0	56.5	60.0	140.0	26.8	20.0										L	H
2-chlorotoluene	5.0	ND	21.7	20.0	ND	16.9	13.8	20.0	ND	16.9	13.8	20.0	ND	108.5	77.0	126.0	ND	84.5	69.0	60.0	140.0	20.2	20.0										H	
4-chlorotoluene	5.0	ND	20.6	20.0	ND	16.7	13.8	20.0	ND	16.7	13.8	20.0	ND	103.0	80.0	124.0	ND	83.5	69.0	60.0	140.0	19.0	20.0										L	H
tert-butylbenzene	5.0	ND	18.4	20.0	ND	11.6	8.7	20.0	ND	11.6	8.7	20.0	ND	92.0	78.0	122.0	ND	58.0	43.7	60.0	140.0	28.2	20.0										L	H
1,2,4-trimethylbenzene	5.0	ND	20.6	20.0	ND	14.6	11.2	20.0	ND	14.6	11.2	20.0	ND	103.0	83.0	123.0	ND	73.0	56.0	60.0	140.0	26.4	20.0										L	H
sec-butylbenzene	5.0	ND	20.1	20.0	ND	11.6	8.5	20.0	ND	11.6	8.5	20.0	ND	100.5	80.0	124.0	ND	58.0	42.5	60.0	140.0	30.8	20.0										L	H
p-isopropyltoluene	5.0	ND	19.8	20.0	ND	11.2	8.0	20.0	ND	11.2	8.0	20.0	ND	99.0	77.0	124.0	ND	56.0	39.8	60.0	140.0	33.9	20.0										L	H
1,3-dichlorobenzene	5.0	ND	20.3	20.0	ND	14.4	11.3	20.0	ND	14.4	11.3	20.0	ND	101.5	82.0	120.0	ND	72.0	56.5	60.0	140.0	24.1	20.0										L	H
1,4-dichlorobenzene	5.0	ND	19.9	20.0	ND	14.7	11.9	20.0	ND	14.7	11.9	20.0	ND	99.5	81.0	121.0	ND	73.5	59.5	18.0	190.0	21.1	20.0										H	

KEMRON ENVIRONMENTAL SERVICES - OVL
VOLATILE QUALITY CONTROL SUMMARY

Workgroup #: WGA7027 Run Date: 10/3/98
Method: 8260A Instrument ID: HPMS 6
Matrix: Soil BLK FLNM: 6BK10357
Units: ug/L LCS FLNM: 6QC10358
SMPL Num: 09-51401
SMPL FLNM: 6ET10359
MS FLNM: 6ET10360
MSD FLNM: 6ET10361
LCS DF: 1
SMPL DF: 1
MS DF: 1
MSD DF: 1

	RDL ug/Kg	CONCENTRATION, PPB										PERCENT RECOVERY										PERCENT RPD				OUTLIERS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
		LCS Spike					MS Spike					BLK					LCS					MS					BLK				LCS				SMPL				MS				MSD																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
		ug/Kg	LCS	ug/Kg	Level	MSD	ug/Kg	MS	ug/Kg	SMPL	ug/Kg	Level	MSD	ug/Kg	MS	ug/Kg	BLK	LCS	LCL	UCL	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%

Notes and Definitions:
RDL= Reporting Detection Limit
BLK= Method Blank
LCS= Laboratory Control Sample
SMPL= Sample Results
MS/MSD= Matrix Spike / Matrix Spike Duplicate
LCL= Lower Control Limit
UCL= Upper Control Limit
RPD= Relative Percent Difference

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: kemron Contract: 7797loo14-8
 Lab Code: _____ Case No.: 09-522 SAS No.: _____ SDG No.: _____
 Lab File ID: 6BF10245.D BFB Injection Date: 09/29/98
 Instrument ID: hpms 6 BFB Injection Time: 09:10
 GC Column: _____ ID: 0.32 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	24.6
75	30.0 - 66.0% of mass 95	57.2
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	73.2
175	4.0 - 9.0% of mass 174	5.4 (7.3)1
176	93.0 - 101.0% of mass 174	70.9 (96.8)1
177	5.0 - 9.0% of mass 176	5.0 (7.0)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01:	VSTD005	VSTD050 5 PPB STD	6ST10247.D	09/29/98	10:10
02:	VSTD010	VSTD050 10 PPB STD	6ST10248.D	09/29/98	10:42
03:	VSTD020	VSTD050 20 PPB STD	6ST10249.D	09/29/98	11:15
04:	VSTD050	VSTD050 50 PPB STD	6ST10250.D	09/29/98	11:47
05:	VSTD100	VSTD050 100 PPB ST	6ST10251.D	09/29/98	12:19
06:	VBLK0929	VBLK0929 VOA SOIL	6BK10256.D	09/29/98	16:31
07:	VLCS0929	20 PPB VOA QC SPIK	6QC10257.D	09/29/98	17:03
08:	MD21-98-0118	LANL 09-376-01 826LA	6LA10258.D	09/29/98	17:35
09:	MD21-98-0118MS	LANL 09-376-01 MS 82	6LA10259.D	09/29/98	18:08
10:	MD21-98-0118MSD	LANL 09-376-01 MSD	6LA10260.D	09/29/98	18:40
11:	MD21-98-0119	LANL 09-376-02 826LA	6LA10261.D	09/29/98	19:12
12:	MD21-98-1020	LANL 09-376-03 826LA	6LA10262.D	09/29/98	19:44

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: kemron Contract: 779710014-8
 Lab Code: _____ Case No.: 09-522 SAS No.: _____ SDG No.: _____
 Lab File ID: 6BF10286.D BFB Injection Date: 09/30/98
 Instrument ID: hpms 6 BFB Injection Time: 21:02
 GC Column: _____ ID: 0.32 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	25.9
75	30.0 - 66.0% of mass 95	59.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	70.7
175	4.0 - 9.0% of mass 174	4.3 (6.1)1
176	93.0 - 101.0% of mass 174	67.9 (96.1)1
177	5.0 - 9.0% of mass 176	4.0 (5.9)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	50UG/KG STD 8260B	6ST10287.D	09/30/98	21:33
02	VBLK0930	VBLK0930 VOA BLK 8	6BK10288.D	09/30/98	22:29
03	VLCS0930	20UG/KG LCS 8260B	6LC10289.D	09/30/98	23:01
04	MD21-98-0144	LANL 09-421-02 826LA	6LA10297.D	10/01/98	03:29
05	RE00-98-0056	LANL 09-528-01 826LA	6LA10299.D	10/01/98	04:32
06	RE00-98-0057	LANL 09-528-02 826LA	6LA10300.D	10/01/98	05:04
07	RE00-98-0059	LANL 09-528-03 826LA	6LA10301.D	10/01/98	05:36
08	RE00-98-0060	LANL 09-528-04 826LA	6LA10302.D	10/01/98	06:08
09	RE15-98-0029	LANL 09-522-01 826LA	6LA10303.D	10/01/98	06:39
10	RE15-98-0030	LANL 09-522-02 826LA	6LA10304.D	10/01/98	07:11
11	RE15-98-0031	LANL 09-522-03 826LA	6LA10305.D	10/01/98	07:43
12	RE15-98-0032	LANL 09-522-04 826LA	6LA10306.D	10/01/98	08:14
13	RE15-98-0033	LANL 09-522-05 826LA	6LA10307.D	10/01/98	08:46

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: kemron Contract: 7797loo14-8
 Lab Code: _____ Case No.: 09-522 SAS No.: _____ SDG No.: _____
 Lab File ID: 6BF10308.D BFB Injection Date: 10/01/98
 Instrument ID: hpms 6 BFB Injection Time: 09:15
 GC Column: _____ ID: 0.32 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	26.7
75	30.0 - 66.0% of mass 95	56.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	5.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	69.2
175	4.0 - 9.0% of mass 174	5.9 (8.5)1
176	93.0 - 101.0% of mass 174	67.4 (97.4)1
177	5.0 - 9.0% of mass 176	4.6 (6.8)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050 50 PPB STD	6ST10309.D	10/01/98	09:44
02	VLCS1001	20 PPB VOA QC SPIK	6QC10311.D	10/01/98	11:02
03	VBLK1001	VBLK1001 VOA SOIL	6BK10312.D	10/01/98	11:36
04	RE00-98-0051	LANL 09-490-02 826LA	6LA10320.D	10/01/98	16:12
05	MD21-98-0143	LANL 09-421-01 826LA	6LA10325.D	10/01/98	18:56
06	MD21-98-0144	LANL 09-418-01 826LA	6LA10326.D	10/01/98	19:28

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: kemron Contract: 779710014-8
 Lab Code: _____ Case No.: 09-522 SAS No.: _____ SDG No.: _____
 Lab File ID: 6BF10355.D BFB Injection Date: 10/03/98
 Instrument ID: hpms 6 BFB Injection Time: 08:49
 GC Column: _____ ID: 0.32 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	26.1
75	30.0 - 66.0% of mass 95	55.2
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	5.8
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	69.1
175	4.0 - 9.0% of mass 174	4.8 (7.0)1
176	93.0 - 101.0% of mass 174	66.1 (95.6)1
177	5.0 - 9.0% of mass 176	4.7 (7.1)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050 50 PPB STD	6ST10356.D	10/03/98	09:18
02	VBLK1003	VBLK1003 VOA SOIL	6BK10357.D	10/03/98	10:06
03	VLCS1003	20 PPB VOA QC SPIK	6QC10358.D	10/03/98	10:40
04	MD2-98-0166	LANL 09-519-02 826LA	6LA10362.D	10/03/98	13:06
05	RE15-98-0034	LANL 09-522-06 826LA	6LA10367.D	10/03/98	15:54
06	RE15-98-0035	LANL 09-522-07 826LA	6LA10368.D	10/03/98	16:27
07	RE15-98-0036	LANL 09-522-08 826LA	6LA10369.D	10/03/98	17:01
08	RE15-98-0037	LANL 09-522-09 826LA	6LA10370.D	10/03/98	17:34

6B
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: KEMRON Environmental Services Contract: 7797L0014-8M
 Lab Code: _____ Case No.: 09-522 SDG No.: _____
 Instrument ID: HPMS6 Calibration Date(s): 9/29/98 9/29/98
 Heated Purge: (Y/N) Y Calibration Times: 10:42 14:01
 GC Column: CAP ID: 0.32 (mm)

RRF5 = 6ST10254.D		RRF10 = 6ST10248.D		RRF20 = 6ST10249.D			
RRF50 = 6ST10250.D		RRF100 = 6ST10251.D					
COMPOUND	RRF5	RRF10	RRF20	RRF50	RRF100	RRF	% RSD
Dichlorodifluoromethane *	0.343	0.325	0.330	0.327	0.308	0.327	3.82 *
Chloromethane	0.428	0.401	0.389	0.371	0.349	0.388	7.77
Vinyl chloride *	0.299	0.271	0.250	0.236	0.204	0.252	14.16 *
Bromomethane	0.272	0.250	0.228	0.210	0.186	0.229	14.74
Chloroethane	0.193	0.193	0.184	0.173	0.162	0.181	7.47
Trichlorofluoromethane	0.544	0.521	0.508	0.507	0.481	0.512	4.49
Acetone	0.151	0.103	0.082	0.088	0.075	0.100	30.53
1,1-Dichloroethene	0.177	0.175	0.182	0.203	0.207	0.189	8.05
Iodomethane	0.083	0.113	0.139	0.178	0.196	0.142	32.63
Methylene chloride *	0.250	0.238	0.220	0.234	0.233	0.235	4.58 *
Carbon disulfide	0.885	0.834	0.824	0.855	0.835	0.847	2.86
Acrylonitrile	0.072	0.068	0.072	0.084	0.080	0.075	8.79
Methyl-tert-butyl ether	0.433	0.426	0.468	0.562	0.561	0.490	13.73
trans-1,2-Dichloroethene *	0.200	0.200	0.200	0.219	0.224	0.209	5.68 *
n-Hexane	0.396	0.419	0.450	0.483	0.472	0.444	8.20
Vinyl acetate *	0.199	0.235	0.273	0.371	0.380	0.292	27.84 *
1,1-Dichloroethane	0.492	0.482	0.469	0.494	0.484	0.484	2.05
2-Butanone *	0.098	0.086	0.085	0.112	0.112	0.098	13.23 *
2,2-Dichloropropane *	0.417	0.412	0.409	0.448	0.457	0.429	5.18 *
cis-1,2-Dichloroethene *	0.204	0.212	0.225	0.256	0.257	0.231	10.69 *
Chloroform *	0.502	0.482	0.459	0.492	0.482	0.484	3.32 *
Bromochloromethane	0.100	0.096	0.095	0.104	0.106	0.100	4.85
1,1,1-Trichloroethane	0.492	0.470	0.454	0.479	0.481	0.475	3.01
Cyclohexane	0.396	0.418	0.464	0.519	0.512	0.462	11.90
1,1-Dichloropropene *	0.293	0.297	0.316	0.349	0.354	0.322	8.84 *
Carbon tetrachloride *	0.469	0.451	0.434	0.456	0.453	0.453	2.74 *
1,2-Dichloroethane	0.413	0.401	0.383	0.413	0.396	0.401	3.08
Benzene *	0.946	0.949	0.947	1.022	1.014	0.976	3.97 *
Trichloroethene *	0.208	0.210	0.215	0.251	0.266	0.230	11.57 *
1,2-Dichloropropane *	0.225	0.228	0.228	0.257	0.255	0.239	6.62 *
Bromodichloromethane	0.340	0.333	0.325	0.362	0.361	0.344	4.85
Dibromomethane	0.139	0.134	0.128	0.144	0.142	0.137	4.68
4-Methyl-2-pentanone	0.047	0.051	0.062	0.083	0.084	0.065	26.7
cis-1,3-Dichloropropene *	0.257	0.283	0.313	0.387	0.398	0.327	19.09 *
Toluene	1.372	1.342	1.327	1.462	1.424	1.386	4.09
trans-1,3-Dichloropropene	0.420	0.447	0.447	0.512	0.495	0.464	8.17
1,1,2-Trichloroethane *	0.249	0.251	0.234	0.253	0.242	0.246	3.22 *
2-Hexanone	0.143	0.148	0.167	0.229	0.220	0.181	22.25
1,3-Dichloropropane	0.438	0.434	0.420	0.475	0.453	0.444	4.67
Tetrachloroethene	0.269	0.275	0.265	0.291	0.296	0.279	4.85
Dibromochloromethane	0.295	0.301	0.289	0.331	0.329	0.309	6.39
1,2-Dibromoethane *	0.205	0.207	0.205	0.246	0.244	0.221	9.70 *

FORM VI VOA

3/90

6B
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: KEMRON Environmental Services Contract: 7797L0014-8M
 Lab Code: _____ Case No.: 09-522 SDG No.: _____
 Instrument ID: HPMS6 Calibration Date(s): 9/29/98 9/29/98
 Heated Purge: (Y/N) Y Calibration Times: 10:42 14:01
 GC Column: CAP ID: 0.32 (mm)

RRF5 = 6ST10254.D		RRF10 = 6ST10248.D		RRF20 = 6ST10249.D			
RRF50 = 6ST10250.D		RRF100 = 6ST10251.D					
COMPOUND	RRF5	RRF10	RRF20	RRF50	RRF100	RRF	% RSD
Chlorobenzene	0.927	0.914	0.875	0.975	0.987	0.936	4.89
1,1,1,2-Tetrachloroethane	0.348	0.344	0.336	0.380	0.387	0.359	6.37
Ethylbenzene *	0.478	0.510	0.508	0.575	0.597	0.534	9.42
m+p-Xylene	0.598	0.633	0.629	0.710	0.733	0.661	8.77
o-Xylene *	0.449	0.480	0.533	0.641	0.667	0.554	17.47
Styrene	0.823	0.893	0.935	1.092	1.133	0.975	13.57
Bromoform *	0.197	0.198	0.191	0.223	0.224	0.206	7.53
Isopropylbenzene *	1.487	1.350	1.474	1.743	1.816	1.574	12.50
1,1,2,2-Tetrachloroethane *	0.591	0.579	0.524	0.561	0.534	0.558	5.12
1,2,3-Trichloropropane *	0.201	0.190	0.172	0.187	0.179	0.186	6.11
propyl-benzene	3.198	3.444	3.426	3.672	3.708	3.490	5.95
Bromobenzene *	0.628	0.634	0.611	0.689	0.697	0.652	5.89
1,3,5-Trimethylbenzene *	2.018	2.220	2.265	2.567	2.612	2.336	10.68
2-Chlorotoluene *	2.110	2.139	2.079	2.255	2.237	2.164	3.61
4-Chlorotoluene	2.046	2.193	2.143	2.314	2.283	2.196	4.93
tert-butyl-benzene *	2.029	2.105	2.102	2.339	2.399	2.195	7.43
1,2,4-Trimethylbenzene *	2.324	2.407	2.368	2.660	2.697	2.491	6.99
sec-butyl-benzene	2.676	2.931	2.966	3.390	3.489	3.090	10.99
p-isopropyl-toluene	2.229	2.416	2.420	2.833	2.952	2.570	11.95
1,3-Dichlorobenzene	1.256	1.273	1.234	1.382	1.425	1.314	6.41
1,4-Dichlorobenzene	1.455	1.390	1.305	1.442	1.461	1.411	4.64
n-butyl-benzene	2.260	2.414	2.357	2.694	2.770	2.499	8.86
1,2-Dichlorobenzene	1.078	1.102	1.072	1.230	1.264	1.149	7.9
1,2-dibromo-3-chloropropane	0.093	0.089	0.087	0.105	0.109	0.096	10.220
1,2,4-Trichlorobenzene *	0.676	0.636	0.627	0.780	0.829	0.710	12.720
Hexachlorobutadiene	0.507	0.468	0.422	0.491	0.516	0.481	7.850
Naphthalene *	1.088	1.056	1.121	1.459	1.478	1.240	16.910
1,2,3-Trichlorobenzene	0.600	0.568	0.566	0.689	0.712	0.627	10.970
Dibromofluoromethane *	0.256	0.243	0.245	0.258	0.257	0.252	2.770
1,2-Dichloroethane-d4 *	0.345	0.331	0.328	0.337	0.323	0.333	2.540
Toluene-d8	0.994	1.048	1.097	1.159	1.147	1.089	6.320
p-Bromofluorobenzene	0.661	0.709	0.776	0.861	0.870	0.776	11.860

FORM VI VOA

3/90

6B
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: KEMRON Environmental Services Contract: 7797L0014-8M
 Lab Code: _____ Case No.: 09-522 SDG No.: _____
 Instrument ID: HPMS6 Calibration Date(s): 9/29/98 9/29/98
 Heated Purge: (Y/N) Y Calibration Times: 10:42 14:01
 GC Column: CAP ID: 0.32 (mm)

RRF5 = 6ST10254.D	RRF10 = 6ST10248.D	RRF20 = 6ST10249.D
RRF50 = 6ST10250.D	RRF100 = 6ST10251.D	

COMPOUND	RRF5	RRF10	RRF20	RRF50	RRF100	RRF	% RSD
Trichlorotrifluoroethane	0.259	0.257	0.249	0.254	0.242	0.252	2.73

FORM VI VOA

3/90

7B
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: KEMRON Environmental Services Contract: 7797L0014-8M
 Lab Code: _____ Case No.: 09-522 SAS No.: _____ SDG No.: _____
 Instrument ID: HPMS6 Calibration Date: 9/30/98 Time: 21:33
 Lab File ID: 6ST10287 Init. Calib. Date(s): 9/29/98 9/29/98
 Heated Purge: (Y/N) Y Init. Calib. Times: 10:42 14:01
 GC Column: CAP ID: 0.32 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.327	0.281		14.1	
Vinyl Chloride	0.252	0.230		8.7	
Chloromethane	0.388	0.355		8.5	
Bromomethane	0.229	0.219		4.4	
Chloroethane	0.181	0.171		5.5	
Trichlorofluoromethane	0.512	0.462		9.8	
Acetone	0.100	0.071		29.0	
Trichlorotrifluoroethane	0.252	0.232		7.9	
1,1-Dichloroethene	0.189	0.167		11.6	
Iodomethane	0.142	0.130		8.5	
Methylene Chloride	0.235	0.201		14.5	
Carbon Disulfide	0.847	0.800		5.5	
t-1,2-Dichloroethene	0.209	0.184		12.0	
1,1-dichloroethane	0.484	0.440		9.1	
2-Butanone	0.098	0.071		27.6	
2,2-Dichloropropane	0.429	0.380		11.4	
c-1,2-Dichloroethene	0.231	0.214		7.4	
Chloroform	0.484	0.432		10.7	
Bromochloromethane	0.100	0.086		14.0	
1,1,1-Trichloroethane	0.475	0.420		11.6	
1,1-Dichloropropene	0.322	0.296		8.1	
Carbon Tetrachloride	0.453	0.403		11.0	
1,2-Dichloroethane	0.401	0.359		10.5	
Benzene	0.976	0.906		7.2	
Trichloroethene	0.230	0.205		10.9	
1,2-Dichloropropane	0.239	0.218		8.8	
Bromodichloromethane	0.344	0.307		10.8	
Dibromomethane	0.137	0.119		13.1	
4-Methyl-2-Pentanone	0.065	0.060		7.7	
c-1,3-Dichloropropene	0.327	0.314		4.0	
Toluene	1.386	1.250		9.8	
t-1,3-Dichloropropene	0.464	0.436		6.0	
2-Hexanone	0.181	0.164		9.4	
1,1,2-Trichloroethane	0.246	0.218		11.4	
1,3-Dichloropropane	0.444	0.395		11.0	
Tetrachloroethene	0.279	0.252		9.7	

All other compounds must meet a minimum RRF of 0.010.

7B
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: KEMRON Environmental Services Contract: 7797L0014-8M

Lab Code: _____ Case No.: 09-522 SAS No.: _____

SDG No.: _____

Instrument ID: HPMS6 Calibration Date: 9/30/98

Time: 21:33

Lab File ID: 6ST10287 Init. Calib. Date(s): 9/29/98 9/29/98

Heated Purge: (Y/N) Y Init. Calib. Times: 10:42 14:01

GC Column: CAP ID: 0.32 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Chlorodibromomethane	0.309	0.267		13.6	
1,2-Dibromoethane	0.221	0.190		14.0	
Chlorobenzene	0.936	0.832		11.1	
1,1,1,2-Tetrachloroethane	0.359	0.324		9.7	
Ethylbenzene	0.534	0.494		7.5	
m,p-Xylene	0.661	0.614		7.1	
o-Xylene	0.554	0.536		3.2	
Styrene	0.975	0.930		4.6	
Isopropylbenzene	1.574	1.482		5.8	
Bromoform	0.206	0.181		12.1	
1,1,2,2-Tetrachloroethane	0.558	0.445		20.3	
1,2,3-Trichloropropane	0.186	0.146		21.5	
n-Propylbenzene	3.490	3.157		9.5	
Bromobenzene	0.652	0.560		14.1	
1,3,5-Trimethylbenzene	2.336	2.146		8.1	
2-Chlorotoluene	2.164	1.953		9.8	
4-Chlorotoluene	2.196	1.918		12.7	
tert-Butylbenzene	2.195	1.982		9.7	
1,2,4-Trimethylbenzene	2.491	2.236		10.2	
sec-Butylbenzene	3.090	2.865		7.3	
p-Isopropyltoluene	2.570	2.389		7.0	
1,3-Dichlorobenzene	1.314	1.137		13.5	
1,4-Dichlorobenzene	1.411	1.204		14.7	
n-Butylbenzene	2.499	2.337		6.5	
1,2-Dichlorobenzene	1.149	0.997		13.2	
1,2-Dibromo-3-Chloropropane	0.096	0.072		25.0	
Dibromomfluoromethane	0.252	0.214		15.1	
1,2-Dichloroethane-d4	0.333	0.294		11.7	
d8-Toluene	1.089	0.992		8.9	
p-Bromofluorobenzene	0.776	0.689		11.2	

All other compounds must meet a minimum RRF of 0.010.

FORM VII VOA

7B
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: KEMRON Environmental Services Contract: 7797L0014-8M
 Lab Code: _____ Case No.: 09-522 SAS No.: _____ SDG No.: _____
 Instrument ID: HPMS6 Calibration Date: 10/1/98 Time: 9:44
 Lab File ID: 6ST10309 Init. Calib. Date(s): 9/29/98 9/29/98
 Heated Purge: (Y/N) Y Init. Calib. Times: 10:42 14:01
 GC Column: CAP ID: 0.32 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.327	0.329		-0.6	
Vinyl Chloride	0.252	0.261		-3.6	
Chloromethane	0.388	0.389		-0.3	
Bromomethane	0.229	0.241		-5.2	
Chloroethane	0.181	0.191		-5.5	
Trichlorofluoromethane	0.512	0.561		-9.6	
Acetone	0.100	0.077		23.0	
Trichlorotrifluoroethane	0.252	0.285		-13.1	
1,1-Dichloroethene	0.189	0.203		-7.4	
Iodomethane	0.142	0.147		-3.5	
Methylene Chloride	0.235	0.239		-1.7	
Carbon Disulfide	0.847	0.917		-8.3	
t-1,2-Dichloroethene	0.209	0.221		-5.7	
1,1-dichloroethane	0.484	0.524		-8.3	
2-Butanone	0.098	0.092		6.1	
2,2-Dichloropropane	0.429	0.455		-6.1	
c-1,2-Dichloroethene	0.231	0.259		-12.1	
Chloroform	0.484	0.518		-7.0	
Bromochloromethane	0.100	0.102		-2.0	
1,1,1-Trichloroethane	0.475	0.507		-6.7	
1,1-Dichloropropene	0.322	0.360		-11.8	
Carbon Tetrachloride	0.453	0.496		-9.5	
1,2-Dichloroethane	0.401	0.433		-8.0	
Benzene	0.976	1.078		-10.5	
Trichloroethene	0.230	0.246		-7.0	
1,2-Dichloropropane	0.239	0.260		-8.8	
Bromodichloromethane	0.344	0.363		-5.5	
Dibromomethane	0.137	0.143		-4.4	
4-Methyl-2-Pentanone	0.065	0.076		-16.9	
c-1,3-Dichloropropene	0.327	0.379		-15.9	
Toluene	1.386	1.523		-9.9	
t-1,3-Dichloropropene	0.464	0.531		-14.4	
2-Hexanone	0.181	0.218		-20.4	
1,1,2-Trichloroethane	0.246	0.269		-9.3	
1,3-Dichloropropane	0.444	0.490		-10.4	
Tetrachloroethene	0.279	0.307		-10.0	

All other compounds must meet a minimum RRF of 0.010.

7B
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: KEMRON Environmental Services Contract: 7797L0014-8M
 Lab Code: _____ Case No.: 09-522 SAS No.: _____ SDG No.: _____
 Instrument ID: HPMS6 Calibration Date: 10/1/98 Time: 9:44
 Lab File ID: 6ST10309 Init. Calib. Date(s): 9/29/98 9/29/98
 Heated Purge: (Y/N) Y Init. Calib. Times: 10:42 14:01
 GC Column: CAP ID: 0.32 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Chlorodibromomethane	0.309	0.328		-6.1	
1,2-Dibromoethane	0.221	0.234		-5.9	
Chlorobenzene	0.936	1.013		-8.2	
1,1,1,2-Tetrachloroethane	0.359	0.398		-10.9	
Ethylbenzene	0.534	0.606		-13.5	
m,p-Xylene	0.661	0.756		-14.4	
o-Xylene	0.554	0.665		-20.0	
Styrene	0.975	1.135		-16.4	
Isopropylbenzene	1.574	1.843		-17.1	
Bromoform	0.206	0.225		-9.2	
1,1,2,2-Tetrachloroethane	0.558	0.567		-1.6	
1,2,3-Trichloropropane	0.186	0.189		-1.6	
n-Propylbenzene	3.490	3.898		-11.7	
Bromobenzene	0.652	0.686		-5.2	
1,3,5-Trimethylbenzene	2.336	2.663		-14.0	
2-Chlorotoluene	2.164	2.342		-8.2	
4-Chlorotoluene	2.196	2.419		-10.2	
tert-Butylbenzene	2.195	2.455		-11.8	
1,2,4-Trimethylbenzene	2.491	2.739		-10.0	
sec-Butylbenzene	3.090	3.569		-15.5	
p-Isopropyltoluene	2.570	2.952		-14.9	
1,3-Dichlorobenzene	1.314	1.403		-6.8	
1,4-Dichlorobenzene	1.411	1.461		-3.5	
n-Butylbenzene	2.499	2.840		-13.6	
1,2-Dichlorobenzene	1.149	1.218		-6.0	
1,2-Dibromo-3-Chloropropane	0.096	0.091		5.2	
Dibromomfluoromethane	0.252	0.267		-6.0	
1,2-Dichloroethane-d4	0.333	1.000		0.0	
d8-Toluene	1.089	1.256		-15.3	
p-Bromofluorobenzene	0.776	0.776		-15.1	

All other compounds must meet a minimum RRF of 0.010.

FORM VII VOA

7B
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: KEMRON Environmental Services Contract: 7797L0014-8M
 Lab Code: _____ Case No.: 09-522 SAS No.: _____ SDG No.: _____
 Instrument ID: HPMS6 Calibration Date: 10/3/98 Time: 9:18
 Lab File ID: 6ST10356 Init. Calib. Date(s): 9/29/98 9/29/98
 Heated Purge: (Y/N) Y Init. Calib. Times: 10:42 14:01
 GC Column: CAP ID: 0.32 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.327	0.272		16.8	
Vinyl Chloride	0.252	0.232		7.9	
Chloromethane	0.388	0.315		18.8	
Bromomethane	0.229	0.214		6.6	
Chloroethane	0.181	0.165		8.8	
Trichlorofluoromethane	0.512	0.549		-7.2	
Acetone	0.100	0.089		11.0	
Trichlorotrifluoroethane	0.252	0.281		-11.5	
1,1-Dichloroethene	0.189	0.201		-6.3	
Iodomethane	0.142	0.129		9.2	
Methylene Chloride	0.235	0.244		-3.8	
Carbon Disulfide	0.847	0.931		-9.9	
t-1,2-Dichloroethene	0.209	0.221		-5.7	
1,1-dichloroethane	0.484	0.526		-8.7	
2-Butanone	0.098	0.105		-7.1	
2,2-Dichloropropane	0.429	0.448		-4.4	
c-1,2-Dichloroethene	0.231	0.261		-13.0	
Chloroform	0.484	0.518		-7.0	
Bromochloromethane	0.100	0.103		-3.0	
1,1,1-Trichloroethane	0.475	0.499		-5.1	
1,1-Dichloropropene	0.322	0.354		-9.9	
Carbon Tetrachloride	0.453	0.479		-5.7	
1,2-Dichloroethane	0.401	0.437		-9.0	
Benzene	0.976	1.080		-10.7	
Trichloroethene	0.230	0.244		-6.1	
1,2-Dichloropropane	0.239	0.260		-8.8	
Bromodichloromethane	0.344	0.362		-5.2	
Dibromomethane	0.137	0.147		-7.3	
4-Methyl-2-Pentanone	0.065	0.085		-30.8	
c-1,3-Dichloropropene	0.327	0.379		-15.9	
Toluene	1.386	1.514		-9.2	
t-1,3-Dichloropropene	0.464	0.541		-16.6	
2-Hexanone	0.181	0.251		-38.7	
1,1,2-Trichloroethane	0.246	0.274		-11.4	
1,3-Dichloropropane	0.444	0.500		-12.6	
Tetrachloroethene	0.279	0.302		-8.2	

All other compounds must meet a minimum RRF of 0.010.

7B
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: KEMRON Environmental Services Contract: 7797L0014-8M
 Lab Code: _____ Case No.: 09-522 SAS No.: _____ SDG No.: _____
 Instrument ID: HPMS6 Calibration Date: 10/3/98 Time: 9:18
 Lab File ID: 6ST10356 Init. Calib. Date(s): 9/29/98 9/29/98
 Heated Purge: (Y/N) Y Init. Calib. Times: 10:42 14:01
 GC Column: CAP ID: 0.32 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Chlorodibromomethane	0.309	0.330		-6.8	
1,2-Dibromoethane	0.221	0.243		-10.0	
Chlorobenzene	0.936	1.009		-7.8	
1,1,1,2-Tetrachloroethane	0.359	0.397		-10.6	
Ethylbenzene	0.534	0.597		-11.8	
m,p-Xylene	0.661	0.746		-12.9	
o-Xylene	0.554	0.651		-17.5	
Styrene	0.975	1.126		-15.5	
Isopropylbenzene	1.574	1.812		-15.1	
Bromoform	0.206	0.235		-14.1	
1,1,2,2-Tetrachloroethane	0.558	0.593		-6.3	
1,2,3-Trichloropropane	0.186	0.196		-5.4	
n-Propylbenzene	3.490	3.793		-8.7	
Bromobenzene	0.652	0.672		-3.1	
1,3,5-Trimethylbenzene	2.336	2.612		-11.8	
2-Chlorotoluene	2.164	2.297		-6.1	
4-Chlorotoluene	2.196	2.363		-7.6	
tert-Butylbenzene	2.195	2.386		-8.7	
1,2,4-Trimethylbenzene	2.491	2.719		-9.2	
sec-Butylbenzene	3.090	3.485		-12.8	
p-Isopropyltoluene	2.570	2.900		-12.8	
1,3-Dichlorobenzene	1.314	1.386		-5.5	
1,4-Dichlorobenzene	1.411	1.457		-3.3	
n-Butylbenzene	2.499	2.868		-14.8	
1,2-Dichlorobenzene	1.149	1.218		-6.0	
1,2-Dibromo-3-Chloropropane	0.096	0.101		-5.2	
Dibromomfluoromethane	0.252	0.271		-7.5	
1,2-Dichloroethane-d4	0.333	0.376		-12.9	
d8-Toluene	1.089	1.264		-16.1	
p-Bromofluorobenzene	0.776	0.886		-14.2	

All other compounds must meet a minimum RRF of 0.010.

FORM VII VOA

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: kemron Contract: 7797loo14-8m
 Lab Code: _____ Case No.: 09-522 SAS No.: _____ SDG No.: _____
 Lab File ID (Standard): 6ST10287.D Date Analyzed: 09/30/98
 Instrument ID: hpms 6 Time Analyzed: 21:33
 GC Column: _____ ID: 0.32 (mm) Heated Purge: (Y/N) Y

	IS1FBZ AREA #	RT #	IS2CBZ AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	1392896	12.11	1082769	16.62	653997	20.20
UPPER LIMIT	2785792	11.61	2165538	16.12	1307994	19.70
LOWER LIMIT	696448	12.61	541385	17.12	326999	20.70
EPA SAMPLE NO.						
01 VBLK0930	1380109	12.11	1015607	16.62	516373	20.20
02 VLCS0930	1388372	12.11	1040689	16.62	618994	20.20
03 MD21-98-0144	1194490	12.11	865699	16.62	467770	20.20
04 RE00-98-0056	1229275	12.11	881562	16.62	442876	20.20
05 RE00-98-0057	1203265	12.10	869754	16.62	451365	20.20
06 RE00-98-0059	1240045	12.10	895748	16.62	466798	20.20
07 RE00-98-0060	1207313	12.11	883960	16.62	457245	20.19
08 RE15-98-0029	93944 *	12.12	67579 *	16.62	27260 *	20.20
09 RE15-98-0030	1142185	12.11	820627	16.62	430429	20.19
10 RE15-98-0031	1195912	12.11	868607	16.62	469357	20.20
11 RE15-98-0032	1178243	12.11	857042	16.62	454975	20.20
12 RE15-98-0033	1065979	12.11	779249	16.62	395560	20.20

IS1 FBZ = Fluorobenzene
 IS2 CBZ = Chlorobenzene-d5
 IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: kemron Contract: 779710014-8m
 Lab Code: _____ Case No.: 09-522 SAS No.: _____ SDG No.: _____
 Lab File ID (Standard): 6ST10309.D Date Analyzed: 10/01/98
 Instrument ID: hpms 8 Time Analyzed: 09:44
 GC Column: _____ ID: 0.32 (mm) Heated Purge: (Y/N) Y

	IS1FBZ AREA #	RT #	IS2CBZ AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	1396201	12.11	1070629	16.62	634843	20.20
UPPER LIMIT	2792402	11.61	2141258	16.12	1269686	19.70
LOWER LIMIT	698101	12.61	535315	17.12	317422	20.70
EPA SAMPLE NO.						
01 VLCS1001	1352814	12.11	995508	16.62	600302	20.20
02 VBLK1001	1260649	12.12	902515	16.62	468463	20.20
03 RE00-98-0051	1185803	12.11	844967	16.62	479521	20.20
04 MD21-98-0143	1265945	12.11	903618	16.62	485304	20.20
05 MD21-98-0144	1242737	12.11	880470	16.62	486860	20.20

IS1 FBZ = Fluorobenzene
 IS2 CBZ = Chlorobenzene-d5
 IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: kemron Contract: 7797loo14-8m
 Lab Code: _____ Case No.: 09-522 SAS No.: _____ SDG No.: _____
 Lab File ID (Standard): 6ST10356.D Date Analyzed: 10/03/98
 Instrument ID: hpms 6 Time Analyzed: 09:18
 GC Column: _____ ID: 0.32 (mm) Heated Purge: (Y/N) Y

	IS1FBZ AREA #	RT #	IS2CBZ AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	1375473	12.11	1055158	16.62	637069	20.20
UPPER LIMIT	2750946	11.61	2110316	16.12	1274138	19.70
LOWER LIMIT	687737	12.61	527579	17.12	318535	20.70
EPA SAMPLE NO.						
01 VBLK1003	1252651	12.11	901518	16.63	461669	20.20
02 VLCS1003	1287482	12.11	962852	16.62	544174	20.20
03 MD2-98-0166	1279243	12.11	926611	16.63	478405	20.20
04 RE15-98-0034	1229226	12.11	887271	16.63	473634	20.20
05 RE15-98-0035	1215689	12.11	896143	16.63	456581	20.20
06 RE15-98-0036	1218680	12.11	868667	16.62	473700	20.20
07 RE15-98-0037	1123767	12.11	799911	16.63	422983	20.20

IS1 FBZ = Fluorobenzene
 IS2 CBZ = Chlorobenzene-d5
 IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

SAMPLE EXTRACT LOG SHEET

Parameter: BNA-S
 Analyst(s): TRS
 Date: 9-25-98
 SOP #: EXPROB
 Spike/Surrogate Analyst: TRS
 Florisil Lot #: N/A

Extract Relinquished By: WJH
 Extract Received By: WJH
 Date Extract Received: 9/25/98
 Solvent CH₂Cl₂ Lot # B31168
 Solvent _____ Lot # _____

SW-846 METHOD

CONT.	3520	ON	OFF	ON	OFF
SOX.	3540				
SEP.	3510				
SON.	3550				
WASTE	3580				

Ext Work Group 46646220
 Analytical Work Group W647900

CLIENT I.D.	SAMPLE I.D.	pH	TEST CODE	INITIAL VOLUME	SURROGATE	AMOUNT SPIKED	CLEANUP	FINAL VOLUME	COMMENTS
1				30.10 g	5000L ES-05-20 ¹⁸			1 mL	
2				30.09 g		Standard ES-05-20 ¹⁸	N/A		J.V. 7-27-98 TRS
3	LANL		807-LAS	30.00 g					
4				30.01 g					
5				30.06 g					
6				30.08 g					
7				30.02 g					
8				30.03 g					
9				30.03 g					
10				30.01 g					
11				30.07 g					
12				30.04 g					
13				30.03 g					
14				30.03 g					
15				30.00 g					
16				30.05 g					
17				30.00 g					
18				30.00 g					
19				30.09 g					
20				30.10 g					
21				30.00 g					
22				30.10 g					
23				30.09 g					
24				30.09 g					

TRS 9-25-98

Reviewed By: WJH

KEMRON ENVIRONMENTAL SERVICES, OVL
SEMI-VOLATILES QUALITY CONTROL SUMMARY
827LAS

ANAL WORK GRP : WG47900
METHOD : 8270
MATRIX : SOIL
CONCENTRATION UNITS : UG/KG
PREP WORK GRP : WG46720

EXT DATE : 9/29/98
BENCH SHEET : V101P64
BLK FLNM : 5980
LCS FLNM : 5981

RUN DATE : 10/16/98
SMPL ID : 09-519-01 4X SOIL
MS FLNM : 5982
MSD FLNM : 5984

INSTRUMENT : HPMS7
ANALYST : MLS

ANALYTE	CONCENTRATION, ug/Kg				PERCENT RECOVERY, %										PERCENT				BEYOND LIMITS					
	RDL	BLANK	LCS	SPIKE	LCS	SAMPLE	MS	MSD	BLANK	LCS	LCS/LCL	UCL	SAMPLE	MS	MSD	DUP	MSD	RPD	UCL	SAMPLE	BLANK	LCS	MS	MSD
PYRIDINE	330	ND	1670	179	ND	1670	531	699	NA	10.7	25	150	NA	31.8	41.9	NA	NA	40	40					
N-NITROSODIMETHYLAMINE	330	ND	1670	736	ND	1670	738	830	NA	44.0	25	150	NA	44.2	49.7	NA	NA	40	40					
ANILINE	660	ND	1670	565	ND	1670	717	819	NA	33.8	25	150	NA	42.9	49.0	NA	NA	40	40					
PHENOL	330	ND	1670	847	ND	1670	938	1081	NA	50.7	25	135	NA	56.2	64.7	NA	NA	40	40					
BIS(2-CHLOROETHYL)ETHER	330	ND	1670	809	ND	1670	889	990	NA	48.4	34	135	NA	53.3	59.3	NA	NA	40	40					
2-CHLOROPHENOL	330	ND	1670	805	ND	1670	888	978	NA	48.2	31	135	NA	52.0	58.6	NA	NA	40	40					
1,3-DICHLOROBENZENE	330	ND	1670	789	ND	1670	847	946	NA	47.3	26	135	NA	50.7	56.7	NA	NA	40	40					
1,4-DICHLOROBENZENE	860	ND	1670	799	ND	1670	875	964	NA	47.8	25	135	NA	52.4	57.7	NA	NA	40	40					
BENZYL ALCOHOL	1300	ND	1670	781	ND	1670	761	743	NA	46.8	25	135	NA	45.6	44.5	NA	NA	40	40					
1,2-DICHLOROBENZENE	330	ND	1670	922	ND	1670	990	991	NA	49.2	32	135	NA	53.3	59.4	NA	NA	40	40					
2-METHYLPHENOL	330	ND	1670	865	ND	1670	942	1062	NA	51.8	26	135	NA	56.4	63.6	NA	NA	40	40					
2,2'-OXYBIS(1-CHLOROPROP	330	ND	1670	800	ND	1670	880	992	NA	47.9	26	175	NA	52.7	59.4	NA	NA	40	40					
3- & 4-METHYLPHENOL	330	ND	1670	900	ND	1670	999	1121	NA	53.9	25	135	NA	59.8	67.1	NA	NA	40	40					
N-NITROSODI-N-PROPYLAMINE	330	ND	1670	833	ND	1670	871	997	NA	49.9	27	135	NA	52.2	59.7	NA	NA	40	40					
HEXACHLOROETHANE	330	ND	1670	825	ND	1670	915	1028	NA	49.4	25	163	NA	54.8	61.6	NA	NA	40	40					
NITROBENZENE	330	ND	1670	868	ND	1670	940	1053	NA	51.9	36	143	NA	56.3	63.1	NA	NA	40	40					
ISOPHORONE	330	ND	1670	1017	ND	1670	1125	1295	NA	60.9	25	175	NA	67.4	77.5	NA	NA	40	40					
2-NITROPHENOL	330	ND	1670	855	ND	1670	906	990	NA	51.2	34	135	NA	54.2	59.3	NA	NA	40	40					
2,4-DIMETHYLPHENOL	330	ND	1670	946	ND	1670	1089	1242	NA	56.7	35	149	NA	65.2	74.4	NA	NA	40	40					
BIS(2-CHLOROETHOXY)METH	330	ND	1670	876	ND	1670	985	1101	NA	52.5	39	135	NA	59.0	65.9	NA	NA	40	40					
BENZOIC ACID	3300	ND	1670	776	ND	1650	0	0	NA	46.5	25	172	NA	0.0	0.0	NA	####	40	40					
2,4-DICHLOROPHENOL	330	ND	1670	904	ND	1670	1039	1230	NA	54.1	36	135	NA	62.2	73.7	NA	NA	40	40					
1,2,4-TRICHLOROBENZENE	330	ND	1670	818	ND	1670	921	1031	NA	49.0	34	152	NA	55.1	61.7	NA	NA	40	40					
NAPHTHALENE	330	ND	1670	882	ND	1670	1034	1151	NA	52.8	40	135	NA	61.9	68.9	NA	NA	40	40					
4-CHLOROANILINE	1300	ND	1670	933	ND	1670	1015	1139	NA	55.8	35	146	NA	60.8	68.2	NA	NA	40	40					
HEXACHLOROBUTADIENE	330	ND	1670	828	ND	1670	980	1074	NA	49.6	25	135	NA	57.5	64.3	NA	NA	40	40					
4-CHLORO-3-METHYLPHENOL	660	ND	1670	1058	ND	1670	1274	1470	NA	63.3	34	135	NA	76.3	88.0	NA	NA	40	40					
2-METHYLNAPHTHALENE	330	ND	1670	896	ND	1670	1061	1204	NA	53.7	31	135	NA	63.5	72.1	NA	NA	40	40					
HEXACHLOROCYCLOPENTADI	330	ND	1670	815	ND	1670	631	655	NA	48.8	31	135	NA	37.8	39.2	NA	NA	40	40					
2,4,6-TRICHLOROPHENOL	330	ND	1670	963	ND	1670	1169	1346	NA	57.7	29	138	NA	70.0	80.6	NA	NA	40	40					
2,4,5-TRICHLOROPHENOL	330	ND	1670	1011	ND	1670	1239	1451	NA	60.5	25	175	NA	74.2	86.9	NA	NA	40	40					
2-CHLORONAPHTHALENE	330	ND	1670	923	ND	1670	1100	1284	NA	55.3	50	135	NA	65.8	75.7	NA	NA	40	40					
2-NITROANILINE	1660	ND	1670	1155	ND	1670	1265	1431	NA	64.7	40	135	NA	69.5	80.3	NA	NA	40	40					
DIMETHYLPHTHALATE	330	ND	1670	1034	ND	1670	1161	1341	NA	69.2	25	175	NA	75.7	85.7	NA	NA	40	40					
ACENAPHTHYLENE	330	ND	1670	923	ND	1670	1253	1425	NA	61.9	37	135	NA	75.0	85.4	NA	NA	40	40					
2,6-DINITROTOLUENE	330	ND	1670	1142	ND	1670	1209	1351	NA	68.4	41	135	NA	72.4	80.9	NA	NA	40	40					
3-NITROANILINE	1600	ND	1670	1775	ND	1670	1854	2041	NA	106.3	41	135	NA	111.0	122.2	NA	NA	40	40					
ACENAPHTHENE	330	ND	1670	973	ND	1670	1225	1410	NA	58.3	39	135	NA	73.3	84.5	NA	NA	40	40					
2,4-DINITROPHENOL	1600	ND	1670	1075	ND	1670	328	376	NA	64.3	25	161	NA	19.6	22.5	NA	NA	40	40					
4-NITROPHENOL	1600	ND	1670	1490	ND	1670	1192	1365	NA	89.2	25	141	NA	71.4	81.7	NA	NA	40	40					
DIBENZOFURAN	330	ND	1670	1043	ND	1670	1305	1487	NA	82.5	42	135	NA	78.1	89.1	NA	NA	40	40					
2,4-DINITROTOLUENE	330	ND	1670	1355	ND	1670	1281	1456	NA	81.1	29	149	NA	76.7	87.2	NA	NA	40	40					

NOTES & DEFINITIONS:
NA = NOT APPLICABLE
ND = NOT DETECTED
RDL=REPORTING DETECTION LIMIT
NS = NOT SPIKED
L = Below QC Limits
H = Above QC Limits

KEMRON ENVIRONMENTAL SERVICES, OVL
SEMI-VOLATILES QUALITY CONTROL SUMMARY

ANAL WORK GRP : WG47900
METHOD : 8270
MATRIX : SOIL
CONCENTRATION UNITS : UG/KG
PREP WORK GRP : WG46720

EXT DATE : 9/29/98
BENCH SHEET : V101P64
BLK FLNM : 5980
LCS FLNM : 5981

RUN DATE : 10/16/98
SMPL ID : 09-519-01 4X SOIL
MS FLNM : 5982
MSD FLNM : 5983
MSD FLNM : 5984

INSTRUMENT : HPMS7
ANALYST : MLS

ANALYTE	CONCENTRATION , ug /kg										PERCENT RECOVERY , %										PERCENT				BEYOND LIMITS						
	LCS		MS		Spike		Sample		MS		LCS		MS		Sample		MS		MSD		MS		MSD		MS		MSD		MS		
	RDL	BLK	ADDED	LCS	ADDED	LCS	ADDED	LCS	ADDED	MS	ADDED	LCS	ADDED	MS	ADDED	LCS	ADDED	MS	ADDED	MSD	ADDED	LCS	ADDED	MS	ADDED	MSD	ADDED	LCS	ADDED	MS	ADDED
DIETHYLPHTHALATE	300	ND	1670	1303	ND	1670	1389	1546	1670	1389	ND	1670	1546	1670	1389	1546	1670	1389	1546	1670	1389	1546	1670	1389	1546	1670	1389	1546	1670	1389	1546
FLUORENE	300	ND	1670	987	ND	1670	1274	1437	1670	1274	ND	1670	1437	1670	1274	1437	1670	1274	1437	1670	1274	1437	1670	1274	1437	1670	1274	1437	1670	1274	1437
4-CHLOROPHENYL-PHENYLENE	300	ND	1670	943	ND	1670	1211	1360	1670	1211	ND	1670	1360	1670	1211	1360	1670	1211	1360	1670	1211	1360	1670	1211	1360	1670	1211	1360	1670	1211	1360
4-NITROANILINE	660	ND	1670	1623	ND	1670	1703	1785	1670	1703	ND	1670	1785	1670	1703	1785	1670	1703	1785	1670	1703	1785	1670	1703	1785	1670	1703	1785	1670	1703	1785
AZOBENZENE	660	ND	1670	1205	ND	1670	1416	1597	1670	1416	ND	1670	1597	1670	1416	1597	1670	1416	1597	1670	1416	1597	1670	1416	1597	1670	1416	1597	1670	1416	1597
4,8-DINITRO-2-METHYLPHENAMINE	1600	ND	1670	1386	ND	1670	874	881	1670	874	ND	1670	881	1670	874	881	1670	874	881	1670	874	881	1670	874	881	1670	874	881	1670	874	881
N-NITROSODIPHENYLAMINE	330	ND	1670	1310	ND	1670	1498	1651	1670	1498	ND	1670	1651	1670	1498	1651	1670	1498	1651	1670	1498	1651	1670	1498	1651	1670	1498	1651	1670	1498	1651
4-BROMOPHENYL-PHENYLENE	330	ND	1670	1006	ND	1670	1121	1243	1670	1121	ND	1670	1243	1670	1121	1243	1670	1121	1243	1670	1121	1243	1670	1121	1243	1670	1121	1243	1670	1121	1243
HEXACHLOROBENZENE	330	ND	1670	1157	ND	1670	1231	1344	1670	1231	ND	1670	1344	1670	1231	1344	1670	1231	1344	1670	1231	1344	1670	1231	1344	1670	1231	1344	1670	1231	1344
PENTACHLOROPHENOL	1600	ND	1670	1358	ND	1670	1024	1146	1670	1024	ND	1670	1146	1670	1024	1146	1670	1024	1146	1670	1024	1146	1670	1024	1146	1670	1024	1146	1670	1024	1146
PHENANTHRENE	330	ND	1670	1320	ND	1670	1493	1628	1670	1493	ND	1670	1628	1670	1493	1628	1670	1493	1628	1670	1493	1628	1670	1493	1628	1670	1493	1628	1670	1493	1628
ANTHRACENE	330	ND	1670	1329	ND	1670	1473	1601	1670	1473	ND	1670	1601	1670	1473	1601	1670	1473	1601	1670	1473	1601	1670	1473	1601	1670	1473	1601	1670	1473	1601
CARBAZOLE	330	ND	1670	1684	ND	1670	1762	1900	1670	1762	ND	1670	1900	1670	1762	1900	1670	1762	1900	1670	1762	1900	1670	1762	1900	1670	1762	1900	1670	1762	1900
DIA-N-BUTYLPHTHALATE	330	ND	1670	1549	ND	1670	1598	1697	1670	1598	ND	1670	1697	1670	1598	1697	1670	1598	1697	1670	1598	1697	1670	1598	1697	1670	1598	1697	1670	1598	1697
FLUORANTHENE	330	ND	1670	1463	ND	1670	1524	1634	1670	1524	ND	1670	1634	1670	1524	1634	1670	1524	1634	1670	1524	1634	1670	1524	1634	1670	1524	1634	1670	1524	1634
PYRENE	330	ND	1670	1429	ND	1670	1486	1618	1670	1486	ND	1670	1618	1670	1486	1618	1670	1486	1618	1670	1486	1618	1670	1486	1618	1670	1486	1618	1670	1486	1618
BUTYLBENZYLPHTHALATE	330	ND	1670	1564	ND	1670	1604	1735	1670	1604	ND	1670	1735	1670	1604	1735	1670	1604	1735	1670	1604	1735	1670	1604	1735	1670	1604	1735	1670	1604	1735
BENZO(A)ANTHRACENE	330	ND	1670	1395	ND	1670	1378	1499	1670	1378	ND	1670	1499	1670	1378	1499	1670	1378	1499	1670	1378	1499	1670	1378	1499	1670	1378	1499	1670	1378	1499
3,3-DICHLOROBENZIDINE	330	ND	1670	1973	ND	1670	2239	2486	1670	2239	ND	1670	2486	1670	2239	2486	1670	2239	2486	1670	2239	2486	1670	2239	2486	1670	2239	2486	1670	2239	2486
CHRYSENE	330	ND	1670	1956	ND	1670	1954	2131	1670	1954	ND	1670	2131	1670	1954	2131	1670	1954	2131	1670	1954	2131	1670	1954	2131	1670	1954	2131	1670	1954	2131
BIS(2-ETHYLHEXYL)PHTHALATE	330	ND	1670	1518	ND	1670	1620	1712	1670	1620	ND	1670	1712	1670	1620	1712	1670	1620	1712	1670	1620	1712	1670	1620	1712	1670	1620	1712	1670	1620	1712
DIA-OCTYLPHTHALATE	330	ND	1670	1339	ND	1670	1376	1515	1670	1376	ND	1670	1515	1670	1376	1515	1670	1376	1515	1670	1376	1515	1670	1376	1515	1670	1376	1515	1670	1376	1515
BENZO(B)FLUORANTHENE	330	ND	1670	1208	ND	1670	1122	1241	1670	1122	ND	1670	1241	1670	1122	1241	1670	1122	1241	1670	1122	1241	1670	1122	1241	1670	1122	1241	1670	1122	1241
BENZO(K)FLUORANTHENE	330	ND	1670	1303	ND	1670	1187	1324	1670	1187	ND	1670	1324	1670	1187	1324	1670	1187	1324	1670	1187	1324	1670	1187	1324	1670	1187	1324	1670	1187	1324
BENZO(A)PYRENE	330	ND	1670	1247	ND	1670	1160	1271	1670	1160	ND	1670	1271	1670	1160	1271	1670	1160	1271	1670	1160	1271	1670	1160	1271	1670	1160	1271	1670	1160	1271
INDEN(1,2,3-CD)PYRENE	330	ND	1670	1211	ND	1670	1048	1098	1670	1048	ND	1670	1098	1670	1048	1098	1670	1048	1098	1670	1048	1098	1670	1048	1098	1670	1048	1098	1670	1048	1098
DIBENZO(A,H)ANTHRACENE	330	ND	1670	1469	ND	1670	1258	1337	1670	1258	ND	1670	1337	1670	1258	1337	1670	1258	1337	1670	1258	1337	1670	1258	1337	1670	1258	1337	1670	1258	1337
BENZO(G,H,I)PERYLENE	330	ND	1670	1184	ND	1670	1045	1060	1670	1045	ND	1670	1060	1670	1045	1060	1670	1045	1060	1670	1045	1060	1670	1045	1060	1670	1045	1060	1670	1045	1060
SURROGATES																															
2-FLUOROPHENOL		44.3	100	45.9	59.0	100	48.9	53.6	100	48.9	59.0	100	53.6	100	48.9	53.6	100	48.9	53.6	100	48.9	53.6	100	48.9	53.6	100	48.9	53.6	100	48.9	53.6
PHENOL - D5		47.8	100	49.9	70.9	100	58.3	64.9	100	58.3	70.9	100	64.9	100	58.3	64.9	100	58.3	64.9	100	58.3	64.9	100	58.3	64.9	100	58.3	64.9	100	58.3	64.9
NITROBENZENE - D5		23.6	50	25.2	32.3	50	27.2	29.6	50	27.2	32.3	50	29.6	50	27.2	29.6	50	27.2	29.6	50	27.2	29.6	50	27.2	29.6	50	27.2	29.6	50	27.2	29.6
2-FLUOROBIPHENYL		24.7	50	28.5	39.6	50	33.7	37.2	50	33.7	39.6	50	37.2	50	33.7	37.2	50	33.7	37.2	50	33.7	37.2	50	33.7	37.2	50	33.7	37.2	50	33.7	37.2
2,4,6-TRIBROMOPHENOL		46.8	100	68.8	69.2	100	69.3	75.1	100	69.3	69.2	100	75.1	100	69.3	75.1	100	69.3	75.1	100	69.3	75.1	100	69.3	75.1	100	69.3	75.1	100	69.3	75.1
P-TERPHEYL - D14		51.6	50	49.7	49.9	50	47.6	49.9	50	47.6	49.9	50	49.9	50	47.6	49.9	50	47.6	49.9	50	47.6	49.9	50	47.6	49.9	50	47.6	49.9	50	47.6	49.9

NOTES & DEFINITIONS :
NA = NOT APPLICABLE
ND = NOT DETECTED
RDL=REPORTING DETECTION LIMIT
NS = NOT SPIKED
L = Below QC Limits
H = Above QC Limits

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Kemron Contract: 7797I0014-8
 Lab Code: _____ Case No.: 09-522 SAS No.: _____ SDG No.: _____
 Lab File ID: 5899.D DFTPP Injection Date: 10/13/98
 Instrument ID: HPMS7 DFTPP Injection Time: 12:37

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	40.7
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 Relative abundance	38.7
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	25.0 - 75.0% of mass 198	53.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.3
275	10.0 - 30.0% of mass 198	24.6
365	Greater than 0.75% of mass 198	3.1
441	Present, but less than mass 443	10.1
442	40.0 - 110.0% of mass 198	72.9
443	15.0 - 24.0% of mass 442	14.8 (20.2)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	50PPM BNA STD S38-	5900.D	10/13/98	12:57
02	SSTD004	4PPM BNA STD S38-1	5901.D	10/13/98	13:36
03	SSTD020	20PPM BNA STD S38-	5903.D	10/13/98	14:53
04	SSTD080	80PPM BNA STD S38-	5904.D	10/13/98	15:31
05	SSTD100	100PPM BNA STD S38	5905.D	10/13/98	16:10
06	SSTD120	120PPM BNA STD S38	5906.D	10/13/98	16:48

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Kemron Contract: 7797I0014-8
 Lab Code: _____ Case No.: 09-522 SAS No.: _____ SDG No.: _____
 Lab File ID: 5978.D DFTPP Injection Date: 10/16/98
 Instrument ID: HPMS7 DFTPP Injection Time: 10:12

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	36.2
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 Relative abundance	34.5
70	Less than 2.0% of mass 69	0.2 (0.6)1
127	25.0 - 75.0% of mass 198	46.1
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	28.4
365	Greater than 0.75% of mass 198	3.7
441	Present, but less than mass 443	13.1
442	40.0 - 110.0% of mass 198	89.3
443	15.0 - 24.0% of mass 442	17.5 (19.6)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	50PPM BNA STD S38-	5979.D	10/16/98	10:33
02	BLK01	BLK 9/29/98 V101P64	5980.D	10/16/98	11:13
03	LCS01	LCS 9/29/98 V101P64	5981.D	10/16/98	11:51
04	MD21-98-0165	09-519-01 4X SOIL	5982.D	10/16/98	12:29
05	09-519MS	09-519-01MS 4X SOIL	5983.D	10/16/98	13:08
06	09-519MSD	09-519-01MSD 4X SOI	5984.D	10/16/98	13:46
07	MD21-98-0166	09-519-02SOIL	5985.D	10/16/98	14:24

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Kemron Contract: 7797I0014-8
 Lab Code: _____ Case No.: 09-522 SAS No.: _____ SDG No.: _____
 Lab File ID: 5986.D DFTPP Injection Date: 10/16/98
 Instrument ID: HPMS7 DFTPP Injection Time: 16:29

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	41.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 Relative abundance	40.5
70	Less than 2.0% of mass 69	0.3 (0.8)1
127	25.0 - 75.0% of mass 198	51.4
197	Less than 1.0% of mass 198	0.9
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 30.0% of mass 198	25.3
365	Greater than 0.75% of mass 198	2.9
441	Present, but less than mass 443	9.3
442	40.0 - 110.0% of mass 198	64.3
443	15.0 - 24.0% of mass 442	12.9 (20.0)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	50PPM BNA STD S38-	5987.D	10/16/98	16:49
02	RE15-98-0029	09-522-01 SOIL	5988.D	10/16/98	17:28
03	RE15-98-0030	09-522-02 SOIL	5989.D	10/16/98	18:06
04	RE15-98-0031	09-522-03 SOIL	5990.D	10/16/98	18:44
05	RE15-98-0032	09-522-04 SOIL	5991.D	10/16/98	19:23
06	RE15-98-0033	09-522-05 SOIL	5992.D	10/16/98	20:01
07	RE15-98-0034	09-522-06 SOIL	5993.D	10/16/98	20:40
08	RE15-98-0035	09-522-07 SOIL	5994.D	10/16/98	21:19
09	RE15-98-0036	09-522-08 SOIL	5995.D	10/16/98	21:58
10	RE15-98-0037	09-522-09 SOIL	5996.D	10/16/98	22:37
11	CAMO-98-0037	09-541-01 4X SOIL	5997.D	10/16/98	23:16
12	CAMO-98-0038	09-541-02 SOIL	5998.D	10/16/98	23:55
13	CAMO-98-0039	09-541-03 SOIL	5999.D	10/17/98	00:34
14	CAMO-98-0040	09-541-04 4X SOIL	6000.D	10/17/98	01:13
15	CAMO-98-0041	09-541-05 4X SOIL	6001.D	10/17/98	01:52
16	CAMO-98-0042	09-541-06 SOIL	6002.D	10/17/98	02:31
17	CAMO-98-0043	09-541-07 4X SOIL	6003.D	10/17/98	03:10
18	CAMO-98-0044	09-541-08 SOIL	6004.D	10/17/98	03:49

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Kemron Contract: 779710014-8
 Lab Code: _____ Case No.: 09-522 SAS No.: _____ SDG No.: _____
 Lab File ID: 5986.D DFTPP Injection Date: 10/16/98
 Instrument ID: HPMS7 DFTPP Injection Time: 16:29

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	41.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 Relative abundance	40.5
70	Less than 2.0% of mass 69	0.3 (0.8)1
127	25.0 - 75.0% of mass 198	51.4
197	Less than 1.0% of mass 198	0.9
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 30.0% of mass 198	25.3
365	Greater than 0.75% of mass 198	2.9
441	Present, but less than mass 443	9.3
442	40.0 - 110.0% of mass 198	64.3
443	15.0 - 24.0% of mass 442	12.9 (20.0)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
19 CAMO-98-0045	09-541-09 4X SOIL	6005.D	10/17/98	04:29

6B
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Kemron Contract: 779710014-8M
 Lab Code: _____ Case No.: 09-522 SAS No.: _____ SDG No.: _____
 Instrument ID: HPMS7 Calibration Date(s): 10/13/98 10/13/98
 Calibration Times: 12:57 16:48

LAB FILE ID:		RRF4	=	5901.D	RRF20	=	5903.D	RRF120 = 5906.D							
RRF50		=	5900.D	RRF80	=	5904.D	RRF100 = 5905.D								
COMPOUND		RRF4		RRF20		RRF50		RRF80		RRF100		RRF120		$\overline{\text{RRF}}$	% RSD
n-Nitrosodimethylamine		0.979		1.015		0.991		1.003		0.992		0.953		0.989	2.2
Aniline		1.702		1.805		1.772		1.688		1.683		1.610		1.710	4.1
Phenol	*	2.180		2.109		1.895		1.737		1.670		1.604		1.866	12.7
bis-(2-Chloroethyl)ether	*	1.591		1.546		1.421		1.370		1.298		1.230		1.409	9.9
2-Chlorophenol	*	1.655		1.627		1.513		1.469		1.428		1.380		1.512	7.3
1,3-Dichlorobenzene	*	1.842		1.730		1.586		1.540		1.509		1.486		1.616	8.7
1,4-Dichlorobenzene	*	1.845		1.745		1.602		1.556		1.533		1.537		1.636	7.9
Benzyl Alcohol		1.015		1.034		0.977		0.939		0.912		0.877		0.959	6.3
1,2-Dichlorobenzene	*	1.739		1.639		1.506		1.461		1.425		1.411		1.530	8.6
2-Methylphenol	*	1.267		1.222		1.100		1.039		1.007		0.968		1.101	10.9
Bis(2-chloroisopropyl)ether	*	1.751		1.691		1.597		1.488		1.437		1.353		1.553	9.9
4-Methylphenol	*	1.806		1.766		1.602		1.513		1.449		1.412		1.591	10.3
n-Nitroso-di-n-propylamine	*	1.134		1.067		1.019		0.974		0.952		0.924		1.012	7.7
Hexachloroethane	*	0.702		0.669		0.614		0.588		0.572		0.549		0.615	9.6
Nitrobenzene	*	0.456		0.441		0.395		0.360		0.343		0.323		0.386	13.9
Isophorone	*	0.762		0.720		0.653		0.615		0.590		0.573		0.652	11.5
2-Nitrophenol	*	0.254		0.253		0.216		0.208		0.203		0.197		0.222	11.3
2,4-Dimethylphenol	*	0.374		0.348		0.312		0.298		0.290		0.288		0.318	11.0
bis(2-chloroethoxy)methane	*	0.483		0.455		0.409		0.375		0.359		0.348		0.405	13.5
Benzoic Acid		0.124		0.215		0.234		0.254		0.254		0.266		0.224	23.4
2,4-Dichlorophenol	*	0.337		0.328		0.305		0.296		0.288		0.292		0.308	6.6
1,2,4-Trichlorobenzene	*	0.389		0.368		0.338		0.331		0.325		0.330		0.347	7.4
Naphthalene	*	1.287		1.157		1.024		0.929		0.897		0.872		1.027	16.0
4-Chloroaniline		0.392		0.334		0.310		0.359		0.374		0.368		0.356	8.3
Hexachlorobutadiene	*	0.217		0.205		0.193		0.197		0.196		0.201		0.202	4.2
4-chloro-3methylphenol	*	0.340		0.338		0.308		0.293		0.281		0.276		0.306	9.1
2-Methylnaphthalene	*	0.819		0.747		0.666		0.633		0.623		0.617		0.684	11.9
Hexachlorocyclopentadiene	*	0.186		0.306		0.321		0.348		0.349		0.355		0.311	20.6
2,4,6-Trichlorophenol	*	0.449		0.441		0.422		0.418		0.411		0.417		0.426	3.5
2,4,5-Trichlorophenol	*	0.480		0.479		0.452		0.452		0.439		0.443		0.457	3.9
2-Chloronaphthalene	*	1.370		1.280		1.166		1.117		1.090		1.092		1.186	9.7
2-Nitroaniline		0.400		0.399		0.381		0.366		0.358		0.345		0.375	6.0
Dimethylphthalate		1.545		1.404		1.271		1.214		1.189		1.194		1.303	11.0
Acenaphthylene	*	2.263		2.070		1.871		1.713		1.617		1.539		1.846	15.1
2,6-Dinitrotoluene	*	0.335		0.336		0.317		0.307		0.295		0.286		0.312	6.5
3-Nitroaniline				0.235		0.177		0.219		0.236		0.274		0.228	15.4
Acenaphthene	*	1.370		1.211		1.098		1.043		1.029		1.032		1.130	12.0
2,4-Dinitrophenol	*			0.145		0.181		0.212		0.211		0.226		0.195	16.6
4-Nitrophenol	*	0.214		0.237		0.243		0.239		0.232		0.238		0.234	4.5

* Compounds with required minimum RRF and maximum %RSD values.
 All other compounds must meet a minimum RRF of 0.010.

FORM VI SV-1

3/90

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6C
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Kemron Contract: 779710014-8M
 Lab Code: _____ Case No.: 09-522 SAS No.: _____ SDG No.: _____
 Instrument ID: HPMS7 Calibration Date(s): 10/13/98 10/13/98
 Calibration Times: 12:57 16:48

LAB FILE ID:		RRF4 = 5901.D	RRF20 = 5903.D	RRF120 =				
RRF50 = 5900.D		RRF80 = 5904.D	RRF100 = 5905.D	5906.D				
COMPOUND		RRF4	RRF20	RRF50	RRF80	RRF100	RRF120	% RSD
Dibenzofuran	*	1.960	1.789	1.610	1.534	1.494	1.483	11.6 *
2,4-Dinitrotoluene	*	0.417	0.437	0.422	0.413	0.398	0.397	3.7 *
Diethylphthalate		1.548	1.408	1.302	1.215	1.157	1.141	12.3
Fluorene	*	1.542	1.373	1.249	1.358	1.358	1.342	6.9 *
4-Chlorophenyl-phenylether	*	0.768	0.692	0.659	0.735	0.735	0.728	5.3 *
4-Nitroaniline		0.303	0.279	0.232	0.213	0.213	0.247	14.8
4,6-Dinitro-2-methylphenol			0.148	0.156	0.167	0.164	0.167	5.3
n-Nitrosodiphenylamine	*	0.649	0.598	0.536	0.504	0.492	0.485	12.1 *
4-Bromophenyl-phenyl ether	*	0.239	0.242	0.233	0.241	0.241	0.251	2.4 *
Hexachlorobenzene	*	0.271	0.267	0.262	0.282	0.286	0.300	5.1 *
Pentachlorophenol	*	0.132	0.163	0.176	0.184	0.180	0.192	12.5 *
Phenanthrene	*	1.409	1.278	1.138	1.087	1.052	1.061	12.2 *
Anthracene	*	1.389	1.297	1.175	1.104	1.075	1.083	10.9 *
Di-n-butylphthalate		1.442	1.374	1.259	1.148	1.095	1.067	12.5
Fluoranthene	*	1.442	1.345	1.250	1.196	1.167	1.194	8.5 *
Pyrene	*	1.530	1.400	1.293	1.251	1.284	1.200	9.0 *
Butylbenzylphthalate		0.678	0.621	0.581	0.538	0.534	0.498	11.5
Benzo(a)anthracene	*	1.412	1.325	1.277	1.278	1.278	1.303	4.0 *
3,3'-Dichlorobenzidine			0.217	0.202	0.204	0.210	0.254	9.9
Chrysene	*	0.995	0.928	0.903	0.881	0.877	0.873	5.1 *
Bis(2-ethylhexyl)phthalate		0.987	0.888	0.816	0.756	0.738	0.713	12.8
Di-n-octylphthalate	*	1.726	1.590	1.462	1.322	1.289	1.195	14.0 *
Benzo(b)fluoranthene	*	1.392	1.396	1.392	1.460	1.380	1.410	2.0 *
Benzo(k)fluoranthene	*	1.389	1.315	1.300	1.254	1.306	1.410	4.4 *
Benzo(a)pyrene	*	1.299	1.245	1.234	1.243	1.240	1.225	2.1 *
Indeno(1,2,3-cd)pyrene	*	1.390	1.370	1.372	1.459	1.451	1.473	3.3 *
Dibenz(a,h)anthracene	*	0.933	0.929	0.940	1.002	1.009	1.028	4.6 *
Benzo(g,h,i)perylene	*	1.243	1.209	1.194	1.247	1.246	1.262	2.1 *
2-Fluorophenol	*	1.566	1.631	1.545	1.540	1.517	1.428	4.3 *
Phenol-d5	*	1.980	1.874	1.686	1.578	1.531	1.486	11.8 *
Nitrobenzene-d5	*	0.456	0.438	0.399	0.377	0.362	0.347	10.9 *
2-Fluorobiphenyl	*	1.583	1.426	1.308	1.261	1.235	1.238	10.3 *
2,4,6-Tribromophenol		0.190	0.204	0.207	0.232	0.237	0.256	11.1
Terphenyl-d14	*	0.924	0.908	0.878	0.917	0.960	0.919	2.9 *

(1) Cannot be separated from Diphenylamine

* Compounds with required minimum RRF and maximum %RSD values.

All other compounds must meet a minimum RRF of 0.010.

FORM VI SV-2

3/90
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7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Kemron Contract: 779710014-8M
 Lab Code: _____ Case No.: 09-522 SAS No.: _____ SDG No.: _____
 Instrument ID: HPMS7 Calibration Date: 10/13/98 Time: 12:57
 Lab File ID: 5900.D Init. Calib. Date(s): 10/13/98 10/13/98
 Init. Calib. Times: 12:57 16:48

COMPOUND	RRF	RRF50	MIN RRF	% D	MAX % D
n-Nitrosodimethylamine	0.989	0.991		-0.2	
Aniline	1.710	1.772		-3.6	
Phenol	1.866	1.895	0.800	-1.6	20.0
bis-(2-Chloroethyl)ether	1.409	1.421	0.700	-0.8	25.0
2-Chlorophenol	1.512	1.513	0.800	0.0	25.0
1,3-Dichlorobenzene	1.616	1.586	0.600	1.8	25.0
1,4-Dichlorobenzene	1.636	1.602	0.500	2.1	20.0
Benzyl Alcohol	0.959	0.977		-1.9	
1,2-Dichlorobenzene	1.530	1.506	0.400	1.6	20.0
2-Methylphenol	1.101	1.100	0.700	0.1	25.0
Bis(2-chloroisopropyl)ether	1.553	1.597	0.100	-2.8	0.0
4-Methylphenol	1.591	1.602	0.600	-0.7	25.0
n-Nitroso-di-n-propylamine	1.012	1.019	0.050	-0.8	25.0
Hexachloroethane	0.615	0.614	0.300	0.3	25.0
Nitrobenzene	0.386	0.395	0.200	-2.1	25.0
Isophorone	0.652	0.653	0.400	-0.1	25.0
2-Nitrophenol	0.222	0.216	0.100	2.6	20.0
2,4-Dimethylphenol	0.318	0.312	0.200	1.9	25.0
bis(2-chloroethoxy)methane	0.405	0.409	0.300	-1.0	25.0
Benzoic Acid	0.224	0.234		-4.2	
2,4-Dichlorophenol	0.308	0.305	0.200	1.0	20.0
1,2,4-Trichlorobenzene	0.347	0.338	0.200	2.6	25.0
Naphthalene	1.027	1.024	0.700	0.4	25.0
4-Chloroaniline	0.356	0.310		13.1	
Hexachlorobutadiene	0.202	0.193	0.100	4.2	20.0
4-chloro-3methylphenol	0.306	0.308	0.200	-0.6	20.0
2-Methylnaphthalene	0.684	0.666	0.400	2.7	25.0
Hexachlorocyclopentadiene	0.311	0.321	0.050	-3.3	25.0
2,4,6-Trichlorophenol	0.426	0.422	0.200	1.0	20.0
2,4,5-Trichlorophenol	0.457	0.452	0.200	1.3	25.0
2-Chloronaphthalene	1.186	1.166	0.800	1.7	25.0
2-Nitroaniline	0.375	0.381		-1.6	
Dimethylphthalate	1.303	1.271		2.5	
Acenaphthylene	1.846	1.871	0.900	-1.4	25.0
2,6-Dinitrotoluene	0.312	0.317	0.200	-1.3	25.0
3-Nitroaniline	0.228	0.177		22.3	
Acenaphthene	1.130	1.098	0.800	2.9	20.0
2,4-Dinitrophenol	0.195	0.181	0.050	7.3	0.0
4-Nitrophenol	0.234	0.243	0.050	-4.0	0.0

All other compounds must meet a minimum RRF of 0.010.

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Kemron Contract: 7797I0014-8M
 Lab Code: _____ Case No.: 09-522 SAS No.: _____ SDG No.: _____
 Instrument ID: HPMS7 Calibration Date: 10/13/98 Time: 12:57
 Lab File ID: 5900.D Init. Calib. Date(s): 10/13/98 10/13/98
 Init. Calib. Times: 12:57 16:48

COMPOUND	RRF	RRF50	MIN RRF	% D	MAX % D
Dibenzofuran	1.645	1.610	0.800	2.1	25.0
2,4-Dinitrotoluene	0.414	0.422	0.200	-2.0	25.0
Diethylphthalate	1.295	1.302		-0.5	
Fluorene	1.371	1.249	0.900	8.8	25.0
4-Chlorophenyl-phenylether	0.720	0.659	0.400	8.4	25.0
4-Nitroaniline	0.248	0.232		6.5	
4,6-Dinitro-2-methylphenol	0.160	0.156		3.0	
n-Nitrosodiphenylamine	0.544	0.536		1.6	
4-Bromophenyl-phenyl ether	0.241	0.233	0.100	3.4	25.0
Hexachlorobenzene	0.278	0.262	0.100	5.8	25.0
Pentachlorophenol	0.171	0.176	0.050	-2.7	20.0
Phenanthrene	1.171	1.138	0.700	2.8	25.0
Anthracene	1.187	1.175	0.700	1.1	25.0
Di-n-butylphthalate	1.231	1.259		-2.3	
Fluoranthene	1.266	1.250	0.600	1.2	20.0
Pyrene	1.326	1.293	0.600	2.5	25.0
Butylbenzylphthalate	0.575	0.581		-1.0	
Benzo(a)anthracene	1.312	1.277	0.800	2.7	25.0
3,3'-Dichlorobenzidine	0.217	0.202		7.0	
Chrysene	0.910	0.903	0.700	0.7	25.0
Bis(2-ethylhexyl)phthalate	0.817	0.816		0.1	
Di-n-octylphthalate	1.430	1.462		-2.2	
Benzo(b)fluoranthene	1.405	1.392	0.700	0.9	25.0
Benzo(k)fluoranthene	1.329	1.300	0.700	2.2	25.0
Benzo(a)pyrene	1.248	1.234	0.700	1.1	20.0
Indeno(1,2,3-cd)pyrene	1.419	1.372	0.500	3.3	25.0
Dibenz(a,h)anthracene	0.973	0.940	0.400	3.5	25.0
Benzo(g,h,i)perylene	1.233	1.194	0.500	3.2	25.0
2-Fluorophenol	1.538	1.545	0.600	-0.5	25.0
Phenol-d5	1.689	1.686	0.800	0.2	25.0
Nitrobenzene-d5	0.397	0.399	0.200	-0.7	25.0
2-Fluorobiphenyl	1.342	1.308	0.700	2.5	25.0
2,4,6-Tribromophenol	0.221	0.207		6.2	
Terphenyl-d14	0.917	0.878	0.500	4.3	25.0

(1) Cannot be separated from Diphenylamine
 All other compounds must meet a minimum RRF of 0.010.

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Kemron Contract: 7797I0014-8M
 Lab Code: _____ Case No.: 09-522 SAS No.: _____ SDG No.: _____
 Instrument ID: HPMS7 Calibration Date: 10/16/98 Time: 10:33
 Lab File ID: 5979.D Init. Calib. Date(s): 10/13/98 10/13/98
 Init. Calib. Times: 12:57 16:48

COMPOUND	RRF	RRF50	MIN RRF	% D	MAX % D
n-Nitrosodimethylamine	0.989	0.956		3.3	
Aniline	1.710	1.727		-1.0	
Phenol	1.866	1.838	0.800	1.5	20.0
bis-(2-Chloroethyl)ether	1.409	1.404	0.700	0.4	25.0
2-Chlorophenol	1.512	1.516	0.800	-0.3	25.0
1,3-Dichlorobenzene	1.616	1.587	0.600	1.8	25.0
1,4-Dichlorobenzene	1.636	1.588	0.500	3.0	20.0
Benzyl Alcohol	0.959	0.951		0.8	
1,2-Dichlorobenzene	1.530	1.508	0.400	1.5	20.0
2-Methylphenol	1.101	1.065	0.700	3.2	25.0
Bis(2-chloroisopropyl)ether	1.553	1.549	0.100	0.2	0.0
4-Methylphenol	1.591	1.609	0.600	-1.1	25.0
n-Nitroso-di-n-propylamine	1.012	1.008	0.050	0.4	25.0
Hexachloroethane	0.615	0.618	0.300	-0.4	25.0
Nitrobenzene	0.386	0.389	0.200	-0.7	25.0
Isophorone	0.652	0.651	0.400	0.2	25.0
2-Nitrophenol	0.222	0.219	0.100	1.2	20.0
2,4-Dimethylphenol	0.318	0.299	0.200	6.0	25.0
bis(2-chloroethoxy)methane	0.405	0.405	0.300	-0.1	25.0
Benzoic Acid	0.224	0.250		-11.3	
2,4-Dichlorophenol	0.308	0.316	0.200	-2.7	20.0
1,2,4-Trichlorobenzene	0.347	0.342	0.200	1.3	25.0
Naphthalene	1.027	0.995	0.700	3.1	25.0
4-Chloroaniline	0.356	0.386		-8.3	
Hexachlorobutadiene	0.202	0.202	0.100	0.0	20.0
4-chloro-3methylphenol	0.306	0.325	0.200	-6.1	20.0
2-Methylnaphthalene	0.684	0.668	0.400	2.4	25.0
Hexachlorocyclopentadiene	0.311	0.347	0.050	-11.5	25.0
2,4,6-Trichlorophenol	0.426	0.427	0.200	-0.1	20.0
2,4,5-Trichlorophenol	0.457	0.465	0.200	-1.7	25.0
2-Chloronaphthalene	1.186	1.144	0.800	3.6	25.0
2-Nitroaniline	0.375	0.383		-2.1	
Dimethylphthalate	1.303	1.263		3.1	
Acenaphthylene	1.846	1.857	0.900	-0.6	25.0
2,6-Dinitrotoluene	0.312	0.322	0.200	-3.1	25.0
3-Nitroaniline	0.228	0.254		-11.2	
Acenaphthene	1.130	1.091	0.800	3.5	20.0
2,4-Dinitrophenol	0.195	0.202	0.050	-3.6	0.0
4-Nitrophenol	0.234	0.264	0.050	-12.9	0.0

All other compounds must meet a minimum RRF of 0.010.

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Kemron Contract: 7797I0014-8M
 Lab Code: _____ Case No.: 09-522 SAS No.: _____ SDG No.: _____
 Instrument ID: HPMS7 Calibration Date: 10/16/98 Time: 10:33
 Lab File ID: 5979.D Init. Calib. Date(s): 10/13/98 10/13/98
 Init. Calib. Times: 12:57 16:48

COMPOUND	RRF	RRF50	MIN RRF	% D	MAX % D
Dibenzofuran	1.645	1.612	0.800	2.0	25.0
2,4-Dinitrotoluene	0.414	0.428	0.200	-3.4	25.0
Diethylphthalate	1.295	1.291		0.3	
Fluorene	1.371	1.249	0.900	8.8	25.0
4-Chlorophenyl-phenylether	0.720	0.669	0.400	7.1	25.0
4-Nitroaniline	0.248	0.249		-0.4	
4,6-Dinitro-2-methylphenol	0.160	0.162		-1.1	
n-Nitrosodiphenylamine	0.544	0.553		-1.6	
4-Bromophenyl-phenyl ether	0.241	0.238	0.100	1.5	25.0
Hexachlorobenzene	0.278	0.268	0.100	3.6	25.0
Pentachlorophenol	0.171	0.174	0.050	-1.8	20.0
Phenanthrene	1.171	1.113	0.700	4.9	25.0
Anthracene	1.187	1.129	0.700	4.9	25.0
Di-n-butylphthalate	1.231	1.221		0.8	
Fluoranthene	1.266	1.221	0.600	3.6	20.0
Pyrene	1.326	1.293	0.600	2.5	25.0
Butylbenzylphthalate	0.575	0.574		0.1	
Benzo(a)anthracene	1.312	1.249	0.800	4.8	25.0
3,3'-Dichlorobenzidine	0.217	0.271		-24.5	
Chrysene	0.910	0.899	0.700	1.2	25.0
Bis(2-ethylhexyl)phthalate	0.817	0.796		2.5	
Di-n-octylphthalate	1.430	1.452		-1.5	
Benzo(b)fluoranthene	1.405	1.438	0.700	-2.3	25.0
Benzo(k)fluoranthene	1.329	1.276	0.700	4.0	25.0
Benzo(a)pyrene	1.248	1.239	0.700	0.7	20.0
Indeno(1,2,3-cd)pyrene	1.419	1.368	0.500	3.6	25.0
Dibenz(a,h)anthracene	0.973	0.941	0.400	3.3	25.0
Benzo(g,h,i)perylene	1.233	1.182	0.500	4.2	25.0
2-Fluorophenol	1.538	1.539	0.600	-0.1	25.0
Phenol-d5	1.689	1.668	0.800	1.3	25.0
Nitrobenzene-d5	0.397	0.399	0.200	-0.7	25.0
2-Fluorobiphenyl	1.342	1.277	0.700	4.8	25.0
2,4,6-Tribromophenol	0.221	0.219		1.0	
Terphenyl-d14	0.917	0.905	0.500	1.3	25.0

(1) Cannot be separated from Diphenylamine
 All other compounds must meet a minimum RRF of 0.010.

FORM VII SV-2

3/90

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Kemron Contract: 7797I0014-8M
 Lab Code: _____ Case No.: 09-522 SAS No.: _____ SDG No.: _____
 Instrument ID: HPMS7 Calibration Date: 10/16/98 Time: 16:49
 Lab File ID: 5987.D Init. Calib. Date(s): 10/13/98 10/13/98
 Init. Calib. Times: 12:57 16:48

COMPOUND	RRF	RRF50	MIN RRF	% D	MAX % D
n-Nitrosodimethylamine	0.989	0.960		2.9	
Aniline	1.710	1.590		7.0	
Phenol	1.866	1.794	0.800	3.8	20.0
bis-(2-Chloroethyl)ether	1.409	1.397	0.700	0.9	25.0
2-Chlorophenol	1.512	1.489	0.800	1.5	25.0
1,3-Dichlorobenzene	1.616	1.574	0.600	2.5	25.0
1,4-Dichlorobenzene	1.636	1.558	0.500	4.8	20.0
Benzyl Alcohol	0.959	0.959		0.0	
1,2-Dichlorobenzene	1.530	1.502	0.400	1.8	20.0
2-Methylphenol	1.101	1.069	0.700	2.9	25.0
Bis(2-chloroisopropyl)ether	1.553	1.555	0.100	-0.1	0.0
4-Methylphenol	1.591	1.561	0.600	1.9	25.0
n-Nitroso-di-n-propylamine	1.012	1.009	0.050	0.2	25.0
Hexachloroethane	0.615	0.611	0.300	0.8	25.0
Nitrobenzene	0.386	0.393	0.200	-1.6	25.0
Isophorone	0.652	0.654	0.400	-0.2	25.0
2-Nitrophenol	0.222	0.219	0.100	1.5	20.0
2,4-Dimethylphenol	0.318	0.306	0.200	4.0	25.0
bis(2-chloroethoxy)methane	0.405	0.404	0.300	0.1	25.0
Benzoic Acid	0.224	0.246		-9.7	
2,4-Dichlorophenol	0.308	0.314	0.200	-1.9	20.0
1,2,4-Trichlorobenzene	0.347	0.347	0.200	0.0	25.0
Naphthalene	1.027	1.000	0.700	2.7	25.0
4-Chloroaniline	0.356	0.343		3.6	
Hexachlorobutadiene	0.202	0.203	0.100	-0.5	20.0
4-chloro-3methylphenol	0.306	0.317	0.200	-3.7	20.0
2-Methylnaphthalene	0.684	0.671	0.400	1.9	25.0
Hexachlorocyclopentadiene	0.311	0.370	0.050	-18.9	25.0
2,4,6-Trichlorophenol	0.426	0.429	0.200	-0.7	20.0
2,4,5-Trichlorophenol	0.457	0.462	0.200	-1.1	25.0
2-Chloronaphthalene	1.186	1.148	0.800	3.2	25.0
2-Nitroaniline	0.375	0.385		-2.6	
Dimethylphthalate	1.303	1.267		2.8	
Acenaphthylene	1.846	1.850	0.900	-0.3	25.0
2,6-Dinitrotoluene	0.312	0.325	0.200	-4.0	25.0
3-Nitroaniline	0.228	0.221		3.1	
Acenaphthene	1.130	1.077	0.800	4.7	20.0
2,4-Dinitrophenol	0.195	0.205	0.050	-5.4	0.0
4-Nitrophenol	0.234	0.257	0.050	-9.7	0.0

All other compounds must meet a minimum RRF of 0.010.

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Kemron Contract: 7797I0014-8M
 Lab Code: _____ Case No.: 09-522 SAS No.: _____ SDG No.: _____
 Instrument ID: HPMS7 Calibration Date: 10/16/98 Time: 16:49
 Lab File ID: 5987.D Init. Calib. Date(s): 10/13/98 10/13/98
 Init. Calib. Times: 12:57 16:48

COMPOUND	RRF	RRF50	MIN RRF	% D	MAX % D
Dibenzofuran	1.645	1.602	0.800	2.6	25.0
2,4-Dinitrotoluene	0.414	0.433	0.200	-4.6	25.0
Diethylphthalate	1.295	1.291		0.3	
Fluorene	1.371	1.267	0.900	7.5	25.0
4-Chlorophenyl-phenylether	0.720	0.673	0.400	6.5	25.0
4-Nitroaniline	0.248	0.253		-2.0	
4,6-Dinitro-2-methylphenol	0.160	0.167		-4.2	
n-Nitrosodiphenylamine	0.544	0.549		-0.9	
4-Bromophenyl-phenyl ether	0.241	0.238	0.100	1.5	25.0
Hexachlorobenzene	0.278	0.264	0.100	5.0	25.0
Pentachlorophenol	0.171	0.187	0.050	-9.5	20.0
Phenanthrene	1.171	1.110	0.700	5.2	25.0
Anthracene	1.187	1.139	0.700	4.1	25.0
Di-n-butylphthalate	1.231	1.214		1.3	
Fluoranthene	1.266	1.232	0.600	2.6	20.0
Pyrene	1.326	1.288	0.600	2.9	25.0
Butylbenzylphthalate	0.575	0.571		0.7	
Benzo(a)anthracene	1.312	1.257	0.800	4.2	25.0
3,3'-Dichlorobenzidine	0.217	0.226		-3.9	
Chrysene	0.910	0.900	0.700	1.0	25.0
Bis(2-ethylhexyl)phthalate	0.817	0.799		2.2	
Di-n-octylphthalate	1.430	1.390		2.8	
Benzo(b)fluoranthene	1.405	1.381	0.700	1.7	25.0
Benzo(k)fluoranthene	1.329	1.277	0.700	3.9	25.0
Benzo(a)pyrene	1.248	1.227	0.700	1.7	20.0
Indeno(1,2,3-cd)pyrene	1.419	1.421	0.500	-0.2	25.0
Dibenz(a,h)anthracene	0.973	0.978	0.400	-0.4	25.0
Benzo(g,h,i)perylene	1.233	1.226	0.500	0.6	25.0
2-Fluorophenol	1.538	1.519	0.600	1.2	25.0
Phenol-d5	1.689	1.630	0.800	3.5	25.0
Nitrobenzene-d5	0.397	0.401	0.200	-1.2	25.0
2-Fluorobiphenyl	1.342	1.291	0.700	3.8	25.0
2,4,6-Tribromophenol	0.221	0.221		0.2	
Terphenyl-d14	0.917	0.904	0.500	1.4	25.0

(1) Cannot be separated from Diphenylamine
 All other compounds must meet a minimum RRF of 0.010.

FORM VII SV-2

3/90

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Kemron Contract: 779710014-8M
 Lab Code: _____ Case No.: 09-522 SAS No.: _____ SDG No.: _____
 Lab File ID (Standard): 5979.D Date Analyzed: 10/16/98
 Instrument ID: HPMS7 Time Analyzed: 10:33

	IS1DCB AREA #	RT #	IS2NPT AREA #	RT #	IS3ANT AREA #	RT #
12 HOUR STD	646304	6.34	2512486	8.28	1386551	11.52
UPPER LIMIT	1292608	5.84	5024972	7.78	2773102	11.02
LOWER LIMIT	323152	6.84	1256243	8.78	693276	12.02
EPA SAMPLE NO.						
01 BLK01	522252	6.34	1941269	8.27	1068519	11.52
02 LCS01	493974	6.34	1893027	8.27	1045576	11.51
03 MD21-98-0165	500781	6.34	1871512	8.27	1032649	11.51
04 09-519MS	499796	6.34	1884431	8.27	1043128	11.51
05 09-519MSD	509764	6.34	1912658	8.27	1048811	11.51
06 MD21-98-0166	574895	6.34	2123634	8.27	1176442	11.51

IS1 DCB = 1,4-Dichlorobenzene-d4
 IS2 NPT = Naphthalene-d8
 IS3 ANT = Acenaphthene-d10
 IS4 PHN = Phenanthrene-d10
 IS5 CRY = Chrysene-d12
 IS6 PRY = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Kemron Contract: 7797I0014-8M
 Lab Code: _____ Case No.: 09-522 SAS No.: _____ SDG No.: _____
 Lab File ID (Standard): 5979.D Date Analyzed: 10/16/98
 Instrument ID: HPMS7 Time Analyzed: 10:33

	IS4PHN AREA #	RT #	IS5CRY AREA #	RT #	IS6PRY AREA #	RT #
12 HOUR STD	2387408	14.44	2375713	19.85	2228077	23.02
UPPER LIMIT	4774816	13.94	4751426	19.35	4456154	22.52
LOWER LIMIT	1193704	14.94	1187857	20.35	1114039	23.52
EPA SAMPLE NO.						
01 BLK01	1835154	14.43	1833635	19.83	1879257	23.00
02 LCS01	1781381	14.43	1831472	19.84	1952681	23.01
03 MD21-98-0165	1769365	14.43	1751183	19.83	1844611	23.00
04 09-519MS	1768381	14.43	1816540	19.83	1958272	23.00
05 09-519MSD	1803846	14.43	1841097	19.83	1970586	23.00
06 MD21-98-0166	2013634	14.43	2073062	19.83	2214644	23.00

IS1 DCB = 1,4-Dichlorobenzene-d4
 IS2 NPT = Naphthalene-d8
 IS3 ANT = Acenaphthene-d10
 IS4 PHN = Phenanthrene-d10
 IS5 CRY = Chrysene-d12
 IS6 PRY = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
 * Values outside of contract required QC limits

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Kemron Contract: 7797I0014-8M
 Lab Code: _____ Case No.: 09-522 SAS No.: _____ SDG No.: _____
 Lab File ID (Standard): 5987.D Date Analyzed: 10/16/98
 Instrument ID: HPMS7 Time Analyzed: 16:49

	IS1DCB AREA #	RT #	IS2NPT AREA #	RT #	IS3ANT AREA #	RT #
12 HOUR STD	661599	6.35	2532654	8.28	1405430	11.52
UPPER LIMIT	1323198	5.85	5065308	7.78	2810860	11.02
LOWER LIMIT	330800	6.85	1266327	8.78	702715	12.02
EPA SAMPLE NO.						
01 RE15-98-0029	534255	6.34	1990181	8.28	1100639	11.51
02 RE15-98-0030	554103	6.34	2049483	8.27	1134085	11.51
03 RE15-98-0031	528991	6.34	1972629	8.28	1094041	11.51
04 RE15-98-0032	533211	6.35	1965634	8.28	1094570	11.51
05 RE15-98-0033	526025	6.34	1958738	8.28	1097179	11.51
06 RE15-98-0034	544962	6.35	1977555	8.28	1115803	11.51
07 RE15-98-0035	582865	6.34	2167095	8.28	1199848	11.52
08 RE15-98-0036	524944	6.35	1973887	8.28	1093408	11.51
09 RE15-98-0037	565904	6.35	2105639	8.28	1170780	11.51
10 CAMO-98-0037	525520	6.34	1941695	8.28	1102431	11.51
11 CAMO-98-0038	563231	6.34	2067579	8.28	1152849	11.52
12 CAMO-98-0039	547763	6.35	2047517	8.28	1150332	11.51
13 CAMO-98-0040	554039	6.35	2048186	8.28	1154844	11.51
14 CAMO-98-0041	525754	6.34	1965770	8.28	1101425	11.51
15 CAMO-98-0042	557951	6.35	2075963	8.28	1167295	11.52
16 CAMO-98-0043	548634	6.34	2021103	8.28	1131961	11.51
17 CAMO-98-0044	595456	6.34	2202519	8.28	1237789	11.52
18 CAMO-98-0045	538688	6.34	2023923	8.28	1139974	11.52

IS1 DCB = 1,4-Dichlorobenzene-d4
 IS2 NPT = Naphthalene-d8
 IS3 ANT = Acenaphthene-d10
 IS4 PHN = Phenanthrene-d10
 IS5 CRY = Chrysene-d12
 IS6 PRY = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Kemron Contract: 7797I0014-8M
 Lab Code: _____ Case No.: 09-522 SAS No.: _____ SDG No.: _____
 Lab File ID (Standard): 5987.D Date Analyzed: 10/16/98
 Instrument ID: HPMS7 Time Analyzed: 16:49

	IS4PHN AREA #	RT #	IS5CRY AREA #	RT #	IS6PRY AREA #	RT #
12 HOUR STD	2417735	14.44	2424553	19.84	2402887	23.02
UPPER LIMIT	4835470	13.94	4849106	19.34	4805774	22.52
LOWER LIMIT	1208868	14.94	1212277	20.34	1201444	23.52
EPA SAMPLE NO.						
01 RE15-98-0029	1856896	14.43	1883595	19.83	1954367	23.00
02 RE15-98-0030	1917943	14.43	1939372	19.83	2064240	23.01
03 RE15-98-0031	1856785	14.43	1877076	19.83	1947810	23.01
04 RE15-98-0032	1878190	14.43	1908269	19.83	1992365	23.00
05 RE15-98-0033	1863146	14.43	1892504	19.83	1993987	23.01
06 RE15-98-0034	1883985	14.43	1912780	19.83	2025569	23.01
07 RE15-98-0035	2054572	14.43	2097930	19.83	2235472	23.01
08 RE15-98-0036	1862421	14.43	1894901	19.83	1994131	23.00
09 RE15-98-0037	1994903	14.43	2045198	19.84	2140986	23.01
10 CAMO-98-003	1871102	14.43	1900094	19.83	2038385	23.01
11 CAMO-98-003	1989347	14.43	2062175	19.84	2176407	23.02
12 CAMO-98-003	1981850	14.43	2054698	19.84	2138681	23.01
13 CAMO-98-004	1967549	14.43	2017198	19.84	2093147	23.01
14 CAMO-98-004	1883171	14.43	1956896	19.84	1990086	23.01
15 CAMO-98-004	1984973	14.43	2050367	19.84	2061867	23.02
16 CAMO-98-004	1930913	14.43	1978021	19.84	1940390	23.01
17 CAMO-98-004	2127184	14.43	2199929	19.84	2076913	23.02
18 CAMO-98-004	1924839	14.43	2032014	19.84	1878310	23.01

IS1 DCB = 1,4-Dichlorobenzene-d4
 IS2 NPT = Naphthalene-d8
 IS3 ANT = Acenaphthene-d10
 IS4 PHN = Phenanthrene-d10
 IS5 CRY = Chrysene-d12
 IS6 PRY = Perylene-d12

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 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

Semivolatile Laboratory Runlog

37

Date 10/13/98Instrument ID HPM57Column ID DE5Analyst MLSData Subdirectory 101398

Run #	Sample Description	Dilution Factor	Method	Comments
5899	50 PPM DETPP S37-32	1	DETPP	✓
5900	50 PPM BNA STD S38-11		BNA	
5901	4 PPM BNA STD S38-11		BNA	
5902	10 PPM BNA STD S38-11		BNA	
5903	20 PPM BNA STD S38-11		BNA	
5904	30 PPM BNA STD S38-11		BNA	
5905	100 PPM BNA STD S38-11		BNA	
5906	120 PPM BNA STD S38-11		BNA	
5907	140 PPM BNA STD S38-11		BNA	
5908	50 PPM ALT BNA STD S38-06		BNA	
5909	BLK 10/9/98 V102 P50 Soil		BNA	
5910	LC5 10/9/98 V102 P50 Soil		BNA	
5911	10-201-01 Soil		BNA	
5912	10-201-02 Soil		BNA	RR No Internal added
5913	10-201-03 Soil		BNA	✓
5914	50 PPM DETPP S37-32		BNA	
5915	50 PPM BNA S38-11		DETPP	
5916	10-201-07 Soil		BNA	
5917	10-201-08 Soil			
5918	10-201-09 Soil			
5919	10-201-11 Soil			
5920	10-201-12 Soil			
5921	10-201-13 Soil			
5922	1-14 Soil			
5923	1-15 Soil			

Comments:

Reviewed by:

✓ = Compliant Analysis, Reanalysis complete
RR = Retun

RR# = Retun at a specified level

IS or SS = Interference with internal and / or surrogate standards

SMI = Sample Matrix Interference

MT = Missed Tune, beyond method tuning requirements

RE = Re-extraction analysis

CC = Continuing calibration failed

Semivolatle Laboratory Runlog

43

Date 10/16/98 Column ID D35 Analyst MS
 Instrument ID HPMS7 Data Subdirectory 101698

Run #	Sample Description	Dilution Factor	Method	Comments
5978	50 PPM DETPP 537-32	1	DETPP	
5979	50 PPM BNA STD 538-11	1	BNA	
5980	BLK 9/29/98 V401P64 SOIL	1	BNA	
5981	LCS 9/29/98 V402P64 SOIL	4		
5982	09-0519-01 4X SOIL	1		
5983	09-519-01MS 4X SOIL	1		
5984	09-519-01MSD 4X SOIL	1		
5985	09-519-02 SOIL	1		
5986	50 PPM DETPP 537-32	1	DETPP	
5987	50 PPM BNA STD 538-11	1	BNA	
5988	09-522-01 SOIL	1		
5989	-02 SOIL	1		
5990	-03 SOIL	1		
5991	-04 SOIL	1		
5992	-05 SOIL	1		
5993	-06 SOIL	1		
5994	-07 SOIL	1		
5995	-08 SOIL	1		
5996	-09 SOIL	1		
5997	09-541-01 4X SOIL	4		
5998	-02 SOIL	1		
5999	-03 SOIL	1		
6000	-04 4X SOIL	4		
6001	-05 4X SOIL	4		
6002	-06 SOIL	1		

Comments:

Reviewed by:

✓ = Compliant Analysis, Reanalysis complete
 RR = Rerun

RR# = Rerun at a specified level

IS or SS = Interference with internal and / or surrogate standards

SMI = Sample Matrix Interference
 MT = Missed Tune, beyond method tuning requirements
 RE = Re-extraction analysis
 CC = Continuing calibration failed

4

Comments:

Reviewed by:

Parameter: EST/PCB-5
Analyst(s): SHW
Date: 07-30-18
SOP #: EX102
Spike/Surrogate Analyst: SHW
Florisil Lot #: M0553

Extract Relinquished By: Singh
 Extract Received By: ED
 Date Extract Received: 1-30-98
 Solvent Hexane Lot # B12315
 Solvent _____ Lot # _____

SW-846 METHOD		ON	OFF	ON	OFF
CONT.	3520				
SOX.	3540				
SEP.	3510				
SON.	3550				
WASTE	3580				

Ext Work Group *405-41738*
 Analytical Work Group *46843*

Ext Work Group 106,46788
Analytical Work Group 4684

[illegible]

Reviewed By:

INSTRUMENT : HP 9
 EXT'N DATE : 9/30/98 ANALYST : ECL
 EXT'N BENCH SHT : V101P70 RUN DATE : 9/30/98
 EXT'N WORK GRP : WG46788 ANAL WORK GRP : WG46843

SAMPLE ID : 09-522-01
 SMPL FLNM : 403.D
 MS FLNM : 404.D
 MSD FLNM : 405.D

BLK FLNM : 398.D
 LCS FLNM : 399.D

COMPOUND	RDL	CONCENTRATION, ug/kg						% RECOVERY						PERCENT				Blank LCS Sample MSD
		Blank	LCS	Sample	MS	MSD	Blank	LCS	LCS UCL	LCS Sample	MS	MSD	MS LCL	MS UCL	MS/MSD	RPD	Advisory Limit	
ALPHA-BHC	1.7	ND	11.3	ND	11.4	12.8	NA	67.5	37	134	NA	68.3	76.8	51	145	11.6	0-43	
GAMMA-BHC	1.7	ND	12.7	ND	13.0	14.4	NA	76.0	32	127	NA	77.9	86.5	54	134	10.5	0-18	
BETA-BHC	1.7	ND	12.4	ND	13.3	14.5	NA	74.4	17	147	NA	79.7	86.6	51	129	8.3	0-28	
HEPTACHLOR	1.7	ND	12.8	ND	13.3	14.7	NA	76.6	34	111	NA	79.9	88.1	40	139	9.7	0-37	
DELTA-BHC	1.7	ND	13.3	ND	13.6	15.0	NA	79.4	19	140	NA	81.4	89.6	56	138	9.5	0-78	
ALDRIN	1.7	ND	12.6	ND	13.4	14.7	NA	76.4	42	122	NA	80.3	88.2	26	143	9.4	0-38	
HEPTACHLOR EPOXIDE	1.7	ND	13.1	ND	13.5	15.0	NA	78.5	37	142	NA	81.1	90.1	51	135	10.5	0-40	
GAMMA-CHLORDANE	1.7	ND	NA	ND	NA	NA	NA	NA	45	119	NA	NA	NA	45	115	NA	0-40	
ALPHA-CHLORDANE	1.7	ND	NA	ND	NA	NA	NA	NA	54	119	NA	NA	NA	45	115	NA	0-17	
ENDOSULFAN I	1.7	ND	12.3	ND	12.7	14.0	NA	73.7	45	153	NA	76.0	84.1	37	123	10.0	0-22	
4,4-DDE	3.3	ND	13.8	ND	14.3	15.7	NA	82.9	30	145	NA	85.5	94.0	64	152	9.5	0-23	
DIELDRIN	3.3	ND	13.9	ND	14.4	15.8	NA	83.1	36	146	NA	86.1	94.8	23	171	9.8	0-20	
ENDRIN	3.3	ND	13.8	ND	14.2	15.8	NA	82.6	30	147	NA	84.8	94.9	56	154	11.2	0-28	
4,4-DDD	3.3	ND	13.7	ND	14.0	15.5	NA	82.1	31	141	NA	84.1	82.9	58	179	8.9	0-30	
ENDOSULFAN II	3.3	ND	11.8	ND	11.9	13.3	NA	70.4	D	202	NA	71.2	79.6	21	117	11.2	0-18	
4,4-DDT	3.3	ND	14.8	ND	15.2	16.8	NA	88.7	28	160	NA	90.9	100.5	42	168	10.0	0-22	
ENDRIN ALDEHYDE	3.3	ND	9.87	ND	9.65	11.6	NA	59.1	NA	NA	NA	57.8	69.3	21	115	18.2	0-40	
ENDOSULFAN SULFATE	3.3	ND	9.54	ND	9.27	10.9	NA	57.1	26	144	NA	55.5	65.5	31	117	16.4	0-30	
METHOXYCHLOR	17	ND	15.2	ND	15.5	17.2	NA	91.3	NA	NA	NA	93.1	103.0	26	196	10.1	0-19	
ENDRIN KETONE	3.3	ND	12.8	ND	12.5	14.1	NA	76.4	NA	NA	NA	75.1	85	NA	NA	12.0		
Tech-CHLORDANE	33	ND	NA	ND	NA	NA	NA	NA	45	119	NA	NA	NA	45	115	NA	0-40	
TOXAPHENE	33	ND	NA	ND	NA	NA	NA	NA	41	126	NA	NA	NA	40	125	NA	0-40	
SURROGATES																		
2,4,5-TRICHLORO-M-XYLENE		14.5	14.5	10.7	14.1	14.3	72.6	72.5	13	154	53.6	70.3	71.6	13	154			
DECAChLOROBIHENYL		19.6	19.8	15.8	19.0	18.8	97.9	99.0	25	140	79.0	94.8	94.2	25	140			

NOTES & DEFINITIONS:

LCS, MS & MSD spiked at 16.7 ug/kg

SURROGATES spiked at 6.67 ug/kg

NA = NOT APPLICABLE

DL = DILUTED OUT

ND = NOT DETECTED

RDL=REPORTING DETECTION LIMIT

LCS=LABORATORY CONTROL SAMPLE

MS=MATRIX SPIKE

MSD=MATRIX SPIKE DUPLICATE

INSTRUMENT : HP 9
EXTN DATE : 9/30/98 ANALYST : ECL
EXTN BENCH SHT : V101P70 RUN DATE : 9/30/98
EXTN WORK GRP : WG46788 ANAL WORK GRP : WG46843
BLK FLNM : 398.D
LCS FLNM : 399.D
MS FLNM : 404.D
MSD FLNM : 405.D
SMPL FLNM : 403.D
SAMPLE ID : 09-522-01

COMPOUND	RDL	CONCENTRATION, ug/kg					% RECOVERY										PERCENT					RPD	Blank MS Sample CS MSD		
		Blank	LCS	Sample	MS	MSD	Blank	LCS	LCL	LCS	LCL	UCL	Sample	MS	MSD	MS	LCL	UCL	MS	MS	MSMS			D	RPD	Advisory Limit
ALPHA-BHC GAMMA-BHC BETA-BHC HEPTACHLOR DELTA-BHC ALDRIN HEPTACHLOR EPOXIDE GAMMA-CHLORDANE ALPHA-CHLORDANE ENDOSULFAN I 4,4-DDE DIELDRIN ENDRIN 4,4-DDD ENDOSULFAN II 4,4-DDT ENDRIN ALDEHYDE ENDOSULFAN SULFATE METHOXYCHLOR ENDRIN KETONE Tech-CHLORDANE TOXAPHENE	1.7	ND	12.2	ND	12.5	13.7	NA	72.8	37	134	NA	74.7	82.1	51	145	9.5	0.43								
	1.7	ND	12.6	ND	12.4	13.0	NA	75.3	32	127	NA	74.3	77.8	54	134	4.5	0.16								
	1.7	ND	12.4	ND	12.9	14.0	NA	74.3	17	147	NA	77.4	83.9	51	129	8.0	0.28								
	1.7	ND	12.6	ND	13.1	14.2	NA	75.3	34	111	NA	78.6	84.9	40	139	7.5	0.37								
	1.7	ND	13.6	ND	14.1	15.3	NA	81.2	19	140	NA	84.4	91.5	56	138	8.1	0.78								
	1.7	ND	12.8	ND	13.4	14.6	NA	76.9	42	122	NA	80.1	87.6	26	143	8.9	0.38								
	1.7	ND	13.5	ND	14.0	15.5	NA	81.1	37	142	NA	83.9	92.9	51	135	10.2	0.40								
	1.7	ND	NA	ND	NA	NA	NA	NA	46	119	NA	NA	NA	NA	45	115	NA	0.40							
	1.7	ND	NA	ND	NA	NA	NA	NA	54	119	NA	NA	NA	NA	45	115	NA	0.17							
	1.7	ND	13.1	ND	13.54	14.8	NA	78.4	45	153	NA	81	88	37	123	8.7	0.22								
	3.3	ND	14.4	ND	15.0	16.6	NA	86.3	30	145	NA	89.6	99.4	64	152	10.4	0.23								
	3.3	ND	14.8	ND	15.4	17.0	NA	88.4	38	146	NA	91.9	101.7	23	171	10.1	0.20								
	3.3	ND	14.5	ND	15.0	16.7	NA	88.7	30	147	NA	90	100	56	154	10.4	0.28								
3.3	ND	12.0	ND	12.05	13.6	NA	71.9	31	141	NA	72.1	81.4	56	179	12.1	0.30									
3.3	ND	14.1	ND	14.5	15.9	NA	84.4	D	202	NA	86.6	95.4	21	117	9.7	0.18									
3.3	ND	13.9	ND	14.5	16.2	NA	83.3	25	160	NA	87.1	96.9	42	168	10.6	0.22									
3.3	ND	10.7	ND	10.2	12.5	NA	64.2	NA	NA	NA	61.1	75.0	21	115	20.4	0.40									
3.3	ND	9.81	ND	9.4	11.2	NA	57.5	26	144	NA	56.6	67.2	31	117	17.2	0.30									
17	ND	14.9	ND	15.7	17.5	NA	89.5	NA	NA	NA	94.1	105.0	26	196	10.9	0.19									
3.3	ND	11.9	ND	11.8	13.5	NA	71.2	NA	NA	NA	70.7	80.7	NA	NA	13.1										
33	ND	NA	ND	NA	NA	NA	NA	45	119	NA	NA	NA	NA	45	115	NA	0.40								
33	ND	NA	ND	NA	NA	NA	NA	41	126	NA	NA	NA	NA	40	125	NA	0.40								
SURROGATES																									
2,4,5,6-TETRACHLORO-M-XYLENE		14.3	14.2	10.6	13.9	13.9	71.5	71.0	13	154		52.8	69.6	69.7	13	154									
DECACHLOROBIPHENYL		18.9	19.0	14.9	18.2	18.6	94.3	95.1	25	140		74.4	91.0	93.0	25	140									

NOTES & DEFINITIONS:

LCS, MS & MSD spiked at 16.7 ug/kg
SURROGATES spiked at 6.67 ug/kg
NA = NOT APPLICABLE
DL = DILUTED OUT
ND = NOT DETECTED
RDL=REPORTING DETECTION LIMIT

PESTICIDE CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: Kemron Environmental Services

Lab Code:

Instrument ID: HP-9

GC Column: DB 17MS

Case No.

Contract: 7797L0014-8M

SAS No:

SDG. No.

Level: (1)2ppb (2)5ppb (3)20ppb (4)50ppb (5)100ppb (6) 200ppb

Date(s) Analyzed 9/21/98

COMPOUND	RT	RT. WINDOW		CALIBRATION FACTORS						MEAN	%RSD
		FROM	TO	1	2	3	4	5	6		
alpha-BHC	6.95	6.90	7.00	4.653	4.537	4.347	4.069	3.683	3.346	4.106	12.42
gamma-BHC	7.66	7.61	7.71	3.945	3.803	3.635	3.407	3.116	2.836	3.457	12.23
beta-BHC	8.01	7.96	8.06	1.941	1.768	1.564	1.43	1.279	1.189	1.529	18.87
heptachlor	8.19	8.14	8.24	3.912	3.644	3.422	3.199	2.933	2.674	3.297	13.86
delta-BHC	8.55	8.50	8.60	3.216	3.145	3.13	3.002	2.817	2.606	2.986	7.81
aldrin	8.74	8.69	8.79	3.183	3.056	3.017	2.904	2.67	2.489	2.887	9.02
heptachlor epoxide	9.71	9.64	9.78	3.027	2.839	2.653	2.502	2.332	2.153	2.584	12.50
gamma-chlordane	10.03	9.96	10.10	3.002	2.819	2.611	2.457	2.303	2.131	2.554	12.69
alpha-chlordane	10.23	10.16	10.30	2.986	2.762	2.526	2.367	2.198	2.048	2.481	14.15
endosulfan I	10.32	10.25	10.39	2.678	2.536	2.38	2.256	2.118	1.961	2.322	11.43
4,4'-DDE	10.65	10.58	10.72	2.424	2.36	2.359	2.274	2.172	2.033	2.270	6.40
dieldrin	10.82	10.75	10.89	2.533	2.418	2.382	2.307	2.199	2.066	2.318	7.17
endrin	11.39	11.32	11.46	1.933	1.885	1.903	1.858	1.809	1.68	1.845	4.93
4,4'-DDD	11.59	11.52	11.66	1.894	1.908	1.895	1.825	1.754	1.629	1.818	6.01
endosulfan II	11.78	11.71	11.85	2.121	2.096	1.992	1.9	1.823	1.7	1.939	8.40
4,4'-DDT	12.02	11.95	12.09	1.518	1.551	1.651	1.656	1.664	1.577	1.603	3.89
endrin aldehyde	12.21	12.14	12.28	1.758	1.617	1.544	1.425	1.385	1.292	1.504	11.30
endosulfan sulfate	12.44	12.37	12.51	1.888	1.813	1.747	1.693	1.65	1.535	1.721	7.23
methoxychlor	13.21	13.14	13.28	7.866	7.697	7.707	7.402	7.238	6.756	7.444	5.47
endrin ketone	13.47	13.40	13.54	1.847	1.791	1.797	1.718	1.638	1.53	1.720	6.87
tetrachloro-m-xylene	5.70	5.63	5.77	4.04	3.732	3.326	3.032	2.68	2.369	3.197	19.75
decachlorobiphenyl	14.84	14.77	14.91	1.744	1.627	1.453	1.327	1.248	1.163	1.427	15.76

PESTICIDE CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: Kemron Environmental Services

Lab Code:

Instrument ID: HP-9

GC Column: DB XLB

Case No.

Contract: 7797L0014-8M

SAS No:

SDG. No.

Level: (1)2ppb (2)5ppb (3)20ppb (4)50ppb (6)100ppb (6)200ppb

Date(s) Analyzed 9/16/98

COMPOUND	RT	RT. WINDOW		CALIBRATION FACTORS						MEAN	%RSD
		FROM	TO	1	2	3	4	5	6		
alpha-BHC	7.49	7.44	7.54	1.824	1.823	1.78	1.7	1.584	1.463	1.70	8.60
beta-BHC	8.61	8.56	8.66	8.035	7.339	6.476	6.03	5.628	5.261	6.46	16.33
gamma-BHC	8.08	8.03	8.13	1.624	1.531	1.483	1.396	1.299	1.241	1.43	10.13
delta-BHC	9.04	8.99	9.09	1.443	1.453	1.426	1.39	1.316	1.229	1.38	6.36
heptachlor	9.11	9.06	9.16	1.564	1.489	1.397	1.327	1.244	1.161	1.36	11.06
aldrin	9.66	9.61	9.71	1.31	1.285	1.239	1.2	1.139	1.074	1.21	7.41
heptachlor epoxide	10.42	10.35	10.47	1.203	1.146	1.065	1.02	0.972	0.921	1.05	10.07
gamma-chlordane	10.95	10.88	11.00	1.084	1.046	0.988	0.961	0.928	0.887	0.98	7.47
endosulfan I	11.07	11.00	11.12	1.068	0.962	0.92	0.881	0.85	0.82	0.92	9.76
alpha-chlordane	11.03	10.96	11.08	1.041	1.056	0.965	0.946	0.906	0.861	0.96	7.87
4,4'-DDE	11.32	11.25	11.37	9.614	9.49	9.322	9.207	8.966	8.631	9.21	3.91
dieldrin	11.49	11.42	11.54	9.642	9.566	9.355	9.261	9.017	8.686	9.25	3.86
endrin	11.85	11.78	11.90	7.577	7.584	8.137	8.028	7.778	7.598	7.78	3.16
endosulfan II	12.13	12.06	12.18	7.963	7.909	7.637	7.55	7.358	7.101	7.59	4.32
4,4'-DDD	12.28	12.21	12.33	9.018	8.581	8.179	7.791	7.605	7.377	8.09	7.70
endrin aldehyde	12.44	12.37	12.49	8.97	7.386	6.236	5.855	5.714	5.519	6.61	20.15
endosulfan sulfate	12.86	12.79	12.91	7.58	7.533	7.159	7.002	6.877	6.683	7.14	5.03
4,4'-DDT	12.58	12.51	12.63	8.056	6.955	6.698	6.784	6.779	6.756	7.00	7.45
endrin ketone	13.45	13.38	13.50	7.776	7.899	7.679	7.585	7.503	7.255	7.62	2.96
methoxychlor	13.24	13.17	13.29	3.349	3.339	3.353	3.303	3.275	3.229	3.31	1.48
tetrachloro-m-xylene	6.73	6.68	6.78	1.437	1.364	1.245	1.168	1.079	0.99	1.21	13.97
decachlorobiphenyl	15.42	15.35	15.47	6.561	6.595	5.907	5.598	5.413	5.175	5.87	10.13

PESTICIDE CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Kemron Environmental Services

Contract: 7797L0014-8M

Lab Code: Case No.

SAS No:

SDG. No. 295



Instrument ID: HP-4

GC Column: DB 608

COMPOUND	AMOUNT (ppb)	PEAK	RT	RT WINDOW FROM TO		MIDPOINT AREA	CALIBRATION FACTOR
AROCLOR 1016	500	1	9.395	9.325	9.465	80458	160.92
		2	10.925	10.855	10.995	173878	347.76
		3	12.023	11.953	12.093	68991	137.98
		4	12.265	12.195	12.335	318297	636.59
		5	14.655	14.585	14.725	97819	195.64
AROCLOR 1221	500	1	7.066	6.996	7.136	41574	83.15
		2	8.602	8.532	8.672	54835	109.67
		3	9.151	9.081	9.221	38565	77.13
		4	9.386	9.316	9.456	111104	222.21
		5	10.573	10.503	10.643	13402	26.80
AROCLOR 1232	500	1	8.601	8.531	8.671	28102	56.20
		2	9.386	9.316	9.456	74964	149.93
		3	10.913	10.843	10.983	84049	168.10
		4	12.252	12.182	12.322	139019	278.04
		5	12.855	12.785	12.925	49773	99.55
AROCLOR 1242	500	1	9.386	9.316	9.456	68648	137.30
		2	10.913	10.843	10.983	141248	282.50
		3	12.249	12.179	12.319	252358	504.72
		4	15.583	15.513	15.653	80444	160.89
		5	15.843	15.773	15.913	100049	200.10
AROCLOR 1248	500	1	10.920	10.850	10.990	73534	147.07
		2	12.259	12.189	12.329	215582	431.16
		3	14.642	14.572	14.712	114554	229.11
		4	15.593	15.523	15.663	134165	268.33
		5	17.095	17.025	17.165	137694	275.39
AROCLOR 1254	500	1	15.582	15.512	15.652	67379	134.76
		2	16.189	16.119	16.259	159954	319.91
		3	19.026	18.956	19.096	228517	457.03
		4	19.579	19.509	19.649	152371	304.74
		5	22.161	22.091	22.231	150297	300.59
AROCLOR 1260	500	1	19.893	19.823	19.963	208868	417.74
		2	20.270	20.200	20.340	212921	425.84
		3	21.768	21.698	21.838	101624	203.25
		4	24.252	24.182	24.322	294376	588.75
		5	25.951	25.881	26.021	117292	234.58

Semivolatile Laboratory Runlog

Date 9/21/98 Column ID DB 17MS
 Analyst ECL Instrument ID HP 9
 Data Subdirectory 092198

Run #	Sample Description	Dilution Factor	Method	Comments
330	Endrin / DOT break down		8081	S 37-11
331	Toxaphene 2.0 ppm			S 36-25
332	1.0			
333	0.5			
334	0.25			
335	0.05			
336	Toxaphene Alt. ✓ 0.5 ppm			S 36-26
337	Pesticide 200 PPB			S 36-36
338	100			
339	50			
340	20			
341	5			
342	2			
343	Pesticide Alt. ✓ 20 PPB			S 37-19
344	09-078-01	5		
345	01MS	5		
346	01MSp	5		
347	02	5		
348	05	1		
349	06	1		
350	07	1		
351	Endrin / DOT break down			
352	Pesticide ✓ 20 PPB			
353	Toxaphene ✓ 0.5 ppm			

Semivolatle Laboratory

Runlog

DATE 9/21/98COLUMN ID DB XLBANALYST ECLINSTRUMENT ID HP 9DATA SUBDIRECTORY 092198

RUN #	SAMPLE DESCRIPTION	DIL FACTOR	METHOD	COMMENTS
330	Endrin / PPT breakdown		8081	S 37-11
331	Toxaphene 200 PPB			S 36-25
332				
333	1.0			
334	0.5			
335	0.25			
336	Toxaphene Alt. ✓ 0.5 PPB			S 36-26
337	Pesticide 200 PPB			S 36-36
338	100			
339	50			
340	20			
341	5			
342	2			
343	Pesticide Alt. ✓ 20 PPB			
344	09-078-01			S 37-19
345	01MS	5		
346	01MSD	5		
347	02	5		
348	05	5		
349	06	1		
350	07	1		
351	Endrin / PPT breakdown			
352	Pesticide ✓ 20 PPB			
353	Toxaphene ✓ 0.5 PPB			

Semivolatile Laboratory Runlog

Date 9/23/98 Column ID DB 608
 Analyst ECL Instrument ID HP4
 Data Subdirectory 092398

DRR
9/24/98

Run #	Sample Description	Dilution Factor	Method	Comments
001 F0101	PCB 1660 2.0 ppm		1660F	S 36-43
002	1.0			
003	0.5			
004	0.25			
005	0.1			
006	0.05			
007	PCB 1660 ALT. ✓ 0.5 ppm			S 36-18
008	PCB 1254 2.0 ppm			S 37-42
009	1.0			
010	0.5			
011	0.25			
012	0.1			
013	0.05			
014	PCB 1254 ALT. ✓ 0.5 ppm			S 36-19
015	PCB 1248 0.5 ppm			S 37-41
016	" ALT. ✓ 0.5 ppm			S 37-09
017	PCB 1242 0.5 ppm			S 37-40
018	" ALT. ✓ 0.5 ppm			S 36-22
019	PCB 1232 0.5 ppm			S 37-25
020	" ALT. ✓ 0.5 ppm			S 37-27
021	PCB 1221 0.5 ppm			S 37-14
022	" ALT. ✓ 0.5 ppm			S 37-43
023	B/qn/T 101-24			

HP4

[illegible]

Semivolatile Laboratory Runlog

Date 9/30/98 Column ID DB17MS
 Analyst ECL Instrument ID HP9
 Data Subdirectory 093098

in the m/100

Run #	Sample Description	Dilution Factor	Method	Comments
390	Endrin / PPT breathdown		8081	S 37-11
391	Pesticide ✓ 20 PPB			S 36-36
392	Toxaphene 2.0 PPB			S 36-25
393	1.0			
394	0.5			
395	0.25			
396	0.1			
397	Toxaphene Alt. ✓ 0.5 PPB			S 36-26
398	Blank 101-70			
399	LCS 101-70			
400	09-557-01	1		
401	09-436-03	200		
402	09-436-03	20		
403	09-522-01	1		
404	01MS	1		
405	01MSD	1		
406	02	1		
407	03	1		
408	Endrin / PPT breathdown			
409	Pesticide ✓ 20 PPB			
410	Toxaphene ✓ 0.5 PPB			
411	09-522-04	1		
412	09-522-05	1		

SH 7199

[illegible]

Semivolatile Laboratory

Runlog

DATE 9/30/98 COLUMN ID DB XLB
 ANALYST ECL INSTRUMENT ID HP9
 DATA SUBDIRECTORY 093098

note 10/1/98

RUN #	SAMPLE DESCRIPTION	DIL FACTOR	METHOD	COMMENTS
390	Endrin / PPT break down		8081	S 37-11
391	Pesticide / 200 PPM			S 36-26
392	Toxaphene 2.0 PPM			S 36-25
393	120			
394	0.5			
395	0.25			
396	0.1			
397	Toxaphene ALT 0.5 PPM			
398	Blank 101-70			S 36-26
399	CS 101-70			
400	09-557-01			
401	09-436-03	200		
402	09-436-03	20		
403	09-522-01			
404	01MS			
405	01MS			
406	02			
407	03			
408	Endrin / PPT break down			
409	Pesticide / 200 PPM			
410	Toxaphene / 0.5 PPM			
411	09-522-04			
412	09-522-05			

HARDCOPY DELIVERABLES

VOLATILES

Volatile Organics

Sample Data

Target Compound List Results - See
Section 1.0 (c) (Laboratory Report)

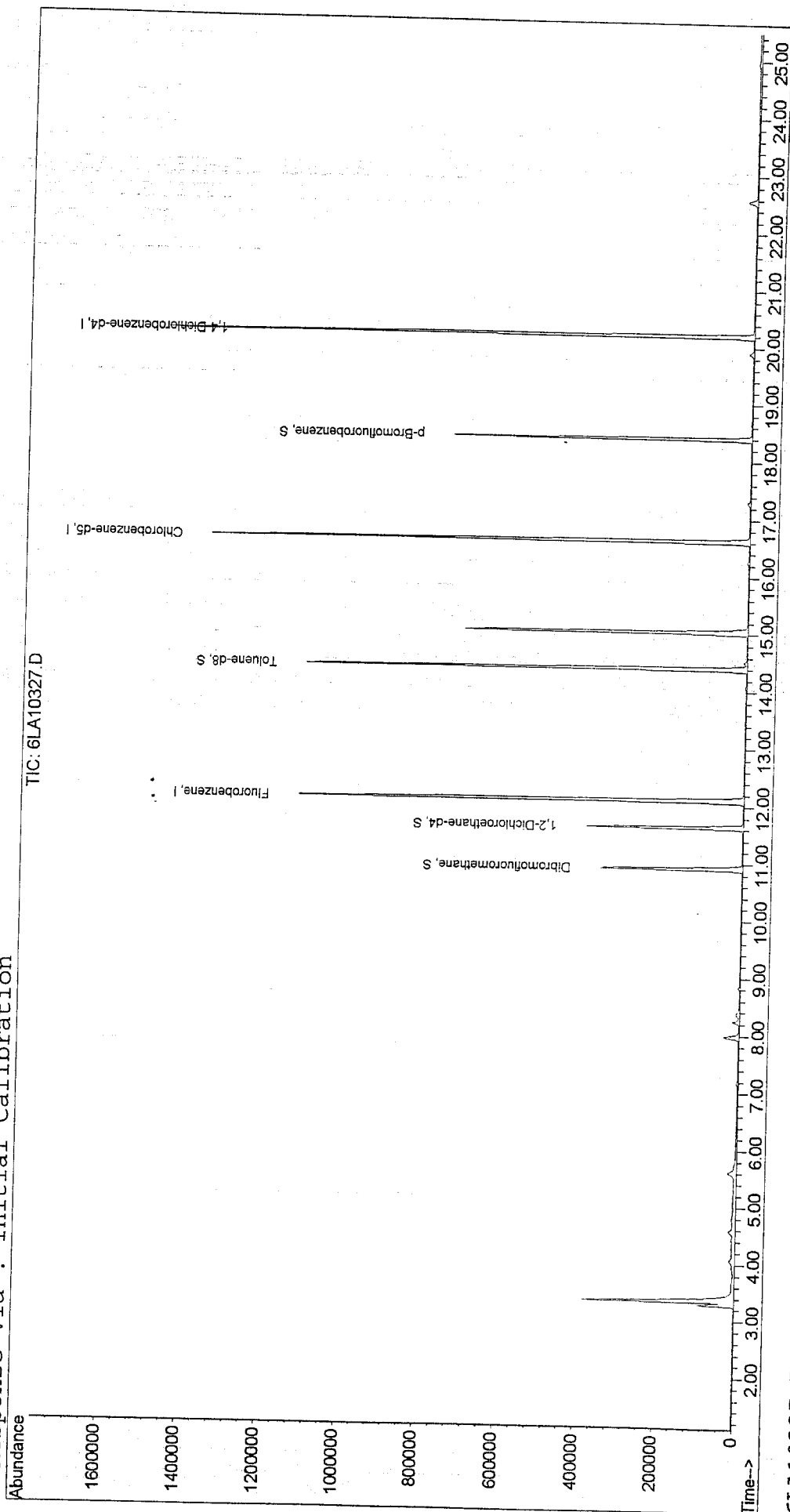
Tentatively Identified Compounds (TICs) - See
Section 1.0 (c) (if requested)

- Reconstructed total ion chromatogram (RIC) and quantitation report for each sample
- Raw spectra and background subtracted mass spectra of target compounds identified
- Mass spectra of all reported TICs with three best library matches (if requested)

Quantitation Report

Data File : C:\HPCHEM\1\DATA\100198\6LA10327.D
 Acq On : 1 Oct 1998 20:01 Vial: 20
 Sample : LANL 09-522-01 826LA 5G/5ML Operator: CMS
 Misc : 5ML PURGE Inst : HPMS_6
 MS Integration Params: rteint.p Multiplr: 1.00
 Quant Time: Oct 2 8:42 1998 Quant Results File: 8260BSL.RES

Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
 Title : Method 8260B SOIL - ICAL 09/29/98
 Last Update : Wed Sep 30 22:02:29 1998
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\100198\6LA10327.D
Acq On : 1 Oct 1998 20:01
Sample : LANL 09-522-01 826LA 5G/5ML
Misc : 5ML PURGE
MS Integration Params: rteint.p
Quant Time: Oct 2 8:42 1998

Vial: 20
Operator: CMS
Inst : HPMS_6
Multiplr: 1.00

Quant Results File: 8260BSL.R

Quant Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
Title : Method 8260B_SOIL - ICAL 09/29/98
Last Update : Wed Sep 30 22:02:29 1998
Response via : Initial Calibration
DataAcq Meth : 8260BSL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.11	96	1210690	50.00	ug/Kg	0.00
43) Chlorobenzene-d5	16.62	117	875993	50.00	ug/Kg	0.00
63) 1,4-Dichlorobenzene-d4	20.20	152	452788	50.00	ug/Kg	0.00

System Monitoring Compounds

27) Dibromofluoromethane	10.92	111	299869	49.17	ug/Kg	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.34%
32) 1,2-Dichloroethane-d4	11.65	65	416536	51.69	ug/Kg	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.38%
44) Toluene-d8	14.40	98	906870	47.53	ug/Kg	0.00
Spiked Amount	50.000	Range	81 - 117	Recovery	=	95.06%
65) p-Bromofluorobenzene	18.40	95	299608	42.66	ug/Kg	0.00
Spiked Amount	50.000	Range	74 - 121	Recovery	=	85.32%

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration
6LA10327.D 8260BSL.M Fri Oct 02 08:43:14 1998

HPMS_6 Page 1

Quantitation Report

(Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100198\6LA10327.D

Acq On : 1 Oct 1998 20:01

Sample : LANL 09-522-01 826LA 5G/5ML

Misc : 5ML PURGE

MS Integration Params: rteint.p

Quant Time: Oct 2 12:32 1998

Vial: 20

Operator: CMS

Inst : HPMS_6

Multiplr: 1.00

Quant Results File: FREON.RES

Quant Method : C:\HPCHEM\1\METHODS\FREON.M (RTE Integrator)

Title : F001_5 CALIBRATION - 09/29/98

Last Update : Wed Sep 30 10:25:14 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.11	96	1210690	50.00	ug/Kg	0.00
3) Chlorobenzene-d5	16.62	117	875993	50.00	ug/Kg	0.00
4) 1,4-dichlorobenzene-d4	20.20	152	452788	50.00	ug/Kg	0.00

System Monitoring Compounds

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration
6LA10327.D FREON.M Fri Oct 02 12:33:00 1998

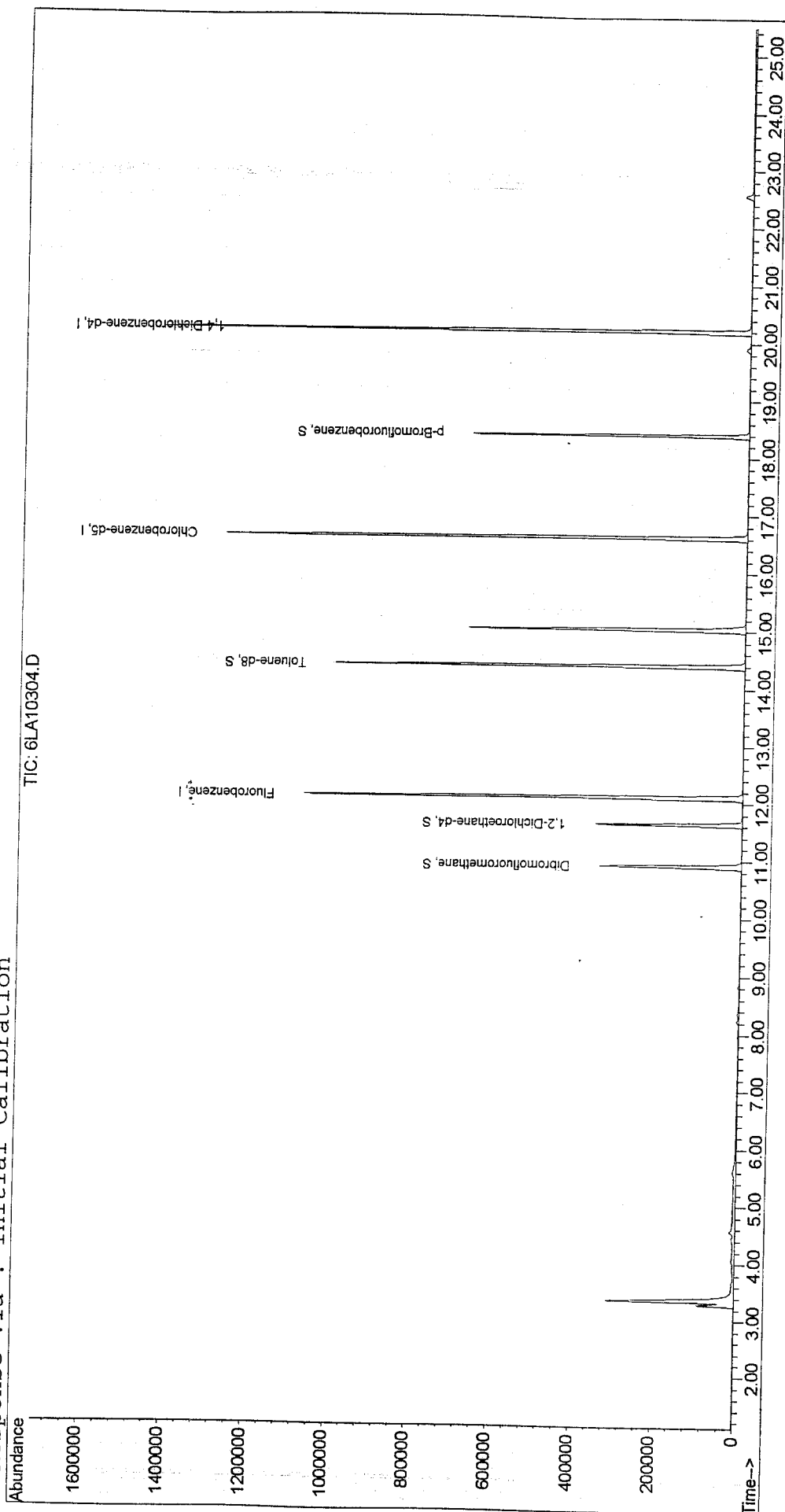
HPMS_6 - Page 1

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Quantitation Report

Data File : C:\HPCHEM\1\DATA\093098\6LA10304.D
 Acq On : 1 Oct 1998 7:11 Vial: 40
 Sample : LANL 09-522-02 826LA SOIL Operator: CMS
 Misc : 5G/5ML Inst : HPMS_6
 MS Integration Params: rteint.p Multiplr: 1.00
 Quant Time: Oct 1 7:37 1998 Quant Results File: 8260BSL.RES

Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
 Title : Method 8260B SOIL - ICAL 09/29/98
 Last Update : Wed Sep 30 22:02:29 1998
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\093098\6LA10304.D

Acq On : 1 Oct 1998 7:11

Sample : LANL 09-522-02 826LA SOIL

Misc : 5G/5ML

MS Integration Params: rteint.p

Quant Time: Oct 1 7:37 1998

Vial: 40

Operator: CMS

Inst : HPMS_6

Multiplr: 1.00

Quant Results File: 8260BSL.R

Quant Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)

Title : Method 8260B_SOIL - ICAL 09/29/98

Last Update : Wed Sep 30 22:02:29 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Internal Standards

	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.11	96	1142185	50.00	ug/Kg	0.00
43) Chlorobenzene-d5	16.62	117	820627	50.00	ug/Kg	0.00
63) 1,4-Dichlorobenzene-d4	20.19	152	430429	50.00	ug/Kg	0.00

System Monitoring Compounds

27) Dibromofluoromethane	10.91	111	279453	48.57	ug/Kg	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.14%
32) 1,2-Dichloroethane-d4	11.64	65	384375	50.56	ug/Kg	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.12%
44) Toluene-d8	14.40	98	826424	46.23	ug/Kg	0.00
Spiked Amount	50.000	Range	81 - 117	Recovery	=	92.46%
65) p-Bromofluorobenzene	18.40	95	269136	40.31	ug/Kg	0.00
Spiked Amount	50.000	Range	74 - 121	Recovery	=	80.62%

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration
6LA10304.D 8260BSL.M Thu Oct 01 07:37:45 1998

HPMS_6 Page 1

Quantitation Report

(Not Reviewed)

Data File : C:\HPCHEM\1\DATA\093098\6LA10304.D

Acq On : 1 Oct 1998 7:11

Sample : LANL 09-522-02 826LA SOIL

Misc : 5G/5ML

MS Integration Params: rteint.p

Quant Time: Oct 1 15:29 1998

Vial: 40

Operator: CMS

Inst : HPMS_6

Multiplr: 1.00

Quant Results File: FREON.RES

Quant Method : C:\HPCHEM\1\METHODS\FREON.M (RTE Integrator)

Title : FO01_5 CALIBRATION - 09/29/98

Last Update : Wed Sep 30 10:25:14 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Internal Standards

	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene	12.11	96	1142185	50.00	ug/Kg	0.00
3) Chlorobenzene-d5	16.62	117	820627	50.00	ug/Kg	0.00
4) 1,4-dichlorobenzene-d4	20.19	152	430429	50.00	ug/Kg	0.00

System Monitoring Compounds

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration
6LA10304.D FREON.M Thu Oct 01 15:29:44 1998

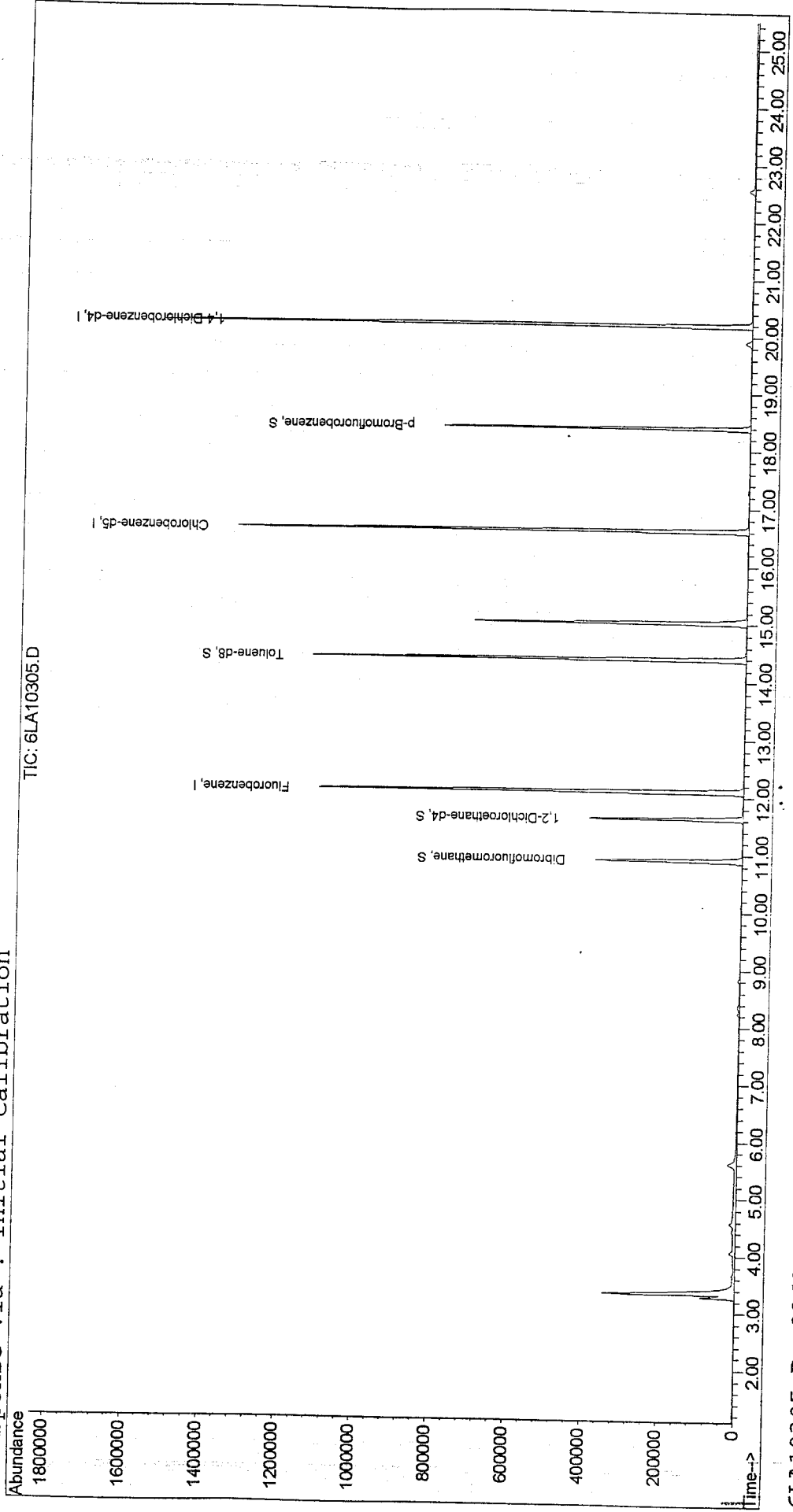
HPMS_6 -Page 1

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Quantitation Report

Data File : C:\HPCHEM\1\DATA\093098\6LA10305.D
 Acq On : 1 Oct 1998 7:43 Vial: 41
 Sample : LANL 09-522-03 826LA SOIL Operator: CMS
 Misc : 5G/5ML Inst : HPMS_6
 MS Integration Params: rteint.p Multiplr: 1.00
 Quant Time: Oct 1 8:09 1998 Quant Results File: 8260BSL.RES

Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
 Title : Method 8260B SOIL - ICAL 09/29/98
 Last Update : Wed Sep 30 22:02:29 1998
 Response via : Initial Calibration



Quantitation Report

(Not Reviewed)

Data File : C:\HPCHEM\1\DATA\093098\6LA10305.D

Acq On : 1 Oct 1998 7:43

Sample : LANL 09-522-03 826LA SOIL

Misc : 5G/5ML

MS Integration Params: rteint.p

Quant Time: Oct 1 8:09 1998

Vial: 41

Operator: CMS

Inst : HPMS_6

Multiplr: 1.00

Quant Results File: 8260BSL.R

Quant Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)

Title : Method 8260B SOIL - ICAL 09/29/98

Last Update : Wed Sep 30 22:02:29 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.11	96	1195912	50.00	ug/Kg	0.00
43) Chlorobenzene-d5	16.62	117	868607	50.00	ug/Kg	0.00
63) 1,4-Dichlorobenzene-d4	20.20	152	469357	50.00	ug/Kg	0.00

System Monitoring Compounds

27) Dibromofluoromethane	10.91	111	309892	51.44	ug/Kg	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	102.88%
32) 1,2-Dichloroethane-d4	11.64	65	425965	53.51	ug/Kg	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	107.02%
44) Toluene-d8	14.40	98	950614	50.24	ug/Kg	0.00
Spiked Amount	50.000	Range	81 - 117	Recovery	=	100.48%
65) p-Bromofluorobenzene	18.39	95	320637	44.04	ug/Kg	0.00
Spiked Amount	50.000	Range	74 - 121	Recovery	=	88.08%

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration
6LA10305.D 8260BSL.M Thu Oct 01 08:09:21 1998

HPMS_6 Page 174

Quantitation Report

(Not Reviewed)

Data File : C:\HPCHEM\1\DATA\093098\6LA10305.D

Acq On : 1 Oct 1998 7:43

Sample : LANL 09-522-03 826LA SOIL

Misc : 5G/5ML

MS Integration Params: rteint.p

Quant Time: Oct 1 15:29 1998

Vial: 41

Operator: CMS

Inst : HPMS_6

Multiplr: 1.00

Quant Results File: FREON.RES

Quant Method : C:\HPCHEM\1\METHODS\FREON.M (RTE Integrator)

Title : F001_5 CALIBRATION - 09/29/98

Last Update : Wed Sep 30 10:25:14 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Internal Standards

	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.11	96	1195912	50.00	ug/Kg	0.00
3) Chlorobenzene-d5	16.62	117	868607	50.00	ug/Kg	0.00
4) 1,4-dichlorobenzene-d4	20.20	152	469357	50.00	ug/Kg	0.00

System Monitoring Compounds

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration
6LA10305.D FREON.M Thu Oct 01 15:30:06 1998

HPMS_6

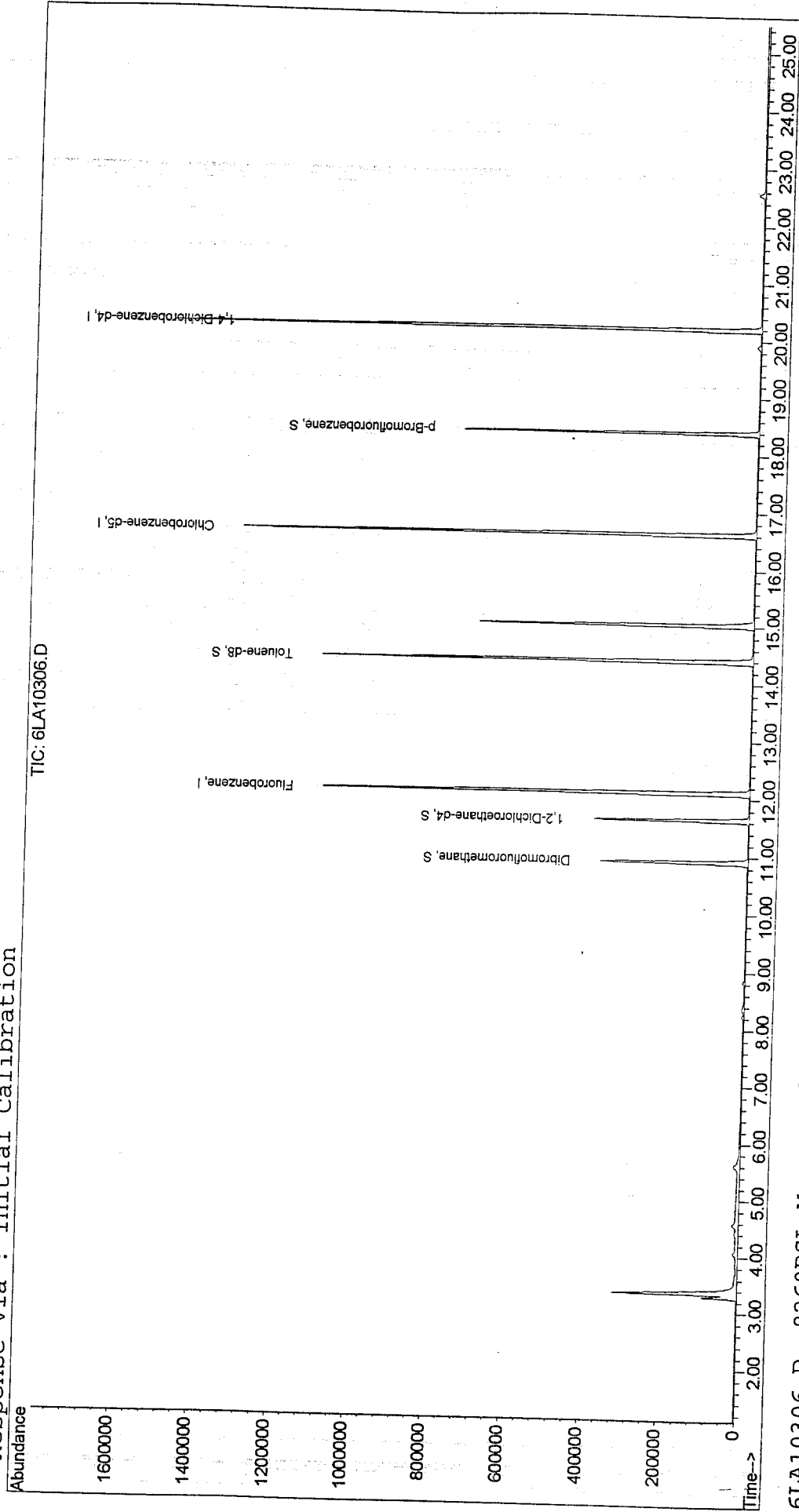
Page 175

Quantitation Report

Data File : C:\HPCHEM\1\DATA\093098\6LA10306.D
 Acq On : 1 Oct 1998 8:14 Vial: 42
 Sample : LANL 09-522-04 826LA SOIL Operator: CMS
 Misc : 5G/5ML Inst : HPMS_6
 MS Integration Params: rteint.p Multiplr: 1.00
 Quant Time: Oct 1 8:40 1998

Quant Results File: 8260BSL.RES

Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
 Title : Method 8260B_SOIL - ICAL 09/29/98
 Last Update : Wed Sep 30 22:02:29 1998
 Response via : Initial Calibration



6LA10306.D 8260BSL.M

Thu Oct 01 08:41:09 1998

HPMS_6

Quantitation Report

(Not Reviewed)

Data File : C:\HPCHEM\1\DATA\093098\6LA10306.D

Acq On : 1 Oct 1998 8:14

Sample : LANL 09-522-04 826LA SOIL

Misc : 5G/5ML

MS Integration Params: rteint.p

Quant Time: Oct 1 8:40 1998

Vial: 42

Operator: CMS

Inst : HPMS_6

Multiplr: 1.00

Quant Results File: 8260BSL.R

Quant Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)

Title : Method 8260B_SOIL - ICAL 09/29/98

Last Update : Wed Sep 30 22:02:29 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Internal Standards

	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.11	96	1178243	50.00	ug/Kg	0.00
43) Chlorobenzene-d5	16.62	117	857042	50.00	ug/Kg	0.00
63) 1,4-Dichlorobenzene-d4	20.20	152	454975	50.00	ug/Kg	0.00

System Monitoring Compounds

27) Dibromofluoromethane	10.92	111	303239	51.09	ug/Kg	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	102.18%
32) 1,2-Dichloroethane-d4	11.64	65	422808	53.91	ug/Kg	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	107.82%
44) Toluene-d8	14.40	98	917802	49.16	ug/Kg	0.00
Spiked Amount	50.000	Range	81 - 117	Recovery	=	98.32%
65) p-Bromofluorobenzene	18.39	95	304711	43.18	ug/Kg	0.00
Spiked Amount	50.000	Range	74 - 121	Recovery	=	86.36%

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration
6LA10306.D 8260BSL.M Thu Oct 01 08:41:05 1998

HPMS_6 Page 177

Quantitation Report

(Not Reviewed)

Data File : C:\HPCHEM\1\DATA\093098\6LA10306.D

Acq On : 1 Oct 1998 8:14

Sample : LANL 09-522-04 826LA SOIL

Misc : 5G/5ML

MS Integration Params: rteint.p

Quant Time: Oct 1 15:30 1998

Vial: 42

Operator: CMS

Inst : HPMS_6

Multiplr: 1.00

Quant Results File: FREON.RES

Quant Method : C:\HPCHEM\1\METHODS\FREON.M (RTE Integrator)

Title : FO01_5 CALIBRATION - 09/29/98

Last Update : Wed Sep 30 10:25:14 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Internal Standards

	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.11	96	1178243	50.00	ug/Kg	0.00
3) Chlorobenzene-d5	16.62	117	857042	50.00	ug/Kg	0.00
4) 1,4-dichlorobenzene-d4	20.20	152	454975	50.00	ug/Kg	0.00

System Monitoring Compounds

Target Compounds

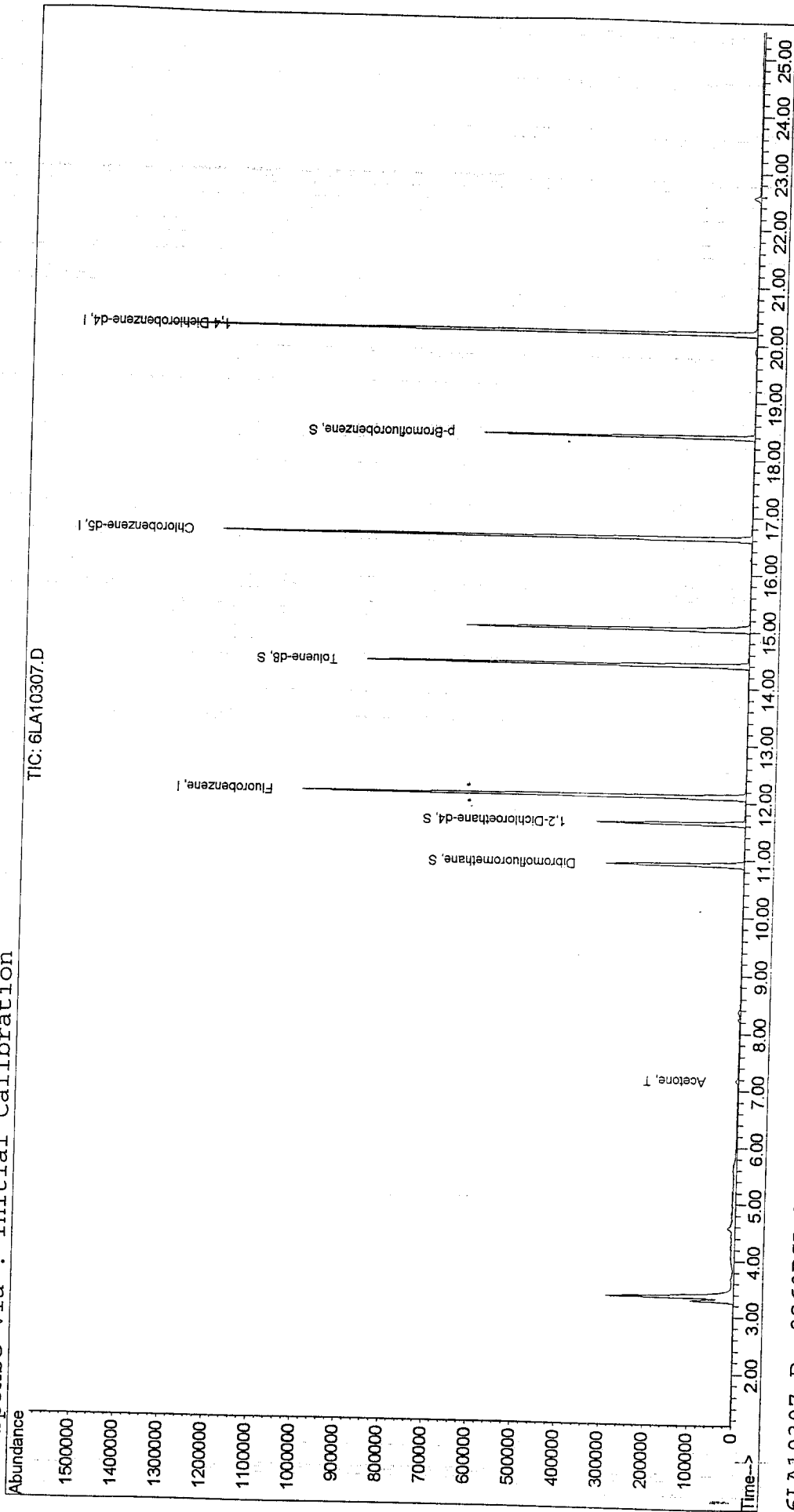
Qvalue

(#) = qualifier out of range (m) = manual integration
6LA10306.D FREON.M Thu Oct 01 15:30:26 1998

HPMS_6 Page 178

Quantitation Report

Data File : C:\HPCHEM\1\DATA\093098\6LA10307.D
 Acq On : 1 Oct 1998 8:46 Vial: 43
 Sample : LANL 09-522-05 826LA SOIL Operator: CMS
 Misc : 5G/5ML Inst : HPMS_6
 MS Integration Params: rteint.p Multiplr: 1.00
 Quant Time: Oct 1 9:12 1998
 Quant Results File: 8260BSL.RES
 Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
 Title : Method 8260B_SOIL - ICAL 09/29/98
 Last Update : Wed Sep 30 22:02:29 1998
 Response via : Initial Calibration



Quantitation Report

(Not Reviewed)

Data File : C:\HPCHEM\1\DATA\093098\6LA10307.D

Acq On : 1 Oct 1998 8:46

Sample : LANL 09-522-05 826LA SOIL

Misc : 5G/5ML

MS Integration Params: rteint.p

Quant Time: Oct 1 9:12 1998

Vial: 43

Operator: CMS

Inst : HPMS_6

Multiplr: 1.00

Quant Results File: 8260BSL.R

Quant Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)

Title : Method 8260B SOIL - ICAL 09/29/98

Last Update : Wed Sep 30 22:02:29 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.11	96	1065979	50.00	ug/Kg	0.00
43) Chlorobenzene-d5	16.62	117	779249	50.00	ug/Kg	0.00
63) 1,4-Dichlorobenzene-d4	20.20	152	395560	50.00	ug/Kg	0.00

System Monitoring Compounds

27) Dibromofluoromethane	10.92	111	248978	46.36	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	92.72%		
32) 1,2-Dichloroethane-d4	11.64	65	355866	50.15	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	100.30%		
44) Toluene-d8	14.40	98	709362	41.79	ug/Kg	0.00
Spiked Amount 50.000	Range 81 - 117		Recovery =	83.58%		
65) p-Bromofluorobenzene	18.39	95	247916	40.41	ug/Kg	0.00
Spiked Amount 50.000	Range 74 - 121		Recovery =	80.82%		

Target Compounds

10) Acetone	7.17	43	12721	6.14	ug/Kg	Qvalue 95
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(#) = qualifier out of range (m) = manual integration
6LA10307.D 8260BSL.M Thu Oct 01 09:13:07 1998

HPMS_6 Page 1

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Data File : C:\HPCHEM\1\DATA\093098\6LA10307.D

Acq On : 1 Oct 1998 8:46

Sample : LANL 09-522-05 826LA SOIL

Misc : 5G/5ML

MS Integration Params: rteint.p

Quant Time: Oct 1 15:30 1998

Vial: 43

Operator: CMS

Inst : HPMS_6

Multiplr: 1.00

Quant Results File: FREON.RES

Quant Method : C:\HPCHEM\1\METHODS\FREON.M (RTE Integrator)

Title : F001_5 CALIBRATION - 09/29/98

Last Update : Wed Sep 30 10:25:14 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Internal Standards

	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.11	96	1065979	50.00	ug/Kg	0.00
3) Chlorobenzene-d5	16.62	117	779249	50.00	ug/Kg	0.00
4) 1,4-dichlorobenzene-d4	20.20	152	395560	50.00	ug/Kg	0.00

System Monitoring Compounds

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration

6LA10307.D FREON.M

Thu Oct 01 15:30:47 1998

HPMS_6

Page 1

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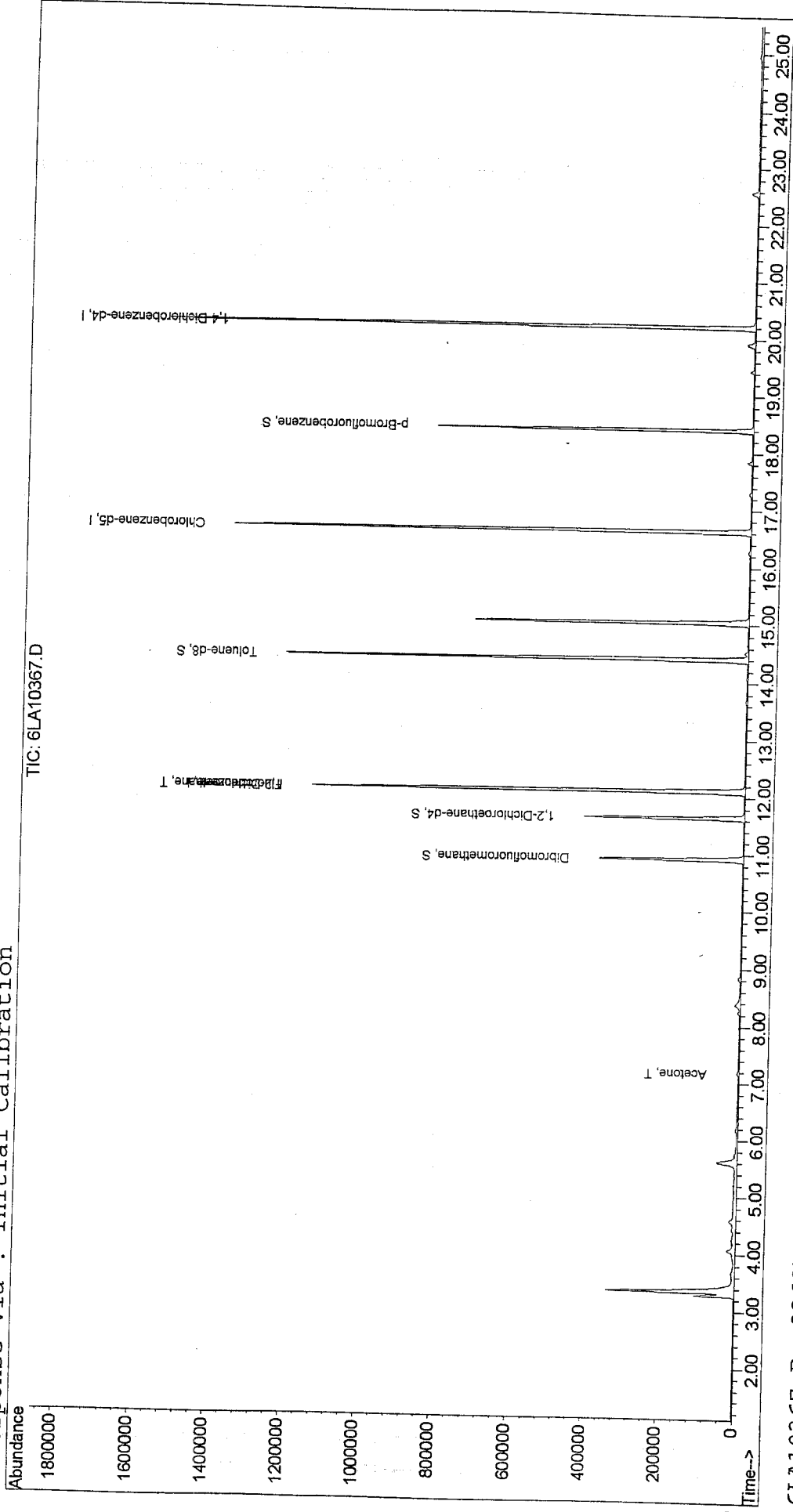
Quantitation Report

Data File : C:\HPCHEM\1\DATA\100398\6LA10367.D
 Acq On : 3 Oct 1998 15:54
 Sample : LANL 09-522-06 826LA 5G/5ML
 Misc : 5ML PURGE
 MS Integration Params: rteint.p
 Quant Time: Oct 3 16:20 1998

Vial: 13
 Operator: CMS
 Inst : HPMS_6
 Multiplr: 1.00

Quant Results File: 8260BSL.RES

Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
 Title : Method 8260B SOIL - ICAL 09/29/98
 Last Update : Wed Sep 30 22:02:29 1998
 Response via : Initial Calibration



6LA10367.D 8260BSL.M

Sat Oct 03 16:20:32 1998

HPMS_6

Quantitation Report

(Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100398\6LA10367.D

Acq On : 3 Oct 1998 15:54

Sample : LANL 09-522-06 826LA 5G/5ML

Misc : 5ML PURGE

MS Integration Params: rteint.p

Quant Time: Oct 3 16:20 1998

Vial: 13

Operator: CMS

Inst : HPMS_6

Multiplr: 1.00

Quant Results File: 8260BSL.R

Quant Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)

Title : Method 8260B_SOIL - ICAL 09/29/98

Last Update : Wed Sep 30 22:02:29 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Internal Standards

	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.11	96	1229226	50.00	ug/Kg	0.00
43) Chlorobenzene-d5	16.63	117	887271	50.00	ug/Kg	0.00
63) 1,4-Dichlorobenzene-d4	20.20	152	473634	50.00	ug/Kg	0.00

System Monitoring Compounds

27) Dibromofluoromethane	10.93	111	321217	51.87	ug/Kg	0.01
Spiked Amount	50.000					
Range	80 - 120		Recovery	=	103.74%	
32) 1,2-Dichloroethane-d4	11.65	65	443942	54.26	ug/Kg	0.00
Spiked Amount	50.000					
Range	80 - 120		Recovery	=	108.52%	
44) Toluene-d8	14.41	98	1005654	52.03	ug/Kg	0.00
Spiked Amount	50.000					
Range	81 - 117		Recovery	=	104.06%	
65) p-Bromofluorobenzene	18.40	95	340290	46.32	ug/Kg	0.00
Spiked Amount	50.000					
Range	74 - 121		Recovery	=	92.64%	

Target Compounds

					Qvalue
10) Acetone	7.18	43	8229	3.42	ug/Kg# 88
33) 1,2-Dichloroethane	12.11	62	24395	2.47	ug/Kg# 92

(#) = qualifier out of range (m) = manual integration
6LA10367.D 8260BSL.M Sat Oct 03 16:20:27 1998

HPMS_6 Page 1

Data File : C:\HPCHEM\1\DATA\100398\6LA10367.D

Acq On : 3 Oct 1998 15:54

Sample : LANL 09-522-06 826LA 5G/5ML

Misc : 5ML PURGE

MS Integration Params: rteint.p

Quant Time: Oct 5 9:13 1998

Vial: 13

Operator: CMS

Inst : HPMS_6

Multiplr: 1.00

Quant Results File: FREON.RES

Quant Method : C:\HPCHEM\1\METHODS\FREON.M (RTE Integrator)

Title : F001_5 CALIBRATION - 09/29/98

Last Update : Wed Sep 30 10:25:14 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Internal Standards

	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.11	96	1229226	50.00	ug/Kg	0.00
3) Chlorobenzene-d5	16.63	117	887271	50.00	ug/Kg	0.00
4) 1,4-dichlorobenzene-d4	20.20	152	473634	50.00	ug/Kg	0.00

System Monitoring Compounds

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration
6LA10367.D FREON.M Mon Oct 05 09:14:03 1998

HPMS_6

Page 1

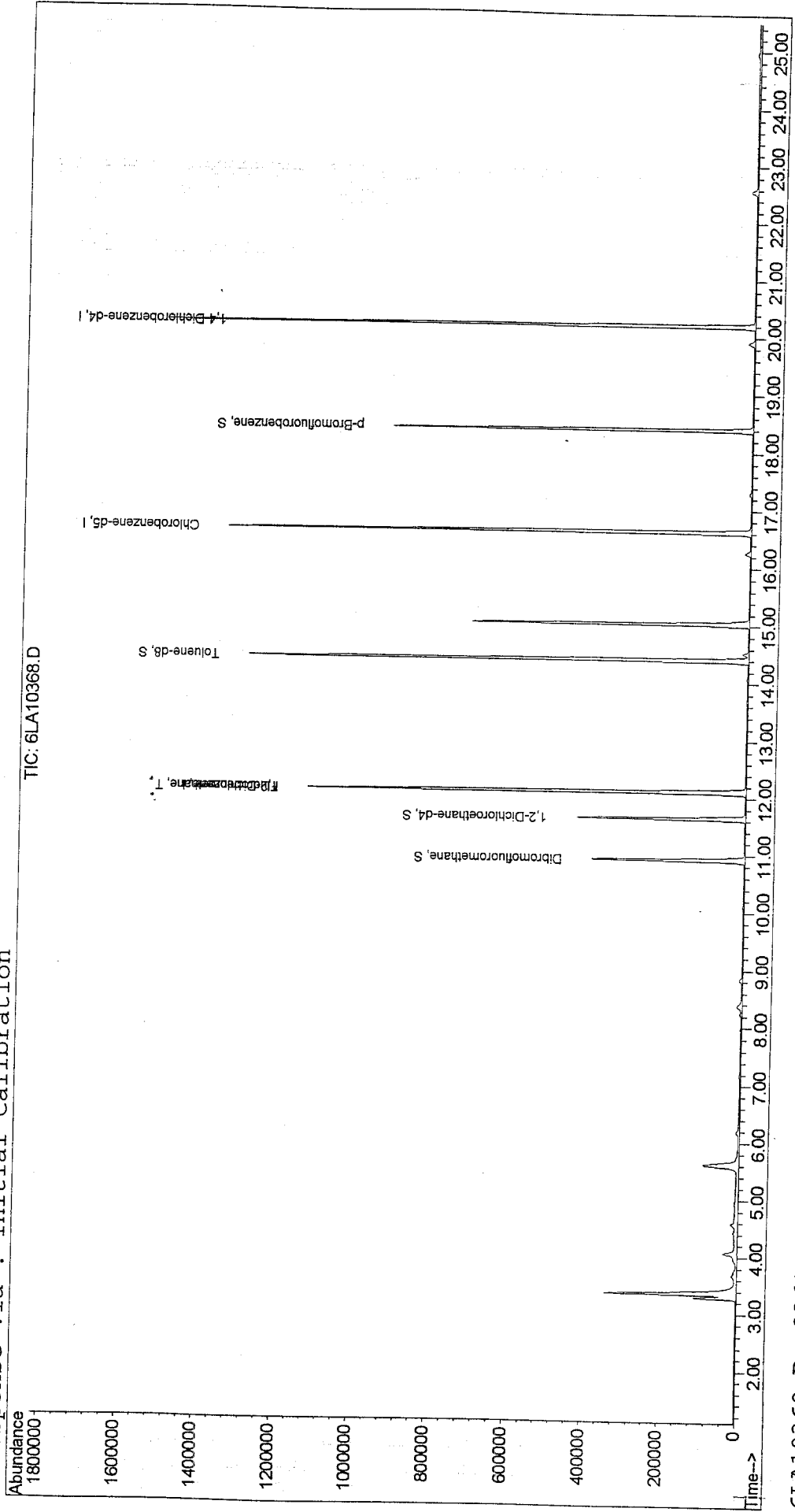
Quantitation Report

Data File : C:\HPCHEM\1\DATA\100398\6LA10368.D
 Acq On : 3 Oct 1998 16:27
 Sample : LANL 09-522-07 826LA 5G/5ML
 Misc : 5ML PURGE
 MS Integration Params: rteint.p
 Quant Time: Oct 3 16:53 1998

Vial: 14
 Operator: CMS
 Inst : HPMS_6
 Multiplr: 1.00

Quant Results File: 8260BSL.RES

Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
 Title : Method 8260B SOIL - ICAL 09/29/98
 Last Update : Wed Sep 30 22:02:29 1998
 Response via : Initial Calibration



Quantitation Report

(Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100398\6LA10368.D
Acq On : 3 Oct 1998 16:27
Sample : LANL 09-522-07 826LA 5G/5ML
Misc : 5ML PURGE
MS Integration Params: rteint.p
Quant Time: Oct 3 16:53 1998

Vial: 14
Operator: CMS
Inst : HPMS_6
Multiplr: 1.00

Quant Results File: 8260BSL.R

Quant Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
Title : Method 8260B_SOIL - ICAL 09/29/98
Last Update : Wed Sep 30 22:02:29 1998
Response via : Initial Calibration
DataAcq Meth : 8260BSL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.11	96	1215689	50.00	ug/Kg	0.00
43) Chlorobenzene-d5	16.63	117	896143	50.00	ug/Kg	0.00
63) 1,4-Dichlorobenzene-d4	20.20	152	456581	50.00	ug/Kg	0.00

System Monitoring Compounds

27) Dibromofluoromethane	10.93	111	331723	54.16	ug/Kg	0.01
Spiked Amount	50.000					
Range	80 - 120		Recovery	=	108.32%	
32) 1,2-Dichloroethane-d4	11.65	65	454668	56.19	ug/Kg	0.00
Spiked Amount	50.000					
Range	80 - 120		Recovery	=	112.38%	
44) Toluene-d8	14.41	98	1062824	54.45	ug/Kg	0.00
Spiked Amount	50.000					
Range	81 - 117		Recovery	=	108.90%	
65) p-Bromofluorobenzene	18.40	95	378368	53.43	ug/Kg	0.00
Spiked Amount	50.000					
Range	74 - 121		Recovery	=	106.86%	

Target Compounds

33) 1,2-Dichloroethane	12.11	62	23475	2.41	ug/Kg	Qvalue 92
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(#) = qualifier out of range (m) = manual integration
6LA10368.D 8260BSL.M Sat Oct 03 16:53:50 1998

HPMS_6 Page 1

Data File : C:\HPCHEM\1\DATA\100398\6LA10368.D
Acq On : 3 Oct 1998 16:27
Sample : LANL 09-522-07 826LA 5G/5ML
Misc : 5ML PURGE
MS Integration Params: rteint.p
Quant Time: Oct 5 9:14 1998

Vial: 14
Operator: CMS
Inst : HPMS_6
Multiplr: 1.00

Quant Results File: FREON.RES

Quant Method : C:\HPCHEM\1\METHODS\FREON.M (RTE Integrator)
Title : F001_5 CALIBRATION - 09/29/98
Last Update : Wed Sep 30 10:25:14 1998
Response via : Initial Calibration
DataAcq Meth : 8260BSL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.11	96	1215689	50.00	ug/Kg	0.00
3) Chlorobenzene-d5	16.63	117	896143	50.00	ug/Kg	0.00
4) 1,4-dichlorobenzene-d4	20.20	152	456581	50.00	ug/Kg	0.00

System Monitoring Compounds

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration
6LA10368.D FREON.M Mon Oct 05 09:14:22 1998

HPMS_6 Page 1

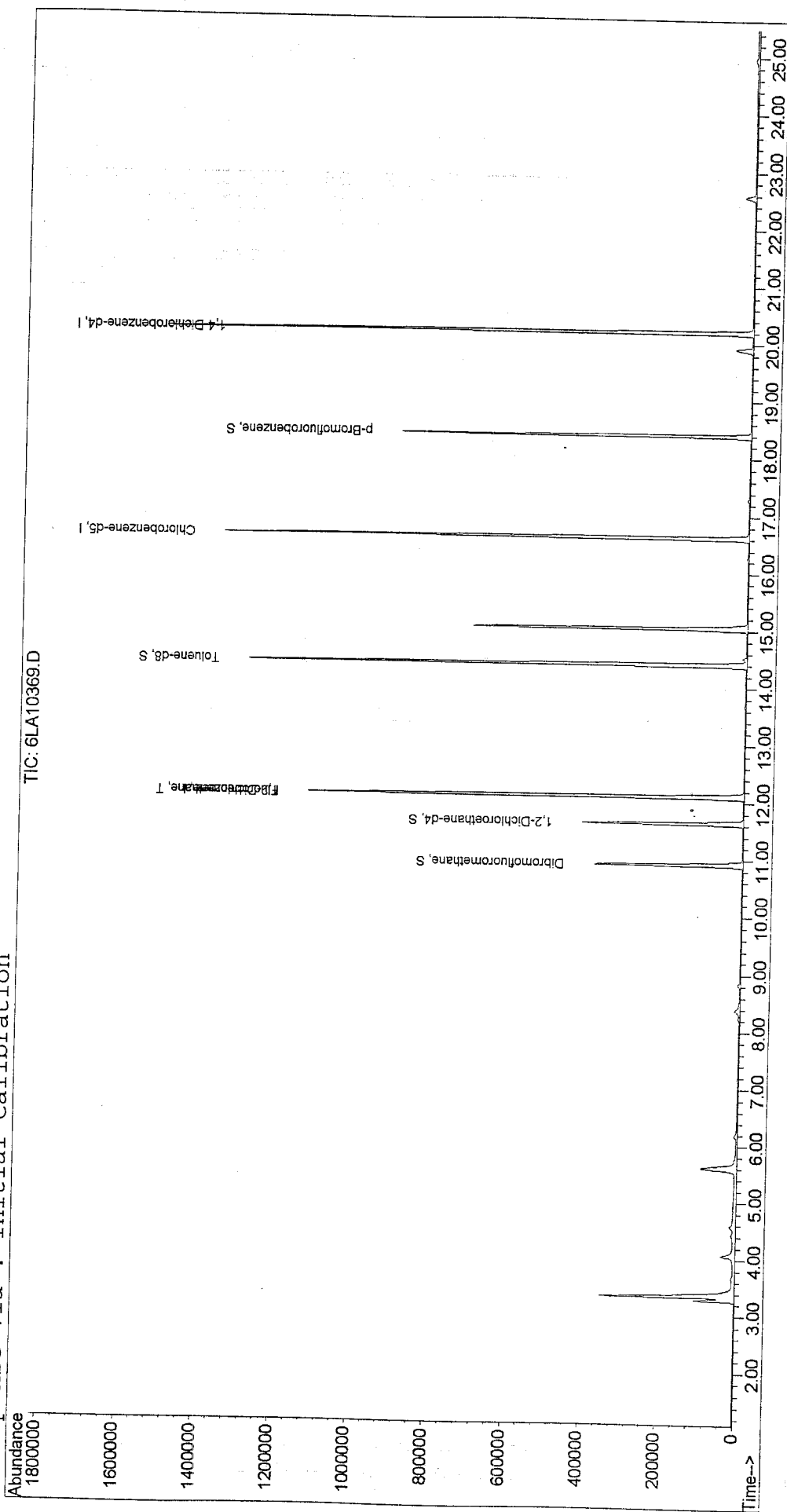
Quantitation Report

Data File : C:\HPCHEM\1\DATA\100398\6LA10369.D
 Acq On : 3 Oct 1998 17:01
 Sample : LANL 09-522-08 826LA 5G/5ML
 Misc : 5ML PURGE
 MS Integration Params: rteint.p
 Quant Time: Oct 3 17:26 1998

Vial: 15
 Operator: CMS
 Inst : HPMS_6
 Multiplr: 1.00

Quant Results File: 8260BSL.RES

Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
 Title : Method 8260B SOIL - ICAL 09/29/98
 Last Update : Wed Sep 30 22:02:29 1998
 Response via : Initial Calibration



6LA10369.D 8260BSL.M

Sat Oct 03 17:27:17 1998

HPMS_6

Data File : C:\HPCHEM\1\DATA\100398\6LA10369.D

Acq On : 3 Oct 1998 17:01

Sample : LANL 09-522-08 826LA 5G/5ML

Misc : 5ML PURGE

MS Integration Params: rteint.p

Quant Time: Oct 3 17:26 1998

Vial: 15

Operator: CMS

Inst : HPMS_6

Multiplr: 1.00

Quant Results File: 8260BSL.R

Quant Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)

Title : Method 8260B_SOIL - ICAL 09/29/98

Last Update : Wed Sep 30 22:02:29 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Internal Standards

	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.11	96	1218680	50.00	ug/Kg	0.00
43) Chlorobenzene-d5	16.62	117	868667	50.00	ug/Kg	0.00
63) 1,4-Dichlorobenzene-d4	20.20	152	473700	50.00	ug/Kg	0.00

System Monitoring Compounds

27) Dibromofluoromethane	10.92	111	324074	52.79	ug/Kg	0.00
Spiked Amount	50.000					
Range	80	- 120	Recovery	=	105.58%	
32) 1,2-Dichloroethane-d4	11.65	65	438894	54.10	ug/Kg	0.00
Spiked Amount	50.000					
Range	80	- 120	Recovery	=	108.20%	
44) Toluene-d8	14.40	98	1053442	55.68	ug/Kg	0.00
Spiked Amount	50.000					
Range	81	- 117	Recovery	=	111.36%	
65) p-Bromofluorobenzene	18.40	95	361470	49.19	ug/Kg	0.00
Spiked Amount	50.000					
Range	74	- 121	Recovery	=	98.38%	

Target Compounds

33) 1,2-Dichloroethane	12.11	62	24120	2.47	ug/Kg	Qvalue 91
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(#) = qualifier out of range (m) = manual integration
6LA10369.D 8260BSL.M Sat Oct 03 17:27:13 1998

HPMS_6 Page 1

Data File : C:\HPCHEM\1\DATA\100398\6LA10369.D
Acq On : 3 Oct 1998 17:01
Sample : LANL 09-522-08 826LA 5G/5ML
Misc : 5ML PURGE
MS Integration Params: rteint.p
Quant Time: Oct 5 9:14 1998

Vial: 15
Operator: CMS
Inst : HPMS_6
Multiplr: 1.00

Quant Results File: FREON.RES

Quant Method : C:\HPCHEM\1\METHODS\FREON.M (RTE Integrator)
Title : F001_5 CALIBRATION - 09/29/98
Last Update : Wed Sep 30 10:25:14 1998
Response via : Initial Calibration
DataAcq Meth : 8260BSL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.11	96	1218680	50.00	ug/Kg	0.00
3) Chlorobenzene-d5	16.62	117	868667	50.00	ug/Kg	0.00
4) 1,4-dichlorobenzene-d4	20.20	152	473700	50.00	ug/Kg	0.00

System Monitoring Compounds

Target Compounds

Qvalue

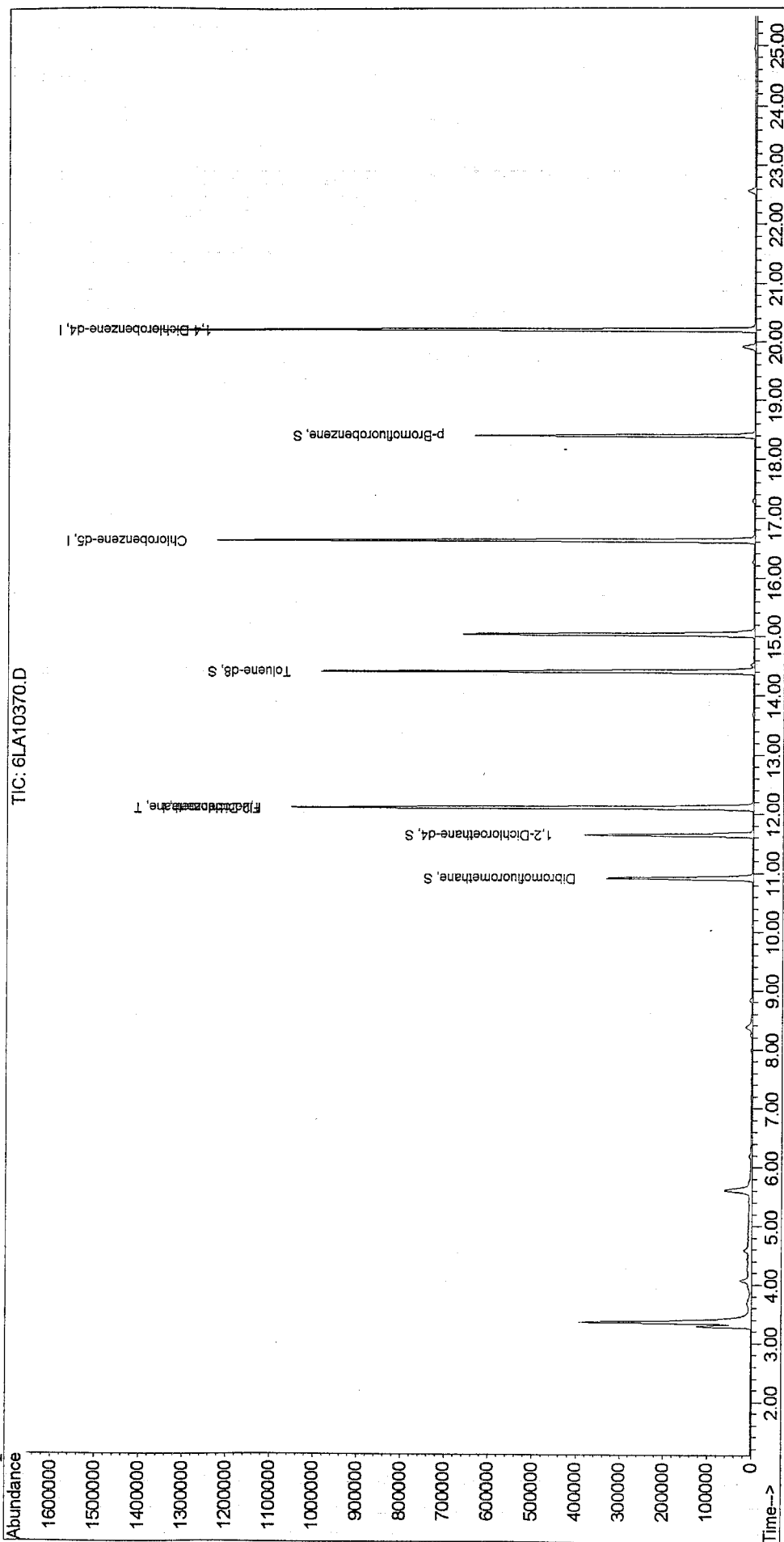
(#) = qualifier out of range (m) = manual integration
6LA10369.D FREON.M Mon Oct 05 09:14:42 1998

HPMS_6

Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\100398\6LA10370.D
 Acq On : 3 Oct 1998 17:34 Vial: 16
 Sample : LANL 09-522-09 826LA 5G/5ML Operator: CMS
 Misc : 5ML PURGE Inst : HPMS_6
 MS Integration Params: rteint.p Multiplr: 1.00
 Quant Time: Oct 03 18:00 1998 Quant Results File: 8260BSL.RES
 Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
 Title : Method 8260B SOIL - ICAL 09/29/98
 Last Update : Wed Sep 30 22:02:29 1998
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\100398\6LA10370.D

Vial: 16

Acq On : 3 Oct 1998 17:34

Operator: CMS

Sample : LANL 09-522-09 826LA 5G/5ML

Inst : HPMS_6

Misc : 5ML PURGE

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Oct 3 18:00 1998

Quant Results File: 8260BSL.R

Quant Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)

Title : Method 8260B_SOIL - ICAL 09/29/98

Last Update : Wed Sep 30 22:02:29 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.11	96	1123767	50.00	ug/Kg	0.00
43) Chlorobenzene-d5	16.63	117	799911	50.00	ug/Kg	0.00
63) 1,4-Dichlorobenzene-d4	20.20	152	422983	50.00	ug/Kg	0.00

System Monitoring Compounds

27) Dibromofluoromethane	10.92	111	281274	49.68	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	99.36%		
32) 1,2-Dichloroethane-d4	11.65	65	405385	54.19	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	108.38%		
44) Toluene-d8	14.40	98	815085	46.78	ug/Kg	0.00
Spiked Amount 50.000	Range 81 - 117		Recovery =	93.56%		
65) p-Bromofluorobenzene	18.40	95	256455	39.09	ug/Kg	0.00
Spiked Amount 50.000	Range 74 - 121		Recovery =	78.18%		

Target Compounds

						Qvalue
33) 1,2-Dichloroethane	12.11	62	22300	2.47	ug/Kg#	93

(#) = qualifier out of range (m) = manual integration

6LA10370.D 8260BSL.M

Sat Oct 03 18:00:41 1998

HPMS_6 Page 1

Data File : C:\HPCHEM\1\DATA\100398\6LA10370.D
Acq On : 3 Oct 1998 17:34
Sample : LANL 09-522-09 826LA 5G/5ML
Misc : 5ML PURGE
MS Integration Params: rteint.p
Quant Time: Oct 5 9:14 1998

Vial: 16
Operator: CMS
Inst : HPMS_6
Multiplr: 1.00

Quant Results File: FREON.RES

Quant Method : C:\HPCHEM\1\METHODS\FREON.M (RTE Integrator)
Title : F001_5 CALIBRATION - 09/29/98
Last Update : Wed Sep 30 10:25:14 1998
Response via : Initial Calibration
DataAcq Meth : 8260BSL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.11	96	1123767	50.00	ug/Kg	0.00
3) Chlorobenzene-d5	16.63	117	799911	50.00	ug/Kg	0.00
4) 1,4-dichlorobenzene-d4	20.20	152	422983	50.00	ug/Kg	0.00

System Monitoring Compounds

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration
6LA10370.D FREON.M Mon Oct 05 09:15:01 1998

HPMS_6 Page 1

Volatile Organics

Standards Data

- Initial calibration data summary form
- Chromatograms and quantitation reports for all standards
- Continuing calibration data summary form
- Chromatogram and quantitation report for standard
- Internal Standard Area Summary

Response Factor Report HPMS_6

Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
 Title : Method 8260B_SOIL - ICAL 09/29/98
 Last Update : Wed Sep 30 22:02:29 1998
 Response via : Initial Calibration

Calibration Files
 5 =6ST10254.D 10 =6ST10248.D 20 =6ST10249.D
 50 =6ST10250.D 100 =6ST10251.D

Compound		5	10	20	50	100	Avg	%RSD
		-----ISTD-----						
1) I	Fluorobenzene							
2) T	Dichlorodifluorometha	0.343	0.325	0.330	0.327	0.308	0.327	3.82
3) P	Chloromethane	0.428	0.401	0.389	0.371	0.349	0.388	7.77
4) C	Vinyl chloride	0.299	0.271	0.250	0.236	0.204	0.252	14.16
5) T	Bromomethane	0.272	0.250	0.228	0.210	0.186	0.229	14.74
6) T	Chloroethane	0.193	0.193	0.184	0.173	0.162	0.181	7.47
7) T	Trichlorofluoromethan	0.544	0.521	0.508	0.507	0.481	0.512	4.49
8) T	Isoprene	0.241	0.268	0.313	0.368	0.372	0.312	18.79
9) T	Acrolein	0.002	0.003	0.004	0.005	0.005	0.004	30.52LR,F
10) T	Acetone	0.151	0.103	0.082	0.088	0.075	0.100	30.53Q,F
11) C	1,1-Dichloroethene	0.177	0.175	0.182	0.203	0.207	0.189	8.05
12) T	Dimethyl sulfide	0.168	0.196	0.231	0.275	0.282	0.231	21.38
13) T	Iodomethane	0.083	0.113	0.139	0.178	0.196	0.142	32.63LR,F
14) T	Methylene chloride	0.250	0.238	0.220	0.234	0.233	0.235	4.58
15) T	Carbon disulfide	0.885	0.834	0.824	0.855	0.835	0.847	2.86
16) T	Acrylonitrile	0.072	0.068	0.072	0.084	0.080	0.075	8.79
17) T	Methyl-tert-butyl eth	0.433	0.426	0.468	0.562	0.561	0.490	13.73
18) T	trans-1,2-Dichloroeth	0.200	0.200	0.200	0.219	0.224	0.209	5.68
19) T	n-Hexane	0.396	0.419	0.450	0.483	0.472	0.444	8.20
20) T	Vinyl acetate	0.199	0.235	0.273	0.371	0.380	0.292	27.84LR,F
21) P	1,1-Dichloroethane	0.492	0.482	0.469	0.494	0.484	0.484	2.05
22) T	2-Butanone	0.098	0.086	0.085	0.112	0.112	0.098	13.23
23) T	2,2-Dichloropropane	0.417	0.412	0.409	0.448	0.457	0.429	5.18
24) T	cis-1,2-Dichloroethen	0.204	0.212	0.225	0.256	0.257	0.231	10.69
25) C	Chloroform	0.502	0.482	0.459	0.492	0.482	0.484	3.32
26) T	Bromochloromethane	0.100	0.096	0.095	0.104	0.106	0.100	4.85
27) S	Dibromofluoromethane	0.256	0.243	0.245	0.258	0.257	0.252	2.77
28) T	1,1,1-Trichloroethane	0.492	0.470	0.454	0.479	0.481	0.475	3.01
29) T	Cyclohexane	0.396	0.418	0.464	0.519	0.512	0.462	11.90
30) T	1,1-Dichloropropene	0.293	0.297	0.316	0.349	0.354	0.322	8.84
31) T	Carbon tetrachloride	0.469	0.451	0.434	0.456	0.453	0.453	2.74
32) S	1,2-Dichloroethane-d4	0.345	0.331	0.328	0.337	0.323	0.333	2.54
33) T	1,2-Dichloroethane	0.413	0.401	0.383	0.413	0.396	0.401	3.08
34) T	Benzene	0.946	0.949	0.947	1.022	1.014	0.976	3.97
35) T	Trichloroethene	0.208	0.210	0.215	0.251	0.266	0.230	11.57
36) C	1,2-Dichloropropane	0.225	0.228	0.228	0.257	0.255	0.239	6.62
37) T	Bromodichloromethane	0.340	0.333	0.325	0.362	0.361	0.344	4.85
38) T	Dibromomethane	0.139	0.134	0.128	0.144	0.142	0.137	4.68
39) T	2-Chloroethylvinyl et	0.023	0.027	0.032	0.031	0.022	0.027	17.23
40) T	4-Methyl-2-pentanone	0.047	0.051	0.062	0.083	0.084	0.065	26.70LR,F
41) T	cis-1,3-Dichloroprope	0.257	0.283	0.313	0.387	0.398	0.327	19.09LR,F
42) T	Dimethyl disulfide	0.102	0.127	0.164	0.220	0.232	0.169	33.44
43) I	Chlorobenzene-d5	-----ISTD-----						

Response Factor Report HPMS_6

Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
 Title : Method 8260B_SOIL - ICAL 09/29/98
 Last Update : Tue Sep 29 15:04:21 1998
 Response via : Initial Calibration

Calibration Files
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 50 =6ST10250.D 100 =6ST10251.D

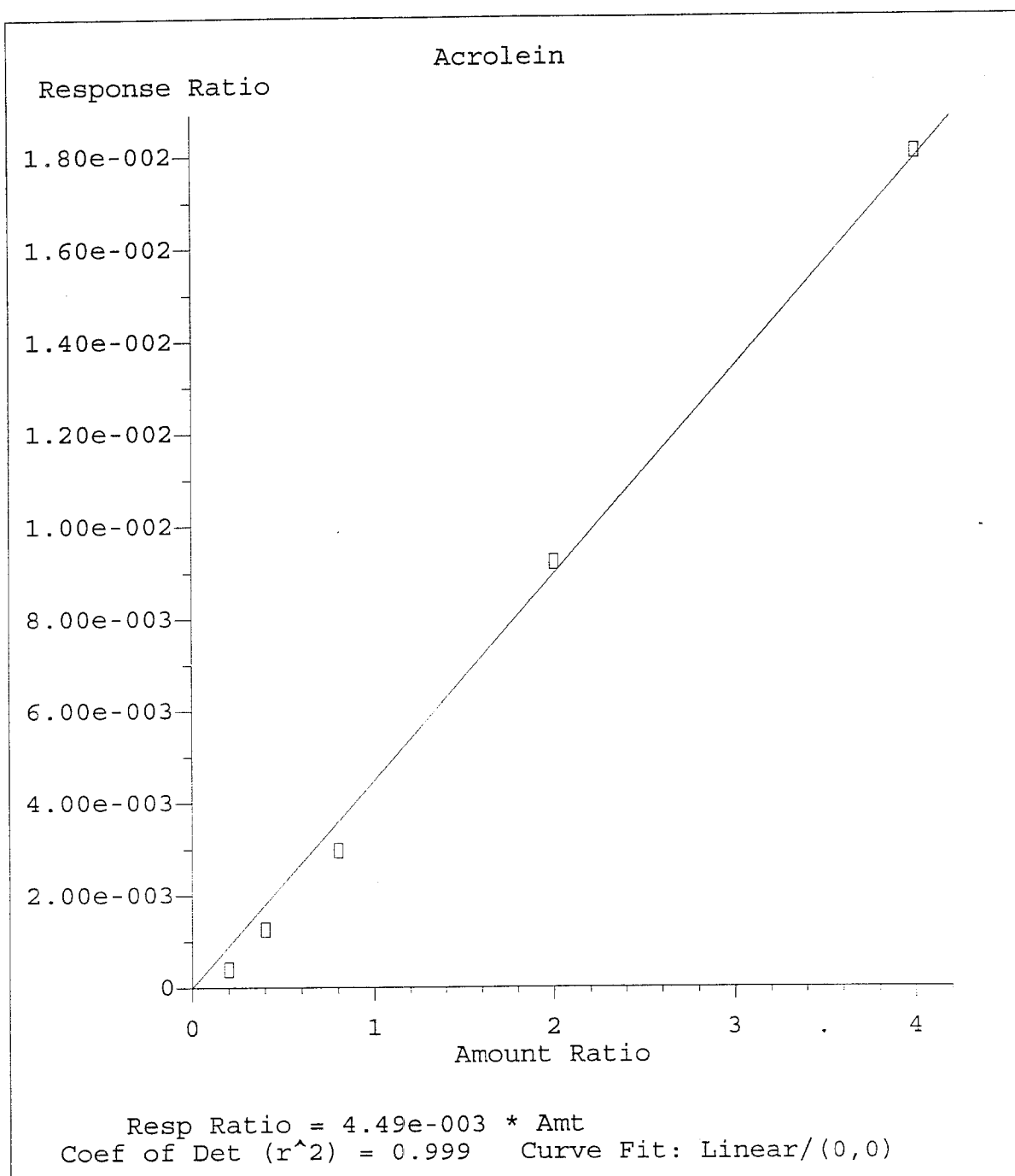
	Compound	5	10	20	50	100	Avg	%RSD
44)	S Toluene-d8	0.994	1.048	1.097	1.159	1.147	1.089	6.32
45)	C Toluene	1.372	1.342	1.327	1.462	1.424	1.386	4.09
46)	T Ethyl methacrylate	0.238	0.264	0.305	0.384	0.381	0.315	21.21
47)	T trans-1,3-Dichloropro	0.420	0.447	0.447	0.512	0.495	0.464	8.17
48)	T 1,1,2-Trichloroethane	0.249	0.251	0.234	0.253	0.242	0.246	3.22
49)	T 2-Hexanone	0.143	0.148	0.167	0.229	0.220	0.181	22.25 LRF
50)	T 1,3-Dichloropropane	0.438	0.434	0.420	0.475	0.453	0.444	4.67
51)	T Tetrachloroethene	0.269	0.275	0.265	0.291	0.296	0.279	4.85
52)	T Dibromochloromethane	0.295	0.301	0.289	0.331	0.329	0.309	6.39
53)	T 1,2-Dibromoethane	0.205	0.207	0.205	0.246	0.244	0.221	9.70
54)	T 1-Chlorohexane	0.300	0.363	0.431	0.509	0.519	0.424	22.13
55)	P Chlorobenzene	0.927	0.914	0.875	0.975	0.987	0.936	4.89
56)	T 1,1,1,2-Tetrachloroet	0.348	0.344	0.336	0.380	0.387	0.359	6.37
57)	C Ethylbenzene	0.478	0.510	0.508	0.575	0.597	0.534	9.42
58)	T m+p-Xylene	0.598	0.633	0.629	0.710	0.733	0.661	8.77
59)	T o-Xylene	0.449	0.480	0.533	0.641	0.667	0.554	17.47 LRF
60)	T Styrene	0.823	0.893	0.935	1.092	1.133	0.975	13.57
61)	P Bromoform	0.197	0.198	0.191	0.223	0.224	0.206	7.53
62)	T Isopropylbenzene	1.487	1.350	1.474	1.743	1.816	1.574	12.50
-----ISTD-----								
63)	I 1,4-Dichlorobenzene-d							
64)	P 1,1,2,2-Tetrachloroet	0.591	0.579	0.524	0.561	0.534	0.558	5.12
65)	S p-Bromofluorobenzene	0.661	0.709	0.776	0.861	0.870	0.776	11.86
66)	T 1,2,3-Trichloropropan	0.201	0.190	0.172	0.187	0.179	0.186	6.11
67)	T trans-1,4-dichloro-2	0.197	0.195	0.197	0.229	0.218	0.207	7.46
68)	T propyl-benzene	3.198	3.444	3.426	3.672	3.708	3.490	5.95
69)	T Bromobenzene	0.628	0.634	0.611	0.689	0.697	0.652	5.89
70)	T 1,3,5-Trimethylbenzen	2.018	2.220	2.265	2.567	2.612	2.336	10.68
71)	T 2-Chlorotoluene	2.110	2.139	2.079	2.255	2.237	2.164	3.61
72)	T 4-Chlorotoluene	2.046	2.193	2.143	2.314	2.283	2.196	4.93
73)	T alpha-methyl-styrene	0.984	0.926	1.094	1.351	1.415	1.154	18.94
74)	T tert-butyl-benzene	2.029	2.105	2.102	2.339	2.399	2.195	7.43
75)	T 1,2,4-Trimethylbenzen	2.324	2.407	2.368	2.660	2.697	2.491	6.99
76)	T sec-butyl-benzene	2.676	2.931	2.966	3.390	3.489	3.090	10.99
77)	T p-isopropyl-toluene	2.229	2.416	2.420	2.833	2.952	2.570	11.95
78)	T 1,3-Dichlorobenzene	1.256	1.273	1.234	1.382	1.425	1.314	6.41
79)	T 1,4-Dichlorobenzene	1.455	1.390	1.305	1.442	1.461	1.411	4.64
80)	T n-butyl-benzene	2.260	2.414	2.357	2.694	2.770	2.499	8.86
81)	T 1,2-Dichlorobenzene	1.078	1.102	1.072	1.230	1.264	1.149	7.90
82)	T 1,2-dibromo-3-chlorop	0.093	0.089	0.087	0.105	0.109	0.096	10.22
83)	T 1,2,4-Trichlorobenzen	0.676	0.636	0.627	0.780	0.829	0.710	12.72
84)	T Hexachlorobutadiene	0.507	0.468	0.422	0.491	0.516	0.481	7.85
85)	T Naphthalene	1.088	1.056	1.121	1.459	1.478	1.240	16.91 LRF
86)	T 1,2,3-Trichlorobenzen	0.600	0.568	0.566	0.689	0.712	0.627	10.97

(#) = Out of Range
 8260BSL.M

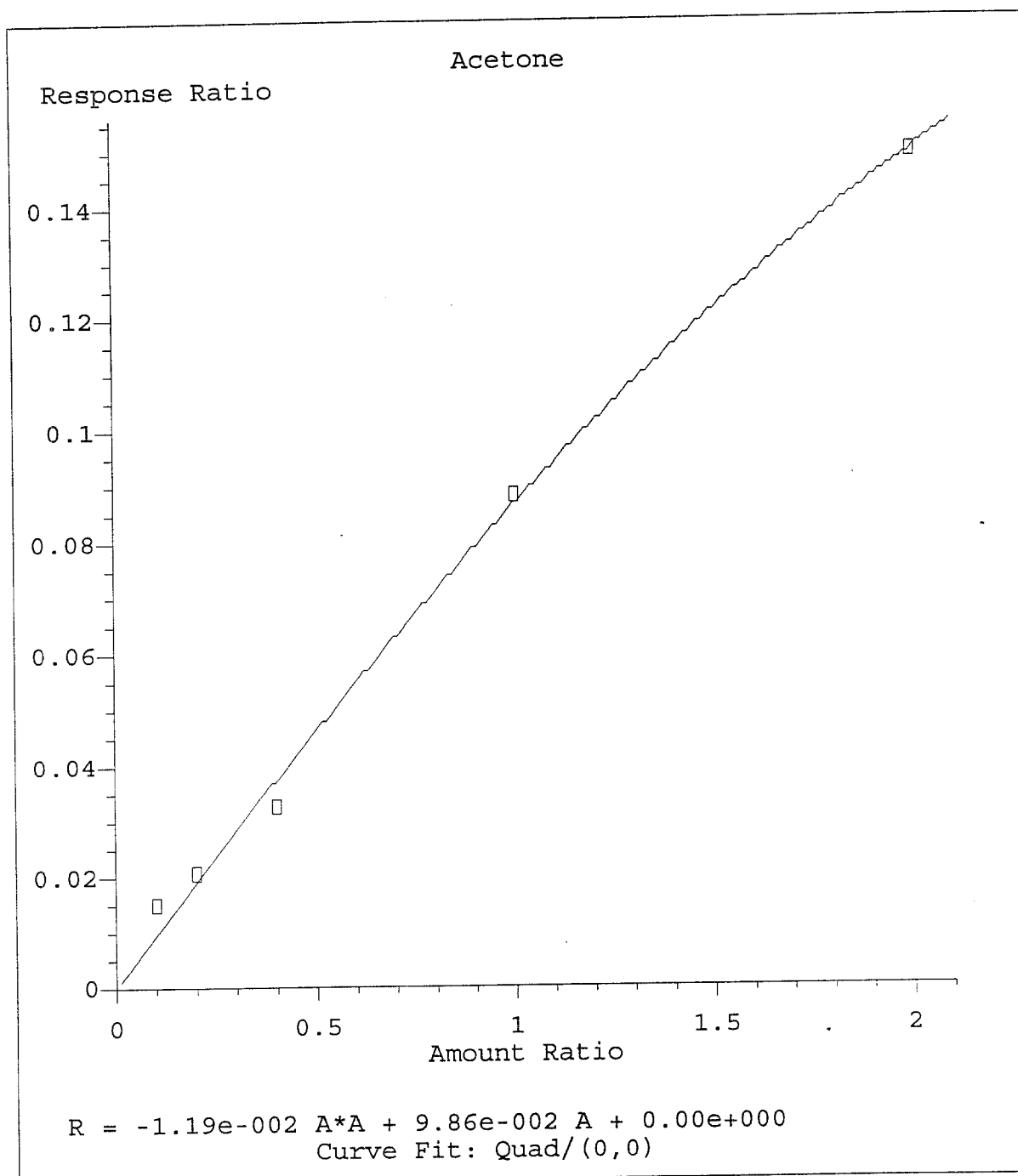
Tue Sep 29 16:49:03 1998

HPMS_6

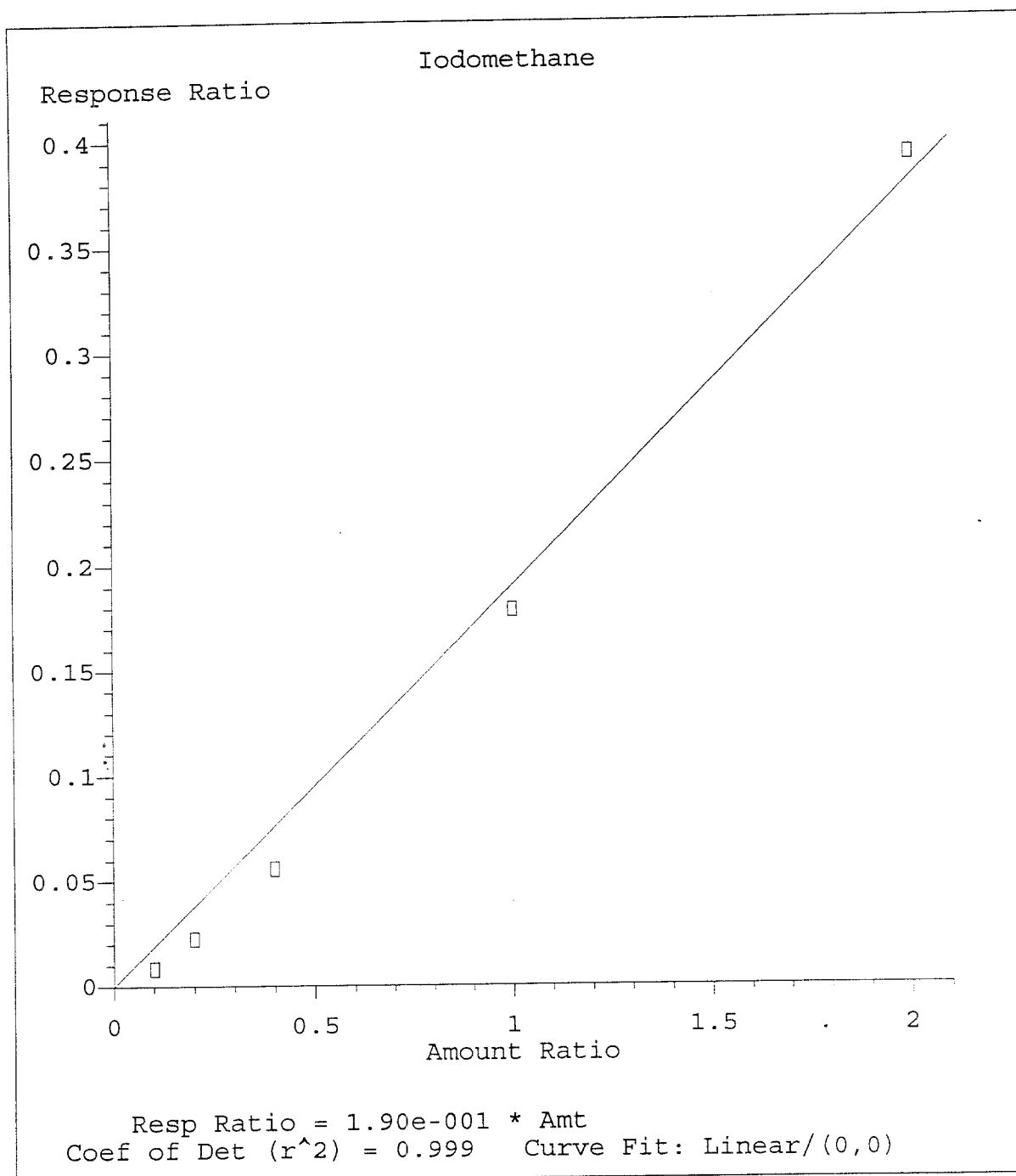
-Page 2



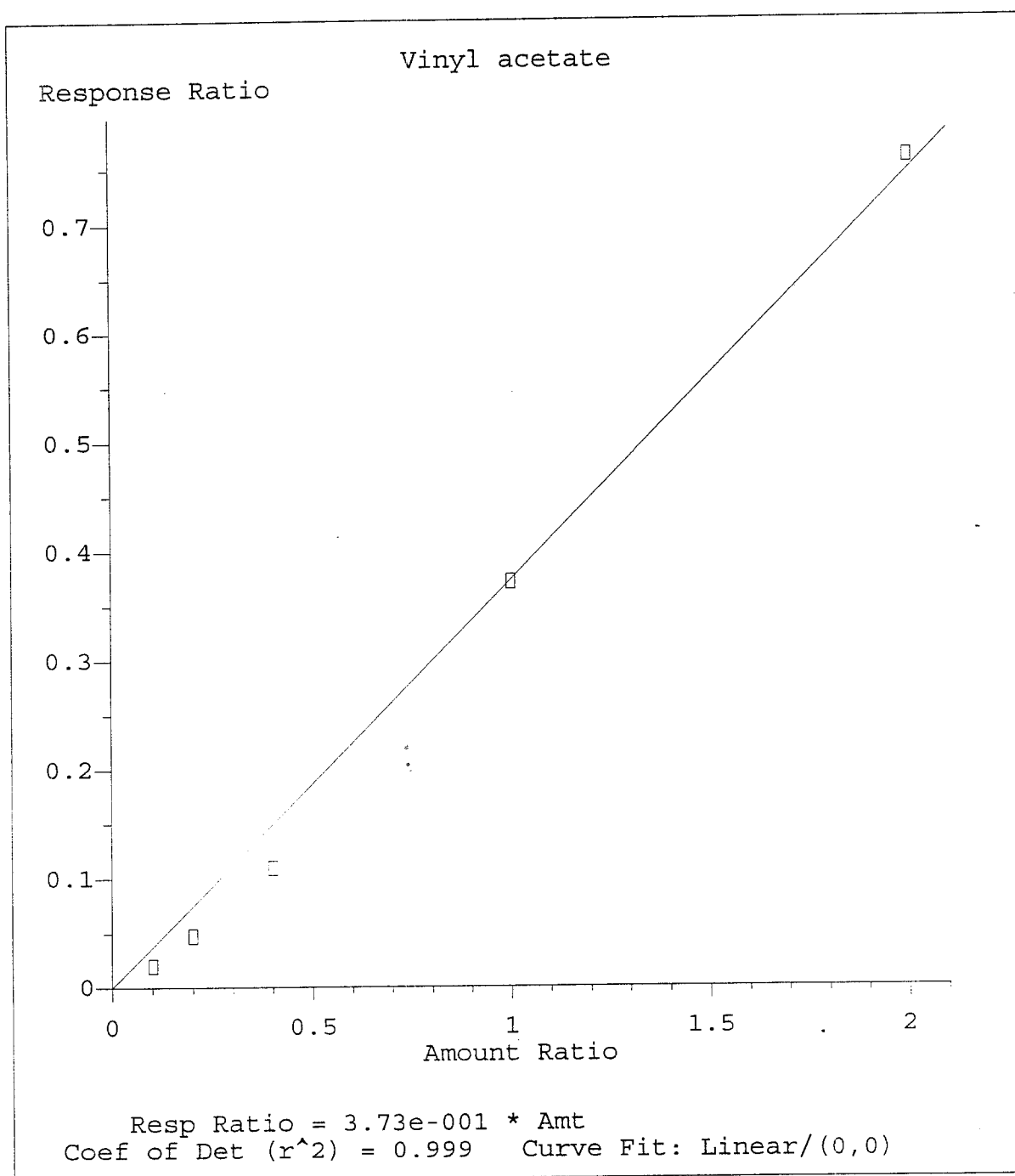
Method Name: C:\HPCHEM\1\METHODS\8260BSL.M
Calibration Table Last Updated: Tue Sep 29 14:56:32 1998



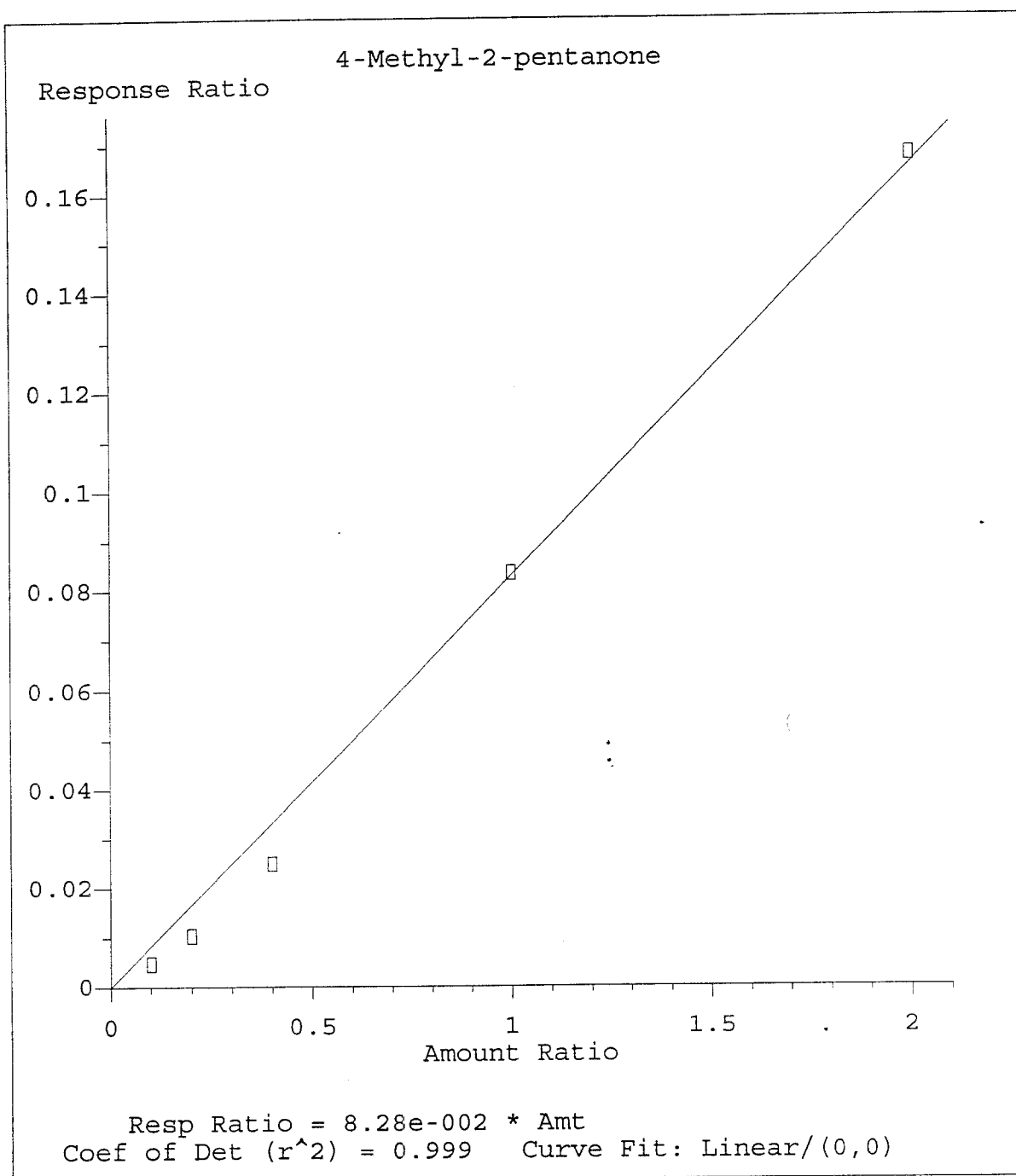
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Calibration Table Last Updated: Tue Sep 29 14:56:56 1998



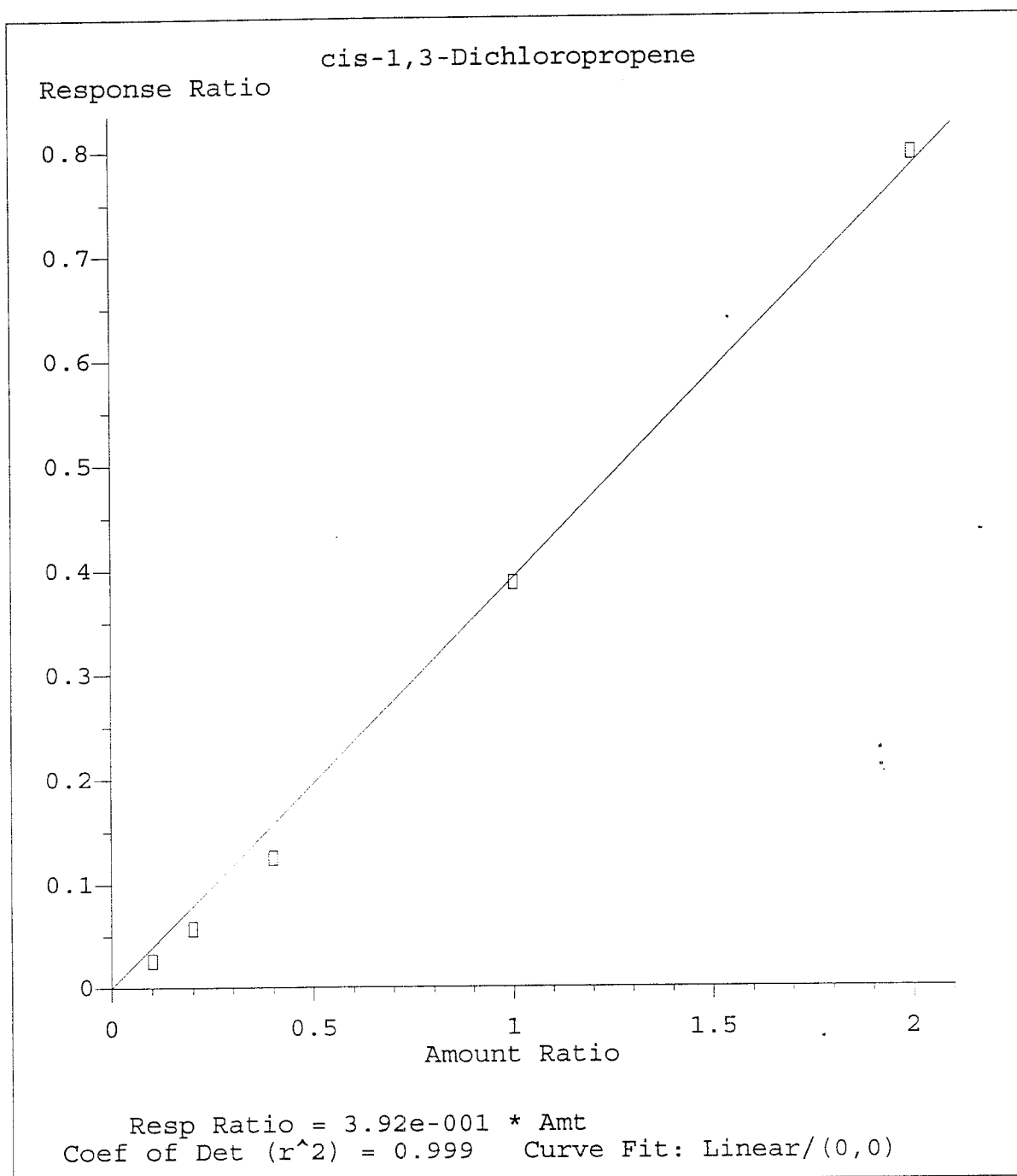
Method Name: C:\HPCHEM\1\METHODS\8260BSL.M
Calibration Table Last Updated: Wed Sep 30 22:02:29 1998



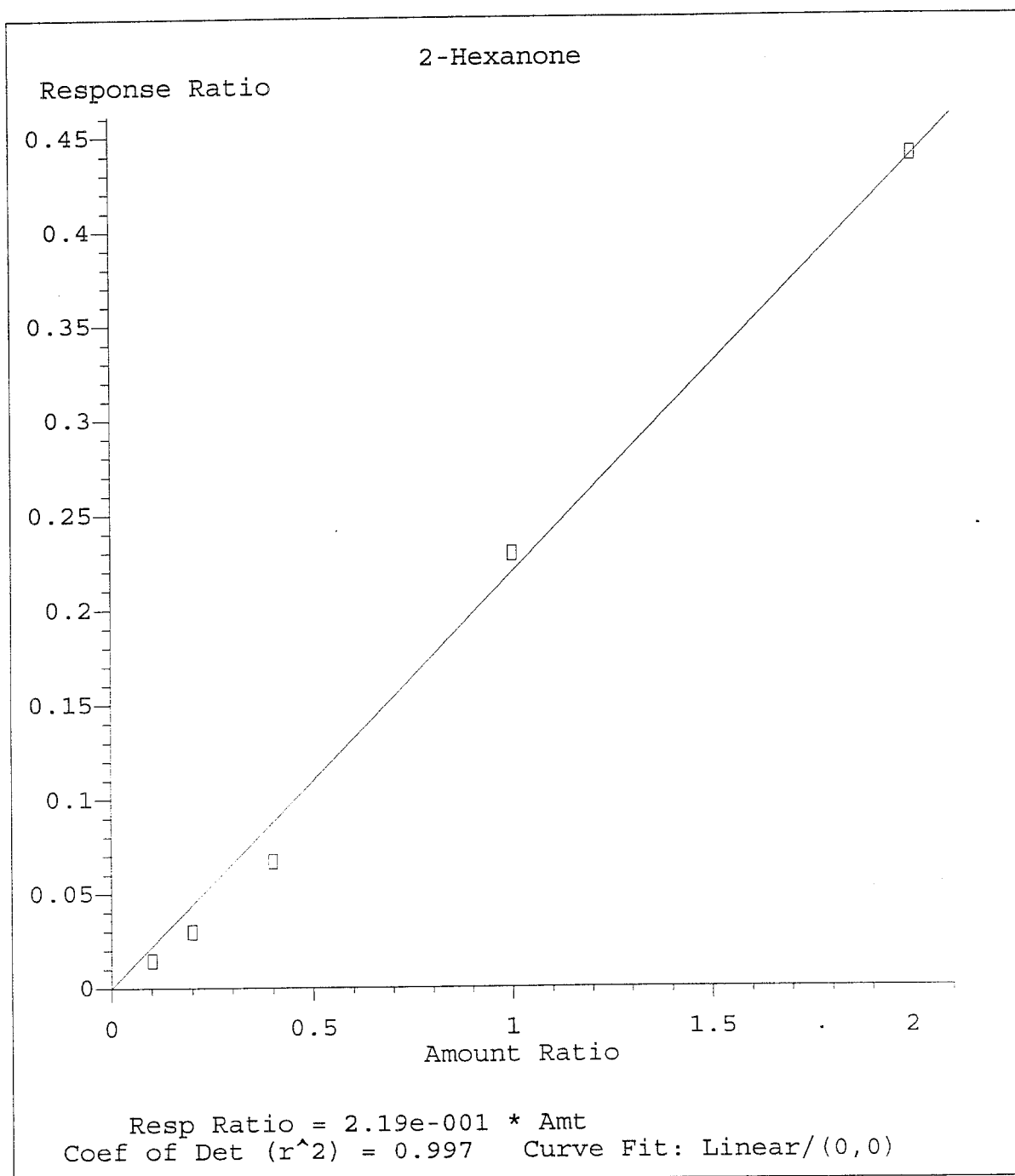
Method Name: C:\HPCHEM\1\METHODS\8260BSL.M
Calibration Table Last Updated: Tue Sep 29 15:01:41 1998



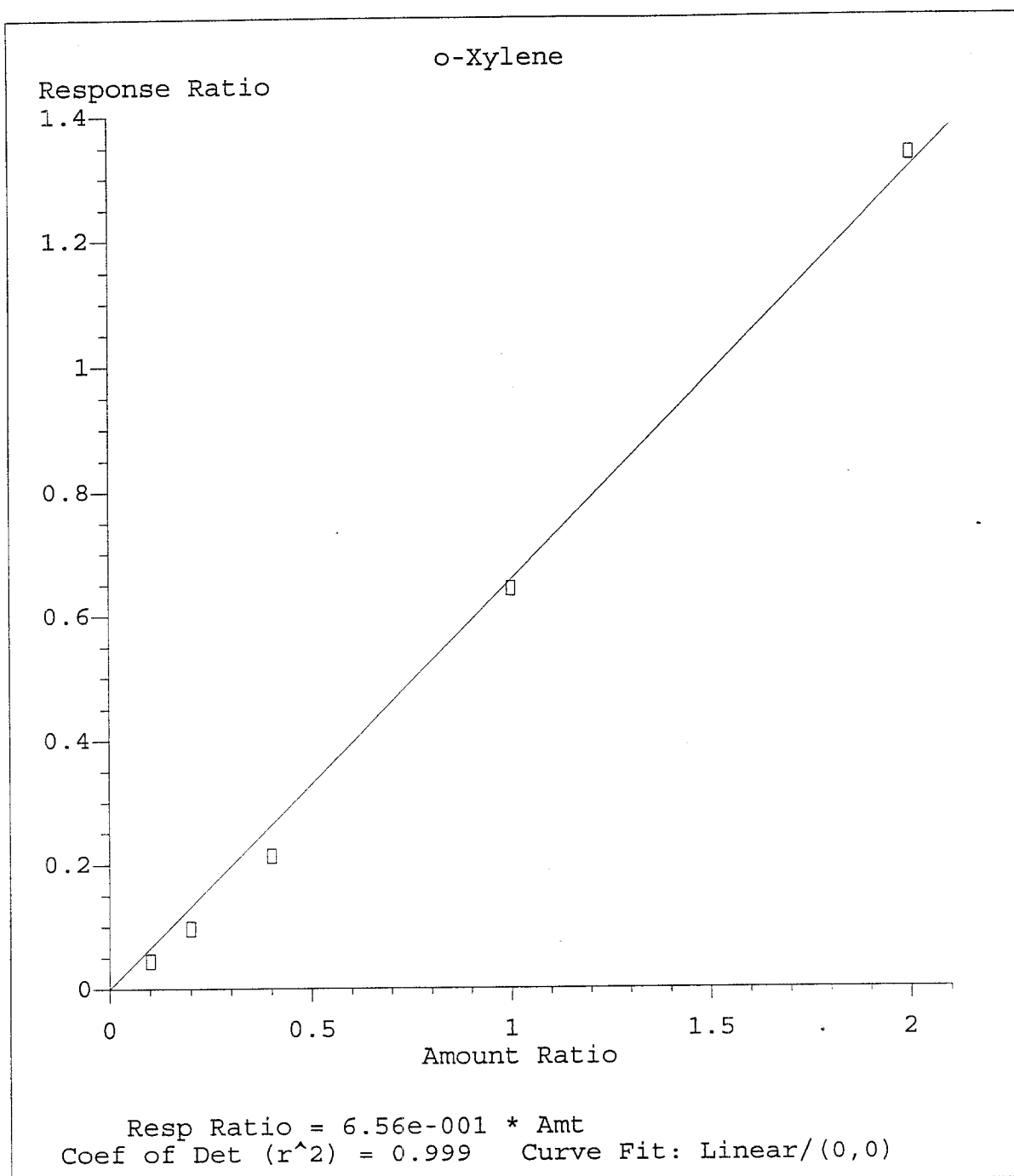
Method Name: C:\HPCHEM\1\METHODS\8260BSL.M
Calibration Table Last Updated: Tue Sep 29 15:02:18 1998



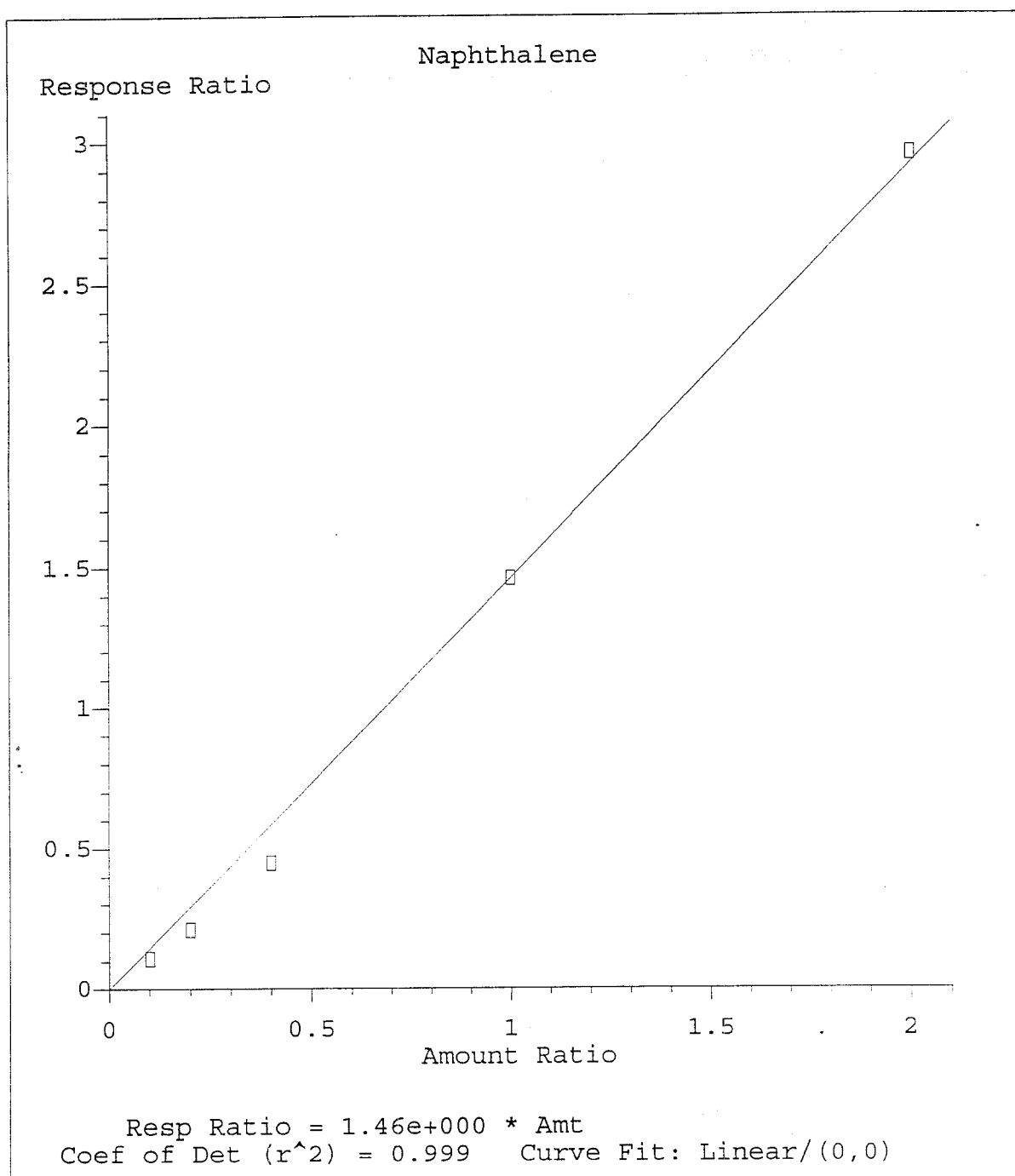
Method Name: C:\HPCHEM\1\METHODS\8260BSL.M
Calibration Table Last Updated: Tue Sep 29 15:02:27 1998



Method Name: C:\HPCHEM\1\METHODS\8260BSL.M
Calibration Table Last Updated: Tue Sep 29 15:02:53 1998



Method Name: C:\HPCHEM\1\METHODS\8260BSL.M
Calibration Table Last Updated: Tue Sep 29 15:03:38 1998



Method Name: C:\HPCHEM\1\METHODS\8260BSL.M
Calibration Table Last Updated: Tue Sep 29 15:04:05 1998

Quantitation Report

Data File : C:\HPCHEM\1\DATA\092998\6ST10254.D
Acq On : 29 Sep 1998 14:01
Sample : VSTD050 5 PPB STD M8260 5G/5ML
Misc : 5ML PURGE
MS Integration Params: rtint.p
Quant Time: Sep 29 15:50 1998

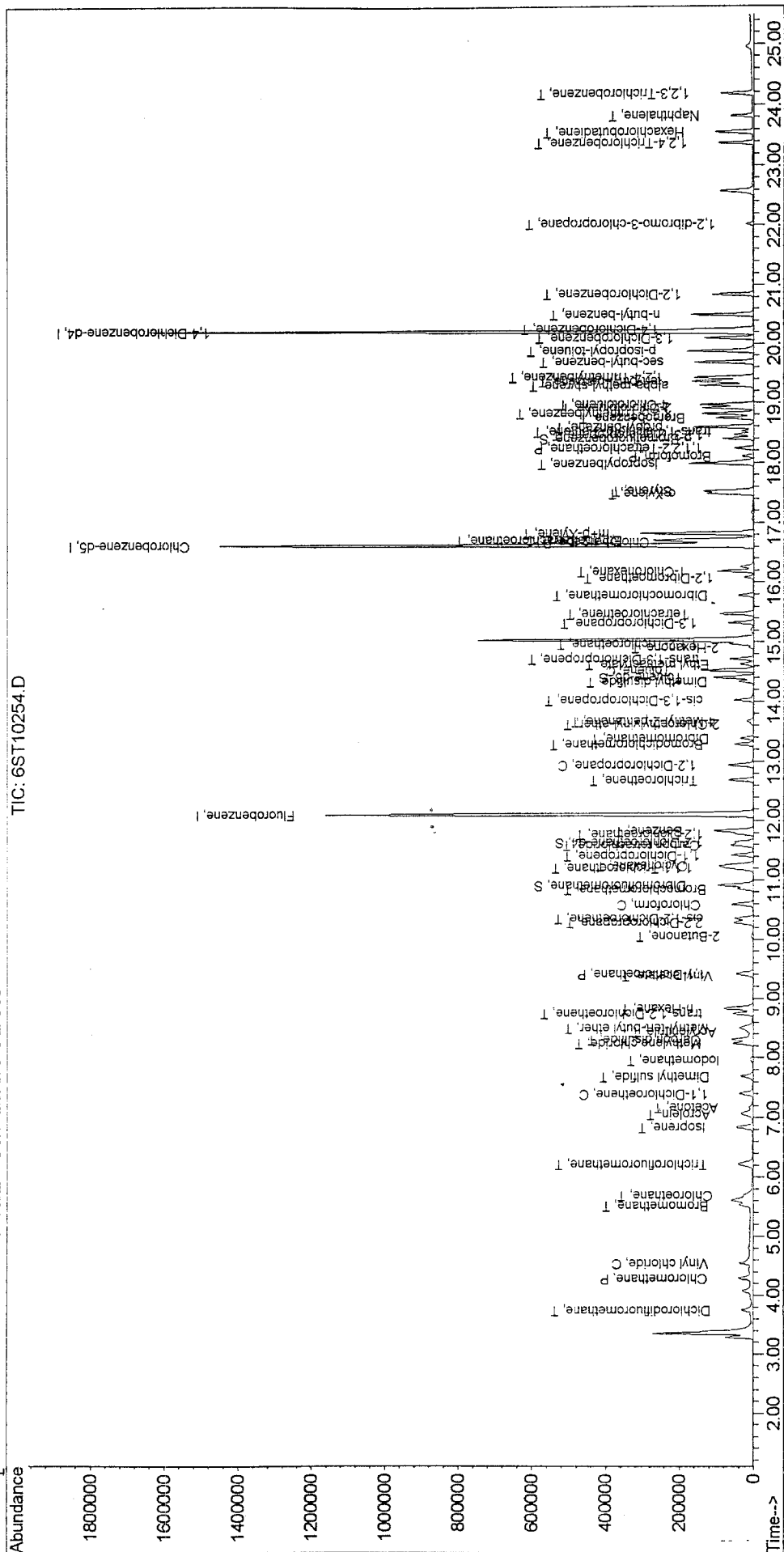
Vial: 10
Operator: CMS
Inst : HPMS_6
Multiplr: 1.00

Quant Results File: 8260BSL.RES

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Method      : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
Title       : Method 8260B_SOIL - ICAL 09/29/98
Last Update : Tue Sep 29 15:04:21 1998
Response via : Initial Calibration

```



Data File : C:\HPCHEM\1\DATA\092998\6ST10254.D
 Acq On : 29 Sep 1998 14:01
 Sample : VSTD050 5 PPB STD M8260 5G/5ML
 Misc : 5ML PURGE
 MS Integration Params: rteint.p
 Quant Time: Sep 29 15:50 1998

Vial: 10
 Operator: CMS
 Inst : HPMS_6
 Multiplr: 1.00

Quant Results File: 8260BSL.R

Quant Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
 Title : Method 8260B SOIL - ICAL 09/29/98
 Last Update : Tue Sep 29 15:04:21 1998
 Response via : Initial Calibration
 DataAcq Meth : 8260BSL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene	12.11	96	1364639	50.00	ug/Kg	0.00
43) Chlorobenzene-d5	16.62	117	1027130	50.00	ug/Kg	0.00
63) 1,4-Dichlorobenzene-d4	20.20	152	555431	50.00	ug/Kg	0.00

System Monitoring Compounds

27) Dibromofluoromethane	10.92	111	34956	5.08	ug/Kg	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	10.16%#
32) 1,2-Dichloroethane-d4	11.65	65	47030	5.18	ug/Kg	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	10.36%#
44) Toluene-d8	14.41	98	102119	4.56	ug/Kg	0.00
Spiked Amount	50.000	Range	81 - 117	Recovery	=	9.12%#
65) p-Bromofluorobenzene	18.40	95	36706	4.26	ug/Kg	0.00
Spiked Amount	50.000	Range	74 - 121	Recovery	=	8.52%#

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	3.76	85	46865	5.25	ug/Kg 94
3) Chloromethane	4.29	50	58457	5.53	ug/Kg 98
4) Vinyl chloride	4.55	62	40798	5.93	ug/Kg 99
5) Bromomethane	5.52	94	37156	5.95	ug/Kg 98
6) Chloroethane	5.70	64	26365	5.33	ug/Kg 98
7) Trichlorofluoromethane	6.22	101	74226	5.31	ug/Kg# 97
8) Isoprene	6.84	67	32830	3.85	ug/Kg 90
9) Acrolein	7.05	56	535	4.37	ug/Kg# 57
10) Acetone	7.17	43	20598	7.80	ug/Kg# 39
11) 1,1-Dichloroethene	7.40	96	24154	4.69	ug/Kg 80
12) Dimethyl sulfide	7.69	62	22957	3.02	ug/Kg# 77
13) Iodomethane	7.96	142	11360	2.19	ug/Kg# 80
14) Methylene chloride	8.25	84	34161	5.32	ug/Kg# 63
15) Carbon disulfide	8.31	76	120770	5.23	ug/Kg 99
16) Acrylonitrile	8.44	53	9863	4.81	ug/Kg 98
17) Methyl-tert-butyl ether	8.51	73	59049	4.42	ug/Kg 94
18) trans-1,2-Dichloroethene	8.75	96	27308	4.80	ug/Kg 79
19) n-Hexane	8.83	57	53989	4.46	ug/Kg# 80
20) Vinyl acetate	9.39	43	27150	2.66	ug/Kg# 90
21) 1,1-Dichloroethane	9.42	63	67158	5.08	ug/Kg 98
22) 2-Butanone	10.06	43	13325	4.96	ug/Kg# 80
23) 2,2-Dichloropropane	10.29	77	56865	4.86	ug/Kg 98
24) cis-1,2-Dichloroethene	10.36	96	27787	4.41	ug/Kg# 75
25) Chloroform	10.59	83	68495	5.19	ug/Kg# 96
26) Bromochloromethane	10.85	128	13603	4.98	ug/Kg# 83
28) 1,1,1-Trichloroethane	11.21	97	67133	5.18	ug/Kg# 85

(#) = qualifier out of range (m) = manual integration
 6ST10254.D 8260BSL.M Tue Sep 29 15:51:18 1998

Data File : C:\HPCHEM\1\DATA\092998\6ST10254.D
 Acq On : 29 Sep 1998 14:01
 Sample : VSTD050 5 PPB STD M8260 5G/5ML
 Misc : 5ML PURGE
 MS Integration Params: rteint.p
 Quant Time: Sep 29 15:50 1998

Vial: 10
 Operator: CMS
 Inst : HPMS_6
 Multiplr: 1.00

Quant Results File: 8260BSL.R

Quant Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
 Title : Method 8260B SOIL - ICAL 09/29/98
 Last Update : Tue Sep 29 15:04:21 1998
 Response via : Initial Calibration
 DataAcq Meth : 8260BSL

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
29) Cyclohexane	11.25	56	54043	4.29	ug/Kg#	81
30) 1,1-Dichloropropene	11.42	75	39964	4.55	ug/Kg#	81
31) Carbon tetrachloride	11.60	117	63954	5.18	ug/Kg#	97
33) 1,2-Dichloroethane	11.78	62	56339m	5.14	ug/Kg	
34) Benzene	11.83	78	129152	4.85	ug/Kg	94
35) Trichloroethene	12.69	130	28375	4.52	ug/Kg#	72
36) 1,2-Dichloropropane	12.94	63	30680	4.71	ug/Kg	96
37) Bromodichloromethane	13.29	83	46451	4.94	ug/Kg	99
38) Dibromomethane	13.38	93	19003	5.06	ug/Kg#	80
39) 2-Chloroethylvinyl-ether	13.62	63	3161	3.14	ug/Kg#	65
40) 4-Methyl-2-pentanone	13.67	58	6379	2.82	ug/Kg#	82
41) cis-1,3-Dichloropropene	14.02	75	35067	3.28	ug/Kg	95
42) Dimethyl disulfide	14.33	79	13915	2.25	ug/Kg	99
45) Toluene	14.52	91	140944	4.95	ug/Kg	97
46) Ethyl methacrylate	14.62	69	24469	3.15	ug/Kg#	89
47) trans-1,3-Dichloropropene	14.71	75	43168	4.53	ug/Kg	92
48) 1,1,2-Trichloroethane	14.97	97	25604	5.07	ug/Kg	95
49) 2-Hexanone	14.91	43	14676	3.26	ug/Kg#	80
50) 1,3-Dichloropropane	15.33	76	45024	4.93	ug/Kg#	69
51) Tetrachloroethene	15.48	164	27672	4.82	ug/Kg#	88
52) Dibromochloromethane	15.79	129	30334	4.78	ug/Kg	100
53) 1,2-Dibromoethane	16.08	107	21087	4.64	ug/Kg	99
54) 1-Chlorohexane	16.19	91	30829	2.93	ug/Kg#	59
55) Chlorobenzene	16.68	112	95237	4.96	ug/Kg#	79
56) 1,1,1,2-Tetrachloroethane	16.72	131	35693	4.84	ug/Kg#	45
57) Ethylbenzene	16.71	106	49094	4.48	ug/Kg	88
58) m+p-Xylene	16.82	106	122817	9.05	ug/Kg	83
59) o-Xylene	17.49	106	46075	3.42	ug/Kg	92
60) Styrene	17.53	104	84568	4.22	ug/Kg	89
61) Bromoform	18.11	173	20222	4.77	ug/Kg	96
62) Isopropylbenzene	17.99	105	152688	4.72	ug/Kg	94
64) 1,1,2,2-Tetrachloroethane	18.24	83	32821	5.30	ug/Kg	100
66) 1,2,3-Trichloropropane	18.47	110	11189	5.42	ug/Kg	92
67) trans-1,4-dichloro-2-buten	18.53	53	10963	4.76	ug/Kg#	42
68) propyl-benzene	18.59	91	177615	4.58	ug/Kg	92
69) Bromobenzene	18.74	156	34894	4.82	ug/Kg	98
70) 1,3,5-Trimethylbenzene	18.82	105	112096	4.32	ug/Kg	92
71) 2-Chlorotoluene	18.91	91	116985m	4.87	ug/Kg	
72) 4-Chlorotoluene	18.97	91	113638	4.66	ug/Kg#	92
73) alpha-methyl-styrene	19.29	118	54661	3.54	ug/Kg	98
74) tert-butyl-benzene	19.36	119	112703	4.62	ug/Kg	97

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\092998\6ST10254.D
Acq On : 29 Sep 1998 14:01
Sample : VSTD050 5 PPB STD M8260 5G/5ML
Misc : 5ML PURGE
MS Integration Params: rteint.p
Quant Time: Sep 29 15:50 1998

Vial: 10
Operator: CMS
Inst : HPMS_6
Multiplr: 1.00

Quant Results File: 8260BSL.R

Quant Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
Title : Method 8260B_SOIL - ICAL 09/29/98
Last Update : Tue Sep 29 15:04:21 1998
Response via : Initial Calibration
DataAcq Meth : 8260BSL

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
75) 1,2,4-Trimethylbenzene	19.43	105	129056	4.66	ug/Kg	90
76) sec-butyl-benzene	19.69	105	148618	4.33	ug/Kg	94
77) p-isopropyl-toluene	19.87	119	123820	4.34	ug/Kg	96
78) 1,3-Dichlorobenzene	20.10	146	69772	4.78	ug/Kg	97
79) 1,4-Dichlorobenzene	20.25	146	80833	5.16	ug/Kg	99
80) n-butyl-benzene	20.50	91	125544	4.52	ug/Kg	89
81) 1,2-Dichlorobenzene	20.84	146	59887	4.69	ug/Kg	96
82) 1,2-dibromo-3-chloropropan	22.02	157	5154	4.81	ug/Kg#	52
83) 1,2,4-Trichlorobenzene	23.38	180	37537	4.76	ug/Kg	100
84) Hexachlorobutadiene	23.56	225	28156	5.27	ug/Kg	98
85) Naphthalene	23.82	128	60421	3.73	ug/Kg	97
86) 1,2,3-Trichlorobenzene	24.18	180	33330	4.78	ug/Kg	97

(#) = qualifier out of range (m) = manual integration

6ST10254.D 8260BSL.M

Tue Sep 29 15:51:22 1998

HPMS_6 Page 3

Quantitation Report

Data File : C:\HPCHEM\1\DATA\092998\6ST10248.D
Acq On : 29 Sep 1998 10:42
Sample : VSTD050 10 PPB STD M8260 5G/5ML
Misc : 5ML PURGE
MS Integration Params: rteint.p
Quant Time: Sep 29 15:52 1998

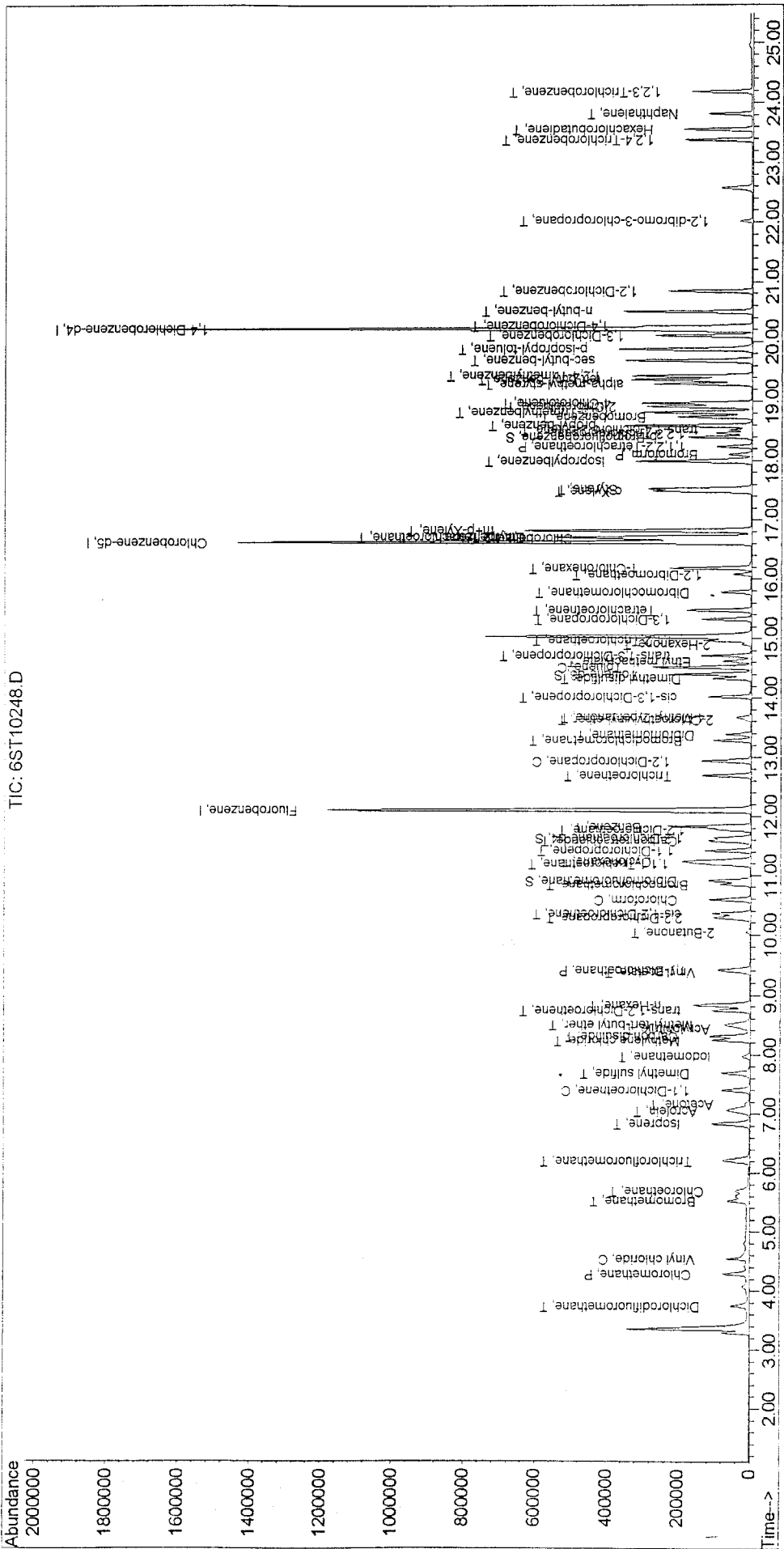
Vial: 4
Operator: CMS
Inst : HPMS 6
Multiplr: 1.00

Quant Results File: 8260BSL.RES

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Method      : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
Title       : Method 8260B_SOIL - ICAL  09/29/98
Last Update : Tue Sep 29 15:04:21 1998
Response via : Initial Calibration

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Data File : C:\HPCHEM\1\DATA\092998\6ST10248.D

Vial: 4

Acq On : 29 Sep 1998 10:42

Operator: CMS

Sample : VSTD050 10 PPB STD M8260 5G/5ML

Inst : HPMS_6

Misc : 5ML PURGE

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Sep 29 15:52 1998

Quant Results File: 8260BSL.R

Quant Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)

Title : Method 8260B SOIL - ICAL 09/29/98

Last Update : Tue Sep 29 15:04:21 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.11	96	1373988	50.00	ug/Kg	0.00
43) Chlorobenzene-d5	16.62	117	1015605	50.00	ug/Kg	0.00
63) 1,4-Dichlorobenzene-d4	20.20	152	563440	50.00	ug/Kg	0.00

System Monitoring Compounds

27) Dibromofluoromethane	10.92	111	66902	9.67	ug/Kg	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	19.34%#
32) 1,2-Dichloroethane-d4	11.65	65	90958	9.95	ug/Kg	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	19.90%#
44) Toluene-d8	14.40	98	212955	9.63	ug/Kg	0.00
Spiked Amount	50.000	Range	81 - 117	Recovery	=	19.26%#
65) p-Bromofluorobenzene	18.40	95	79921	9.14	ug/Kg	0.00
Spiked Amount	50.000	Range	74 - 121	Recovery	=	18.28%#

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.75	85	89419	9.96	ug/Kg#	93
3) Chloromethane	4.29	50	110153	10.34	ug/Kg	98
4) Vinyl chloride	4.54	62	74441	10.75	ug/Kg	99
5) Bromomethane	5.52	94	68601	10.90	ug/Kg	99
6) Chloroethane	5.69	64	53107	10.67	ug/Kg	100
7) Trichlorofluoromethane	6.22	101	143247	10.18	ug/Kg	98
8) Isoprene	6.84	67	73650	8.58	ug/Kg	90
9) Acrolein	7.05	56	1711	13.87	ug/Kg#	74
10) Acetone	7.17	43	28330	10.74	ug/Kg#	42
11) 1,1-Dichloroethene	7.40	96	48011	9.26	ug/Kg#	74
12) Dimethyl sulfide	7.69	62	53950	7.05	ug/Kg#	77
13) Iodomethane	7.97	142	30934	5.92	ug/Kg#	80
14) Methylene chloride	8.24	84	65372	10.12	ug/Kg#	64
15) Carbon disulfide	8.31	76	229304	9.86	ug/Kg	100
16) Acrylonitrile	8.43	53	18656	9.03	ug/Kg	99
17) Methyl-tert-butyl ether	8.50	73	116959	8.69	ug/Kg	94
18) trans-1,2-Dichloroethene	8.75	96	54964	9.59	ug/Kg	78
19) n-Hexane	8.83	57	115081	9.44	ug/Kg#	81
20) Vinyl acetate	9.39	43	64443	6.28	ug/Kg#	93
21) 1,1-Dichloroethane	9.42	63	132414	9.95	ug/Kg	100
22) 2-Butanone	10.05	43	23629	8.74	ug/Kg#	85
23) 2,2-Dichloropropane	10.29	77	113334	9.62	ug/Kg	99
24) cis-1,2-Dichloroethene	10.37	96	58360	9.20	ug/Kg#	75
25) Chloroform	10.60	83	132528	9.97	ug/Kg#	96
26) Bromochloromethane	10.86	128	26251	9.54	ug/Kg#	84
28) 1,1,1-Trichloroethane	11.20	97	129146	9.89	ug/Kg#	83

(#)=qualifier out of range (m)=manual integration

6ST10248.D 8260BSL.M

Tue Sep 29 15:53:18 1998

HPMS_6 Page 1

Data File : C:\HPCHEM\1\DATA\092998\6ST10248.D

Vial: 4

Acq On : 29 Sep 1998 10:42

Operator: CMS

Sample : VSTD050 10 PPB STD M8260 5G/5ML

Inst : HPMS_6

Misc : 5ML PURGE

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Sep 29 15:52 1998

Quant Results File: 8260BSL.R

Quant Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)

Title : Method 8260B_SOIL - ICAL 09/29/98

Last Update : Tue Sep 29 15:04:21 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
29) Cyclohexane	11.25	56	114758	9.05	ug/Kg#	82
30) 1,1-Dichloropropene	11.43	75	81641	9.23	ug/Kg#	80
31) Carbon tetrachloride	11.59	117	123983	9.97	ug/Kg#	98
33) 1,2-Dichloroethane	11.78	62	110199m	9.99	ug/Kg	
34) Benzene	11.84	78	260893	9.73	ug/Kg	94
35) Trichloroethene	12.69	130	57830	9.15	ug/Kg#	72
36) 1,2-Dichloropropane	12.94	63	62747	9.57	ug/Kg	98
37) Bromodichloromethane	13.29	83	91575	9.68	ug/Kg	100
38) Dibromomethane	13.38	93	36939	9.78	ug/Kg	83
39) 2-Chloroethylvinyl-ether	13.62	63	7303	7.32	ug/Kg#	83
40) 4-Methyl-2-pentanone	13.67	58	14106	6.20	ug/Kg#	85
41) cis-1,3-Dichloropropene	14.02	75	77707	7.22	ug/Kg	94
42) Dimethyl disulfide	14.33	79	34896	5.62	ug/Kg	98
45) Toluene	14.52	91	272580	9.69	ug/Kg	97
46) Ethyl methacrylate	14.63	69	53581	6.97	ug/Kg	91
47) trans-1,3-Dichloropropene	14.72	75	90734	9.62	ug/Kg	94
48) 1,1,2-Trichloroethane	14.97	97	50924	10.20	ug/Kg	93
49) 2-Hexanone	14.91	43	30370m	6.83	ug/Kg	
50) 1,3-Dichloropropane	15.33	76	88222	9.78	ug/Kg#	71
51) Tetrachloroethene	15.47	164	55771	9.83	ug/Kg#	90
52) Dibromochloromethane	15.79	129	61055	9.73	ug/Kg	99
53) 1,2-Dibromoethane	16.09	107	42137	9.37	ug/Kg	100
54) 1-Chlorohexane	16.19	91	73743	7.08	ug/Kg#	64
55) Chlorobenzene	16.68	112	185620	9.77	ug/Kg#	79
56) 1,1,1,2-Tetrachloroethane	16.71	131	69948	9.59	ug/Kg#	90
57) Ethylbenzene	16.71	106	103549	9.56	ug/Kg	91
58) m+p-Xylene	16.82	106	257298	19.18	ug/Kg	84
59) o-Xylene	17.49	106	97429	7.31	ug/Kg	90
60) Styrene	17.53	104	181320	9.15	ug/Kg	91
61) Bromoform	18.10	173	40126	9.57	ug/Kg	97
62) Isopropylbenzene	17.99	105	274283	8.58	ug/Kg	95
64) 1,1,2,2-Tetrachloroethane	18.23	83	65290	10.38	ug/Kg	99
66) 1,2,3-Trichloropropane	18.46	110	21437	10.24	ug/Kg	93
67) trans-1,4-dichloro-2-buten	18.52	53	21948	9.39	ug/Kg#	40
68) propyl-benzene	18.59	91	388042	9.87	ug/Kg	92
69) Bromobenzene	18.74	156	71486	9.73	ug/Kg	99
70) 1,3,5-Trimethylbenzene	18.81	105	250136	9.50	ug/Kg	92
71) 2-Chlorotoluene	18.91	91	240993m	9.88	ug/Kg	
72) 4-Chlorotoluene	18.97	91	247115	9.99	ug/Kg	91
73) alpha-methyl-styrene	19.29	118	104401	6.67	ug/Kg	100
74) tert-butyl-benzene	19.36	119	237207	9.59	ug/Kg	97

(#)=qualifier out of range (m)=manual integration

6ST10248.D 8260BSL.M

Tue Sep 29 15:53:22 1998

HPMS_6 Page 2

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Data File : C:\HPCHEM\1\DATA\092998\6ST10248.D

Vial: 4

Acq On : 29 Sep 1998 10:42

Operator: CMS

Sample : VSTD050 10 PPB STD M8260 5G/5ML

Inst : HPMS_6

Misc : 5ML PURGE

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Sep 29 15:52 1998

Quant Results File: 8260BSL.R

Quant Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)

Title : Method 8260B_SOIL - ICAL 09/29/98

Last Update : Tue Sep 29 15:04:21 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
75) 1,2,4-Trimethylbenzene	19.42	105	271287	9.66	ug/Kg	91
76) sec-butyl-benzene	19.68	105	330259	9.48	ug/Kg	94
77) p-isopropyl-toluene	19.87	119	272210	9.40	ug/Kg	96
78) 1,3-Dichlorobenzene	20.09	146	143485	9.69	ug/Kg	97
79) 1,4-Dichlorobenzene	20.25	146	156646	9.85	ug/Kg	89
80) n-butyl-benzene	20.49	91	272004	9.66	ug/Kg	89
81) 1,2-Dichlorobenzene	20.84	146	124139	9.59	ug/Kg	97
82) 1,2-dibromo-3-chloropropan	22.02	157	10020	9.23	ug/Kg#	52
83) 1,2,4-Trichlorobenzene	23.37	180	71672	8.96	ug/Kg	98
84) Hexachlorobutadiene	23.56	225	52760	9.74	ug/Kg	97
85) Naphthalene	23.82	128	118968	7.23	ug/Kg	97
86) 1,2,3-Trichlorobenzene	24.18	180	64053	9.06	ug/Kg	99

(#) = qualifier out of range (m) = manual integration

6ST10248.D 8260BSL.M

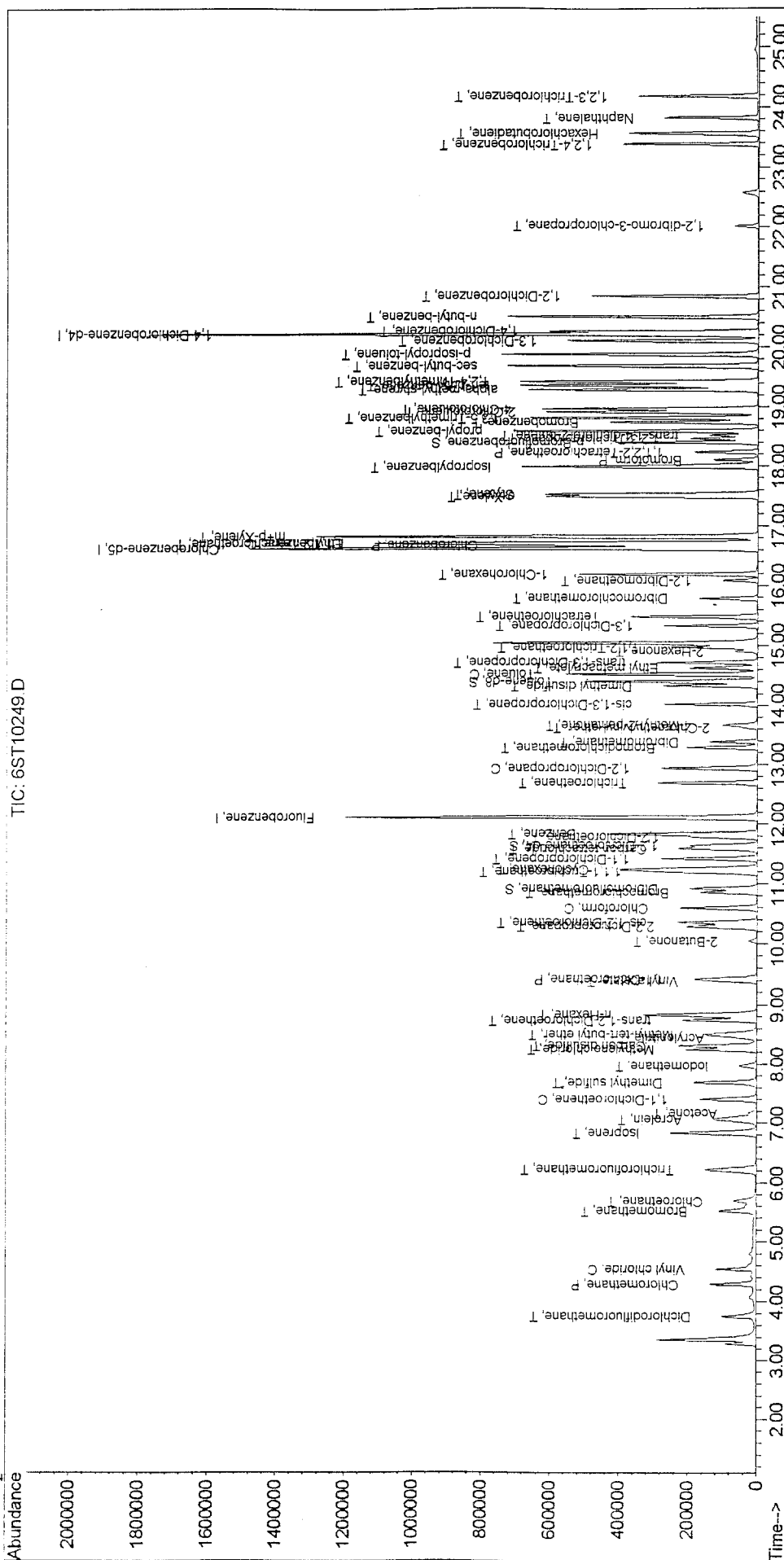
Tue Sep 29 15:53:23 1998

HPMS_6 Page 3

Quantitation Report

Data File : C:\HPCHEM\1\DATA\092998\6ST10249.D
 Acq On : 29 Sep 1998 11:15 Vial: 5
 Sample : VSTD050 20 PPB STD M8260 5G/5ML Operator: CMS
 Misc : 5ML PURGE Inst : HPMS_6
 MS Integration Params: rteint.p Multiplr: 1.00
 Quant Time: Sep 29 15:54 1998 Quant Results File: 8260BSL.RES

Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
 Title : Method 8260B_SOIL - ICAL 09/29/98
 Last Update : Tue Sep 29 15:04:21 1998
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\092998\6ST10249.D

Vial: 5

Acq On : 29 Sep 1998 11:15

Operator: CMS

Sample : VSTD050 20 PPB STD M8260 5G/5ML

Inst : HPMS_6

Misc : 5ML PURGE

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Sep 29 15:54 1998

Quant Results File: 8260BSL.R

Quant Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)

Title : Method 8260B SOIL - ICAL 09/29/98

Last Update : Tue Sep 29 15:04:21 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene	12.11	96	1406648	50.00	ug/Kg	0.00
43) Chlorobenzene-d5	16.62	117	1057712	50.00	ug/Kg	0.00
63) 1,4-Dichlorobenzene-d4	20.20	152	602165	50.00	ug/Kg	0.00

System Monitoring Compounds

27) Dibromofluoromethane	10.92	111	137926	19.46	ug/Kg	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	38.92%#
32) 1,2-Dichloroethane-d4	11.64	65	184682	19.72	ug/Kg	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	39.44%#
44) Toluene-d8	14.40	98	464159	20.15	ug/Kg	0.00
Spiked Amount	50.000	Range	81 - 117	Recovery	=	40.30%#
65) p-Bromofluorobenzene	18.39	95	187012	20.02	ug/Kg	0.00
Spiked Amount	50.000	Range	74 - 121	Recovery	=	40.04%#

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.75	85	185419	20.17	ug/Kg#	94
3) Chloromethane	4.29	50	218720	20.06	ug/Kg	99
4) Vinyl chloride	4.54	62	140770	19.85	ug/Kg	99
5) Bromomethane	5.52	94	128166	19.90	ug/Kg	100
6) Chloroethane	5.70	64	103469	20.31	ug/Kg	99
7) Trichlorofluoromethane	6.22	101	285930	19.84	ug/Kg	99
8) Isoprene	6.84	67	176165	20.05	ug/Kg	90
9) Acrolein	7.06	56	4166	33.00	ug/Kg	97
10) Acetone	7.17	43	46015	17.31	ug/Kg#	40
11) 1,1-Dichloroethene	7.40	96	102313	19.27	ug/Kg	76
12) Dimethyl sulfide	7.68	62	129962	16.59	ug/Kg#	77
13) Iodomethane	7.96	142	78226	14.63	ug/Kg#	83
14) Methylene chloride	8.24	84	123975	18.74	ug/Kg#	63
15) Carbon disulfide	8.31	76	463564	19.46	ug/Kg	99
16) Acrylonitrile	8.44	53	40374	19.09	ug/Kg	98
17) Methyl-tert-butyl ether	8.50	73	263165	19.10	ug/Kg	93
18) trans-1,2-Dichloroethene	8.74	96	112526	19.17	ug/Kg	78
19) n-Hexane	8.83	57	252952	20.26	ug/Kg	84
20) Vinyl acetate	9.39	43	153599	14.62	ug/Kg#	93
21) 1,1-Dichloroethane	9.42	63	263866	19.38	ug/Kg	99
22) 2-Butanone	10.05	43	47965	17.32	ug/Kg#	86
23) 2,2-Dichloropropane	10.29	77	230052	19.08	ug/Kg	99
24) cis-1,2-Dichloroethene	10.36	96	126615	19.50	ug/Kg#	77
25) Chloroform	10.60	83	258183	18.98	ug/Kg#	95
26) Bromochloromethane	10.86	128	53607	19.03	ug/Kg#	84
28) 1,1,1-Trichloroethane	11.20	97	255370	19.10	ug/Kg#	85

(#)=qualifier out of range (m)=manual integration

6ST10249.D 8260BSL.M

Tue Sep 29 15:54:51 1998

HPMS_6 Page 1

Data File : C:\HPCHEM\1\DATA\092998\6ST10249.D

Vial: 5

Acq On : 29 Sep 1998 11:15

Operator: CMS

Sample : VSTD050 20 PPB STD M8260 5G/5ML

Inst : HPMS_6

Misc : 5ML PURGE

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Sep 29 15:54 1998

Quant Results File: 8260BSL.R

Quant Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)

Title : Method 8260B SOIL - ICAL 09/29/98

Last Update : Tue Sep 29 15:04:21 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
29) Cyclohexane	11.24	56	260834	20.08	ug/Kg#	83
30) 1,1-Dichloropropene	11.42	75	177996	19.66	ug/Kg#	82
31) Carbon tetrachloride	11.59	117	244248	19.18	ug/Kg#	98
33) 1,2-Dichloroethane	11.78	62	215748m	19.11	ug/Kg	
34) Benzene	11.83	78	532956	19.41	ug/Kg	94
35) Trichloroethene	12.69	130	121036	18.70	ug/Kg#	72
36) 1,2-Dichloropropane	12.94	63	128394	19.13	ug/Kg	99
37) Bromodichloromethane	13.28	83	182813	18.87	ug/Kg	98
38) Dibromomethane	13.38	93	71998	18.61	ug/Kg	84
39) 2-Chloroethylvinyl-ether	13.62	63	18071	18.60	ug/Kg#	87
40) 4-Methyl-2-pentanone	13.66	58	34884	14.98	ug/Kg	87
41) cis-1,3-Dichloropropene	14.02	75	175991	15.97	ug/Kg	94
42) Dimethyl disulfide	14.33	79	92460	14.53	ug/Kg	96
45) Toluene	14.52	91	561522	19.16	ug/Kg	98
46) Ethyl methacrylate	14.62	69	129055	16.13	ug/Kg	94
47) trans-1,3-Dichloropropene	14.71	75	189199	19.27	ug/Kg	94
48) 1,1,2-Trichloroethane	14.97	97	98807	19.00	ug/Kg	94
49) 2-Hexanone	14.90	43	70695	15.26	ug/Kg#	85
50) 1,3-Dichloropropane	15.33	76	177816	18.92	ug/Kg#	73
51) Tetrachloroethene	15.48	164	112292	19.01	ug/Kg#	89
52) Dibromochloromethane	15.78	129	122067	18.68	ug/Kg	100
53) 1,2-Dibromoethane	16.08	107	86554	18.48	ug/Kg	100
54) 1-Chlorohexane	16.18	91	182378	16.82	ug/Kg#	71
55) Chlorobenzene	16.68	112	370190	18.71	ug/Kg#	77
56) 1,1,1,2-Tetrachloroethane	16.71	131	142104	18.72	ug/Kg#	93
57) Ethylbenzene	16.71	106	214747	19.03	ug/Kg	90
58) m+p-Xylene	16.82	106	531879	38.06	ug/Kg	85
59) o-Xylene	17.49	106	225310	16.24	ug/Kg	92
60) Styrene	17.53	104	395478	19.17	ug/Kg	91
61) Bromoform	18.10	173	80872	18.52	ug/Kg#	97
62) Isopropylbenzene	17.99	105	623534	18.73	ug/Kg	94
64) 1,1,2,2-Tetrachloroethane	18.24	83	126250	18.79	ug/Kg	98
66) 1,2,3-Trichloropropane	18.46	110	41345	18.47	ug/Kg	98
67) trans-1,4-dichloro-2-buten	18.52	53	47483	19.01	ug/Kg#	31
68) propyl-benzene	18.59	91	825287	19.64	ug/Kg	93
69) Bromobenzene	18.74	156	147255	18.75	ug/Kg	98
70) 1,3,5-Trimethylbenzene	18.81	105	545570	19.39	ug/Kg	92
71) 2-Chlorotoluene	18.91	91	500072m	19.19	ug/Kg	
72) 4-Chlorotoluene	18.96	91	516221	19.52	ug/Kg	93
73) alpha-methyl-styrene	19.29	118	263536	15.76	ug/Kg	99
74) tert-butyl-benzene	19.36	119	506191	19.15	ug/Kg	97

(#)=qualifier out of range (m)=manual integration

6ST10249.D 8260BSL.M

Tue Sep 29 15:54:55 1998

HPMS_6 Page 2

Data File : C:\HPCHEM\1\DATA\092998\6ST10249.D

Vial: 5

Acq On : 29 Sep 1998 11:15

Operator: CMS

Sample : VSTD050 20 PPB STD M8260 5G/5ML

Inst : HPMS_6

Misc : 5ML PURGE

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Sep 29 15:54 1998

Quant Results File: 8260BSL.R

Quant Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)

Title : Method 8260B SOIL - ICAL 09/29/98

Last Update : Tue Sep 29 15:04:21 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
75) 1,2,4-Trimethylbenzene	19.42	105	570308	19.01	ug/Kg	93
76) sec-butyl-benzene	19.68	105	714352	19.20	ug/Kg	94
77) p-isopropyl-toluene	19.87	119	582958	18.84	ug/Kg	98
78) 1,3-Dichlorobenzene	20.10	146	297131	18.78	ug/Kg	97
79) 1,4-Dichlorobenzene	20.25	146	314306	18.50	ug/Kg	93
80) n-butyl-benzene	20.49	91	567686	18.86	ug/Kg	91
81) 1,2-Dichlorobenzene	20.84	146	258202	18.66	ug/Kg	97
82) 1,2-dibromo-3-chloropropan	22.02	157	20858	17.97	ug/Kg#	64
83) 1,2,4-Trichlorobenzene	23.38	180	151067	17.68	ug/Kg	98
84) Hexachlorobutadiene	23.56	225	101539	17.54	ug/Kg	97
85) Naphthalene	23.81	128	270029	15.36	ug/Kg	97
86) 1,2,3-Trichlorobenzene	24.18	180	136426	18.06	ug/Kg	99

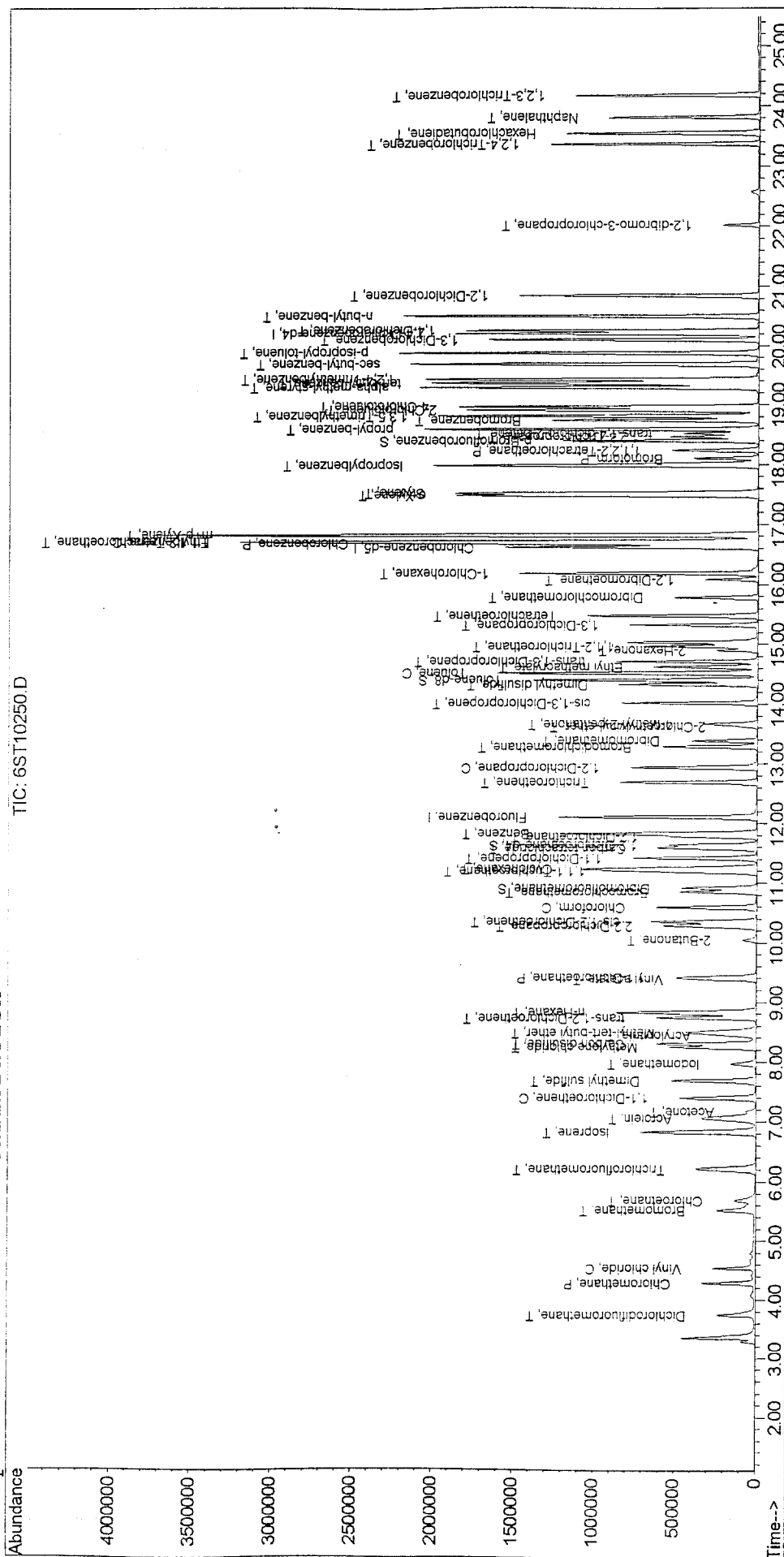
(#) = qualifier out of range (m) = manual integration
6ST10249.D 8260BSL.M Tue Sep 29 15:54:56 1998

HPMS_6 Page 3

Quantitation Report

Data File : C:\HPCHEM\1\DATA\092998\6ST10250.D
 Acq On : 29 Sep 1998 11:47 Vial: 6
 Sample : VSTD050 50 PPB STD M8260 5G/5ML Operator: CMS
 Misc : 5ML PURGE Inst : HPMS 6
 MS Integration Params: rteint.p Multiplr: 1.00
 Quant Time: Sep 29 15:56 1998 Quant Results File: 8260BSL.RES

Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
 Title : Method 8260B_SOIL - ICAL 09/29/98
 Last Update : Tue Sep 29 15:04:21 1998
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\092998\6ST10250.D

Vial: 6

Acq On : 29 Sep 1998 11:47

Operator: CMS

Sample : VSTD050 50 PPB STD M8260 5G/5ML

Inst : HPMS_6

Misc : 5ML PURGE

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Sep 29 15:56 1998

Quant Results File: 8260BSL.R

Quant Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)

Title : Method 8260B SOIL - ICAL 09/29/98

Last Update : Tue Sep 29 15:04:21 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.11	96	1451938	50.00	ug/Kg	0.00
43) Chlorobenzene-d5	16.62	117	1130223	50.00	ug/Kg	0.00
63) 1,4-Dichlorobenzene-d4	20.20	152	655294	50.00	ug/Kg	0.00

System Monitoring Compounds

27) Dibromofluoromethane	10.92	111	373933	51.12	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery	=	102.24%	
32) 1,2-Dichloroethane-d4	11.64	65	490101m	50.71	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery	=	101.42%	
44) Toluene-d8	14.40	98	1309677	53.20	ug/Kg	0.00
Spiked Amount 50.000	Range 81 - 117		Recovery	=	106.40%	
65) p-Bromofluorobenzene	18.39	95	564156	55.50	ug/Kg	0.00
Spiked Amount 50.000	Range 74 - 121		Recovery	=	111.00%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.75	85	474968	50.05	ug/Kg	94
3) Chloromethane	4.29	50	538951	47.89	ug/Kg	100
4) Vinyl chloride	4.54	62	342414	46.78	ug/Kg	99
5) Bromomethane	5.52	94	304271	45.76	ug/Kg	99
6) Chloroethane	5.69	64	251879	47.89	ug/Kg	100
7) Trichlorofluoromethane	6.21	101	736540	49.51	ug/Kg	99
8) Isoprene	6.83	67	534217	58.90	ug/Kg	92
9) Acrolein	7.05	56	13368	102.58	ug/Kg	95
10) Acetone	7.17	43	128182	51.05	ug/Kg#	38
11) 1,1-Dichloroethene	7.40	96	294089	53.67	ug/Kg	77
12) Dimethyl sulfide	7.68	62	399659	49.44	ug/Kg	83
13) Iodomethane	7.96	142	259016	46.94	ug/Kg#	84
14) Methylene chloride	8.24	84	340057	49.81	ug/Kg#	67
15) Carbon disulfide	8.31	76	1241201	50.49	ug/Kg	100
16) Acrylonitrile	8.44	53	121955	55.85	ug/Kg	98
17) Methyl-tert-butyl ether	8.50	73	815843	57.37	ug/Kg	94
18) trans-1,2-Dichloroethene	8.74	96	318662	52.60	ug/Kg	80
19) n-Hexane	8.83	57	701030	54.40	ug/Kg	86
20) Vinyl acetate	9.38	43	539381	49.74	ug/Kg#	94
21) 1,1-Dichloroethane	9.42	63	717125	51.01	ug/Kg	99
22) 2-Butanone	10.05	43	161985	56.67	ug/Kg#	89
23) 2,2-Dichloropropane	10.29	77	650439	52.26	ug/Kg	99
24) cis-1,2-Dichloroethene	10.36	96	371477	55.42	ug/Kg	80
25) Chloroform	10.60	83	714941	50.91	ug/Kg#	96
26) Bromochloromethane	10.85	128	151629	52.15	ug/Kg#	86
28) 1,1,1-Trichloroethane	11.20	97	696035	50.43	ug/Kg#	87

(#)=qualifier out of range (m)=manual integration

6ST10250.D 8260BSL.M

Tue Sep 29 15:56:40 1998

HPMS_6 Page 1

Data File : C:\HPCHEM\1\DATA\092998\6ST10250.D

Vial: 6

Acq On : 29 Sep 1998 11:47

Operator: CMS

Sample : VSTD050 50 PPB STD M8260 5G/5ML

Inst : HPMS_6

Misc : 5ML PURGE

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Sep 29 15:56 1998

Quant Results File: 8260BSL.R

Quant Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)

Title : Method 8260B SOIL - ICAL 09/29/98

Last Update : Tue Sep 29 15:04:21 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
29) Cyclohexane	11.24	56	753283	56.19	ug/Kg	86
30) 1,1-Dichloropropene	11.42	75	506171	54.17	ug/Kg#	85
31) Carbon tetrachloride	11.59	117	662259	50.38	ug/Kg	98
33) 1,2-Dichloroethane	11.78	62	599443m	51.44	ug/Kg	
34) Benzene	11.83	78	1484535	52.38	ug/Kg	95
35) Trichloroethene	12.69	130	363876	54.46	ug/Kg#	73
36) 1,2-Dichloropropane	12.94	63	372999	53.83	ug/Kg	98
37) Bromodichloromethane	13.28	83	525377	52.54	ug/Kg	99
38) Dibromomethane	13.38	93	209313	52.42	ug/Kg	85
39) 2-Chloroethylvinyl-ether	13.62	63	45198	53.49	ug/Kg#	86
40) 4-Methyl-2-pentanone	13.66	58	121039	50.35	ug/Kg	89
41) cis-1,3-Dichloropropene	14.02	75	561563	49.36	ug/Kg	95
42) Dimethyl disulfide	14.33	79	319060	48.58	ug/Kg	96
45) Toluene	14.52	91	1652901	52.78	ug/Kg	98
46) Ethyl methacrylate	14.62	69	434524	50.83	ug/Kg	93
47) trans-1,3-Dichloropropene	14.71	75	578380	55.12	ug/Kg	95
48) 1,1,2-Trichloroethane	14.97	97	286040	51.48	ug/Kg	95
49) 2-Hexanone	14.90	43	258482	52.22	ug/Kg	90
50) 1,3-Dichloropropane	15.32	76	536571	53.43	ug/Kg#	77
51) Tetrachloroethene	15.48	164	328682	52.06	ug/Kg#	93
52) Dibromochloromethane	15.78	129	374310	53.61	ug/Kg	99
53) 1,2-Dibromoethane	16.08	107	277727	55.49	ug/Kg	99
54) 1-Chlorohexane	16.18	91	574956	49.62	ug/Kg#	76
55) Chlorobenzene	16.68	112	1101892	52.10	ug/Kg	84
56) 1,1,1,2-Tetrachloroethane	16.71	131	429451	52.93	ug/Kg	95
57) Ethylbenzene	16.71	106	649901	53.89	ug/Kg	94
58) m+p-Xylene	16.82	106	1604389	107.44	ug/Kg	89
59) o-Xylene	17.49	106	724624	48.87	ug/Kg	95
60) Styrene	17.53	104	1233796	55.97	ug/Kg	93
61) Bromoform	18.10	173	251493	53.91	ug/Kg	97
62) Isopropylbenzene	17.99	105	1970149	55.37	ug/Kg	95
64) 1,1,2,2-Tetrachloroethane	18.24	83	367628	50.28	ug/Kg	100
66) 1,2,3-Trichloropropane	18.46	110	122560	50.32	ug/Kg	91
67) trans-1,4-dichloro-2-buten	18.52	53	150098	55.23	ug/Kg#	25
68) propyl-benzene	18.59	91	2406567	52.62	ug/Kg	94
69) Bromobenzene	18.74	156	451718	52.87	ug/Kg	97
70) 1,3,5-Trimethylbenzene	18.81	105	1681989	54.93	ug/Kg	93
71) 2-Chlorotoluene	18.91	91	1477653	52.10	ug/Kg	94
72) 4-Chlorotoluene	18.97	91	1516337	52.69	ug/Kg	94
73) alpha-methyl-styrene	19.28	118	885175	48.65	ug/Kg	98
74) tert-butyl-benzene	19.36	119	1532534	53.28	ug/Kg	98

(#)=qualifier out of range (m)=manual integration

6ST10250.D 8260BSL.M

Tue Sep 29 15:56:43 1998

HPMS_6 Page 2

Data File : C:\HPCHEM\1\DATA\092998\6ST10250.D

Vial: 6

Acq On : 29 Sep 1998 11:47

Operator: CMS

Sample : VSTD050 50 PPB STD M8260 5G/5ML

Inst : HPMS_6

Misc : 5ML PURGE

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Sep 29 15:56 1998

Quant Results File: 8260BSL.R

Quant Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)

Title : Method 8260B SOIL - ICAL 09/29/98

Last Update : Tue Sep 29 15:04:21 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
75) 1,2,4-Trimethylbenzene	19.42	105	1743392	53.40	ug/Kg	93
76) sec-butyl-benzene	19.68	105	2221257	54.85	ug/Kg	95
77) p-isopropyl-toluene	19.87	119	1856179	55.11	ug/Kg	97
78) 1,3-Dichlorobenzene	20.10	146	905578	52.59	ug/Kg	98
79) 1,4-Dichlorobenzene	20.25	146	945217	51.12	ug/Kg	97
80) n-butyl-benzene	20.49	91	1765429	53.90	ug/Kg	92
81) 1,2-Dichlorobenzene	20.84	146	806173	53.53	ug/Kg	98
82) 1,2-dibromo-3-chloropropan	22.02	157	68610	54.33	ug/Kg#	67
83) 1,2,4-Trichlorobenzene	23.38	180	511185	54.96	ug/Kg	99
84) Hexachlorobutadiene	23.56	225	321799	51.08	ug/Kg	98
85) Naphthalene	23.81	128	955944	49.97	ug/Kg	97
86) 1,2,3-Trichlorobenzene	24.18	180	451503	54.93	ug/Kg	99

(#) = qualifier out of range (m) = manual integration

6ST10250.D 8260BSL.M

Tue Sep 29 15:56:44 1998

HPMS_6 Page 3

Quantitation Report

Data File : C:\HPCHEM\1\DATA\092998\6ST10251.D
Acq On : 29 Sep 1998 12:19
Sample : VSTD050 100 PPB STD M8260 5G/5ML
Misc : 5ML PURGE
MS Integration Params: rteint.p
Quant Time: Sep 29 15:48 1998

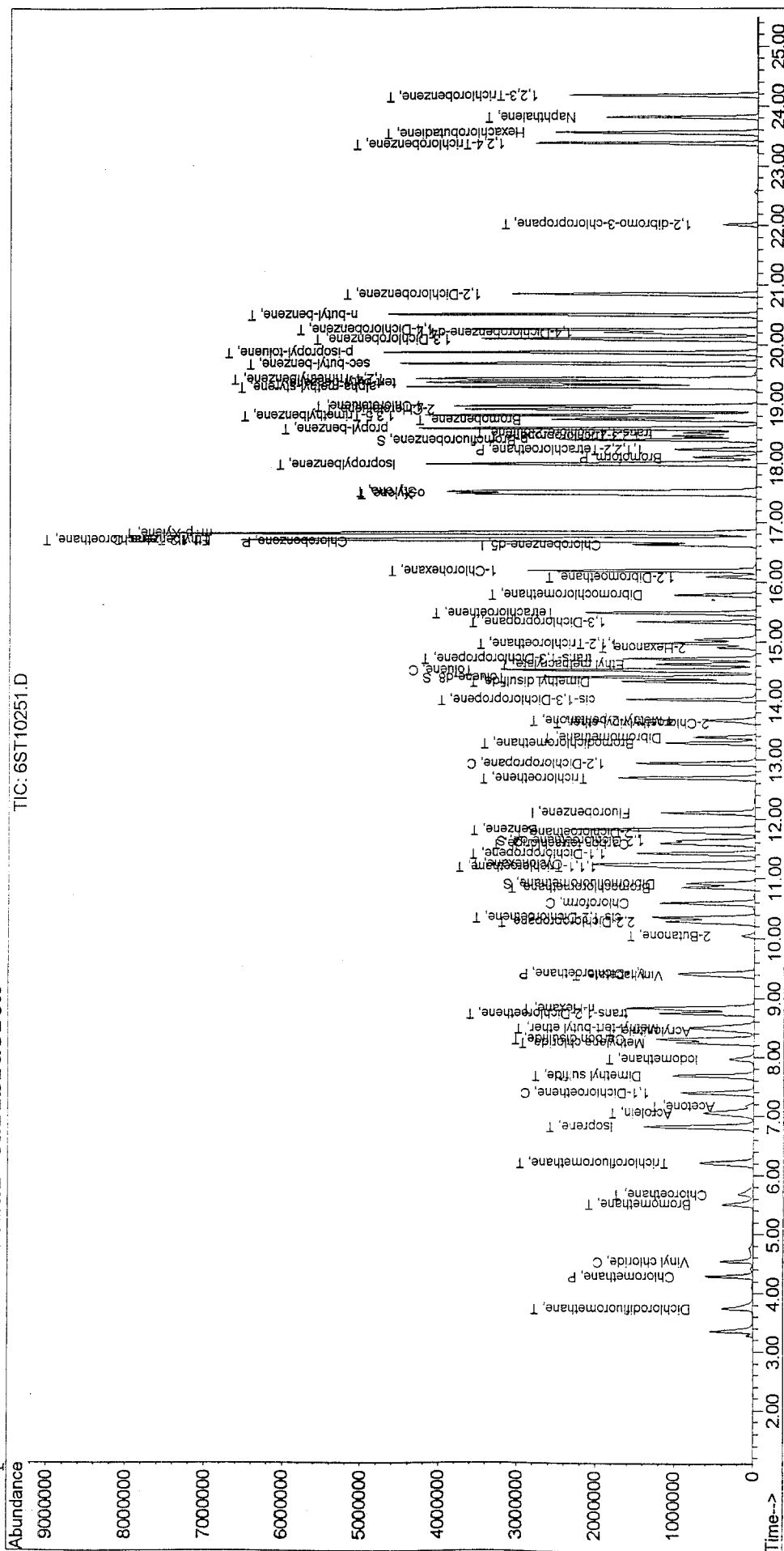
Vial: 7
Operator: CMS
Inst : HPMS_6
Multiplr: 1.00

Quant Results File: 8260BSL.RES

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Method      : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
Title       : Method 8260B SOIL - ICAL  09/29/98
Last Update : Tue Sep 29 15:04:21 1998
Response via : Initial Calibration

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Data File : C:\HPCHEM\1\DATA\092998\6ST10251.D

Vial: 7

Acq On : 29 Sep 1998 12:19

Operator: CMS

Sample : VSTD050 100 PPB STD M8260 5G/5ML

Inst : HPMS_6

Misc : 5ML PURGE

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Sep 29 15:48 1998

Quant Results File: 8260BSL.R

Quant Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)

Title : Method 8260B_SOIL - ICAL 09/29/98

Last Update : Tue Sep 29 15:04:21 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.11	96	1454865	50.00	ug/Kg	0.00
43) Chlorobenzene-d5	16.62	117	1170164	50.00	ug/Kg	0.00
63) 1,4-Dichlorobenzene-d4	20.20	152	686808	50.00	ug/Kg	0.00

System Monitoring Compounds

27) Dibromofluoromethane	10.92	111	748256	102.09	ug/Kg	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	204.18%#
32) 1,2-Dichloroethane-d4	11.65	65	939362	97.00	ug/Kg	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	194.00%#
44) Toluene-d8	14.40	98	2684351	105.32	ug/Kg	0.00
Spiked Amount	50.000	Range	81 - 117	Recovery	=	210.64%#
65) p-Bromofluorobenzene	18.39	95	1195651	112.23	ug/Kg	0.00
Spiked Amount	50.000	Range	74 - 121	Recovery	=	224.46%#

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.75	85	897447	94.38	ug/Kg	95
3) Chloromethane	4.29	50	1014247	89.94	ug/Kg	100
4) Vinyl chloride	4.54	62	594775	81.10	ug/Kg	99
5) Bromomethane	5.51	94	540184	81.07	ug/Kg	98
6) Chloroethane	5.68	64	470806	89.33	ug/Kg	99
7) Trichlorofluoromethane	6.21	101	1398887	93.85	ug/Kg	99
8) Isoprene	6.83	67	1082682	119.13	ug/Kg	92
9) Acrolein	7.05	56	26248	201.01	ug/Kg	100
10) Acetone	7.17	43	217472	99.78	ug/Kg#	34
11) 1,1-Dichloroethene	7.39	96	603634	109.93	ug/Kg	81
12) Dimethyl sulfide	7.68	62	821068	101.36	ug/Kg	85
13) Iodomethane	7.96	142	570292	103.15	ug/Kg	87
14) Methylene chloride	8.24	84	677284	99.00	ug/Kg#	72
15) Carbon disulfide	8.30	76	2428631	98.59	ug/Kg	100
16) Acrylonitrile	8.44	53	232926	106.46	ug/Kg	99
17) Methyl-tert-butyl ether	8.50	73	1631447	114.49	ug/Kg	95
18) trans-1,2-Dichloroethene	8.74	96	650445	107.15	ug/Kg	83
19) n-Hexane	8.82	57	1372971	106.34	ug/Kg	88
20) Vinyl acetate	9.38	43	1105054	101.70	ug/Kg#	95
21) 1,1-Dichloroethane	9.42	63	1407011	99.89	ug/Kg	99
22) 2-Butanone	10.05	43	325078	113.50	ug/Kg#	90
23) 2,2-Dichloropropane	10.29	77	1329488	106.61	ug/Kg	99
24) cis-1,2-Dichloroethene	10.36	96	748468	111.44	ug/Kg	83
25) Chloroform	10.60	83	1403405	99.74	ug/Kg#	97
26) Bromochloromethane	10.85	128	307481	105.55	ug/Kg	86
28) 1,1,1-Trichloroethane	11.20	97	1400526	101.27	ug/Kg	90

(#)=qualifier out of range (m)=manual integration

6ST10251.D 8260BSL.M

Tue Sep 29 15:48:33 1998

HPMS_6 Page 1

Data File : C:\HPCHEM\1\DATA\092998\6ST10251.D

Vial: 7

Acq On : 29 Sep 1998 12:19

Operator: CMS

Sample : VSTD050 100 PPB STD M8260 5G/5ML

Inst : HPMS_6

Misc : 5ML PURGE

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Sep 29 15:48 1998

Quant Results File: 8260BSL.R

Quant Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)

Title : Method 8260B_SOIL - ICAL 09/29/98

Last Update : Tue Sep 29 15:04:21 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
29) Cyclohexane	11.24	56	1490258	110.95	ug/Kg	88
30) 1,1-Dichloropropene	11.42	75	1030323	110.04	ug/Kg	88
31) Carbon tetrachloride	11.59	117	1319500	100.17	ug/Kg	99
33) 1,2-Dichloroethane	11.78	62	1152494	98.70	ug/Kg	96
34) Benzene	11.84	78	2950619	103.91	ug/Kg	95
35) Trichloroethene	12.69	130	774903	115.75	ug/Kg#	80
36) 1,2-Dichloropropane	12.94	63	741272	106.77	ug/Kg	98
37) Bromodichloromethane	13.29	83	1051579	104.95	ug/Kg	100
38) Dibromomethane	13.38	93	412301	103.05	ug/Kg	87
39) 2-Chloroethylvinyl-ether	13.62	63	63159	97.64	ug/Kg#	89
40) 4-Methyl-2-pentanone	13.66	58	244079	101.32	ug/Kg	89
41) cis-1,3-Dichloropropene	14.02	75	1156947	101.49	ug/Kg	95
42) Dimethyl disulfide	14.33	79	673678	102.38	ug/Kg	97
45) Toluene	14.52	91	3332239	102.76	ug/Kg	99
46) Ethyl methacrylate	14.62	69	891792	100.76	ug/Kg	94
47) trans-1,3-Dichloropropene	14.71	75	1159127	106.69	ug/Kg	96
48) 1,1,2-Trichloroethane	14.97	97	567323	98.62	ug/Kg	95
49) 2-Hexanone	14.90	43	513786	100.25	ug/Kg	91
50) 1,3-Dichloropropane	15.33	76	1061277	102.08	ug/Kg#	82
51) Tetrachloroethene	15.48	164	693308	106.07	ug/Kg	94
52) Dibromochloromethane	15.78	129	769167	106.41	ug/Kg	100
53) 1,2-Dibromoethane	16.09	107	571302	110.24	ug/Kg	99
54) 1-Chlorohexane	16.19	91	1214298	101.22	ug/Kg#	82
55) Chlorobenzene	16.68	112	2309439	105.48	ug/Kg	87
56) 1,1,1,2-Tetrachloroethane	16.71	131	905239	107.77	ug/Kg	96
57) Ethylbenzene	16.71	106	1397719	111.94	ug/Kg	98
58) m+p-Xylene	16.82	106	3432780	222.04	ug/Kg	94
59) o-Xylene	17.48	106	1560711	101.67	ug/Kg	98
60) Styrene	17.53	104	2652031	116.21	ug/Kg	96
61) Bromoform	18.10	173	523832	108.45	ug/Kg	98
62) Isopropylbenzene	17.99	105	4249966	115.38	ug/Kg	96
64) 1,1,2,2-Tetrachloroethane	18.24	83	733729	95.74	ug/Kg	100
66) 1,2,3-Trichloropropane	18.46	110	245568	96.20	ug/Kg	96
67) trans-1,4-dichloro-2-buten	18.52	53	300078	105.35	ug/Kg#	17
68) propyl-benzene	18.59	91	5092774	106.25	ug/Kg	96
69) Bromobenzene	18.74	156	956748	106.83	ug/Kg	97
70) 1,3,5-Trimethylbenzene	18.81	105	3587450	111.79	ug/Kg	95
71) 2-Chlorotoluene	18.91	91	3073129	103.39	ug/Kg	95
72) 4-Chlorotoluene	18.97	91	3135822	103.97	ug/Kg	96
73) alpha-methyl-styrene	19.29	118	1943618	101.93	ug/Kg	97
74) tert-butyl-benzene	19.36	119	3294818	109.30	ug/Kg	99

(#) = qualifier out of range (m) = manual integration

6ST10251.D 8260BSL.M

Tue Sep 29 15:48:36 1998

HPMS_6 Page 2

Data File : C:\HPCHEM\1\DATA\092998\6ST10251.D

Vial: 7

Acq On : 29 Sep 1998 12:19

Operator: CMS

Sample : VSTD050 100 PPB STD M8260 5G/5ML

Inst : HPMS_6

Misc : 5ML PURGE

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Sep 29 15:48 1998

Quant Results File: 8260BSL.R

Quant Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)

Title : Method 8260B_SOIL - ICAL 09/29/98

Last Update : Tue Sep 29 15:04:21 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
75) 1,2,4-Trimethylbenzene	19.42	105	3704919	108.27	ug/Kg	94
76) sec-butyl-benzene	19.68	105	4792157	112.90	ug/Kg	96
77) p-isopropyl-toluene	19.87	119	4054483	114.86	ug/Kg	99
78) 1,3-Dichlorobenzene	20.10	146	1957438	108.45	ug/Kg	99
79) 1,4-Dichlorobenzene	20.25	146	2006944	103.57	ug/Kg	99
80) n-butyl-benzene	20.49	91	3804988	110.85	ug/Kg	94
81) 1,2-Dichlorobenzene	20.84	146	1736151	109.98	ug/Kg	98
82) 1,2-dibromo-3-chloropropan	22.02	157	149456	112.91	ug/Kg#	79
83) 1,2,4-Trichlorobenzene	23.37	180	1138763	116.83	ug/Kg	99
84) Hexachlorobutadiene	23.56	225	708689	107.32	ug/Kg	97
85) Naphthalene	23.82	128	2030528	101.28	ug/Kg	98
86) 1,2,3-Trichlorobenzene	24.18	180	978239	113.54	ug/Kg	99

(#) = qualifier out of range (m) = manual integration

6ST10251.D 8260BSL.M

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HPMS_6 Page 3

Response Factor Report HPMS_6

Method : C:\HPCHEM\1\METHODS\FREON.M (RTE Integrator)
 Title : F001_5 CALIBRATION - 09/29/98
 Last Update : Wed Sep 30 10:25:14 1998
 Response via : Initial Calibration

Calibration Files

5 =6ST10254.D 10 =6ST10248.D 20 =6ST10249.D
 50 =6ST10250.D 100 =6ST10251.D

	Compound	5	10	20	50	100	Avg	%RSD
1) I	Fluorobenzene	-----ISTD-----						
2) T	1,1,2-trichloro-1,2,2	0.259	0.257	0.249	0.254	0.242	0.252	2.73
3) I	Chlorobenzene-d5	-----ISTD-----						
4) I	1,4-dichlorobenzene-d	-----ISTD-----						

.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\092998\6ST10254.D

Acq On : 29 Sep 1998 14:01

Sample : VSTD050 5 PPB STD M8260 5G/5ML

Misc : 5ML PURGE

MS Integration Params: rteint.p

Quant Time: Sep 30 10:32 1998

Vial: 10

Operator: CMS

Inst : HPMS_6

Multiplr: 1.00

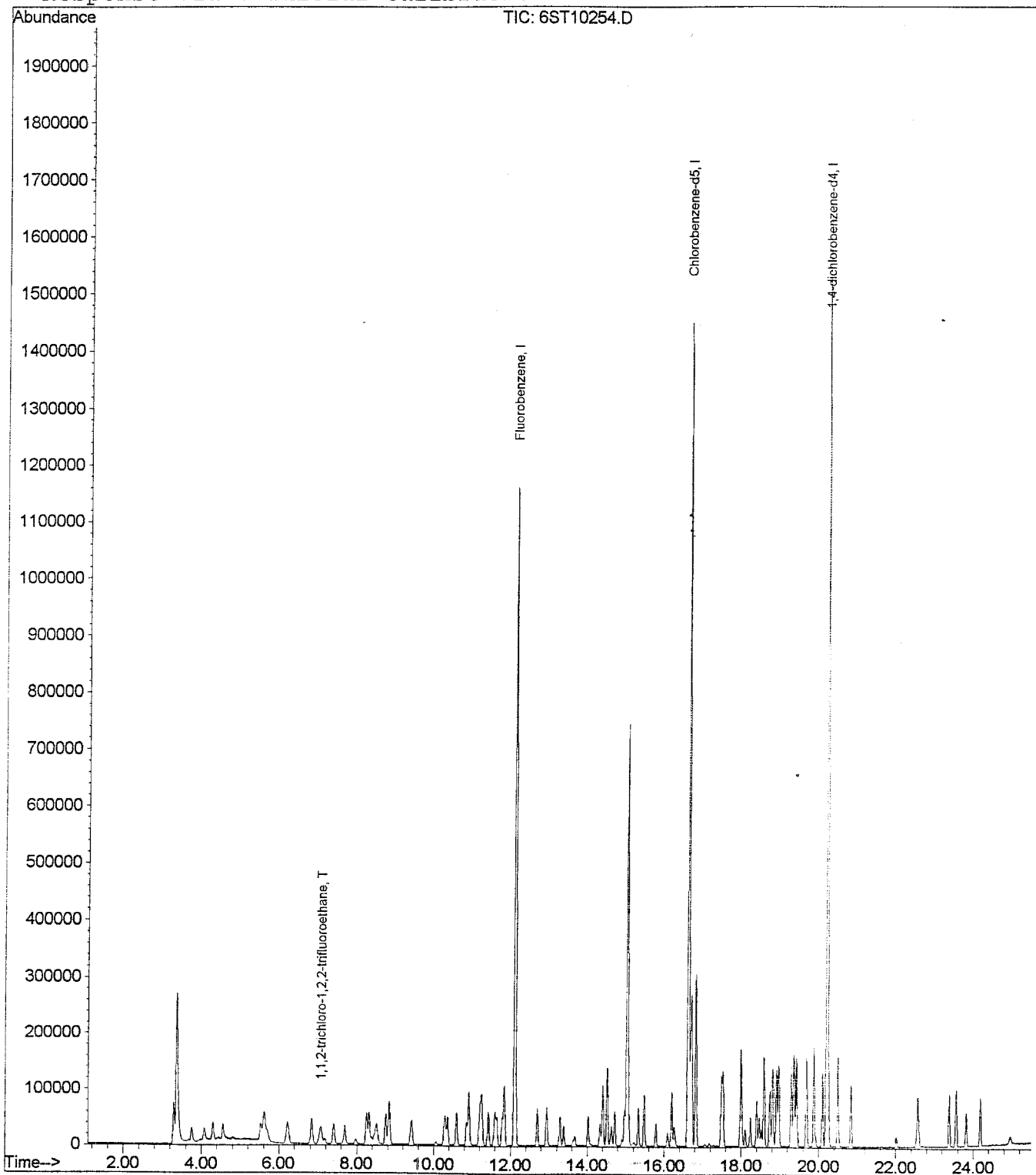
Quant Results File: FREON.RES

Method : C:\HPCHEM\1\METHODS\FREON.M (RTE Integrator)

Title : F001_5 CALIBRATION - 09/29/98

Last Update : Wed Sep 30 10:25:14 1998

Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\092998\6ST10254.D

Vial: 10

Acq On : 29 Sep 1998 14:01

Operator: CMS

Sample : VSTD050 5 PPB STD M8260 5G/5ML

Inst : HPMS_6

Misc : 5ML PURGE

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Sep 30 10:32 1998

Quant Results File: FREON.RES

Quant Method : C:\HPCHEM\1\METHODS\FREON.M (RTE Integrator)

Title : F001_5 CALIBRATION - 09/29/98

Last Update : Wed Sep 30 10:25:14 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.11	96	1364639	50.00	ug/Kg	0.00
3) Chlorobenzene-d5	16.62	117	1027130	50.00	ug/Kg	0.00
4) 1,4-dichlorobenzene-d4	20.20	152	555431	50.00	ug/Kg	0.00

System Monitoring Compounds

Target Compounds					Qvalue
2) 1,1,2-trichloro-1,2,2-trif	7.08	101	35321	5.13 ug/Kg	97

(#) = qualifier out of range (m) = manual integration

6ST10254.D FREON.M

Wed Sep 30 10:32:34 1998

HPMS_6

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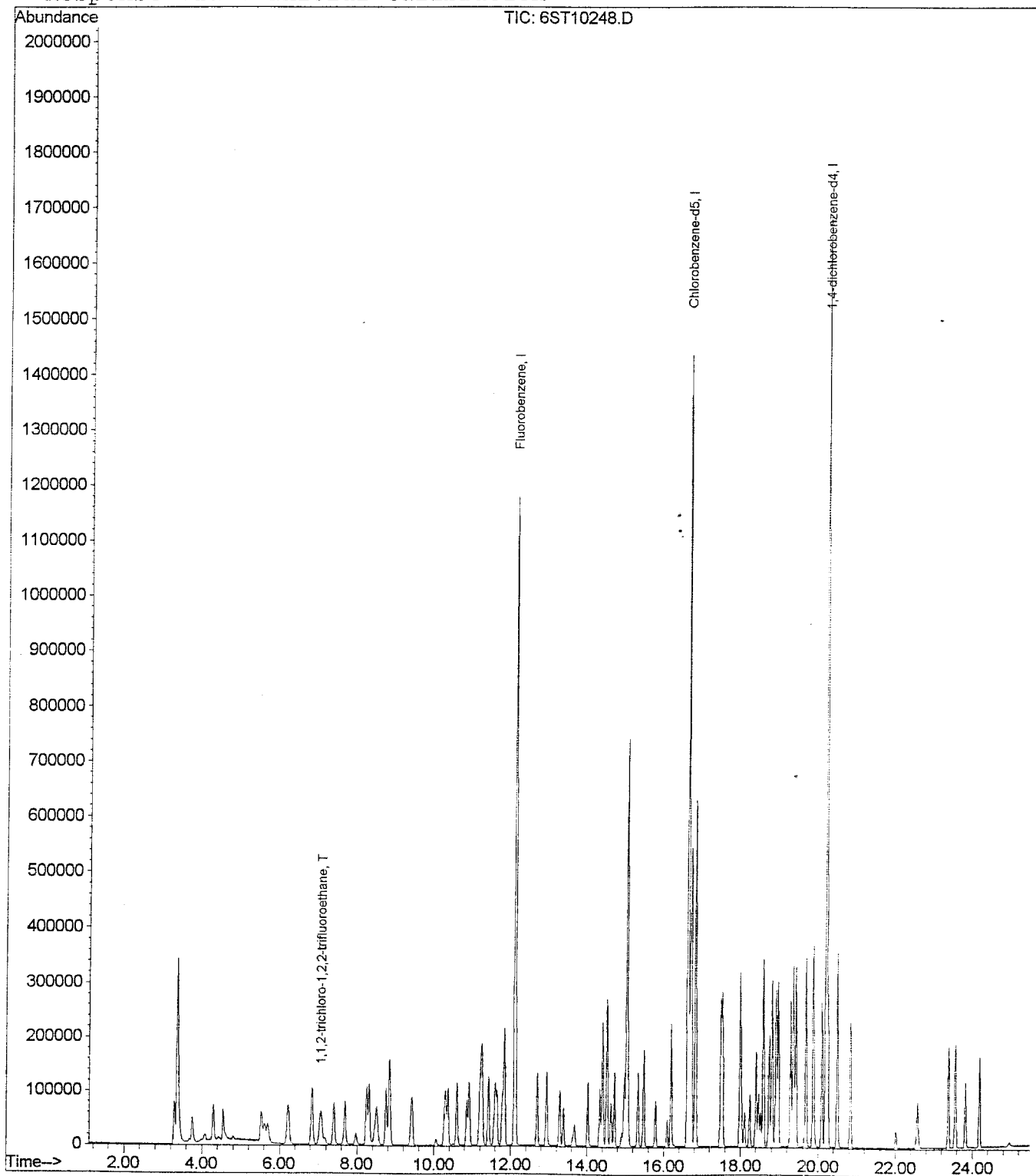
Quantitation Report

Data File : C:\HPCHEM\1\DATA\092998\6ST10248.D
Acq On : 29 Sep 1998 10:42
Sample : VSTD050 10 PPB STD M8260 5G/5ML
Misc : 5ML PURGE
MS Integration Params: rteint.p
Quant Time: Sep 30 10:31 1998

Vial: 4
Operator: CMS
Inst : HPMS_6
Multiplr: 1.00

Quant Results File: FREON.RES

Method : C:\HPCHEM\1\METHODS\FREON.M (RTE Integrator)
Title : F001_5 CALIBRATION - 09/29/98
Last Update : Wed Sep 30 10:25:14 1998
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\092998\6ST10248.D

Vial: 4

Acq On : 29 Sep 1998 10:42

Operator: CMS

Sample : VSTD050 10 PPB STD M8260 5G/5ML

Inst : HPMS_6

Misc : 5ML PURGE

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Sep 30 10:31 1998

Quant Results File: FREON.RES

Quant Method : C:\HPCHEM\1\METHODS\FREON.M (RTE Integrator)

Title : F001_5 CALIBRATION - 09/29/98

Last Update : Wed Sep 30 10:25:14 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene	12.11	96	1373988	50.00	ug/Kg	0.00
3) Chlorobenzene-d5	16.62	117	1015605	50.00	ug/Kg	0.00
4) 1,4-dichlorobenzene-d4	20.20	152	563440	50.00	ug/Kg	0.00

System Monitoring Compounds

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,1,2-trichloro-1,2,2-trif	7.06	101	70674	10.20	ug/Kg	93

(#) = qualifier out of range (m) = manual integration

6ST10248.D FREON.M

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HPMS_6

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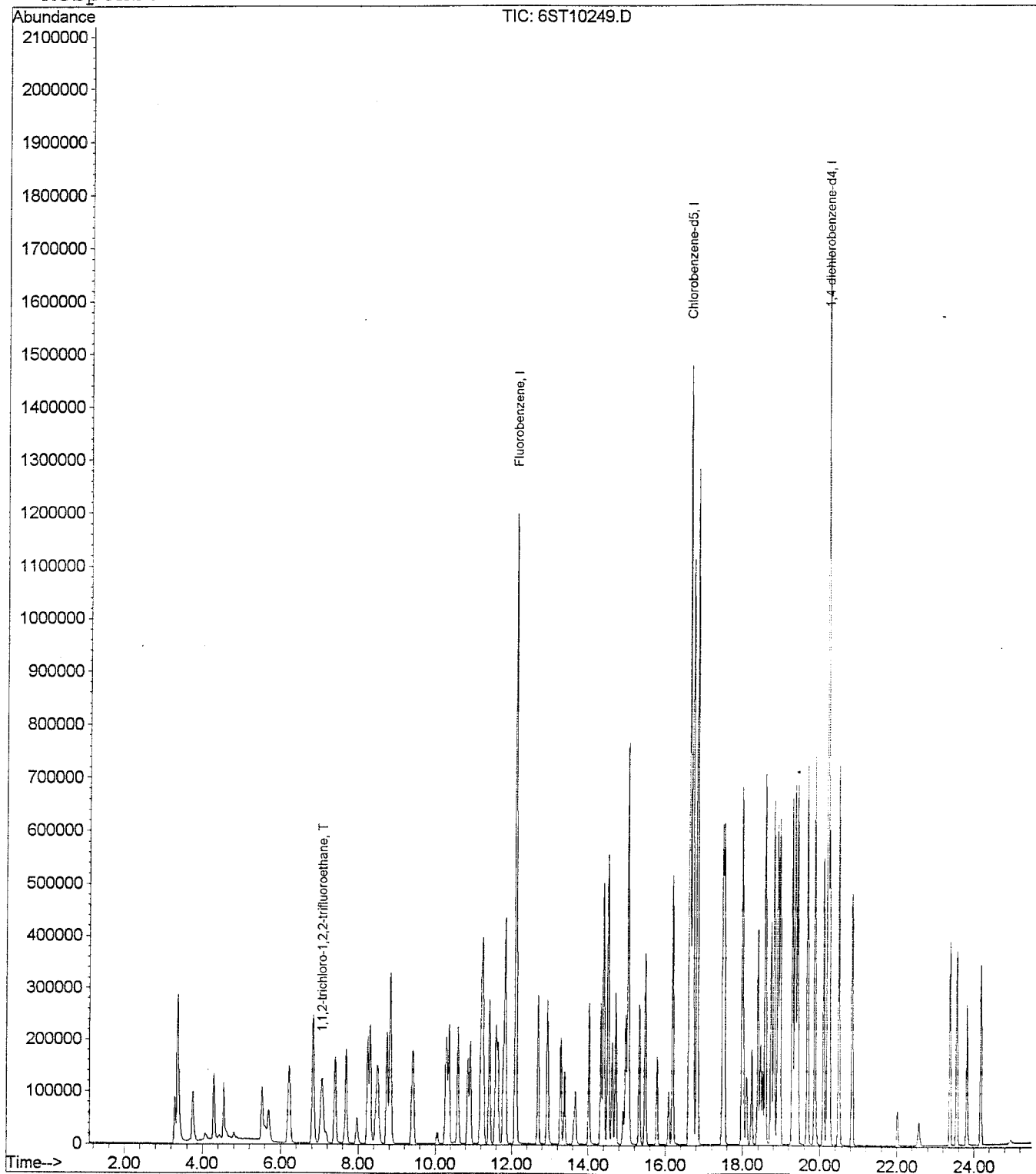
Quantitation Report

Data File : C:\HPCHEM\1\DATA\092998\6ST10249.D
 Acq On : 29 Sep 1998 11:15
 Sample : VSTD050 20 PPB STD M8260 5G/5ML
 Misc : 5ML PURGE
 MS Integration Params: rteint.p
 Quant Time: Sep 30 10:31 1998

Vial: 5
 Operator: CMS
 Inst : HPMS_6
 Multiplr: 1.00

Quant Results File: FREON.RES

Method : C:\HPCHEM\1\METHODS\FREON.M (RTE Integrator)
 Title : FO01_5 CALIBRATION - 09/29/98
 Last Update : Wed Sep 30 10:25:14 1998
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\092998\6ST10249.D

Vial: 5

Acq On : 29 Sep 1998 11:15

Operator: CMS

Sample : VSTD050 20 PPB STD M8260 5G/5ML

Inst : HPMS_6

Misc : 5ML PURGE

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Sep 30 10:31 1998

Quant Results File: FREON.RES

Quant Method : C:\HPCHEM\1\METHODS\FREON.M (RTE Integrator)

Title : F001_5 CALIBRATION - 09/29/98

Last Update : Wed Sep 30 10:25:14 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.11	96	1406648	50.00	ug/Kg	0.00
3) Chlorobenzene-d5	16.62	117	1057712	50.00	ug/Kg	0.00
4) 1,4-dichlorobenzene-d4	20.20	152	602165	50.00	ug/Kg	0.00

System Monitoring Compounds

Target Compounds

					Qvalue
2) 1,1,2-trichloro-1,2,2-trif	7.06	101	140229	19.76 ug/Kg	93

(#) = qualifier out of range (m) = manual integration

6ST10249.D FREON.M

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HPMS_6

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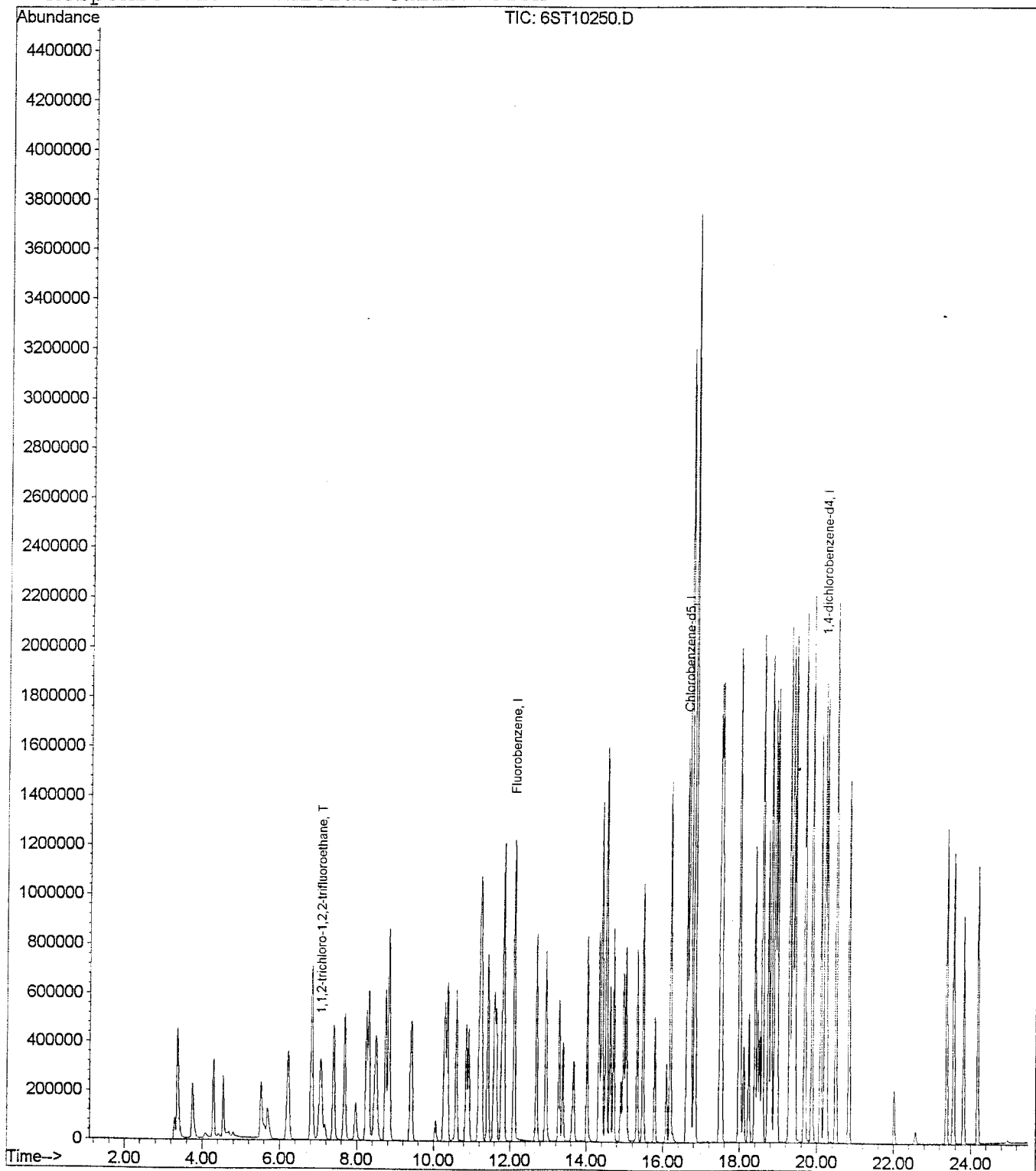
Quantitation Report

Data File : C:\HPCHEM\1\DATA\092998\6ST10250.D
 Acq On : 29 Sep 1998 11:47
 Sample : VSTD050 50 PPB STD M8260 5G/5ML
 Misc : 5ML PURGE
 MS Integration Params: rteint.p
 Quant Time: Sep 30 10:32 1998

Vial: 6
 Operator: CMS
 Inst : HPMS_6
 Multiplr: 1.00

Quant Results File: FREON.RES

Method : C:\HPCHEM\1\METHODS\FREON.M (RTE Integrator)
 Title : FOOL_5 CALIBRATION - 09/29/98
 Last Update : Wed Sep 30 10:25:14 1998
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\092998\6ST10250.D

Vial: 6

Acq On : 29 Sep 1998 11:47

Operator: CMS

Sample : VSTD050 50 PPB STD M8260 5G/5ML

Inst : HPMS_6

Misc : 5ML PURGE

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Sep 30 10:32 1998

Quant Results File: FREON.RES

Quant Method : C:\HPCHEM\1\METHODS\FREON.M (RTE Integrator)

Title : F001_5 CALIBRATION - 09/29/98

Last Update : Wed Sep 30 10:25:14 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.11	96	1451938	50.00	ug/Kg	0.00
3) Chlorobenzene-d5	16.62	117	1130223	50.00	ug/Kg	0.00
4) 1,4-dichlorobenzene-d4	20.20	152	655294	50.00	ug/Kg	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,1,2-trichloro-1,2,2-trif	7.07	101	368862	50.36	ug/Kg	95

(#) = qualifier out of range (m) = manual integration

6ST10250.D FREON.M

Wed Sep 30 10:32:08 1998

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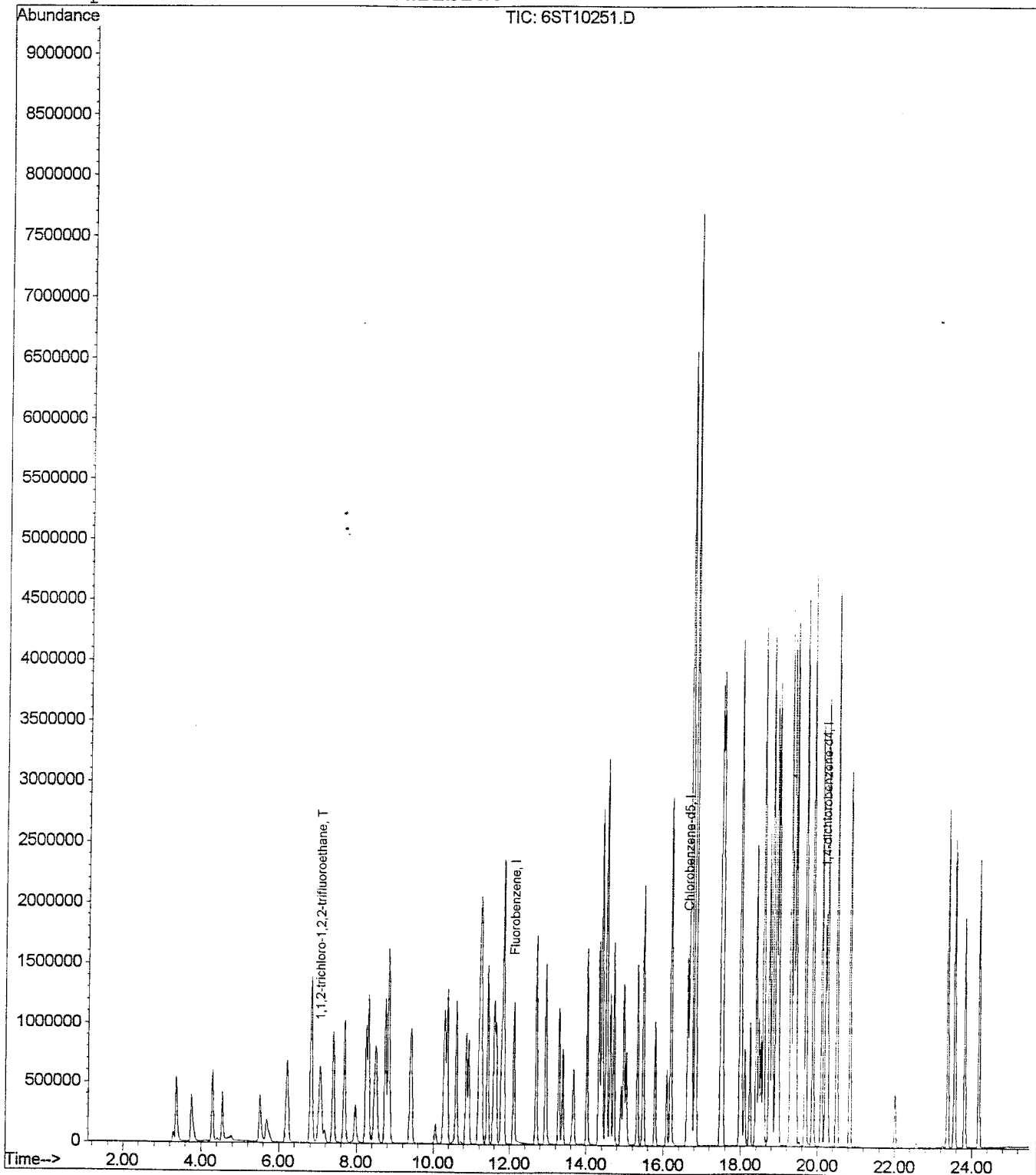
Quantitation Report

Data File : C:\HPCHEM\1\DATA\092998\6ST10251.D
 Acq On : 29 Sep 1998 12:19
 Sample : VSTD050 100 PPB STD M8260 5G/5ML
 Misc : 5ML PURGE
 MS Integration Params: rteint.p
 Quant Time: Sep 30 10:32 1998

Vial: 7
 Operator: CMS
 Inst : HPMS_6
 Multiplr: 1.00

Quant Results File: FREON.RES

Method : C:\HPCHEM\1\METHODS\FREON.M (RTE Integrator)
 Title : F001_5 CALIBRATION - 09/29/98
 Last Update : Wed Sep 30 10:25:14 1998
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\092998\6ST10251.D

Vial: 7

Acq On : 29 Sep 1998 12:19

Operator: CMS

Sample : VSTD050 100 PPB STD M8260 5G/5ML

Inst : HPMS_6

Misc : 5ML PURGE

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Sep 30 10:32 1998

Quant Results File: FREON.RES

Quant Method : C:\HPCHEM\1\METHODS\FREON.M (RTE Integrator)

Title : F001_5 CALIBRATION - 09/29/98

Last Update : Wed Sep 30 10:25:14 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene	12.11	96	1454865	50.00	ug/Kg	0.00
3) Chlorobenzene-d5	16.62	117	1170164	50.00	ug/Kg	0.00
4) 1,4-dichlorobenzene-d4	20.20	152	686808	50.00	ug/Kg	0.00

System Monitoring Compounds

Target Compounds

					Qvalue
2) 1,1,2-trichloro-1,2,2-trif	7.06	101	703491	95.86 ug/Kg	96

(#) = qualifier out of range (m) = manual integration
6ST10251.D FREON.M Wed Sep 30 10:32:21 1998

HPMS_6

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Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\093098\6ST10287.D
 Acq On : 30 Sep 1998 21:33
 Sample : 50UG/KG STD 8260B SOIL
 Misc : 5G/5ML
 MS Integration Params: rteint.p

Vial: 23
 Operator: CMS
 Inst : HPMS_6
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
 Title : Method 8260B SOIL - ICAL 09/29/98
 Last Update : Tue Sep 29 15:04:21 1998
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	96	0.00
2 T	Dichlorodifluoromethane	0.327	0.281	14.1	83	0.00
3 P	Chloromethane	0.388	0.355 ✓	8.5	92	0.00
4 C	Vinyl chloride	0.252	0.230	8.7 ✓	93	0.00
5 T	Bromomethane	0.229	0.219	4.4	100	0.00
6 T	Chloroethane	0.181	0.171	5.5	95	0.00
7 T	Trichlorofluoromethane	0.512	0.462	9.8	87	0.00
8 T	Isoprene	0.312	0.320	-2.6	83	0.00
9 T	Acrolein	0.004	0.022	-450.0#	450#	0.00
10 T	Acetone	0.100	0.071	29.0#	77	0.00
11 C	1,1-Dichloroethene	0.189	0.167	11.6 ✓	79	0.00
12 T	Dimethyl sulfide	0.231	0.239	-3.5	83	0.00
13 T	Iodomethane	0.142	0.130	8.5	70	0.00
14 T	Methylene chloride	0.235	0.201	14.5	82	0.00
15 T	Carbon disulfide	0.847	0.800	5.5	90	0.00
16 T	Acrylonitrile	0.075	0.068	9.3	77	0.00
17 T	Methyl-tert-butyl ether	0.490	0.463	5.5	79	0.00
18 T	trans-1,2-Dichloroethene	0.209	0.184	12.0	80	0.00
19 T	n-Hexane	0.444	0.440	0.9	88	0.00
20 T	Vinyl acetate	0.292	0.239	18.2	62	0.00
21 P	1,1-Dichloroethane	0.484	0.440 ✓	9.1	85	0.00
22 T	2-Butanone	0.098	0.071	27.6#	61	0.00
23 T	2,2-Dichloropropane	0.429	0.380	11.4	81	0.00
24 T	cis-1,2-Dichloroethene	0.231	0.214	7.4	80	0.00
25 C	Chloroform	0.484	0.432	10.7 ✓	84	0.00
26 T	Bromochloromethane	0.100	0.086	14.0	79	0.00
27 S	Dibromofluoromethane	0.252	0.214	15.1	80	0.00
28 T	1,1,1-Trichloroethane	0.475	0.420	11.6	84	0.00
29 T	Cyclohexane	0.462	0.469	-1.5	87	0.00
30 T	1,1-Dichloropropene	0.322	0.296	8.1	81	0.00
31 T	Carbon tetrachloride	0.453	0.403	11.0	85	0.00
32 S	1,2-Dichloroethane-d4	0.333	0.294	11.7	84	0.00
33 T	1,2-Dichloroethane	0.401	0.359	10.5	83	0.00
34 T	Benzene	0.976	0.906	7.2	85	0.00
35 T	Trichloroethene	0.230	0.205	10.9	79	0.00
36 C	1,2-Dichloropropane	0.239	0.218	8.8 ✓	81	0.00
37 T	Bromodichloromethane	0.344	0.307	10.8	81	0.00
38 T	Dibromomethane	0.137	0.119	13.1	79	0.00
39 T	2-Chloroethylvinyl-ether	0.027	0.028	-3.7	86	0.00
40 T	4-Methyl-2-pentanone	0.065	0.060	7.7	69	0.00
41 T	cis-1,3-Dichloropropene	0.327	0.314	4.0	78	0.00

(#) = Out of Range

6ST10287.D 8260BSL.M

Wed Sep 30 22:02:00 1998

HPMS_6

Page 1

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\093098\6ST10287.D
 Acq On : 30 Sep 1998 21:33
 Sample : 50UG/KG STD 8260B SOIL
 Misc : 5G/5ML
 MS Integration Params: rteint.p

Vial: 23
 Operator: CMS
 Inst : HPMS_6
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
 Title : Method 8260B_SOIL - ICAL 09/29/98
 Last Update : Tue Sep 29 15:04:21 1998
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42 T	Dimethyl disulfide	0.169	0.191	-13.0	83	0.00
43 I	Chlorobenzene-d5	1.000	1.000	0.0	96	0.00
44 S	Toluene-d8	1.089	0.992	8.9	82	0.00
45 C	Toluene	1.386	1.250	9.8	82	0.00
46 T	Ethyl methacrylate	0.315	0.319	-1.3	80	0.00
47 T	trans-1,3-Dichloropropene	0.464	0.436	6.0	82	0.00
48 T	1,1,2-Trichloroethane	0.246	0.218	11.4	83	0.00
49 T	2-Hexanone	0.181	0.164	9.4	69	0.00
50 T	1,3-Dichloropropane	0.444	0.395	11.0	80	0.00
51 T	Tetrachloroethene	0.279	0.252	9.7	83	0.00
52 T	Dibromochloromethane	0.309	0.267	13.6	77	0.00
53 T	1,2-Dibromoethane	0.221	0.190	14.0	74	0.00
54 T	1-Chlorohexane	0.424	0.449	-5.9	85	0.00
55 P	Chlorobenzene	0.936	0.832	11.1	82	0.00
56 T	1,1,1,2-Tetrachloroethane	0.359	0.324	9.7	82	0.00
57 C	Ethylbenzene	0.534	0.494	7.5	82	0.00
58 T	m+p-Xylene	0.661	0.614	7.1	83	0.00
59 T	o-Xylene	0.554	0.536	3.2	80	0.00
60 T	Styrene	0.975	0.930	4.6	82	0.00
61 P	Bromoform	0.206	0.181	12.1	78	0.00
62 T	Isopropylbenzene	1.574	1.482	5.8	81	0.00
63 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
64 P	1,1,2,2-Tetrachloroethane	0.558	0.445	20.3#	79	0.00
65 S	p-Bromofluorobenzene	0.776	0.689	11.2	80	0.00
66 T	1,2,3-Trichloropropane	0.186	0.146	21.5#	78	0.00
67 T	trans-1,4-dichloro-2-butene	0.207	0.198	4.3	86	0.00
68 T	propyl-benzene	3.490	3.157	9.5	86	0.00
69 T	Bromobenzene	0.652	0.560	14.1	81	0.00
70 T	1,3,5-Trimethylbenzene	2.336	2.146	8.1	83	0.00
71 T	2-Chlorotoluene	2.164	1.953	9.8	86	0.00
72 T	4-Chlorotoluene	2.196	1.918	12.7	83	0.00
73 T	alpha-methyl-styrene	1.154	1.173	-1.6	87	0.00
74 T	tert-butyl-benzene	2.195	1.982	9.7	85	0.00
75 T	1,2,4-Trimethylbenzene	2.491	2.236	10.2	84	0.00
76 T	sec-butyl-benzene	3.090	2.865	7.3	84	0.00
77 T	p-isopropyl-toluene	2.570	2.389	7.0	84	0.00
78 T	1,3-Dichlorobenzene	1.314	1.137	13.5	82	0.00
79 T	1,4-Dichlorobenzene	1.411	1.204	14.7	83	0.00
80 T	n-butyl-benzene	2.499	2.337	6.5	87	0.00
81 T	1,2-Dichlorobenzene	1.149	0.997	13.2	81	0.00

(#) = Out of Range

6ST10287.D 8260BSL.M

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HPMS_6

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Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\093098\6ST10287.D
 Acq On : 30 Sep 1998 21:33
 Sample : 50UG/KG STD 8260B SOIL
 Misc : 5G/5ML
 MS Integration Params: rteint.p

Vial: 23
 Operator: CMS
 Inst : HPMS_6
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
 Title : Method 8260B_SOIL - ICAL 09/29/98
 Last Update : Tue Sep 29 15:04:21 1998
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
82 T	1,2-dibromo-3-chloropropane	0.096	0.072	25.0#	69	0.00
83 T	1,2,4-Trichlorobenzene	0.710	0.599	15.6	77	0.00
84 T	Hexachlorobutadiene	0.481	0.425	11.6	86	0.00
85 T	Naphthalene	1.240	1.015	18.1	69	0.00
86 T	1,2,3-Trichlorobenzene	0.627	0.517	17.5	75	0.00

(#) = Out of Range
 6ST10287.D 8260BSL.M

SPCC's out = 0 CCC's out = 0
 Wed Sep 30 22:02:11 1998 HPMS_6 Page 3

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\093098\6ST10287.D Vial: 23
 Acq On : 30 Sep 1998 21:33 Operator: CMS
 Sample : 50UG/KG STD 8260B SOIL Inst : HPMS_6
 Misc : 5G/5ML Multiplr: 1.00
 MS Integration Params: rteint.p

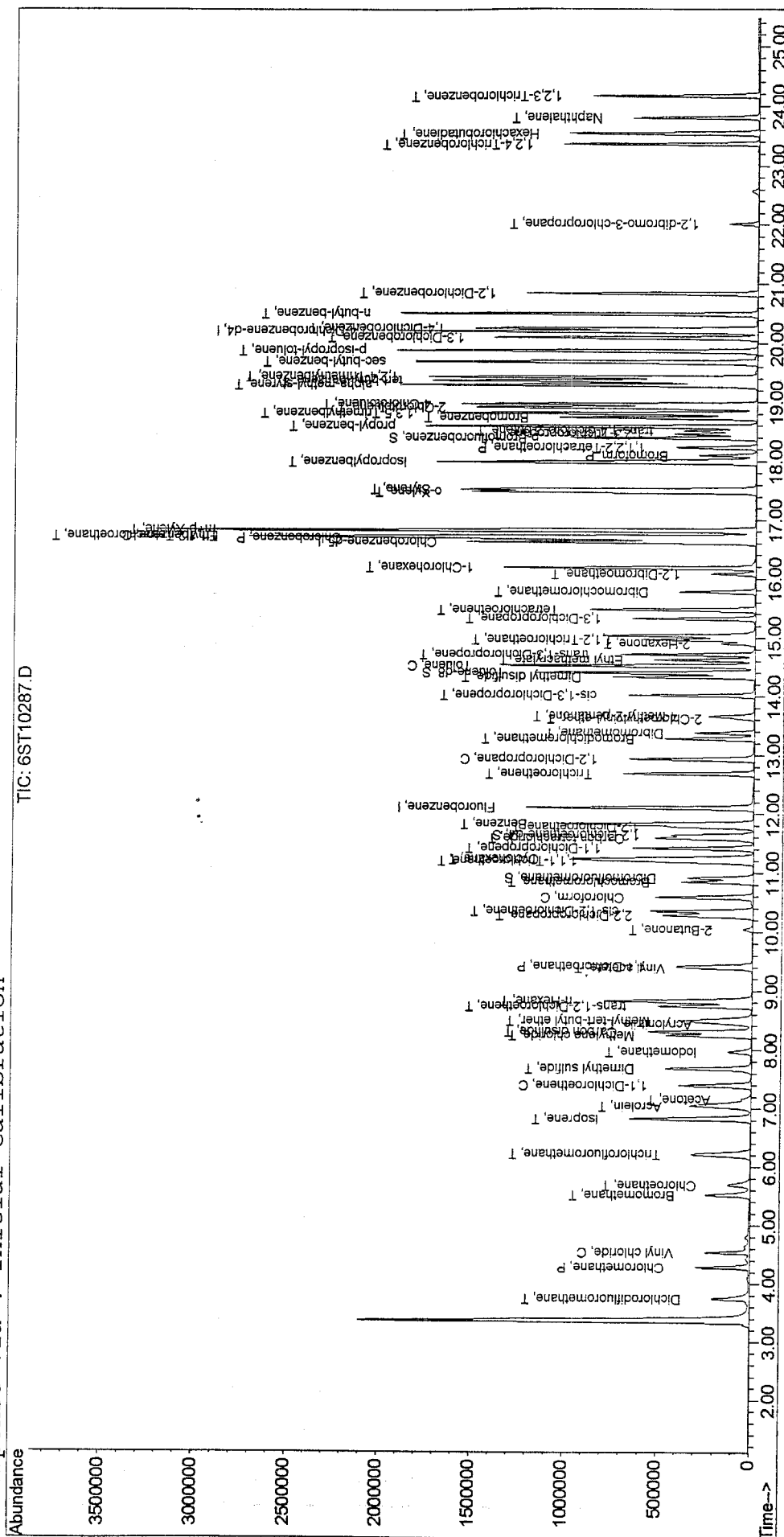
Method : C:\HPCHEM\1\METHODS\FREON.M (RTE Integrator)
 Title : FO01_5 CALIBRATION - 09/29/98
 Last Update : Wed Sep 30 10:25:14 1998
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 75% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	96	0.00
2 T	1,1,2-trichloro-1,2,2-trifl	0.252	0.232	7.9	87	0.00
3 I	Chlorobenzene-d5	1.000	1.000	0.0	96	0.00
4 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	100	0.00

Quantitation Report

Data File : C:\HPCHEM\1\DATA\093098\6ST10287.D
 Acq On : 30 Sep 1998 21:33 Vial: 23
 Operator: CMS
 Sample : 50UG/KG STD 8260B SOIL Inst : HPMS 6
 Misc : 5G/5ML Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Sep 30 21:59 1998 Quant Results File: 8260BSL.RES
 Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
 Title : Method 8260B SOIL - ICAL 09/29/98
 Last Update : Tue Sep 29 15:04:21 1998
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\093098\6ST10287.D

Vial: 23

Acq On : 30 Sep 1998 21:33

Operator: CMS

Sample : 50UG/KG STD 8260B SOIL

Inst : HPMS_6

Misc : 5G/5ML

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Sep 30 21:59 1998

Quant Results File: 8260BSL.R

Quant Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)

Title : Method 8260B SOIL - ICAL 09/29/98

Last Update : Tue Sep 29 15:04:21 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.11	96	1392896	50.00	ug/Kg	0.00
43) Chlorobenzene-d5	16.62	117	1082769	50.00	ug/Kg	0.00
63) 1,4-Dichlorobenzene-d4	20.20	152	653997	50.00	ug/Kg	0.00

System Monitoring Compounds

27) Dibromofluoromethane	10.92	111	297558	42.40	ug/Kg	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	84.80%
32) 1,2-Dichloroethane-d4	11.64	65	410035	44.22	ug/Kg	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	88.44%
44) Toluene-d8	14.40	98	1074150	45.54	ug/Kg	0.00
Spiked Amount	50.000	Range	81 - 117	Recovery	=	91.08%
65) p-Bromofluorobenzene	18.39	95	450453	44.40	ug/Kg	0.00
Spiked Amount	50.000	Range	74 - 121	Recovery	=	88.80%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.75	85	392096	43.07	ug/Kg	100
3) Chloromethane	4.29	50	494889	45.84	ug/Kg	99
4) Vinyl chloride	4.54	62	319969	45.57	ug/Kg	100
5) Bromomethane	5.52	94	304351	47.71	ug/Kg	100
6) Chloroethane	5.69	64	238060	47.18	ug/Kg	100
7) Trichlorofluoromethane	6.22	101	643924	45.12	ug/Kg	100
8) Isoprene	6.83	67	445214	51.17	ug/Kg	99
9) Acrolein	7.04	56	60202	481.53	ug/Kg	100
10) Acetone	7.16	43	98672	39.73	ug/Kg	98
11) 1,1-Dichloroethene	7.40	96	232572	44.24	ug/Kg	99
12) Dimethyl sulfide	7.68	62	333006	42.94	ug/Kg	98
13) Iodomethane	7.96	142	180691	34.14	ug/Kg	98
14) Methylene chloride	8.24	84	279373	42.66	ug/Kg	99
15) Carbon disulfide	8.30	76	1114342	47.25	ug/Kg	100
16) Acrylonitrile	8.43	53	94023	44.89	ug/Kg	98
17) Methyl-tert-butyl ether	8.49	73	645455	47.31	ug/Kg	99
18) trans-1,2-Dichloroethene	8.74	96	256115	44.07	ug/Kg	97
19) n-Hexane	8.83	57	613424	49.62	ug/Kg	99
20) Vinyl acetate	9.38	43	332460	31.96	ug/Kg	100
21) 1,1-Dichloroethane	9.42	63	612302	45.40	ug/Kg	100
22) 2-Butanone	10.05	43	99087	36.13	ug/Kg	100
23) 2,2-Dichloropropane	10.29	77	529670	44.36	ug/Kg	100
24) cis-1,2-Dichloroethene	10.36	96	298684	46.45	ug/Kg	99
25) Chloroform	10.60	83	602191	44.70	ug/Kg	99
26) Bromochloromethane	10.85	128	119233	42.75	ug/Kg	96
28) 1,1,1-Trichloroethane	11.20	97	584817	44.17	ug/Kg	99

(#)=qualifier out of range (m)=manual integration

6ST10287.D 8260BSL.M

Wed Sep 30 21:59:57 1998

HPMS_6 Page 1

Data File : C:\HPCHEM\1\DATA\093098\6ST10287.D

Vial: 23

Acq On : 30 Sep 1998 21:33

Operator: CMS

Sample : 50UG/KG STD 8260B SOIL

Inst : HPMS_6

Misc : 5G/5ML

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Sep 30 21:59 1998

Quant Results File: 8260BSL.R

Quant Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)

Title : Method 8260B SOIL - ICAL 09/29/98

Last Update : Tue Sep 29 15:04:21 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
29) Cyclohexane	11.24	56	653364	50.80	ug/Kg	99
30) 1,1-Dichloropropene	11.42	75	412288	45.99	ug/Kg	99
31) Carbon tetrachloride	11.59	117	561666	44.54	ug/Kg	100
33) 1,2-Dichloroethane	11.78	62	499666	44.69	ug/Kg#	94
34) Benzene	11.83	78	1262626	46.44	ug/Kg	100
35) Trichloroethene	12.69	130	285858	44.60	ug/Kg	99
36) 1,2-Dichloropropane	12.94	63	303090	45.60	ug/Kg	100
37) Bromodichloromethane	13.29	83	428074	44.62	ug/Kg	100
38) Dibromomethane	13.38	93	165612	43.24	ug/Kg	100
39) 2-Chloroethylvinyl-ether	13.62	63	38731	45.92	ug/Kg	99
40) 4-Methyl-2-pentanone	13.66	58	83766	36.32	ug/Kg	99
41) cis-1,3-Dichloropropene	14.02	75	437790	40.11	ug/Kg	100
42) Dimethyl disulfide	14.32	79	266253	42.26	ug/Kg	100
45) Toluene	14.51	91	1353315	45.10	ug/Kg	100
46) Ethyl methacrylate	14.62	69	345493	42.18	ug/Kg	99
47) trans-1,3-Dichloropropene	14.71	75	472374	46.99	ug/Kg	99
48) 1,1,2-Trichloroethane	14.97	97	235994	44.33	ug/Kg	100
49) 2-Hexanone	14.90	43	177484	37.43	ug/Kg	100
50) 1,3-Dichloropropane	15.33	76	427634	44.45	ug/Kg	98
51) Tetrachloroethene	15.48	164	272554	45.06	ug/Kg	99
52) Dibromochloromethane	15.78	129	289252	43.25	ug/Kg	100
53) 1,2-Dibromoethane	16.08	107	206251	43.01	ug/Kg	100
54) 1-Chlorohexane	16.19	91	486138	43.79	ug/Kg	98
55) Chlorobenzene	16.68	112	901374	44.49	ug/Kg	98
56) 1,1,1,2-Tetrachloroethane	16.71	131	351213	45.19	ug/Kg	99
57) Ethylbenzene	16.71	106	534923	46.30	ug/Kg	99
58) m+p-Xylene	16.82	106	1330186	92.99	ug/Kg	99
59) o-Xylene	17.48	106	579982	40.83	ug/Kg	99
60) Styrene	17.52	104	1007243	47.70	ug/Kg	99
61) Bromoform	18.10	173	195707	43.79	ug/Kg	99
62) Isopropylbenzene	17.98	105	1604865	47.08	ug/Kg	100
64) 1,1,2,2-Tetrachloroethane	18.24	83	291158	39.90	ug/Kg	100
66) 1,2,3-Trichloropropane	18.46	110	95793	39.41	ug/Kg	97
67) trans-1,4-dichloro-2-buten	18.52	53	129177	47.63	ug/Kg	98
68) propyl-benzene	18.58	91	2064750	45.24	ug/Kg	100
69) Bromobenzene	18.74	156	366132	42.93	ug/Kg	100
70) 1,3,5-Trimethylbenzene	18.81	105	1403733	45.94	ug/Kg	100
71) 2-Chlorotoluene	18.91	91	1277205	45.12	ug/Kg	97
72) 4-Chlorotoluene	18.96	91	1254251	43.67	ug/Kg	98
73) alpha-methyl-styrene	19.29	118	766850	42.23	ug/Kg	99
74) tert-butyl-benzene	19.36	119	1295936	45.15	ug/Kg	100

(#)=qualifier out of range (m)=manual integration

6ST10287.D 8260BSL.M

Wed Sep 30 22:00:02 1998

HPMS_6 Page 2

Data File : C:\HPCHEM\1\DATA\093098\6ST10287.D

Vial: 23

Acq On : 30 Sep 1998 21:33

Operator: CMS

Sample : 50UG/KG STD 8260B SOIL

Inst : HPMS_6

Misc : 5G/5ML

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Sep 30 21:59 1998

Quant Results File: 8260BSL.R

Quant Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)

Title : Method 8260B_SOIL - ICAL 09/29/98

Last Update : Tue Sep 29 15:04:21 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
75) 1,2,4-Trimethylbenzene	19.42	105	1462117	44.87	ug/Kg	99
76) sec-butyl-benzene	19.68	105	1873386	46.35	ug/Kg	99
77) p-isopropyl-toluene	19.87	119	1562704	46.49	ug/Kg	100
78) 1,3-Dichlorobenzene	20.09	146	743864	43.28	ug/Kg	99
79) 1,4-Dichlorobenzene	20.25	146	787551	42.68	ug/Kg	100
80) n-butyl-benzene	20.49	91	1528571	46.76	ug/Kg	99
81) 1,2-Dichlorobenzene	20.84	146	652100	43.38	ug/Kg	100
82) 1,2-dibromo-3-chloropropan	22.02	157	47310	37.54	ug/Kg	98
83) 1,2,4-Trichlorobenzene	23.37	180	392053	42.24	ug/Kg	99
84) Hexachlorobutadiene	23.55	225	277934	44.20	ug/Kg	100
85) Naphthalene	23.81	128	663690	34.77	ug/Kg	100
86) 1,2,3-Trichlorobenzene	24.18	180	338111	41.21	ug/Kg	100

(#) = qualifier out of range (m) = manual integration

6ST10287.D 8260BSL.M

Wed Sep 30 22:00:03 1998

HPMS_6 Page 3

Data File : C:\HPCHEM\1\DATA\093098\6ST10287.D

Vial: 23

Acq On : 30 Sep 1998 21:33

Operator: CMS

Sample : 50UG/KG STD 8260B SOIL

Inst : HPMS_6

Misc : 5G/5ML

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Oct 1 15:21 1998

Quant Results File: FREON.RES

Quant Method : C:\HPCHEM\1\METHODS\FREON.M (RTE Integrator)

Title : F001_5 CALIBRATION - 09/29/98

Last Update : Wed Sep 30 10:25:14 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.11	96	1392896	50.00	ug/Kg	0.00
3) Chlorobenzene-d5	16.62	117	1082769	50.00	ug/Kg	0.00
4) 1,4-dichlorobenzene-d4	20.20	152	653997	50.00	ug/Kg	0.00

System Monitoring Compounds

Target Compounds

					Qvalue
2) 1,1,2-trichloro-1,2,2-trif	7.06	101	322647	45.92 ug/Kg	93

(#) = qualifier out of range (m) = manual integration

6ST10287.D FREON.M

Thu Oct 01 15:21:54 1998

HPMS_6

Page 1

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\100198\6ST10309.D
 Acq On : 1 Oct 1998 9:44
 Sample : VSTD050 50 PPB STD M8260 5G/5ML
 Misc : 5ML PURGE
 MS Integration Params: rteint.p

Vial: 2
 Operator: CMS
 Inst : HPMS_6
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
 Title : Method 8260B_SOIL - ICAL 09/29/98
 Last Update : Wed Sep 30 22:02:29 1998
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	96	0.00
2 T	Dichlorodifluoromethane	0.327	0.329	-0.6	97	0.00
3 P	Chloromethane	0.388	0.389✓	-0.3	101	0.00
4 C	Vinyl chloride	0.252	0.261	-3.6✓	106	0.00
5 T	Bromomethane	0.229	0.241	-5.2	111	0.00
6 T	Chloroethane	0.181	0.191	-5.5	106	0.00
7 T	Trichlorofluoromethane	0.512	0.561	-9.6	106	0.00
8 T	Isoprene	0.312	0.355	-13.8	93	0.00
9 T	Acrolein	0.004	0.018	-350.0#	377#	0.00
10 T	Acetone	0.100	0.077	23.0#	84	0.00
11 C	1,1-Dichloroethene	0.189	0.203	-7.4✓	97	0.00
12 T	Dimethyl sulfide	0.231	0.275	-19.0	96	0.00
13 T	Iodomethane	0.142	0.147	-3.5	80	0.00
14 T	Methylene chloride	0.235	0.239	-1.7	98	0.00
15 T	Carbon disulfide	0.847	0.917	-8.3	103	0.00
16 T	Acrylonitrile	0.075	0.082	-9.3	94	0.00
17 T	Methyl-tert-butyl ether	0.490	0.527	-7.6	90	0.00
18 T	trans-1,2-Dichloroethene	0.209	0.221	-5.7	97	0.00
19 T	n-Hexane	0.444	0.506	-14.0	101	0.00
20 T	Vinyl acetate	0.292	0.278	4.8	72	0.00
21 P	1,1-Dichloroethane	0.484	0.524✓	-8.3	102	0.00
22 T	2-Butanone	0.098	0.092	6.1	79	0.00
23 T	2,2-Dichloropropane	0.429	0.455	-6.1	98	0.00
24 T	cis-1,2-Dichloroethene	0.231	0.259	-12.1	97	0.00
25 C	Chloroform	0.484	0.518	-7.0✓	101	0.00
26 T	Bromochloromethane	0.100	0.102	-2.0	93	0.00
27 S	Dibromofluoromethane	0.252	0.267	-6.0	100	0.00
28 T	1,1,1-Trichloroethane	0.475	0.507	-6.7	102	0.00
29 T	Cyclohexane	0.462	0.542	-17.3	100	0.00
30 T	1,1-Dichloropropene	0.322	0.360	-11.8	99	0.00
31 T	Carbon tetrachloride	0.453	0.496	-9.5	104	0.00
32 S	1,2-Dichloroethane-d4	0.333	0.369	-10.8	105	0.00
33 T	1,2-Dichloroethane	0.401	0.433	-8.0	101	0.00
34 T	Benzene	0.976	1.078	-10.5	101	0.00
35 T	Trichloroethene	0.230	0.246	-7.0	94	0.00
36 C	1,2-Dichloropropane	0.239	0.260	-8.8✓	97	0.00
37 T	Bromodichloromethane	0.344	0.363	-5.5	97	0.00
38 T	Dibromomethane	0.137	0.143	-4.4	96	0.00
39 T	2-Chloroethylvinyl-ether	0.027	0.021	22.2#	66	0.00
40 T	4-Methyl-2-pentanone	0.065	0.076	-16.9	87	0.00
41 T	cis-1,3-Dichloropropene	0.327	0.379	-15.9	94	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\100198\6ST10309.D
 Acq On : 1 Oct 1998 9:44
 Sample : VSTD050 50 PPB STD M8260 5G/5ML
 Misc : 5ML PURGE
 MS Integration Params: rteint.p

Vial: 2
 Operator: CMS
 Inst : HPMS_6
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
 Title : Method 8260B_SOIL - ICAL 09/29/98
 Last Update : Wed Sep 30 22:02:29 1998
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42 T	Dimethyl disulfide	0.169	0.220	-30.2#	96	0.00
43 I	Chlorobenzene-d5	1.000	1.000	0.0	95	0.00
44 S	Toluene-d8	1.089	1.256	-15.3	103	0.00
45 C	Toluene	1.386	1.523	-9.9✓	99	0.00
46 T	Ethyl methacrylate	0.315	0.382	-21.3#	94	0.00
47 T	trans-1,3-Dichloropropene	0.464	0.531	-14.4	98	0.00
48 T	1,1,2-Trichloroethane	0.246	0.269	-9.3	101	0.00
49 T	2-Hexanone	0.181	0.218	-20.4#	90	0.00
50 T	1,3-Dichloropropane	0.444	0.490	-10.4	98	0.00
51 T	Tetrachloroethene	0.279	0.307	-10.0	100	0.00
52 T	Dibromochloromethane	0.309	0.328	-6.1	94	0.00
53 T	1,2-Dibromoethane	0.221	0.234	-5.9	90	0.00
54 T	1-Chlorohexane	0.424	0.525	-23.8#	98	0.00
55 P	Chlorobenzene	0.936	1.013✓	-8.2	98	0.00
56 T	1,1,1,2-Tetrachloroethane	0.359	0.398	-10.9	99	0.00
57 C	Ethylbenzene	0.534	0.606	-13.5✓	100	0.00
58 T	m+p-Xylene	0.661	0.756	-14.4	101	0.00
59 T	o-Xylene	0.554	0.665	-20.0#	98	0.00
60 T	Styrene	0.975	1.135	-16.4	98	0.00
61 P	Bromoform	0.206	0.225✓	-9.2	96	0.00
62 T	Isopropylbenzene	1.574	1.843	-17.1	100	0.00
63 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	97	0.00
64 P	1,1,2,2-Tetrachloroethane	0.558	0.567✓	-1.6	98	0.00
65 S	p-Bromofluorobenzene	0.776	0.893	-15.1	100	0.00
66 T	1,2,3-Trichloropropane	0.186	0.189	-1.6	98	0.00
67 T	trans-1,4-dichloro-2-butene	0.207	0.246	-18.8	104	0.00
68 T	propyl-benzene	3.490	3.898	-11.7	103	0.00
69 T	Bromobenzene	0.652	0.686	-5.2	96	0.00
70 T	1,3,5-Trimethylbenzene	2.336	2.663	-14.0	101	0.00
71 T	2-Chlorotoluene	2.164	2.342	-8.2	101	0.00
72 T	4-Chlorotoluene	2.196	2.419	-10.2	101	0.00
73 T	alpha-methyl-styrene	1.154	1.375	-19.2	99	0.00
74 T	tert-butyl-benzene	2.195	2.455	-11.8	102	0.00
75 T	1,2,4-Trimethylbenzene	2.491	2.739	-10.0	100	0.00
76 T	sec-butyl-benzene	3.090	3.569	-15.5	102	0.00
77 T	p-isopropyl-toluene	2.570	2.952	-14.9	101	0.00
78 T	1,3-Dichlorobenzene	1.314	1.403	-6.8	98	0.00
79 T	1,4-Dichlorobenzene	1.411	1.461	-3.5	98	0.00
80 T	n-butyl-benzene	2.499	2.840	-13.6	102	0.00
81 T	1,2-Dichlorobenzene	1.149	1.218	-6.0	96	0.00

(#) = Out of Range

6ST10309.D 8260BSL.M

Thu Oct 01 10:12:29 1998

HPMS_6 Page 2
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Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\100198\6ST10309.D
 Acq On : 1 Oct 1998 9:44
 Sample : VSTD050 50 PPB STD M8260 5G/5ML
 Misc : 5ML PURGE
 MS Integration Params: rteint.p

Vial: 2
 Operator: CMS
 Inst : HPMS_6
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
 Title : Method 8260B_SOIL - ICAL 09/29/98
 Last Update : Wed Sep 30 22:02:29 1998
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
82 T	1,2-dibromo-3-chloropropane	0.096	0.091	5.2	84	0.00
83 T	1,2,4-Trichlorobenzene	0.710	0.706	0.6	88	0.00
84 T	Hexachlorobutadiene	0.481	0.495	-2.9	98	0.00
85 T	Naphthalene	1.240	1.223	1.4	81	0.00
86 T	1,2,3-Trichlorobenzene	0.627	0.607	3.2	85	0.00

:

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\100198\6ST10309.D
 Acq On : 1 Oct 1998 9:44
 Sample : VSTD050 50 PPB STD M8260 5G/5ML
 Misc : 5ML PURGE
 MS Integration Params: rteint.p

Vial: 2
 Operator: CMS
 Inst : HPMS_6
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\FREON.M (RTE Integrator)
 Title : F001_5 CALIBRATION - 09/29/98
 Last Update : Wed Sep 30 10:25:14 1998
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 75% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev Area%		Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	96	0.00
2 T	1,1,2-trichloro-1,2,2-trifl	0.252	0.285	-13.1	108	0.00
3 I	Chlorobenzene-d5	1.000	1.000	0.0	95	0.00
4 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	97	0.00

(#) = Out of Range
 6ST10309.D FREON.M

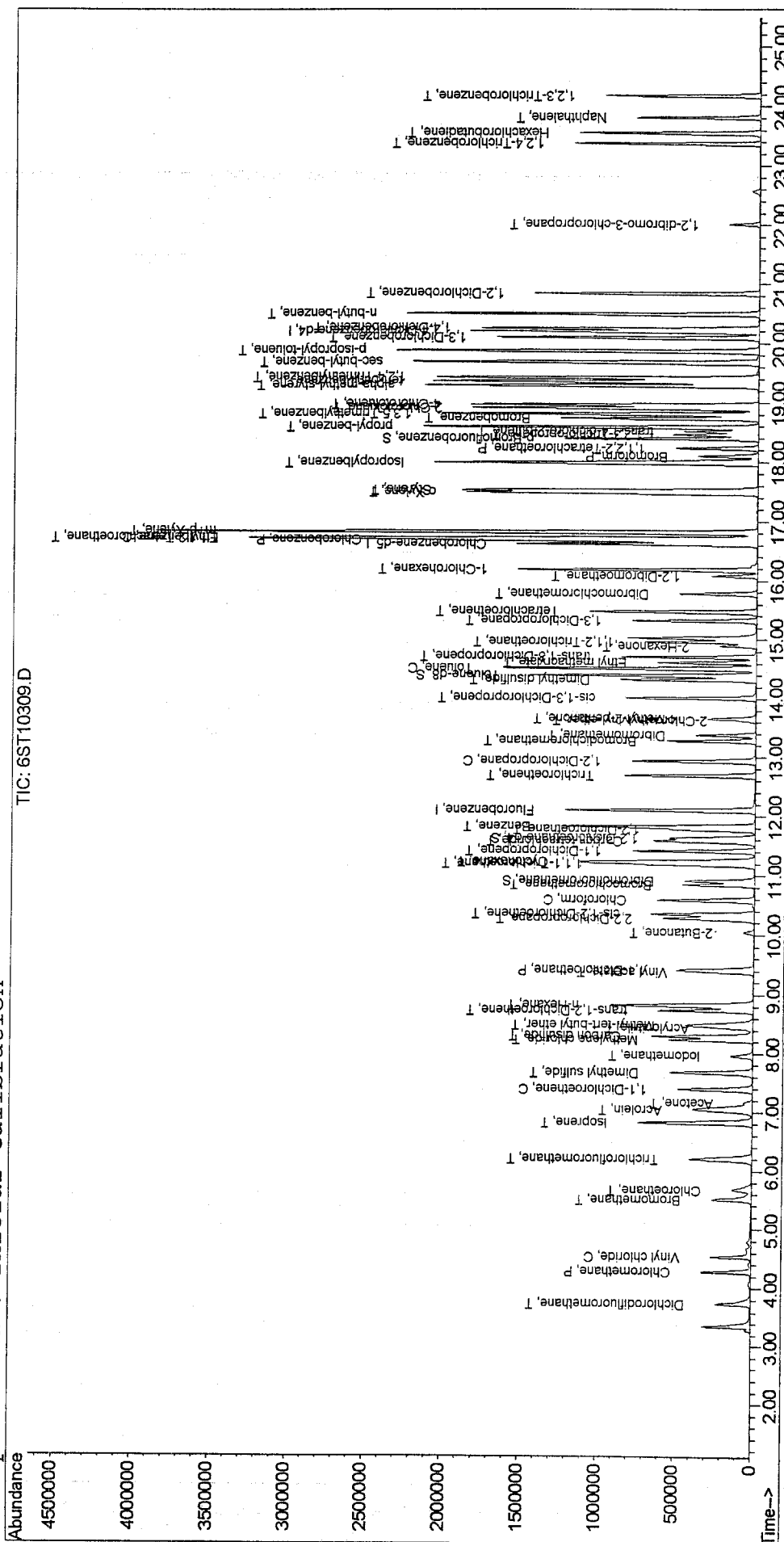
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 Fri Oct 02 12:28:15 1998

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Quantitation Report

Data File : C:\HPCHEM\1\DATA\100198\6ST10309.D Vial: 2
 Acq On : 1 Oct 1998 9:44 Operator: CMS
 Sample : VSTD050 50 PPB STD M8260 5G/5ML Inst : HPMS_6
 Misc : 5ML PURGE Multiplr: 1.00
 MS Integration Params: rteint.p
 Quant Time: Oct 1 10:10 1998 Quant Results File: 8260BSL.RES

Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
 Title : Method 8260B_SOIL - ICAL 09/29/98
 Last Update : Wed Sep 30 22:02:29 1998
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\100198\6ST10309.D

Vial: 2

Acq On : 1 Oct 1998 9:44

Operator: CMS

Sample : VSTD050 50 PPB STD M8260 5G/5ML

Inst : HPMS_6

Misc : 5ML PURGE

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Oct 1 10:10 1998

Quant Results File: 8260BSL.R

Quant Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)

Title : Method 8260B_SOIL - ICAL 09/29/98

Last Update : Wed Sep 30 22:02:29 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene	12.11	96	1396201	50.00	ug/Kg	0.00
43) Chlorobenzene-d5	16.62	117	1070629	50.00	ug/Kg	0.00
63) 1,4-Dichlorobenzene-d4	20.20	152	634843	50.00	ug/Kg	0.00

System Monitoring Compounds

27) Dibromofluoromethane	10.92	111	372313	52.93	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	105.86%		
32) 1,2-Dichloroethane-d4	11.64	65	514773	55.39	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	110.78%		
44) Toluene-d8	14.40	98	1345177	57.68	ug/Kg	0.00
Spiked Amount 50.000	Range 81 - 117		Recovery =	115.36%		
65) p-Bromofluorobenzene	18.39	95	566635	57.54	ug/Kg	0.00
Spiked Amount 50.000	Range 74 - 121		Recovery =	115.08%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.74	85	459013	50.30	ug/Kg	100
3) Chloromethane	4.29	50	542866	50.16	ug/Kg	100
4) Vinyl chloride	4.54	62	364355	51.77	ug/Kg	99
5) Bromomethane	5.51	94	336947	52.70	ug/Kg	99
6) Chloroethane	5.69	64	266647	52.72	ug/Kg	100
7) Trichlorofluoromethane	6.21	101	783266	54.75	ug/Kg	100
8) Isoprene	6.82	67	495004	56.75	ug/Kg	98
9) Acrolein	7.05	56	50341	401.71	ug/Kg	98
10) Acetone	7.17	43	107164	43.48	ug/Kg	99
11) 1,1-Dichloroethene	7.39	96	283804	53.86	ug/Kg	100
12) Dimethyl sulfide	7.68	62	383262	49.30	ug/Kg	98
13) Iodomethane	7.96	142	205921	38.81	ug/Kg	97
14) Methylene chloride	8.24	84	334390	50.93	ug/Kg	99
15) Carbon disulfide	8.30	76	1280814	54.18	ug/Kg	100
16) Acrylonitrile	8.44	53	114999	54.77	ug/Kg	99
17) Methyl-tert-butyl ether	8.49	73	735856	53.81	ug/Kg	100
18) trans-1,2-Dichloroethene	8.74	96	308057	52.88	ug/Kg	98
19) n-Hexane	8.82	57	706331	57.00	ug/Kg	98
20) Vinyl acetate	9.38	43	388505	37.26	ug/Kg	99
21) 1,1-Dichloroethane	9.42	63	732003	54.15	ug/Kg	100
22) 2-Butanone	10.05	43	128659	46.81	ug/Kg	99
23) 2,2-Dichloropropane	10.29	77	635950	53.14	ug/Kg	100
24) cis-1,2-Dichloroethene	10.36	96	361001	56.01	ug/Kg	99
25) Chloroform	10.59	83	722714	53.52	ug/Kg	100
26) Bromochloromethane	10.85	128	141758	50.71	ug/Kg	96
28) 1,1,1-Trichloroethane	11.20	97	707533	53.31	ug/Kg	98

(#)= qualifier out of range (m) = manual integration

6ST10309.D 8260BSL.M

Thu Oct 01 10:10:42 1998

HPMS_6 Page 0

Data File : C:\HPCHEM\1\DATA\100198\6ST10309.D

Vial: 2

Acq On : 1 Oct 1998 9:44

Operator: CMS

Sample : VSTD050 50 PPB STD M8260 5G/5ML

Inst : HPMS_6

Misc : 5ML PURGE

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Oct 1 10:10 1998

Quant Results File: 8260BSL.R

Quant Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)

Title : Method 8260B_SOIL - ICAL 09/29/98

Last Update : Wed Sep 30 22:02:29 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
29) Cyclohexane	11.24	56	756797	58.71	ug/Kg	99
30) 1,1-Dichloropropene	11.42	75	502911	55.97	ug/Kg	100
31) Carbon tetrachloride	11.59	117	691997	54.74	ug/Kg	100
33) 1,2-Dichloroethane	11.78	62	603945	53.89	ug/Kg#	94
34) Benzene	11.83	78	1504703	55.22	ug/Kg	99
35) Trichloroethene	12.69	130	343036	53.39	ug/Kg	98
36) 1,2-Dichloropropane	12.94	63	362682	54.43	ug/Kg	100
37) Bromodichloromethane	13.28	83	507416	52.77	ug/Kg	99
38) Dibromomethane	13.38	93	200306	52.17	ug/Kg	98
39) 2-Chloroethylvinyl-ether	13.63	63	29951	33.26	ug/Kg	97
40) 4-Methyl-2-pentanone	13.66	58	105853	45.79	ug/Kg	100
41) cis-1,3-Dichloropropene	14.02	75	529711	48.42	ug/Kg	99
42) Dimethyl disulfide	14.32	79	306985	48.61	ug/Kg	100
45) Toluene	14.52	91	1630945	54.97	ug/Kg	100
46) Ethyl methacrylate	14.62	69	409148	50.52	ug/Kg	99
47) trans-1,3-Dichloropropene	14.71	75	568026	57.14	ug/Kg	100
48) 1,1,2-Trichloroethane	14.97	97	288184	54.75	ug/Kg	100
49) 2-Hexanone	14.90	43	232970	49.68	ug/Kg	99
50) 1,3-Dichloropropane	15.32	76	524920	55.18	ug/Kg	100
51) Tetrachloroethene	15.48	164	328244	54.89	ug/Kg	98
52) Dibromochloromethane	15.78	129	351423	53.14	ug/Kg	100
53) 1,2-Dibromoethane	16.08	107	250057	52.74	ug/Kg	99
54) 1-Chlorohexane	16.18	91	562494	51.25	ug/Kg	98
55) Chlorobenzene	16.68	112	1084198	54.12	ug/Kg	99
56) 1,1,1,2-Tetrachloroethane	16.71	131	426468	55.49	ug/Kg	99
57) Ethylbenzene	16.71	106	648266	56.75	ug/Kg	100
58) m+p-Xylene	16.82	106	1618168	114.40	ug/Kg	99
59) o-Xylene	17.49	106	711849	50.68	ug/Kg	99
60) Styrene	17.53	104	1215233	58.20	ug/Kg	99
61) Bromoform	18.10	173	241246	54.59	ug/Kg	99
62) Isopropylbenzene	17.99	105	1973101	58.54	ug/Kg	100
64) 1,1,2,2-Tetrachloroethane	18.23	83	360260	50.86	ug/Kg	100
66) 1,2,3-Trichloropropane	18.47	110	119672	50.72	ug/Kg	97
67) trans-1,4-dichloro-2-buten	18.52	53	156324	59.38	ug/Kg	98
68) propyl-benzene	18.59	91	2474883	55.86	ug/Kg	100
69) Bromobenzene	18.74	156	435369	52.59	ug/Kg	100
70) 1,3,5-Trimethylbenzene	18.81	105	1690750	57.00	ug/Kg	100
71) 2-Chlorotoluene	18.91	91	1486500	54.10	ug/Kg	99
72) 4-Chlorotoluene	18.97	91	1535626	55.08	ug/Kg	100
73) alpha-methyl-styrene	19.28	118	872645	49.51	ug/Kg	100
74) tert-butyl-benzene	19.36	119	1558733	55.94	ug/Kg	100

(#) = qualifier out of range (m) = manual integration

6ST10309.D 8260BSL.M

Thu Oct 01 10:10:46 1998

HPMS_6 Page 2

Data File : C:\HPCHEM\1\DATA\100198\6ST10309.D
Acq On : 1 Oct 1998 9:44
Sample : VSTD050 50 PPB STD M8260 5G/5ML
Misc : 5ML PURGE
MS Integration Params: rteint.p
Quant Time: Oct 1 10:10 1998

Vial: 2
Operator: CMS
Inst : HPMS_6
Multiplr: 1.00

Quant Results File: 8260BSL.R

Quant Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
Title : Method 8260B_SOIL - ICAL 09/29/98
Last Update : Wed Sep 30 22:02:29 1998
Response via : Initial Calibration
DataAcq Meth : 8260BSL

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
75) 1,2,4-Trimethylbenzene	19.42	105	1739106	54.98	ug/Kg	100
76) sec-butyl-benzene	19.68	105	2265756	57.75	ug/Kg	100
77) p-isopropyl-toluene	19.87	119	1873843	57.43	ug/Kg	100
78) 1,3-Dichlorobenzene	20.10	146	890673	53.39	ug/Kg	99
79) 1,4-Dichlorobenzene	20.25	146	927591	51.79	ug/Kg	100
80) n-butyl-benzene	20.49	91	1802754	56.82	ug/Kg	99
81) 1,2-Dichlorobenzene	20.84	146	773555	53.02	ug/Kg	99
82) 1,2-dibromo-3-chloropropan	22.01	157	57612	47.09	ug/Kg	96
83) 1,2,4-Trichlorobenzene	23.38	180	448318	49.76	ug/Kg	99
84) Hexachlorobutadiene	23.55	225	314518	51.53	ug/Kg	99
85) Naphthalene	23.81	128	776431	41.90	ug/Kg	100
86) 1,2,3-Trichlorobenzene	24.18	180	385381	48.39	ug/Kg	100

:

(#) = qualifier out of range (m) = manual integration
6ST10309.D 8260BSL.M Thu Oct 01 10:10:47 1998

Data File : C:\HPCHEM\1\DATA\100198\6ST10309.D

Vial: 2

Acq On : 1 Oct 1998 9:44

Operator: CMS

Sample : VSTD050 50 PPB STD M8260 5G/5ML

Inst : HPMS_6

Misc : 5ML PURGE

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Oct 2 12:27 1998

Quant Results File: FREON.RES

Quant Method : C:\HPCHEM\1\METHODS\FREON.M (RTE Integrator)

Title : F001_5 CALIBRATION - 09/29/98

Last Update : Wed Sep 30 10:25:14 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.11	96	1396201	50.00	ug/Kg	0.00
3) Chlorobenzene-d5	16.62	117	1070629	50.00	ug/Kg	0.00
4) 1,4-dichlorobenzene-d4	20.20	152	634843	50.00	ug/Kg	0.00

System Monitoring Compounds

Target Compounds

					Qvalue
2) 1,1,2-trichloro-1,2,2-trif	7.06	101	397296	56.41 ug/Kg	93

(#) = qualifier out of range (m) = manual integration

6ST10309.D FREON.M

Fri Oct 02 12:28:03 1998

HPMS_6 --Page 1

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Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\100398\6ST10356.D
 Acq On : 3 Oct 1998 9:18
 Sample : VSTD050 50 PPB STD M8260 5G/5ML
 Misc : 5ML PURGE
 MS Integration Params: rteint.p

Vial: 2
 Operator: CMS
 Inst : HPMS_6
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
 Title : Method 8260B_SOIL - ICAL 09/29/98
 Last Update : Wed Sep 30 22:02:29 1998
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	95	0.00
2 T	Dichlorodifluoromethane	0.327	0.272	16.8	79	0.00
3 P	Chloromethane	0.388	0.315✓	18.8	80	0.00
4 C	Vinyl chloride	0.252	0.232	7.9✓	93	0.00
5 T	Bromomethane	0.229	0.214	6.6	97	0.00
6 T	Chloroethane	0.181	0.165	8.8	90	0.00
7 T	Trichlorofluoromethane	0.512	0.549	-7.2	102	0.00
8 T	Isoprene	0.312	0.350	-12.2	90	0.00
9 T	Acrolein	0.004	0.022	-450.0#	456#	0.00
10 T	Acetone	0.100	0.089	11.0	95	0.00
11 C	1,1-Dichloroethene	0.189	0.201	-6.3✓	94	0.00
12 T	Dimethyl sulfide	0.231	0.277	-19.9	95	0.00
13 T	Iodomethane	0.142	0.129	9.2	68	0.00
14 T	Methylene chloride	0.235	0.244	-3.8	99	0.00
15 T	Carbon disulfide	0.847	0.931	-9.9	103	0.00
16 T	Acrylonitrile	0.075	0.093	-24.0#	104	0.00
17 T	Methyl-tert-butyl ether	0.490	0.541	-10.4	91	0.00
18 T	trans-1,2-Dichloroethene	0.209	0.221	-5.7	95	0.00
19 T	n-Hexane	0.444	0.510	-14.9	100	0.00
20 T	Vinyl acetate	0.292	0.260	11.0	66	0.00
21 P	1,1-Dichloroethane	0.484	0.526✓	-8.7	101	0.00
22 T	2-Butanone	0.098	0.105	-7.1	89	0.00
23 T	2,2-Dichloropropane	0.429	0.448	-4.4	95	0.00
24 T	cis-1,2-Dichloroethene	0.231	0.261	-13.0	97	0.00
25 C	Chloroform	0.484	0.518	-7.0✓	100	0.00
26 T	Bromochloromethane	0.100	0.103	-3.0	94	0.00
27 S	Dibromofluoromethane	0.252	0.271	-7.5	100	0.00
28 T	1,1,1-Trichloroethane	0.475	0.499	-5.1	99	0.00
29 T	Cyclohexane	0.462	0.541	-17.1	99	0.00
30 T	1,1-Dichloropropene	0.322	0.354	-9.9	96	0.00
31 T	Carbon tetrachloride	0.453	0.479	-5.7	100	0.00
32 S	1,2-Dichloroethane-d4	0.333	0.376	-12.9	106	0.00
33 T	1,2-Dichloroethane	0.401	0.437	-9.0	100	0.00
34 T	Benzene	0.976	1.080	-10.7	100	0.00
35 T	Trichloroethene	0.230	0.244	-6.1	92	0.00
36 C	1,2-Dichloropropane	0.239	0.260	-8.8✓	96	0.00
37 T	Bromodichloromethane	0.344	0.362	-5.2	95	0.00
38 T	Dibromomethane	0.137	0.147	-7.3	97	0.00
39 T	2-Chloroethylvinyl-ether	0.027	0.016	40.7#	50	0.00
40 T	4-Methyl-2-pentanone	0.065	0.085	-30.8#	97	0.00
41 T	cis-1,3-Dichloropropene	0.327	0.379	-15.9	93	0.00

(#) = Out of Range

6ST10356.D 8260BSL.M

Sat Oct 03 09:47:55 1998

HPMS_6 -- Page 1

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\100398\6ST10356.D

Acq On : 3 Oct 1998 9:18

Sample : VSTD050 50 PPB STD M8260 5G/5ML

Misc : 5ML PURGE

MS Integration Params: rteint.p

Vial: 2

Operator: CMS

Inst : HPMS_6

Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)

Title : Method 8260B_SOIL - ICAL 09/29/98

Last Update : Wed Sep 30 22:02:29 1998

Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42 T	Dimethyl disulfide	0.169	0.219	-29.6#	94	0.00
43 I	Chlorobenzene-d5	1.000	1.000	0.0	93	0.00
44 S	Toluene-d8	1.089	1.264	-16.1	102	0.00
45 C	Toluene	1.386	1.514	-9.2	97	0.00
46 T	Ethyl methacrylate	0.315	0.393	-24.8#	95	0.00
47 T	trans-1,3-Dichloropropene	0.464	0.541	-16.6	99	0.00
48 T	1,1,2-Trichloroethane	0.246	0.274	-11.4	101	0.00
49 T	2-Hexanone	0.181	0.251	-38.7#	103	0.00
50 T	1,3-Dichloropropane	0.444	0.500	-12.6	98	0.00
51 T	Tetrachloroethene	0.279	0.302	-8.2	97	0.00
52 T	Dibromochloromethane	0.309	0.330	-6.8	93	0.00
53 T	1,2-Dibromoethane	0.221	0.243	-10.0	92	0.00
54 T	1-Chlorohexane	0.424	0.519	-22.4#	95	0.00
55 P	Chlorobenzene	0.936	1.009	-7.8	97	0.00
56 T	1,1,1,2-Tetrachloroethane	0.359	0.397	-10.6	98	0.00
57 C	Ethylbenzene	0.534	0.597	-11.8	97	0.00
58 T	m+p-Xylene	0.661	0.746	-12.9	98	0.00
59 T	o-Xylene	0.554	0.651	-17.5	95	0.00
60 T	Styrene	0.975	1.126	-15.5	96	0.00
61 P	Bromoform	0.206	0.235	-14.1	98	0.00
62 T	Isopropylbenzene	1.574	1.812	-15.1	97	0.00
63 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	97	0.00
64 P	1,1,2,2-Tetrachloroethane	0.558	0.593	-6.3	103	0.00
65 S	p-Bromofluorobenzene	0.776	0.886	-14.2	100	0.00
66 T	1,2,3-Trichloropropane	0.186	0.196	-5.4	102	0.00
67 T	trans-1,4-dichloro-2-butene	0.207	0.251	-21.3#	107	0.00
68 T	propyl-benzene	3.490	3.793	-8.7	100	0.00
69 T	Bromobenzene	0.652	0.672	-3.1	95	0.00
70 T	1,3,5-Trimethylbenzene	2.336	2.612	-11.8	99	0.00
71 T	2-Chlorotoluene	2.164	2.297	-6.1	99	0.00
72 T	4-Chlorotoluene	2.196	2.363	-7.6	99	0.00
73 T	alpha-methyl-styrene	1.154	1.326	-14.9	95	0.00
74 T	tert-butyl-benzene	2.195	2.386	-8.7	99	0.00
75 T	1,2,4-Trimethylbenzene	2.491	2.719	-9.2	99	0.00
76 T	sec-butyl-benzene	3.090	3.485	-12.8	100	0.00
77 T	p-isopropyl-toluene	2.570	2.900	-12.8	100	0.00
78 T	1,3-Dichlorobenzene	1.314	1.386	-5.5	97	0.00
79 T	1,4-Dichlorobenzene	1.411	1.457	-3.3	98	0.00
80 T	n-butyl-benzene	2.499	2.868	-14.8	104	0.00
81 T	1,2-Dichlorobenzene	1.149	1.218	-6.0	96	0.00

(#) = Out of Range

6ST10356.D 8260BSL.M

Sat Oct 03 09:48:11 1998

HPMS_6 Page 2

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\100398\6ST10356.D

Vial: 2

Acq On : 3 Oct 1998 9:18

Operator: CMS

Sample : VSTD050 50 PPB STD M8260 5G/5ML

Inst : HPMS_6

Misc : 5ML PURGE

Multiplr: 1.00

MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)

Title : Method 8260B_SOIL - ICAL 09/29/98

Last Update : Wed Sep 30 22:02:29 1998

Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
82 T	1,2-dibromo-3-chloropropane	0.096	0.101	-5.2	93	0.00
83 T	1,2,4-Trichlorobenzene	0.710	0.763	-7.5	95	0.00
84 T	Hexachlorobutadiene	0.481	0.505	-5.0	100	0.00
85 T	Naphthalene	1.240	1.457	-17.5	97	0.00
86 T	1,2,3-Trichlorobenzene	0.627	0.676	-7.8	95	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

6ST10356.D 8260BSL.M

Sat Oct 03 09:48:13 1998

HPMS_6 -Page 3

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Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\100398\6ST10356.D

Vial: 2

Acq On : 3 Oct 1998 9:18

Operator: CMS

Sample : VSTD050 50 PPB STD M8260 5G/5ML

Inst : HPMS_6

Misc : 5ML PURGE

Multiplr: 1.00

MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\FREON.M (RTE Integrator)

Title : F001_5 CALIBRATION - 09/29/98

Last Update : Wed Sep 30 10:25:14 1998

Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 75% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	95	0.00
2 T	1,1,2-trichloro-1,2,2-trifl	0.252	0.281	-11.5	105	0.00
3 I	Chlorobenzene-d5	1.000	1.000	0.0	93	0.00
4 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	97	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

6ST10356.D FREON.M

Mon Oct 05 10:00:19 1998

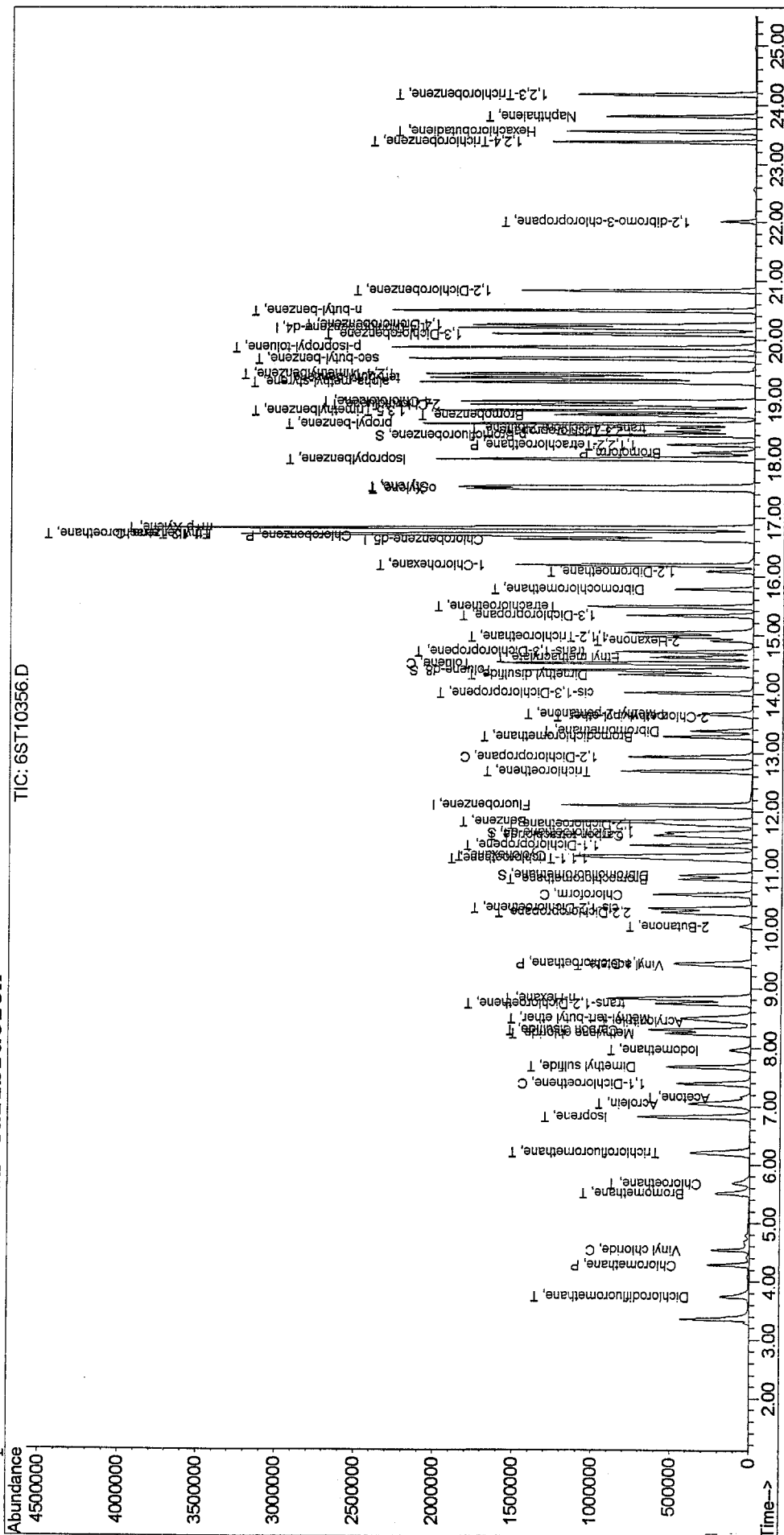
HPMS_6

Page 1

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Quantitation Report

Data File : C:\HPCHEM\1\DATA\100398\6ST10356.D
 Acq On : 3 Oct 1998 9:18 Vial: 2
 Sample : VSTD050 50 PPB STD M8260 5G/5ML Operator: CMS
 Misc : 5ML PURGE Inst : HPMS_6
 MS Integration Params: rteint.p Multiplr: 1.00
 Quant Time: Oct 3 9:44 1998 Quant Results File: 8260BSL.RES
 Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
 Title : Method 8260B SOIL - ICAL 09/29/98
 Last Update : Wed Sep 30 22:02:29 1998
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\100398\6ST10356.D

Vial: 2

Acq On : 3 Oct 1998 9:18

Operator: CMS

Sample : VSTD050 50 PPB STD M8260 5G/5ML

Inst : HPMS_6

Misc : 5ML PURGE

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Oct 3 9:44 1998

Quant Results File: 8260BSL.R

Quant Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)

Title : Method 8260B SOIL - ICAL 09/29/98

Last Update : Wed Sep 30 22:02:29 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene	12.11	96	1375473	50.00	ug/Kg	0.00
43) Chlorobenzene-d5	16.62	117	1055158	50.00	ug/Kg	0.00
63) 1,4-Dichlorobenzene-d4	20.20	152	637069	50.00	ug/Kg	0.00

System Monitoring Compounds

27) Dibromofluoromethane	10.92	111	373120	53.85	ug/Kg	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	107.70%
32) 1,2-Dichloroethane-d4	11.64	65	517756	56.55	ug/Kg	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	113.10%
44) Toluene-d8	14.40	98	1333770	58.03	ug/Kg	0.00
Spiked Amount	50.000	Range	81 - 117	Recovery	=	116.06%
65) p-Bromofluorobenzene	18.39	95	564257	57.10	ug/Kg	0.00
Spiked Amount	50.000	Range	74 - 121	Recovery	=	114.20%

Target Compounds

Qvalue

2) Dichlorodifluoromethane	3.75	85	373521	41.55	ug/Kg	99
3) Chloromethane	4.29	50	433622	40.67	ug/Kg	99
4) Vinyl chloride	4.54	62	319367	46.06	ug/Kg	100
5) Bromomethane	5.51	94	294502	46.75	ug/Kg	100
6) Chloroethane	5.68	64	226936	45.54	ug/Kg	94
7) Trichlorofluoromethane	6.21	101	754603	53.55	ug/Kg	100
8) Isoprene	6.82	67	480956	55.97	ug/Kg	99
9) Acrolein	7.05	56	60987	493.99	ug/Kg	100
10) Acetone	7.17	43	122015	51.34	ug/Kg	98
11) 1,1-Dichloroethene	7.39	96	277060	53.37	ug/Kg	99
12) Dimethyl sulfide	7.67	62	380459	49.68	ug/Kg	99
13) Iodomethane	7.96	142	176960	33.85	ug/Kg	97
14) Methylene chloride	8.24	84	335111	51.81	ug/Kg	99
15) Carbon disulfide	8.30	76	1280596	54.99	ug/Kg	100
16) Acrylonitrile	8.44	53	127259	61.52	ug/Kg	99
17) Methyl-tert-butyl ether	8.49	73	744292	55.25	ug/Kg	99
18) trans-1,2-Dichloroethene	8.73	96	303788	52.93	ug/Kg	98
19) n-Hexane	8.82	57	701062	57.43	ug/Kg	99
20) Vinyl acetate	9.38	43	357778	34.83	ug/Kg	100
21) 1,1-Dichloroethane	9.42	63	722862	54.28	ug/Kg	100
22) 2-Butanone	10.05	43	143832	53.12	ug/Kg	99
23) 2,2-Dichloropropane	10.28	77	616136	52.26	ug/Kg	100
24) cis-1,2-Dichloroethene	10.36	96	359607	56.63	ug/Kg	100
25) Chloroform	10.59	83	712384	53.55	ug/Kg	100
26) Bromochloromethane	10.85	128	142193	51.63	ug/Kg	98
28) 1,1,1-Trichloroethane	11.20	97	686184	52.48	ug/Kg	98

(#)=qualifier out of range (m)=manual integration

6ST10356.D 8260BSL.M

Sat Oct 03 09:44:35 1998

HPMS_6 Page 1

Data File : C:\HPCHEM\1\DATA\100398\6ST10356.D

Vial: 2

Acq On : 3 Oct 1998 9:18

Operator: CMS

Sample : VSTD050 50 PPB STD M8260 5G/5ML

Inst : HPMS_6

Misc : 5ML PURGE

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Oct 3 9:44 1998

Quant Results File: 8260BSL.R

Quant Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)

Title : Method 8260B_SOIL - ICAL 09/29/98

Last Update : Wed Sep 30 22:02:29 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
29) Cyclohexane	11.24	56	744436	58.62	ug/Kg	99
30) 1,1-Dichloropropene	11.42	75	486985	55.01	ug/Kg	99
31) Carbon tetrachloride	11.59	117	659139	52.93	ug/Kg	99
33) 1,2-Dichloroethane	11.78	62	601601	54.49	ug/Kg#	94
34) Benzene	11.83	78	1484839	55.31	ug/Kg	100
35) Trichloroethene	12.69	130	336214	53.12	ug/Kg	99
36) 1,2-Dichloropropane	12.94	63	357926	54.53	ug/Kg	100
37) Bromodichloromethane	13.28	83	498413	52.61	ug/Kg	99
38) Dibromomethane	13.38	93	202765	53.61	ug/Kg	98
39) 2-Chloroethylvinyl-ether	13.62	63	22684	24.54	ug/Kg	98
40) 4-Methyl-2-pentanone	13.66	58	117190	51.45	ug/Kg	100
41) cis-1,3-Dichloropropene	14.02	75	521288	48.37	ug/Kg	100
42) Dimethyl disulfide	14.33	79	300908	48.37	ug/Kg	100
45) Toluene	14.51	91	1597552	54.64	ug/Kg	99
46) Ethyl methacrylate	14.62	69	414218	51.90	ug/Kg	99
47) trans-1,3-Dichloropropene	14.71	75	570954	58.28	ug/Kg	100
48) 1,1,2-Trichloroethane	14.97	97	289443	55.80	ug/Kg	99
49) 2-Hexanone	14.90	43	265180	57.38	ug/Kg	100
50) 1,3-Dichloropropane	15.33	76	527763	56.30	ug/Kg	100
51) Tetrachloroethene	15.48	164	318215	53.99	ug/Kg	98
52) Dibromochloromethane	15.78	129	348023	53.40	ug/Kg	99
53) 1,2-Dibromoethane	16.08	107	256362	54.86	ug/Kg	99
54) 1-Chlorohexane	16.18	91	547146	50.58	ug/Kg	98
55) Chlorobenzene	16.68	112	1064515	53.92	ug/Kg	99
56) 1,1,1,2-Tetrachloroethane	16.71	131	419392	55.37	ug/Kg	99
57) Ethylbenzene	16.71	106	629925	55.95	ug/Kg	99
58) m+p-Xylene	16.82	106	1573875	112.90	ug/Kg	99
59) o-Xylene	17.49	106	687251	49.65	ug/Kg	99
60) Styrene	17.53	104	1187880	57.73	ug/Kg	99
61) Bromoform	18.10	173	247695	56.87	ug/Kg	99
62) Isopropylbenzene	17.99	105	1911546	57.55	ug/Kg	100
64) 1,1,2,2-Tetrachloroethane	18.24	83	377788	53.14	ug/Kg	100
66) 1,2,3-Trichloropropane	18.46	110	124938	52.77	ug/Kg	97
67) trans-1,4-dichloro-2-buten	18.52	53	160022	60.57	ug/Kg	100
68) propyl-benzene	18.59	91	2416692	54.35	ug/Kg	100
69) Bromobenzene	18.74	156	427878	51.51	ug/Kg	100
70) 1,3,5-Trimethylbenzene	18.81	105	1663877	55.90	ug/Kg	99
71) 2-Chlorotoluene	18.91	91	1463297	53.07	ug/Kg	98
72) 4-Chlorotoluene	18.96	91	1505421	53.81	ug/Kg	98
73) alpha-methyl-styrene	19.29	118	844887	47.77	ug/Kg	100
74) tert-butyl-benzene	19.36	119	1519754	54.35	ug/Kg	100

(#)=qualifier out of range (m)=manual integration

6ST10356.D 8260BSL.M

Sat Oct 03 09:44:40 1998

HPMS_6 - Page 2

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Data File : C:\HPCHEM\1\DATA\100398\6ST10356.D

Vial: 2

Acq On : 3 Oct 1998 9:18

Operator: CMS

Sample : VSTD050 50 PPB STD M8260 5G/5ML

Inst : HPMS_6

Misc : 5ML PURGE

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Oct 3 9:44 1998

Quant Results File: 8260BSL.R

Quant Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)

Title : Method 8260B_SOIL - ICAL 09/29/98

Last Update : Wed Sep 30 22:02:29 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
75) 1,2,4-Trimethylbenzene	19.42	105	1731896	54.56	ug/Kg	99
76) sec-butyl-benzene	19.68	105	2220503	56.40	ug/Kg	99
77) p-isopropyl-toluene	19.87	119	1847314	56.42	ug/Kg	100
78) 1,3-Dichlorobenzene	20.10	146	882893	52.73	ug/Kg	99
79) 1,4-Dichlorobenzene	20.25	146	928270	51.64	ug/Kg	100
80) n-butyl-benzene	20.49	91	1827372	57.39	ug/Kg	99
81) 1,2-Dichlorobenzene	20.84	146	775693	52.98	ug/Kg	99
82) 1,2-dibromo-3-chloropropan	22.02	157	64103	52.21	ug/Kg	97
83) 1,2,4-Trichlorobenzene	23.38	180	486328	53.79	ug/Kg	100
84) Hexachlorobutadiene	23.56	225	321946	52.56	ug/Kg	99
85) Naphthalene	23.81	128	928000	49.90	ug/Kg	99
86) 1,2,3-Trichlorobenzene	24.18	180	430744	53.90	ug/Kg	99

(#) = qualifier out of range (m) = manual integration

6ST10356.D 8260BSL.M

Sat Oct 03 09:44:42 1998

HPMS_6 Page 3

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Data File : C:\HPCHEM\1\DATA\100398\6ST10356.D

Vial: 2

Acq On : 3 Oct 1998 9:18

Operator: CMS

Sample : VSTD050 50 PPB STD M8260 5G/5ML

Inst : HPMS_6

Misc : 5ML PURGE

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Oct 5 9:59 1998

Quant Results File: FREON.RES

Quant Method : C:\HPCHEM\1\METHODS\FREON.M (RTE Integrator)

Title : F001_5 CALIBRATION - 09/29/98

Last Update : Wed Sep 30 10:25:14 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.11	96	1375473	50.00	ug/Kg	0.00
3) Chlorobenzene-d5	16.62	117	1055158	50.00	ug/Kg	0.00
4) 1,4-dichlorobenzene-d4	20.20	152	637069	50.00	ug/Kg	0.00

System Monitoring Compounds

Target Compounds

						Qvalue
2) 1,1,2-trichloro-1,2,2-trif	7.05	101	386839	55.75	ug/Kg	92

(#) = qualifier out of range (m) = manual integration

6ST10356.D FREON.M

Mon Oct 05 10:00:02 1998

HPMS_6 -- Page 1

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GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\093098\6BF10286.D

Tune Time : 30 Sep 1998 21:02

Daily Calibration File : C:\HPCHEM\1\DATA\093098\6ST10287.D

DFM DCA TOL BFB

FBZ

CBZ

1392900

1082770

653997

File	Sample	Surrogate Recovery %				Internal Standard Responses		
6BK10288.D	VBLK0930	102	104	105	114	1380109	1015607	516373
6HU10290.D	HULL 09-	73*	78*	57*	38*	1139631	803162	377325
6HU10291.D	HULL 09-	75*	83	65*	49*	1240867	898253	476153
6HU10292.D	HULL 09-	75*	81	67*	53*	1252118	908041	473329
6HU10293.D	HULL 09-	70*	77*	46*	32*	840968	594726	303340*
6HU10294.D	HULL 09-	52*	58*	33*	28*	899967	632949	354210
6HU10295.D	HULL 09-	98	99	93	83	1297289	958341	489604
6LA10296.D	LANL 09-	91	101	77*	80	826728	590949	301201*
6LA10297.D	LANL 09-	100	103	101	98	1194490	865699	467770
6LA10298.D	LANL 09-	106	118	82	81	450324*	313891*	158511*
6LA10299.D	LANL 09-	105	106	110	108	1229275	881562	442876
6LA10300.D	LANL 09-	98	97	105	102	1203265	869754	451365
6LA10301.D	LANL 09-	95	95	101	99	1240045	895748	466798
6LA10302.D	LANL 09-	96	98	100	99	1207313	883960	457245
6LA10303.D	LANL 09-	105	138*	32*	40*	93944*	67579*	27260*
6LA10304.D	LANL 09-	97	101	92	81	1142185	820627	430429
6LA10305.D	LANL 09-	103	107	100	88	1195912	868607	469357
6LA10306.D	LANL 09-	102	108	98	86	1178243	857042	454975
6LA10307.D	LANL 09-	93	100	84	81	1065979	779249	395560
6LC10289.D	20UG/KG	95	97	98	101	1388372	1040689	618994

t - fails 12hr time check * - fails criteria

Created: Thu Oct 01 09:21:06 1998 HPMS_6

GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\100198\6BF10308.D

Tune Time : 1 Oct 1998 9:15

Daily Calibration File : C:\HPCHEM\1\DATA\100198\6ST10309.D

DFM DCA TOL BFB

FBZ

CBZ

1396200

1070630

634843

File	Sample	Surrogate	Recovery %	Internal	Standard	Responses
6BK10310.D	VBLK1001	107	109	115	125*	1315862 937592 470435
6BK10312.D	VBLK1001	102	106	109	117	1260649 902515 468463
6HA10321.D	HULL ASS	98	106	85	75	1247534 974505 500851
6HA10322.D	HULL ASS	90	92	82	69*	1218607 855550 440689
6HA10323.D	HULL ASS	72*	76*	53*	28*	1218219 865724 457147
6HA10324.D	HULL ASS	71*	76*	56*	46*	1224638 877362 525958
6LA10320.D	LANL 09-	100	104	103	120	1185803 844967 479521
6LA10325.D	LANL 09-	100	104	102	102	1265945 903618 485304
6LA10326.D	LANL 09-	103	107	108	107	1242737 880470 486860
6LA10327.D	LANL 09-	98	103	95	85	1210690 875993 452788
6QC10311.D	20 PPB V	104	108	111	112	1352814 995508 600302
6UC10316.D	UCCSC 09	102	108	100	93	1287402 933212 465034
6WS10313.D	WASTRON	98	102	99	85	1191672 830210 422693
6WS10314.D	WASTRON	95	98	94	73*	1296116 930542 545431
6WS10315.D	WASTRON	87	89	83	65*	1317534 956569 547286
6WS10317.D	WASTRON	62*	68*	38*	22*	1208306 794299 309512*
6WS10318.D	WASTRON	73*	78*	46*	30*	1160614 797522 390735
6WS10319.D	WASTRON	67*	72*	46*	18*	1172656 814084 396693
6WS10328.D	WASTRON	86	88	79*	53*	1241146 876999 459428
6WS10329.D	WASTRON	78*	77*	61*	28*	1234186 857646 428165

t - fails 12hr time check * - fails criteria

Created: Fri Oct 02 09:48:56 1998 HPMS_6

GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\100398\6BF10355.D

Tune Time : 3 Oct 1998 8:49

Daily Calibration File : C:\HPCHEM\1\DATA\100398\6ST10356.D

		DFM	DCA	TOL	BFB	FBZ	CBZ	
						1375470	1055160	637069
File	Sample	Surrogate Recovery %				Internal Standard Responses		
6BK10357.D	VBLK1003	105	109	110	118	1252651	901518	461669
6ET10359.D	E TECH 0	111	115	116	122	1249377	888579	423778
6ET10360.D	E TECH 0	112	115	109	103	1325371	992274	536754
6ET10361.D	E TECH 0	108	111	102	89	1348074	992932	531816
6ET10371.D	E TECH 0	114	118	124	119	1206313	853199	438085
6ET10372.D	E TECH 0	114	118	125	124	1180459	847447	447724
6ET10373.D	E TECH 0	111	116	104	82	1166202	827843	407255
6ET10374.D	E TECH 0	112	117	115	101	1187225	845947	426258
6ET10375.D	E TECH 0	115	120	118	118	1196156	864236	451759
6LA10362.D	LANL 09-	101	106	106	114	1279243	926611	478405
6LA10367.D	LANL 09-	104	109	104	93	1229226	887271	473634
6LA10368.D	LANL 09-	108	112	109	107	1215689	896143	456581
6LA10369.D	LANL 09-	106	108	111	98	1218680	868667	473700
6LA10370.D	LANL 09-	99	108	94	78	1123767	799911	422983
6LA10376.D	LANL 09-	105	111	110	92	1210799	866703	484050
6QC10358.D	20 PPB V	102	106	105	113	1287482	962852	544174
6WS10363.D	WASTRON	96	94	96	71*	1237021	883414	449977
6WS10364.D	WASTRON	77*	82	53*	19*	1195932	818986	367331
6WS10365.D	WASTRON	80*	82	66*	42*	1229795	868674	437216
6WS10366.D	WASTRON	63*	65*	42*	13*	1188333	800517	357182

t - fails 12hr time check * - fails criteria

Created: Mon Oct 05 09:10:46 1998 HPMS_6

Volatile Organics

Raw QC Data

- GC/MS Instrument Performance Check (BFB)
- Blank chromatogram and quantitation report
- Laboratory Control Sample chromatogram and quantitation report
- Matrix Spike/Matrix Spike Duplicate chromatograms and quantitation reports (if not reported as samples)
- Instrument runlogs

Data File : C:\HPCHEM\1\DATA\092998\6BF10245.D

Vial: 1

Acq On : 29 Sep 1998 9:10

Operator: CMS

Sample : BFB 50 PPM STD S-39-22 10UL/50ML

Inst : HPMS_6

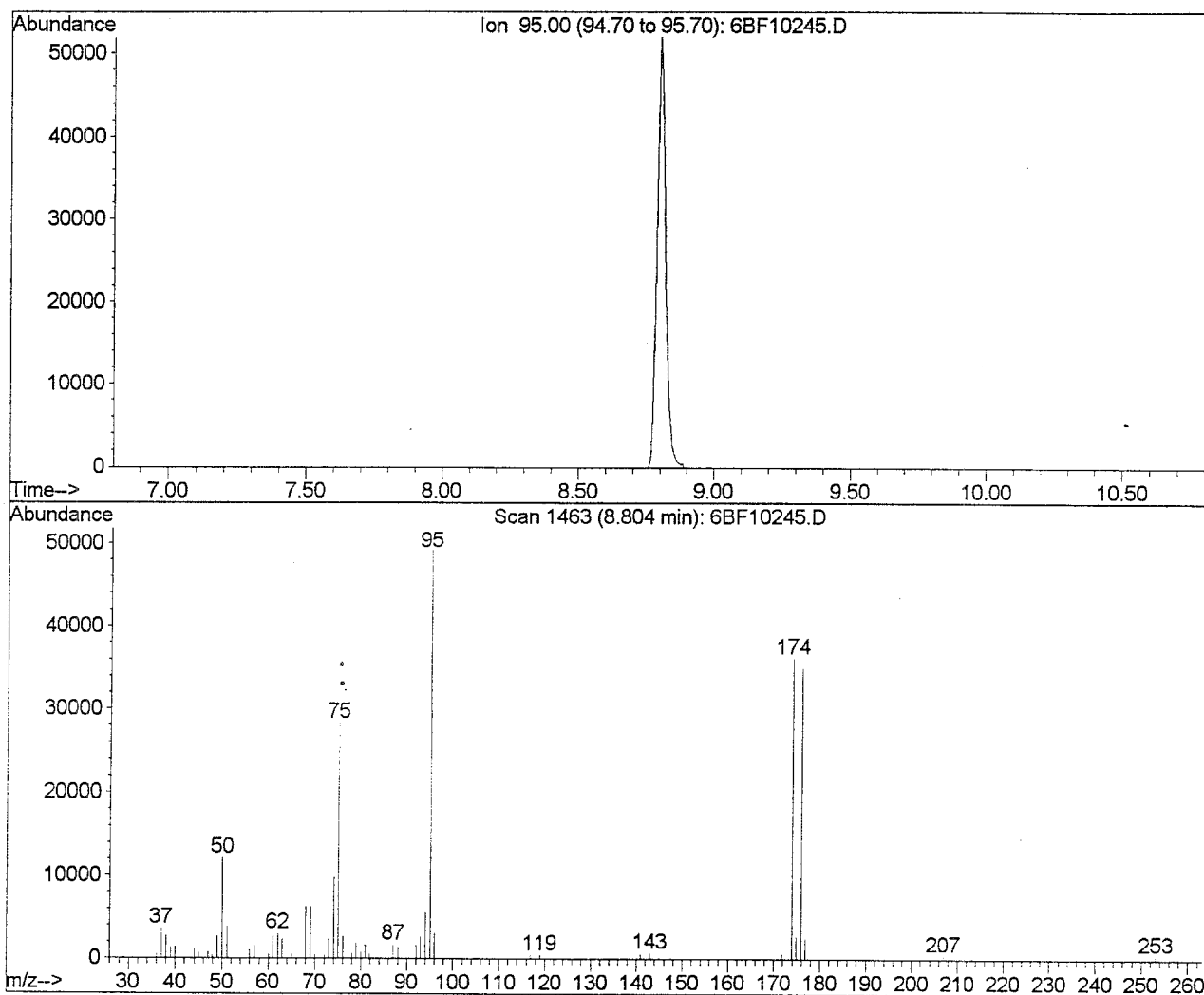
Misc : 5ML PURGE

Multiplr: 1.00

MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)

Title : Method 8260B_SOIL - ICAL 09/28/98



Spectrum Information: Scan 1463

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.6	12143	PASS
75	95	30	60	57.2	28232	PASS
95	95	100	100	100.0	49384	PASS
96	95	5	9	6.4	3159	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	73.2	36168	PASS
175	174	5	9	7.3	2652	PASS
176	174	95	101	96.8	35000	PASS
177	176	5	9	7.0	2459	PASS

BFB

Data File : C:\HPCHEM\1\DATA\093098\6BF10286.D

Vial: 24

Acq On : 30 Sep 1998 21:02

Operator: CMS

Sample : BFB 50 PPM STD S-39-22 10UL/50ML

Inst : HPMS_6

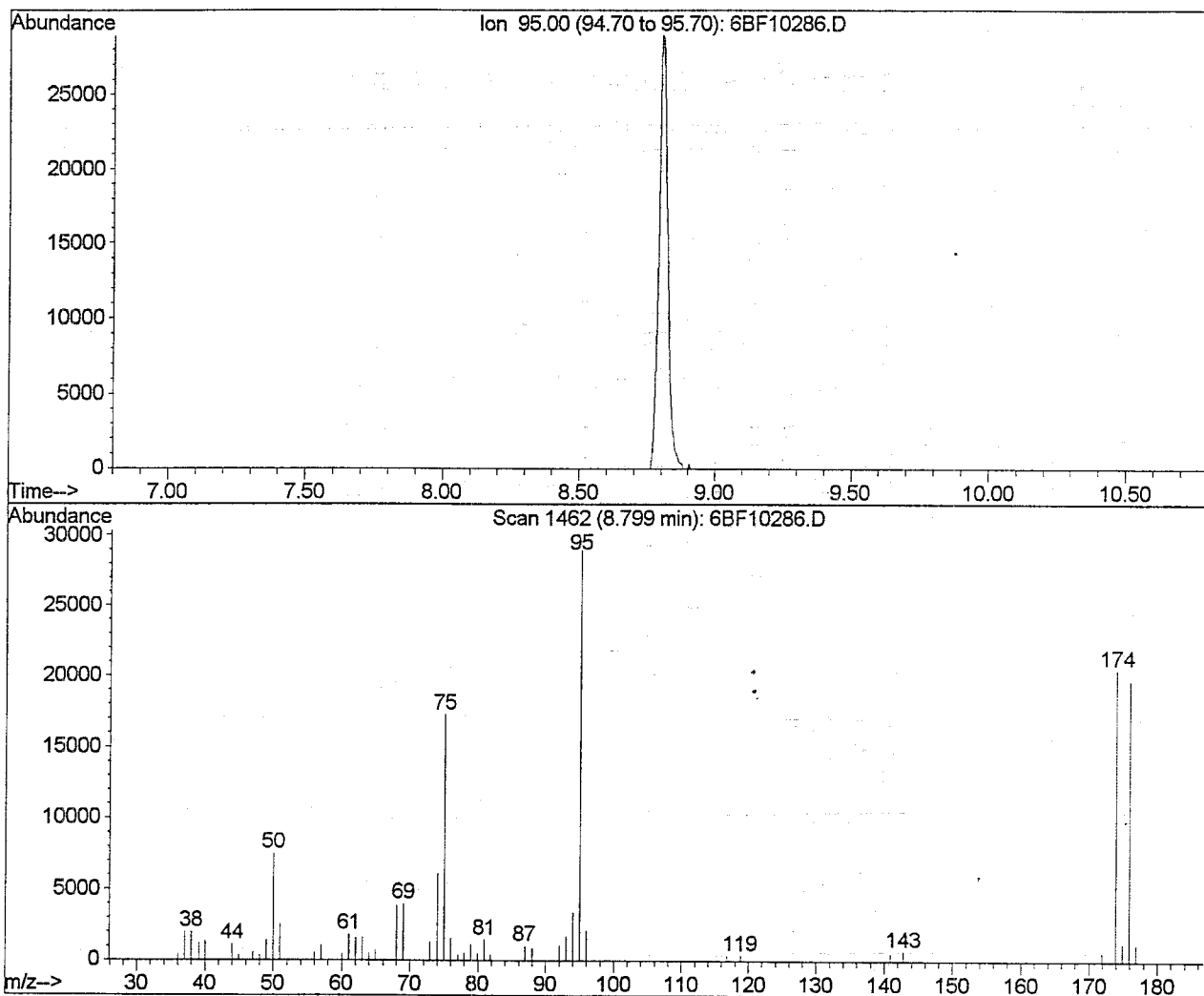
Misc : 5ML PURGE

Multiplr: 1.00

MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)

Title : Method 8260B_SOIL - ICAL 09/29/98



Spectrum Information: Scan 1462

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.9	7496	PASS
75	95	30	60	59.7	17256	PASS
95	95	100	100	100.0	28920	PASS
96	95	5	9	7.2	2095	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	70.7	20432	PASS
175	174	5	9	6.1	1247	PASS
176	174	95	101	96.1	19640	PASS
177	176	5	9	5.9	1161	PASS

6BF10286.D 8260BSL.M

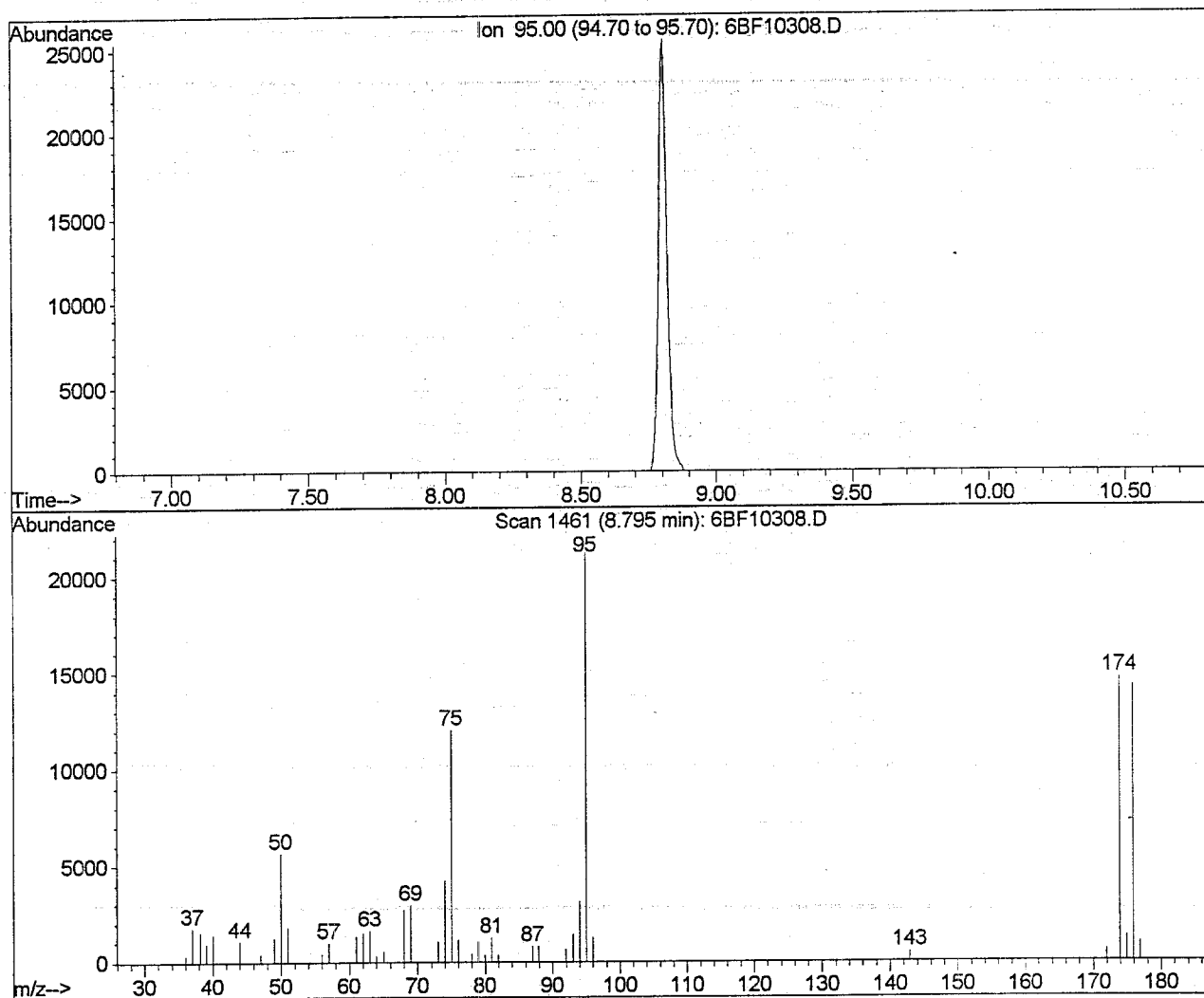
Wed Sep 30 21:24:02 1998 HPMS_6

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BFB

Data File : C:\HPCHEM\1\DATA\100198\6BF10308.D
 Acq On : 1 Oct 1998 9:15
 Sample : BFB 50 PPM STD S-39-22 10UL/50ML
 Misc : 5ML PURGE
 MS Integration Params: rteint.p
 Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
 Title : Method 8260B_SOIL - ICAL 09/29/98

Vial: 1
 Operator: CMS
 Inst : HPMS_6
 Multiplr: 1.00

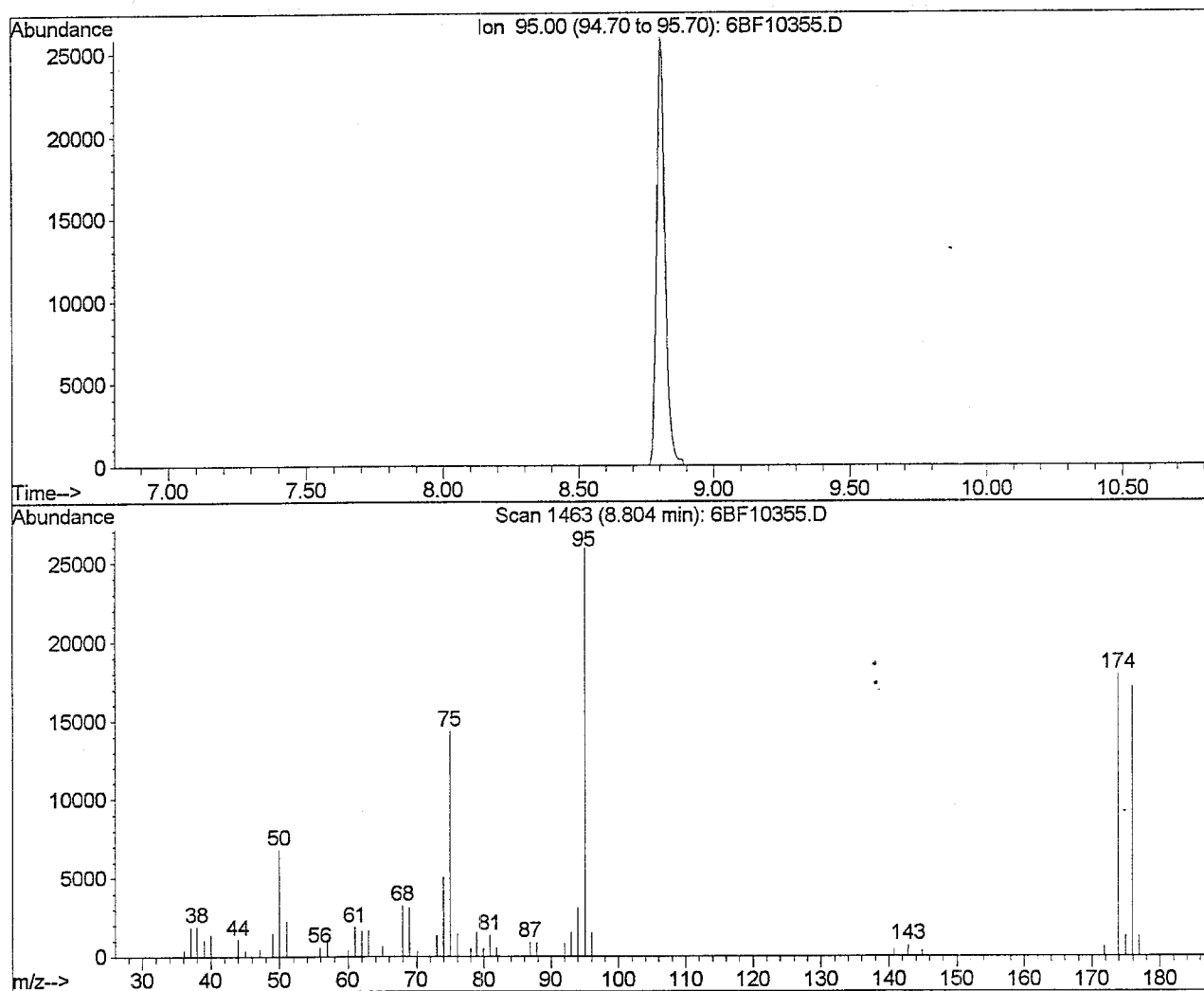


Spectrum Information: Scan 1461

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.7	5652	PASS
75	95	30	60	56.8	12030	PASS
95	95	100	100	100.0	21184	PASS
96	95	5	9	5.9	1246	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	69.2	14665	PASS
175	174	5	9	8.5	1250	PASS
176	174	95	101	97.4	14277	PASS
177	176	5	9	6.8	966	PASS

Data File : C:\HPCHEM\1\DATA\100398\6BF10355.D
 Acq On : 3 Oct 1998 8:49
 Sample : BFB 50 PPM STD S-39-22 10UL/50ML
 Misc : 5ML PURGE
 MS Integration Params: rteint.p
 Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
 Title : Method 8260B_SOIL - ICAL 09/29/98

Vial: 1
 Operator: CMS
 Inst : HPMS_6
 Multiplr: 1.00



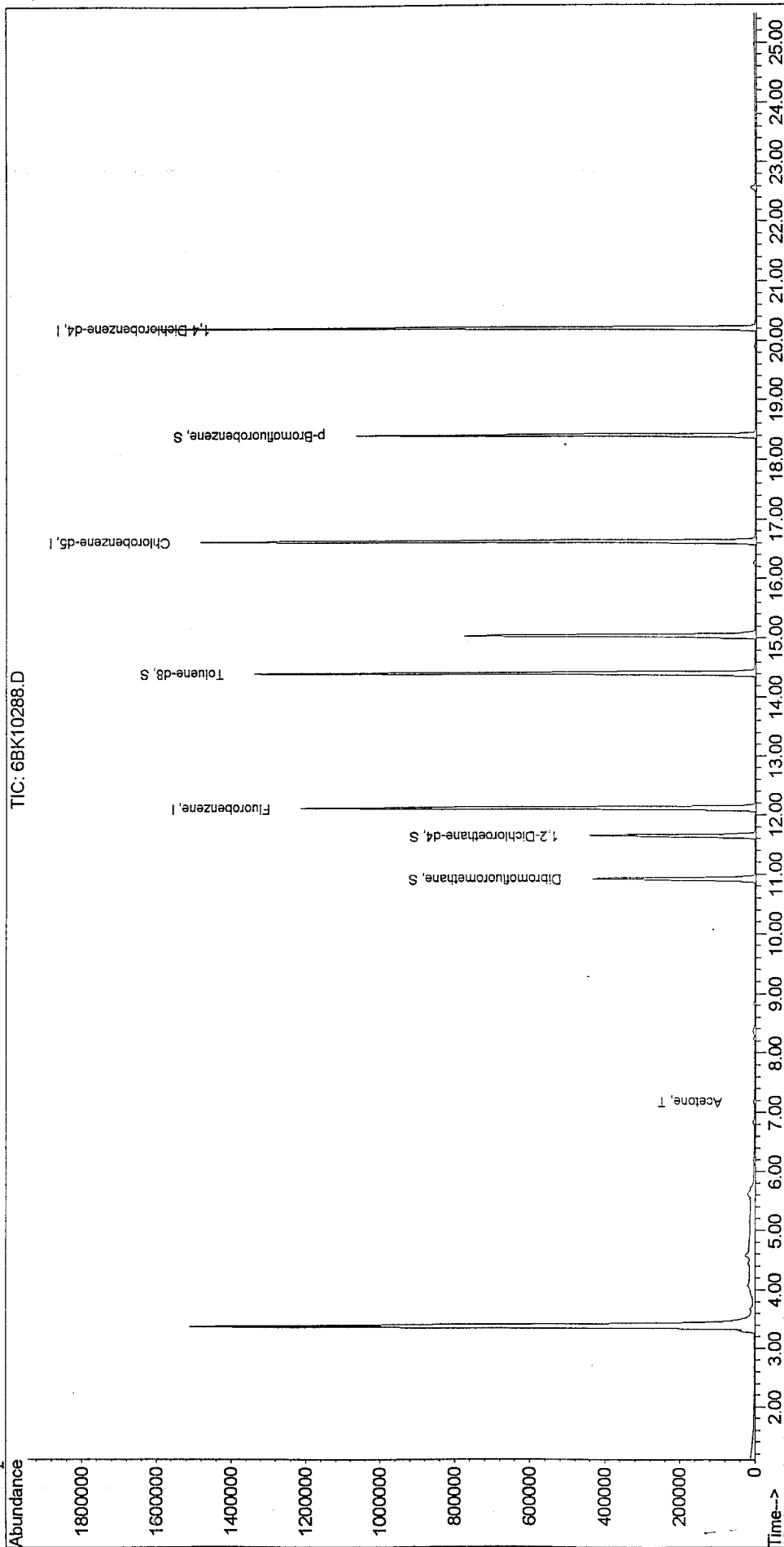
Spectrum Information: Scan 1463

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.1	6772	PASS
75	95	30	60	55.2	14305	PASS
95	95	100	100	100.0	25904	PASS
96	95	5	9	5.8	1515	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	69.1	17912	PASS
175	174	5	9	7.0	1251	PASS
176	174	95	101	95.6	17120	PASS
177	176	5	9	7.1	1215	PASS

Quantitation Report

Data File : C:\HPCHEM\1\DATA\093098\6BK10288.D
 Acq On : 30 Sep 1998 22:29 Vial: 24
 Sample : VBLK0930 VOA BLK 8260B SOIL Operator: CMS
 Misc : 5G/5ML Inst : HPMS_6
 MS Integration Params: rteint.p Multiplr: 1.00
 Quant Time: Sep 30 22:55 1998 Quant Results File: 8260BSL.RES

Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
 Title : Method 8260B SOIL - ICAL 09/29/98
 Last Update : Wed Sep 30 22:02:29 1998
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\093098\6BK10288.D
Acq On : 30 Sep 1998 22:29
Sample : VBLK0930 VOA BLK 8260B SOIL
Misc : 5G/5ML
MS Integration Params: rteint.p
Quant Time: Sep 30 22:55 1998

Vial: 24
Operator: CMS
Inst : HPMS_6
Multiplr: 1.00

Quant Results File: 8260BSL.R

Quant Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
Title : Method 8260B_SOIL - ICAL 09/29/98
Last Update : Wed Sep 30 22:02:29 1998
Response via : Initial Calibration
DataAcq Meth : 8260BSL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.11	96	1380109	50.00	ug/Kg	0.00
43) Chlorobenzene-d5	16.62	117	1015607	50.00	ug/Kg	0.00
63) 1,4-Dichlorobenzene-d4	20.20	152	516373	50.00	ug/Kg	0.00
System Monitoring Compounds						
27) Dibromofluoromethane	10.92	111	355893	51.19	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery	=	102.38%	
32) 1,2-Dichloroethane-d4	11.64	65	478463	52.08	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery	=	104.16%	
44) Toluene-d8	14.40	98	1159479	52.41	ug/Kg	0.00
Spiked Amount 50.000	Range 81 - 117		Recovery	=	104.82%	
65) p-Bromofluorobenzene	18.40	95	456694	57.02	ug/Kg	0.00
Spiked Amount 50.000	Range 74 - 121		Recovery	=	114.04%	
Target Compounds						
10) Acetone	7.18	43	8232	3.05	ug/Kg#	Qvalue 74

(#) = qualifier out of range (m) = manual integration

Quantitation Report

(Not Reviewed)

Data File : C:\HPCHEM\1\DATA\093098\6BK10288.D
Acq On : 30 Sep 1998 22:29
Sample : VBLK0930 VOA BLK 8260B SOIL
Misc : 5G/5ML
MS Integration Params: rteint.p
Quant Time: Oct 1 15:23 1998

Vial: 24
Operator: CMS
Inst : HPMS_6
Multiplr: 1.00

Quant Results File: FREON.RES

Quant Method : C:\HPCHEM\1\METHODS\FREON.M (RTE Integrator)
Title : F001_5 CALIBRATION - 09/29/98
Last Update : Wed Sep 30 10:25:14 1998
Response via : Initial Calibration
DataAcq Meth : 8260BSL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.11	96	1380109	50.00	ug/Kg	0.00
3) Chlorobenzene-d5	16.62	117	1015607	50.00	ug/Kg	0.00
4) 1,4-dichlorobenzene-d4	20.20	152	516373	50.00	ug/Kg	0.00

System Monitoring Compounds

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration
6BK10288.D FREON.M Thu Oct 01 15:23:24 1998

HPMS_6

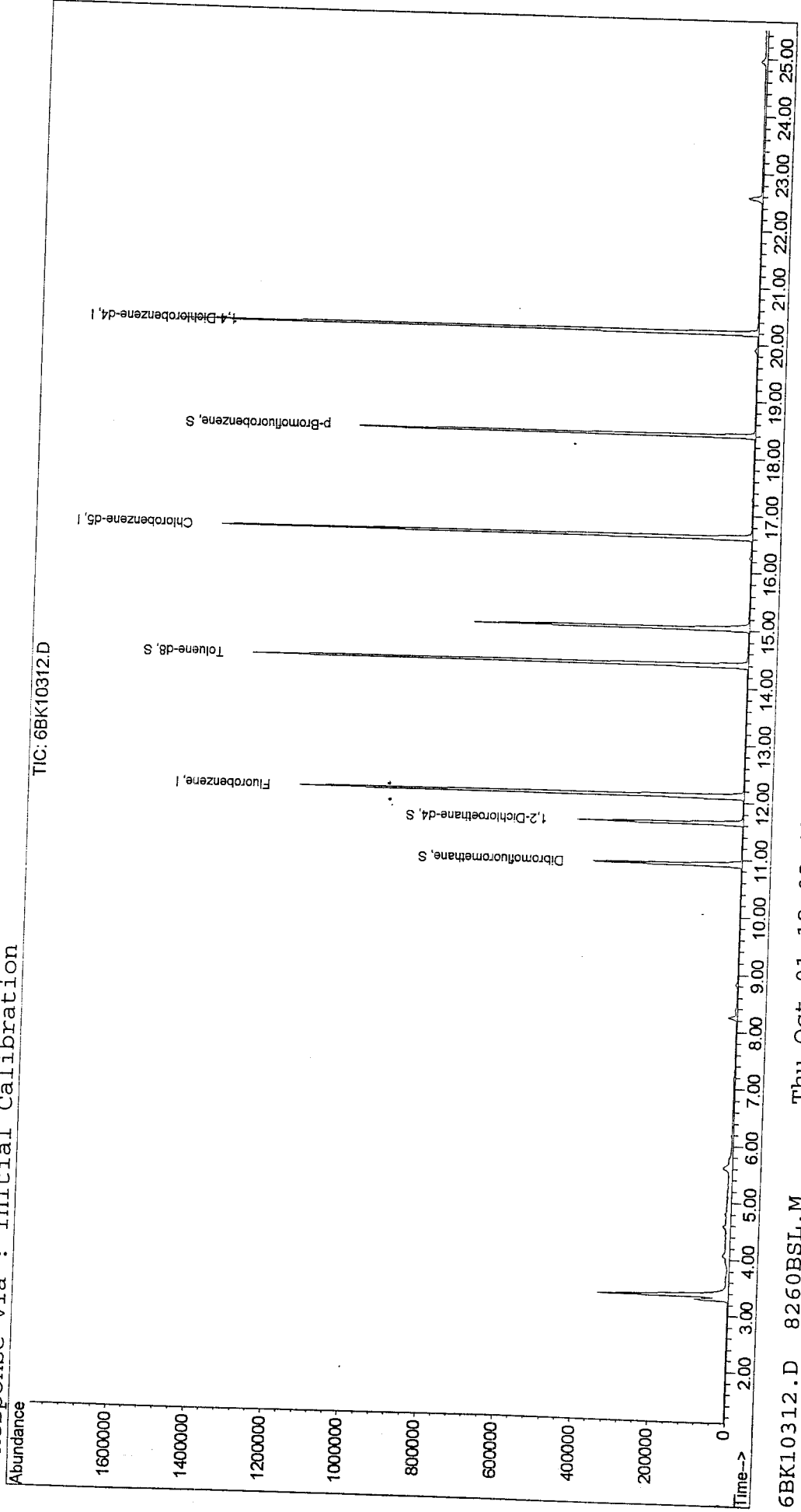
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Quantitation Report

Data File : C:\HPCHEM\1\DATA\100198\6BK10312.D
 Acq On : 1 Oct 1998 11:36 Vial: 5
 Sample : VBLK1001 VOA SOIL BLANK M8260 5G/5ML Operator: CMS
 Misc : 5ML PURGE Inst : HPMS 6
 MS Integration Params: rteint.p Multiplr: 1.00
 Quant Time: Oct 1 12:02 1998

Quant Results File: 8260BSL.RES

Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
 Title : Method 8260B_SOIL - ICAL 09/29/98
 Last Update : Wed Sep 30 22:02:29 1998
 Response via : Initial Calibration



6BK10312.D 8260BSL.M

Thu Oct 01 12:02:42 1998

HPMS_6

Quantitation Report

(Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100198\6BK10312.D

Acq On : 1 Oct 1998 11:36

Sample : VBLK1001 VOA SOIL BLANK M8260 5G/5ML

Misc : 5ML PURGE

MS Integration Params: rteint.p

Quant Time: Oct 1 12:02 1998

Vial: 5

Operator: CMS

Inst : HPMS_6

Multiplr: 1.00

Quant Results File: 8260BSL.R

Quant Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)

Title : Method 8260B_SOIL - ICAL 09/29/98

Last Update : Wed Sep 30 22:02:29 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Internal Standards

	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.12	96	1260649	50.00	ug/Kg	0.00
43) Chlorobenzene-d5	16.62	117	902515	50.00	ug/Kg	0.00
63) 1,4-Dichlorobenzene-d4	20.20	152	468463	50.00	ug/Kg	0.00

System Monitoring Compounds

27) Dibromofluoromethane	10.92	111	325414	51.24	ug/Kg	0.00
Spiked Amount	50.000					
Range	80 - 120		Recovery	=	102.48%	
32) 1,2-Dichloroethane-d4	11.65	65	446044	53.15	ug/Kg	0.00
Spiked Amount	50.000					
Range	80 - 120		Recovery	=	106.30%	
44) Toluene-d8	14.40	98	1071115	54.49	ug/Kg	0.00
Spiked Amount	50.000					
Range	81 - 117		Recovery	=	108.98%	
65) p-Bromofluorobenzene	18.40	95	426174	58.65	ug/Kg	0.00
Spiked Amount	50.000					
Range	74 - 121		Recovery	=	117.30%	

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration
6BK10312.D 8260BSL.M Thu Oct 01 12:02:37 1998

HPMS_6 Page 174

Quantitation Report

(Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100198\6BK10312.D

Acq On : 1 Oct 1998 11:36

Sample : VBLK1001 VOA SOIL BLANK M8260 5G/5ML

Misc : 5ML PURGE

MS Integration Params: rteint.p

Quant Time: Oct 2 12:28 1998

Vial: 5

Operator: CMS

Inst : HPMS_6

Multiplr: 1.00

Quant Results File: FREON.RES

Quant Method : C:\HPCHEM\1\METHODS\FREON.M (RTE Integrator)

Title : F001_5 CALIBRATION - 09/29/98

Last Update : Wed Sep 30 10:25:14 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Internal Standards

	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.12	96	1260649	50.00	ug/Kg	0.00
3) Chlorobenzene-d5	16.62	117	902515	50.00	ug/Kg	0.00
4) 1,4-dichlorobenzene-d4	20.20	152	468463	50.00	ug/Kg	0.00

System Monitoring Compounds

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration
6BK10312.D FREON.M Fri Oct 02 12:29:01 1998

HPMS_6

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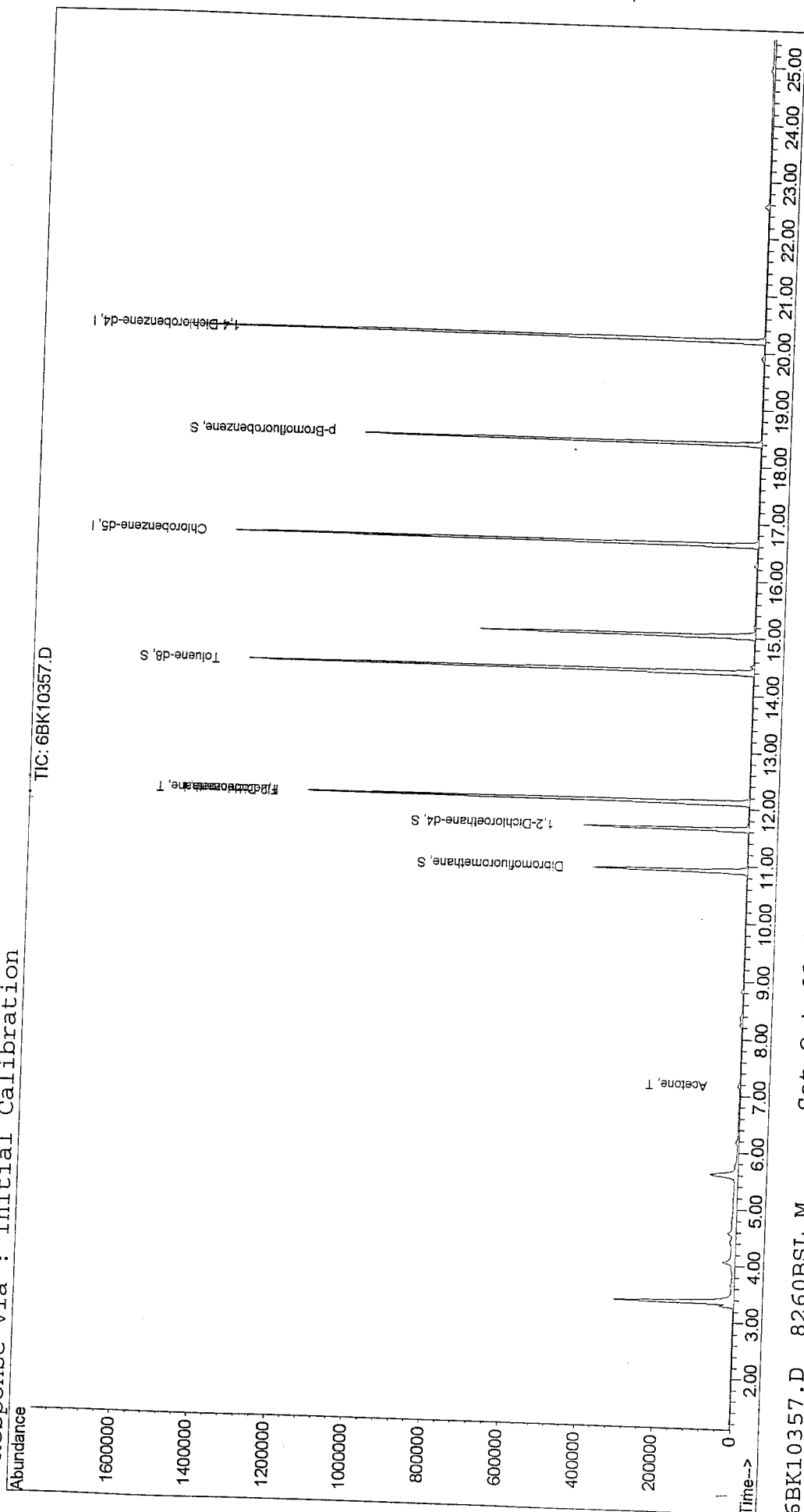
175

Quantitation Report

Data File : C:\HPCHEM\1\DATA\100398\6BK10357.D
 Acq On : 3 Oct 1998 10:06 Vial: 3
 Sample : VBLK1003 VOA SOIL BLANK M8260 5G/5ML Operator: CMS
 Misc : 5ML PURGE Inst : HPMS_6
 MS Integration Params: rteint.p Multiplr: 1.00
 Quant Time: Oct 3 10:32 1998

Quant Results File: 8260BSL.RES

Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
 Title : Method 8260B SOIL - ICAL 09/29/98
 Last Update : Wed Sep 30 22:02:29 1998
 Response via : Initial Calibration



Quantitation Report

(Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100398\6BK10357.D
Acq On : 3 Oct 1998 10:06
Sample : VBLK1003 VOA SOIL BLANK M8260 5G/5ML
Misc : 5ML PURGE
MS Integration Params: rteint.p
Quant Time: Oct 3 10:32 1998

Vial: 3
Operator: CMS
Inst : HPMS_6
Multiplr: 1.00

Quant Results File: 8260BSL.R

Quant Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
Title : Method 8260B_SOIL - ICAL 09/29/98
Last Update : Wed Sep 30 22:02:29 1998
Response via : Initial Calibration
DataAcq Meth : 8260BSL

Internal Standards

	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.11	96	1252651	50.00	ug/Kg	0.00
43) Chlorobenzene-d5	16.63	117	901518	50.00	ug/Kg	0.00
63) 1,4-Dichlorobenzene-d4	20.20	152	461669	50.00	ug/Kg	0.00

System Monitoring Compounds

27) Dibromofluoromethane	10.92	111	332053	52.62	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	105.24%		
32) 1,2-Dichloroethane-d4	11.65	65	452919	54.32	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	108.64%		
44) Toluene-d8	14.40	98	1075289	54.76	ug/Kg	0.00
Spiked Amount 50.000	Range 81 - 117		Recovery =	109.52%		
65) p-Bromofluorobenzene	18.40	95	422894	59.05	ug/Kg	0.00
Spiked Amount 50.000	Range 74 - 121		Recovery =	118.10%		

Target Compounds

10) Acetone	7.18	43	12321	5.05	ug/Kg	Qvalue 97
33) 1,2-Dichloroethane	12.11	62	23873	2.37	ug/Kg#	91

(#) = qualifier out of range (m) = manual integration
6BK10357.D 8260BSL.M Sat Oct 03 10:32:40 1998

HPMS_6 Page 1

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Quantitation Report

(Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100398\6BK10357.D

Acq On : 3 Oct 1998 10:06

Sample : VBLK1003 VOA SOIL BLANK M8260 5G/5ML

Misc : 5ML PURGE

MS Integration Params: rteint.p

Quant Time: Oct 5 9:13 1998

Vial: 3

Operator: CMS

Inst : HPMS_6

Multiplr: 1.00

Quant Results File: FREON.RES

Quant Method : C:\HPCHEM\1\METHODS\FREON.M (RTE Integrator)

Title : F001_5 CALIBRATION - 09/29/98

Last Update : Wed Sep 30 10:25:14 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Internal Standards

	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.11	96	1252651	50.00	ug/Kg	0.00
3) Chlorobenzene-d5	16.63	117	901518	50.00	ug/Kg	0.00
4) 1,4-dichlorobenzene-d4	20.20	152	461669	50.00	ug/Kg	0.00

System Monitoring Compounds

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration
6BK10357.D FREON.M Mon Oct 05 09:13:21 1998

HPMS_6

Page 1

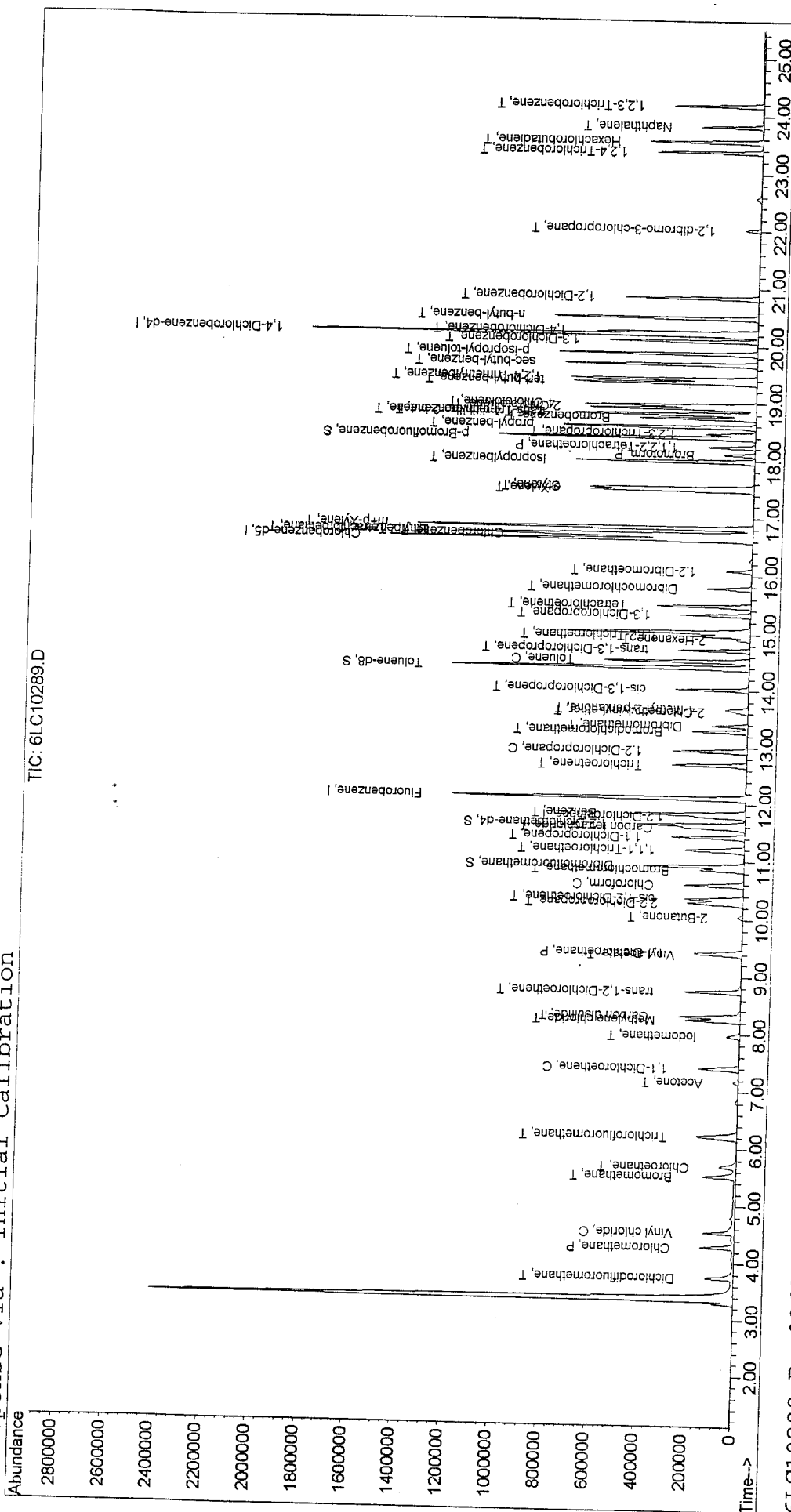
Quantitation Report

Data File : C:\HPCHEM\1\DATA\093098\6LC10289.D
 Acq On : 30 Sep 1998 23:01
 Sample : 20UG/KG LCS 8260B SOIL
 Misc : 5G/5ML
 MS Integration Params: rteint.p
 Quant Time: Sep 30 23:27 1998

Vial: 25
 Operator: CMS
 Inst : HPMS_6
 Multiplr: 1.00

Quant Results File: 8260BSL.RES

Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
 Title : Method 8260B_SOIL - ICAL 09/29/98
 Last Update : Wed Sep 30 22:02:29 1998
 Response via : Initial Calibration



6LC10289.D 8260BSL.M

Wed Sep 30 23:27:59 1998

HPMS_6

Quantitation Report

(Not Reviewed)

Data File : C:\HPCHEM\1\DATA\093098\6LC10289.D
 Acq On : 30 Sep 1998 23:01
 Sample : 20UG/KG LCS 8260B SOIL
 Misc : 5G/5ML
 MS Integration Params: rteint.p
 Quant Time: Sep 30 23:27 1998

Vial: 25
 Operator: CMS
 Inst : HPMS_6
 Multiplr: 1.00

Quant Results File: 8260BSL.R

Quant Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
 Title : Method 8260B SOIL - ICAL 09/29/98
 Last Update : Wed Sep 30 22:02:29 1998
 Response via : Initial Calibration
 DataAcq Meth : 8260BSL

Internal Standards

	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene	12.11	96	1388372	50.00	ug/Kg	0.00
43) Chlorobenzene-d5	16.62	117	1040689	50.00	ug/Kg	0.00
63) 1,4-Dichlorobenzene-d4	20.20	152	618994	50.00	ug/Kg	0.00

System Monitoring Compounds

27) Dibromofluoromethane	10.92	111	331926	47.46	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	94.92%		
32) 1,2-Dichloroethane-d4	11.64	65	446880	48.35	ug/Kg	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	96.70%		
44) Toluene-d8	14.40	98	1110358	48.98	ug/Kg	0.00
Spiked Amount 50.000	Range 81 - 117		Recovery =	97.96%		
65) p-Bromofluorobenzene	18.39	95	482580	50.26	ug/Kg	0.00
Spiked Amount 50.000	Range 74 - 121		Recovery =	100.52%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.75	85	219221	24.16	ug/Kg	99
3) Chloromethane	4.29	50	236861	22.01	ug/Kg	100
4) Vinyl chloride	4.54	62	162812	23.26	ug/Kg	99
5) Bromomethane	5.52	94	166085	26.12	ug/Kg	100
6) Chloroethane	5.69	64	116414	23.15	ug/Kg	99
7) Trichlorofluoromethane	6.22	101	330290	23.22	ug/Kg	99
10) Acetone	7.17	43	44966	17.13	ug/Kg	99
11) 1,1-Dichloroethene	7.40	96	100961	19.27	ug/Kg	100
13) Iodomethane	7.96	142	86070	16.31	ug/Kg	98
14) Methylene chloride	8.24	84	134849	20.66	ug/Kg	98
15) Carbon disulfide	8.31	76	513746	21.85	ug/Kg	100
18) trans-1,2-Dichloroethene	8.74	96	118230	20.41	ug/Kg	98
20) Vinyl acetate	9.39	43	141165	13.61	ug/Kg	99
21) 1,1-Dichloroethane	9.42	63	290246	21.59	ug/Kg	100
22) 2-Butanone	10.05	43	39166	14.33	ug/Kg	100
23) 2,2-Dichloropropane	10.29	77	249795	20.99	ug/Kg	99
24) cis-1,2-Dichloroethene	10.36	96	130909	20.42	ug/Kg	99
25) Chloroform	10.60	83	282568	21.04	ug/Kg	99
26) Bromochloromethane	10.85	128	57049	20.52	ug/Kg	97
28) 1,1,1-Trichloroethane	11.20	97	275485	20.87	ug/Kg	99
30) 1,1-Dichloropropene	11.42	75	184089	20.60	ug/Kg	98
31) Carbon tetrachloride	11.59	117	272076	21.64	ug/Kg	100
33) 1,2-Dichloroethane	11.78	62	234320	21.03	ug/Kg#	94
34) Benzene	11.83	78	580000	21.40	ug/Kg	99
35) Trichloroethene	12.69	130	126859	19.86	ug/Kg	98
36) 1,2-Dichloropropane	12.94	63	136163	20.55	ug/Kg	98

(#) = qualifier out of range (m) = manual integration
 6LC10289.D 8260BSL.M Wed Sep 30 23:27:43 1998

HPMS_6 Page 1

Data File : C:\HPCHEM\1\DATA\093098\6LC10289.D

Acq On : 30 Sep 1998 23:01

Sample : 20UG/KG LCS 8260B SOIL

Misc : 5G/5ML

MS Integration Params: rteint.p

Quant Time: Sep 30 23:27 1998

Vial: 25

Operator: CMS

Inst : HPMS_6

Multiplr: 1.00

Quant Results File: 8260BSL.R

Quant Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)

Title : Method 8260B_SOIL - ICAL 09/29/98

Last Update : Wed Sep 30 22:02:29 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37) Bromodichloromethane	13.29	83	204510	21.39	ug/Kg	100
38) Dibromomethane	13.38	93	76437	20.02	ug/Kg	98
39) 2-Chloroethylvinyl-ether	13.62	63	20360	21.52	ug/Kg	99
40) 4-Methyl-2-pentanone	13.66	58	32017	13.93	ug/Kg	98
41) cis-1,3-Dichloropropene	14.02	75	188728	17.35	ug/Kg	99
45) Toluene	14.51	91	609494	21.13	ug/Kg	99
47) trans-1,3-Dichloropropene	14.71	75	188611	19.52	ug/Kg	98
48) 1,1,2-Trichloroethane	14.97	97	103248	20.18	ug/Kg	99
49) 2-Hexanone	14.90	43	61173	13.42	ug/Kg	94
50) 1,3-Dichloropropane	15.33	76	184743	19.98	ug/Kg	96
51) Tetrachloroethene	15.47	164	119945	20.63	ug/Kg	98
52) Dibromochloromethane	15.78	129	129128	20.09	ug/Kg	99
53) 1,2-Dibromoethane	16.08	107	87199	18.92	ug/Kg	100
55) Chlorobenzene	16.68	112	404169	20.76	ug/Kg	95
56) 1,1,1,2-Tetrachloroethane	16.71	131	155130	20.77	ug/Kg	97
57) Ethylbenzene	16.71	106	229412	20.66	ug/Kg	96
58) m+p-Xylene	16.82	106	577863	42.03	ug/Kg	96
59) o-Xylene	17.49	106	243221	17.81	ug/Kg	95
60) Styrene	17.53	104	429131	21.14	ug/Kg	97
61) Bromoform	18.10	173	79410	18.49	ug/Kg	99
62) Isopropylbenzene	17.99	105	671400	20.49	ug/Kg	99
64) 1,1,2,2-Tetrachloroethane	18.24	83	128363	18.58	ug/Kg	99
66) 1,2,3-Trichloropropane	18.46	110	42529	18.49	ug/Kg	92
67) trans-1,4-dichloro-2-buten	18.81	53	23000	8.96	ug/Kg	94
68) propyl-benzene	18.59	91	887771	20.55	ug/Kg	99
69) Bromobenzene	18.74	156	160952	19.94	ug/Kg	99
70) 1,3,5-Trimethylbenzene	18.81	105	614657	21.25	ug/Kg	98
71) 2-Chlorotoluene	18.91	91	562615	21.00	ug/Kg	96
72) 4-Chlorotoluene	18.96	91	567110	20.86	ug/Kg	99
74) tert-butyl-benzene	19.36	119	511984	18.84	ug/Kg	99
75) 1,2,4-Trimethylbenzene	19.42	105	631427	20.47	ug/Kg	99
76) sec-butyl-benzene	19.68	105	781608	20.43	ug/Kg	99
77) p-isopropyl-toluene	19.87	119	636343	20.00	ug/Kg	99
78) 1,3-Dichlorobenzene	20.10	146	322803	19.84	ug/Kg	98
79) 1,4-Dichlorobenzene	20.25	146	343086	19.64	ug/Kg	97
80) n-butyl-benzene	20.49	91	653084	21.11	ug/Kg	98
81) 1,2-Dichlorobenzene	20.84	146	285397	20.06	ug/Kg	99
82) 1,2-dibromo-3-chloropropan	22.02	157	18468	15.48	ug/Kg	92
83) 1,2,4-Trichlorobenzene	23.37	180	157760	17.96	ug/Kg	99
84) Hexachlorobutadiene	23.56	225	124697	20.95	ug/Kg	99
85) Naphthalene	23.81	128	249301	13.80	ug/Kg	99

(#) = qualifier out of range (m) = manual integration
 6LC10289.D 8260BSL.M Wed Sep 30 23:27:48 1998

Quantitation Report

(Not Reviewed)

Data File : C:\HPCHEM\1\DATA\093098\6LC10289.D

Acq On : 30 Sep 1998 23:01

Sample : 20UG/KG LCS 8260B SOIL

Misc : 5G/5ML

MS Integration Params: rteint.p

Quant Time: Sep 30 23:27 1998

Vial: 25

Operator: CMS

Inst : HPMS_6

Multiplr: 1.00

Quant Results File: 8260BSL.R

Quant Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)

Title : Method 8260B_SOIL - ICAL 09/29/98

Last Update : Wed Sep 30 22:02:29 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

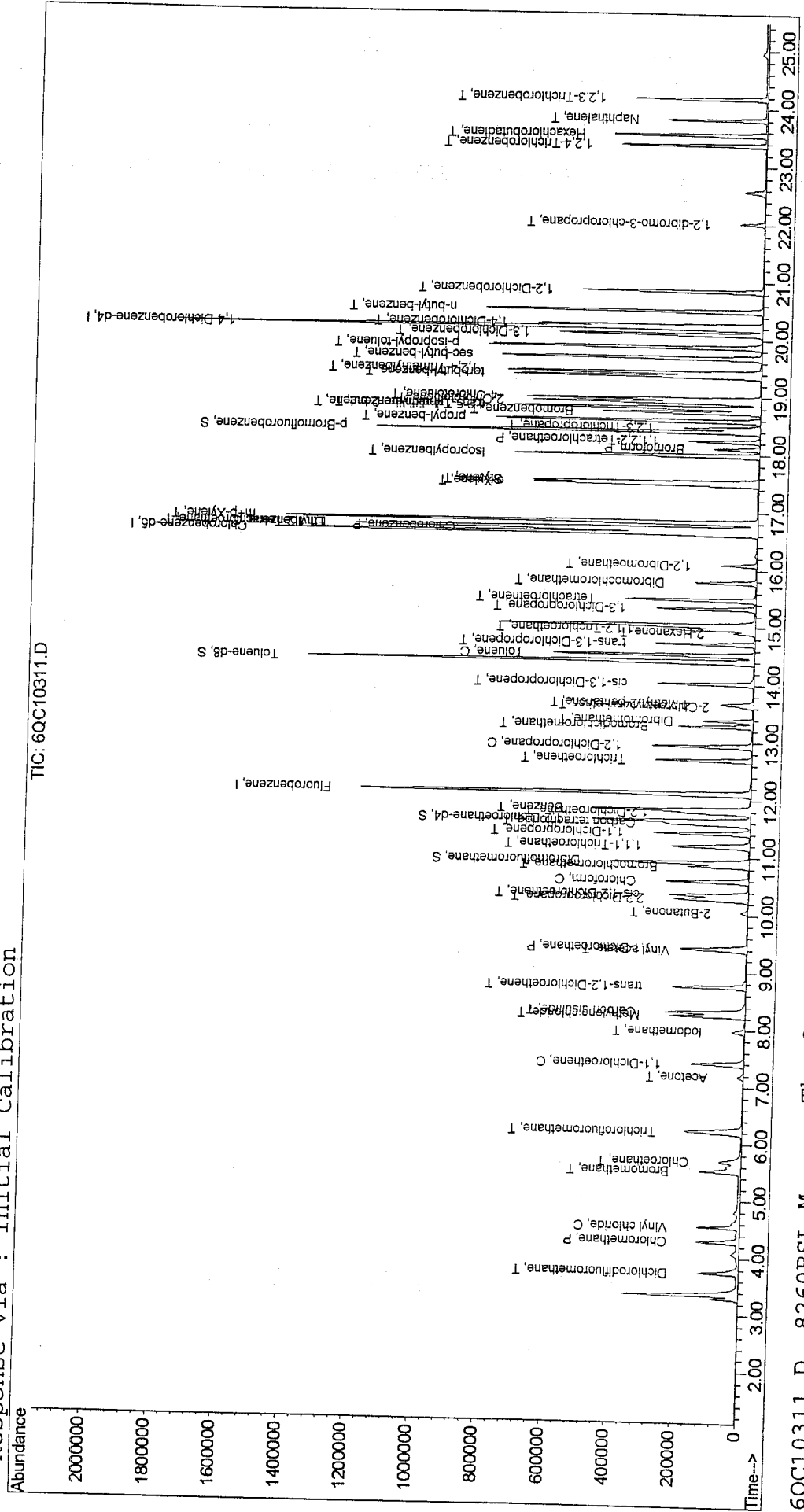
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
86) 1,2,3-Trichlorobenzene	24.18	180	138150	17.79	ug/Kg	99

(#) = qualifier out of range (m) = manual integration
6LC10289.D 8260BSL.M Wed Sep 30 23:27:48 1998

HPMS_6 Page 3

Quantitation Report

Data File : C:\HPCHEM\1\DATA\100198\6QC10311.D
 Acq On : 1 Oct 1998 11:02
 Sample : 20 PPB VOA QC SPIKE M8260 5G/5ML
 Misc : 5ML PURGE
 MS Integration Params: rteint.p
 Quant Time: Oct 1 11:28 1998
 Vial: 4
 Operator: CMS
 Inst : HPMS 6
 Multiplr: 1.00
 Quant Results File: 8260BSL.RES
 Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
 Title : Method 8260B SOIL - ICAL 09/29/98
 Last Update : Wed Sep 30 22:02:29 1998
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\100198\6QC10311.D
 Acq On : 1 Oct 1998 11:02
 Sample : 20 PPB VOA QC SPIKE M8260 5G/5ML
 Misc : 5ML PURGE
 MS Integration Params: rteint.p
 Quant Time: Oct 1 11:28 1998

Vial: 4
 Operator: CMS
 Inst : HPMS_6
 Multiplr: 1.00

Quant Results File: 8260BSL.R

Quant Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
 Title : Method 8260B SOIL - ICAL 09/29/98
 Last Update : Wed Sep 30 22:02:29 1998
 Response via : Initial Calibration
 DataAcq Meth : 8260BSL

Internal Standards

	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	12.11	96	1352814	50.00	ug/Kg	0.00
43) Chlorobenzene-d5	16.62	117	995508	50.00	ug/Kg	0.00
63) 1,4-Dichlorobenzene-d4	20.20	152	600302	50.00	ug/Kg	0.00

System Monitoring Compounds

27) Dibromofluoromethane	10.92	111	352747	51.76	ug/Kg	0.00
Spiked Amount	50.000					
Range	80 - 120		Recovery	=	103.52%	
32) 1,2-Dichloroethane-d4	11.65	65	486914	54.07	ug/Kg	0.00
Spiked Amount	50.000					
Range	80 - 120		Recovery	=	108.14%	
44) Toluene-d8	14.40	98	1198831	55.29	ug/Kg	0.00
Spiked Amount	50.000					
Range	81 - 117		Recovery	=	110.58%	
65) p-Bromofluorobenzene	18.40	95	521258	55.98	ug/Kg	0.00
Spiked Amount	50.000					
Range	74 - 121		Recovery	=	111.96%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.75	85	226944	25.67	ug/Kg	99
3) Chloromethane	4.29	50	218103	20.80	ug/Kg	99
4) Vinyl chloride	4.55	62	163772	24.01	ug/Kg	99
5) Bromomethane	5.53	94	154592	24.95	ug/Kg	99
6) Chloroethane	5.70	64	111185	22.69	ug/Kg	99
7) Trichlorofluoromethane	6.22	101	337115	24.32	ug/Kg	99
10) Acetone	7.18	43	37611	14.62	ug/Kg	99
11) 1,1-Dichloroethene	7.40	96	92913	18.20	ug/Kg	98
13) Iodomethane	7.97	142	57257	11.14	ug/Kg	96
14) Methylene chloride	8.25	84	136470	21.45	ug/Kg	97
15) Carbon disulfide	8.31	76	490324	21.41	ug/Kg	100
18) trans-1,2-Dichloroethene	8.75	96	112239	19.88	ug/Kg	98
20) Vinyl acetate	9.39	43	124967	12.37	ug/Kg	99
21) 1,1-Dichloroethane	9.42	63	291245	22.24	ug/Kg	100
22) 2-Butanone	10.06	43	39887	14.98	ug/Kg	97
23) 2,2-Dichloropropane	10.29	77	239020	20.61	ug/Kg	99
24) cis-1,2-Dichloroethene	10.37	96	127954	20.49	ug/Kg	98
25) Chloroform	10.60	83	283873	21.70	ug/Kg	99
26) Bromochloromethane	10.86	128	56573	20.88	ug/Kg	98
28) 1,1,1-Trichloroethane	11.20	97	269014	20.92	ug/Kg	97
30) 1,1-Dichloropropene	11.43	75	173934	19.98	ug/Kg	99
31) Carbon tetrachloride	11.59	117	272551	22.25	ug/Kg	100
33) 1,2-Dichloroethane	11.78	62	236325	21.76	ug/Kg#	94
34) Benzene	11.83	78	571388	21.64	ug/Kg	99
35) Trichloroethene	12.69	130	120668	19.38	ug/Kg	97
36) 1,2-Dichloropropane	12.94	63	134739	20.87	ug/Kg	98

(#) = qualifier out of range (m) = manual integration
 6QC10311.D 8260BSL.M Thu Oct 01 11:29:06 1998

Data File : C:\HPCHEM\1\DATA\100198\6QC10311.D

Acq On : 1 Oct 1998 11:02

Sample : 20 PPB VOA QC SPIKE M8260 5G/5ML

Misc : 5ML PURGE

MS Integration Params: rteint.p

Quant Time: Oct 1 11:28 1998

Vial: 4

Operator: CMS

Inst : HPMS_6

Multiplr: 1.00

Quant Results File: 8260BSL.R

Quant Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)

Title : Method 8260B_SOIL - ICAL 09/29/98

Last Update : Wed Sep 30 22:02:29 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37) Bromodichloromethane	13.28	83	202982	21.79	ug/Kg	100
38) Dibromomethane	13.38	93	77350	20.79	ug/Kg	99
39) 2-Chloroethylvinyl-ether	13.63	63	15054	15.92	ug/Kg	97
40) 4-Methyl-2-pentanone	13.67	58	32936	14.70	ug/Kg	98
41) cis-1,3-Dichloropropene	14.02	75	182969	17.26	ug/Kg	100
45) Toluene	14.52	91	610433	22.13	ug/Kg	99
47) trans-1,3-Dichloropropene	14.72	75	189223	20.47	ug/Kg	100
48) 1,1,2-Trichloroethane	14.96	97	110202	22.52	ug/Kg	99
49) 2-Hexanone	14.91	43	66749	15.31	ug/Kg	95
50) 1,3-Dichloropropane	15.33	76	189813	21.46	ug/Kg	96
51) Tetrachloroethene	15.48	164	120524	21.67	ug/Kg	98
52) Dibromochloromethane	15.78	129	132212	21.50	ug/Kg	99
53) 1,2-Dibromoethane	16.08	107	89423	20.28	ug/Kg	99
55) Chlorobenzene	16.68	112	405481	21.77	ug/Kg	95
56) 1,1,1,2-Tetrachloroethane	16.71	131	154338	21.60	ug/Kg	98
57) Ethylbenzene	16.71	106	229837	21.64	ug/Kg	97
58) m+p-Xylene	16.82	106	580676	44.15	ug/Kg	97
59) o-Xylene	17.48	106	243710	18.66	ug/Kg	97
60) Styrene	17.53	104	432287	22.27	ug/Kg	97
61) Bromoform	18.11	173	85435	20.79	ug/Kg	99
62) Isopropylbenzene	17.99	105	662399	21.14	ug/Kg	100
64) 1,1,2,2-Tetrachloroethane	18.24	83	142187	21.23	ug/Kg	100
66) 1,2,3-Trichloropropane	18.47	110	47323	21.21	ug/Kg	92
67) trans-1,4-dichloro-2-buten	18.81	53	22778	9.15	ug/Kg	92
68) propyl-benzene	18.59	91	891730	21.28	ug/Kg	99
69) Bromobenzene	18.74	156	158909	20.30	ug/Kg	99
70) 1,3,5-Trimethylbenzene	18.81	105	603427	21.51	ug/Kg	99
71) 2-Chlorotoluene	18.91	91	567288	21.84	ug/Kg	96
72) 4-Chlorotoluene	18.97	91	561900	21.31	ug/Kg	99
74) tert-butyl-benzene	19.36	119	503088	19.09	ug/Kg	99
75) 1,2,4-Trimethylbenzene	19.43	105	626993	20.96	ug/Kg	98
76) sec-butyl-benzene	19.68	105	773406	20.85	ug/Kg	99
77) p-isopropyl-toluene	19.87	119	629204	20.39	ug/Kg	99
78) 1,3-Dichlorobenzene	20.09	146	322424	20.44	ug/Kg	98
79) 1,4-Dichlorobenzene	20.25	146	344046	20.31	ug/Kg	96
80) n-butyl-benzene	20.50	91	656575	21.88	ug/Kg	98
81) 1,2-Dichlorobenzene	20.84	146	286138	20.74	ug/Kg	99
82) 1,2-dibromo-3-chloropropan	22.02	157	21168	18.30	ug/Kg	92
83) 1,2,4-Trichlorobenzene	23.37	180	165696	19.45	ug/Kg	99
84) Hexachlorobutadiene	23.56	225	126080	21.84	ug/Kg	99
85) Naphthalene	23.82	128	284642	16.24	ug/Kg	99

(#) = qualifier out of range (m) = manual integration
 6QC10311.D 8260BSL.M Thu Oct 01 11:29:10 1998

HPMS_6 Page 2

Quantitation Report

(Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100198\6QC10311.D
Acq On : 1 Oct 1998 11:02
Sample : 20 PPB VOA QC SPIKE M8260 5G/5ML
Misc : 5ML PURGE
MS Integration Params: rteint.p
Quant Time: Oct 1 11:28 1998

Vial: 4
Operator: CMS
Inst : HPMS_6
Multiplr: 1.00

Quant Results File: 8260BSL.R

Quant Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
Title : Method 8260B_SOIL - ICAL 09/29/98
Last Update : Wed Sep 30 22:02:29 1998
Response via : Initial Calibration
DataAcq Meth : 8260BSL

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
86) 1,2,3-Trichlorobenzene	24.19	180	150087	19.93	ug/Kg	99

(#) = qualifier out of range (m) = manual integration
6QC10311.D 8260BSL.M Thu Oct 01 11:29:11 1998

HPMS_6 Page 3

Quantitation Report

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Data File : C:\HPCHEM\1\DATA\100398\6QC10358.D
Acq On : 3 Oct 1998 10:40
Sample : 20 PPB VOA QC SPIKE M8260 5G/5ML
Misc : 5ML PURGE
MS Integration Params: rteint.p
Quant Time: Oct 3 11:05 1998

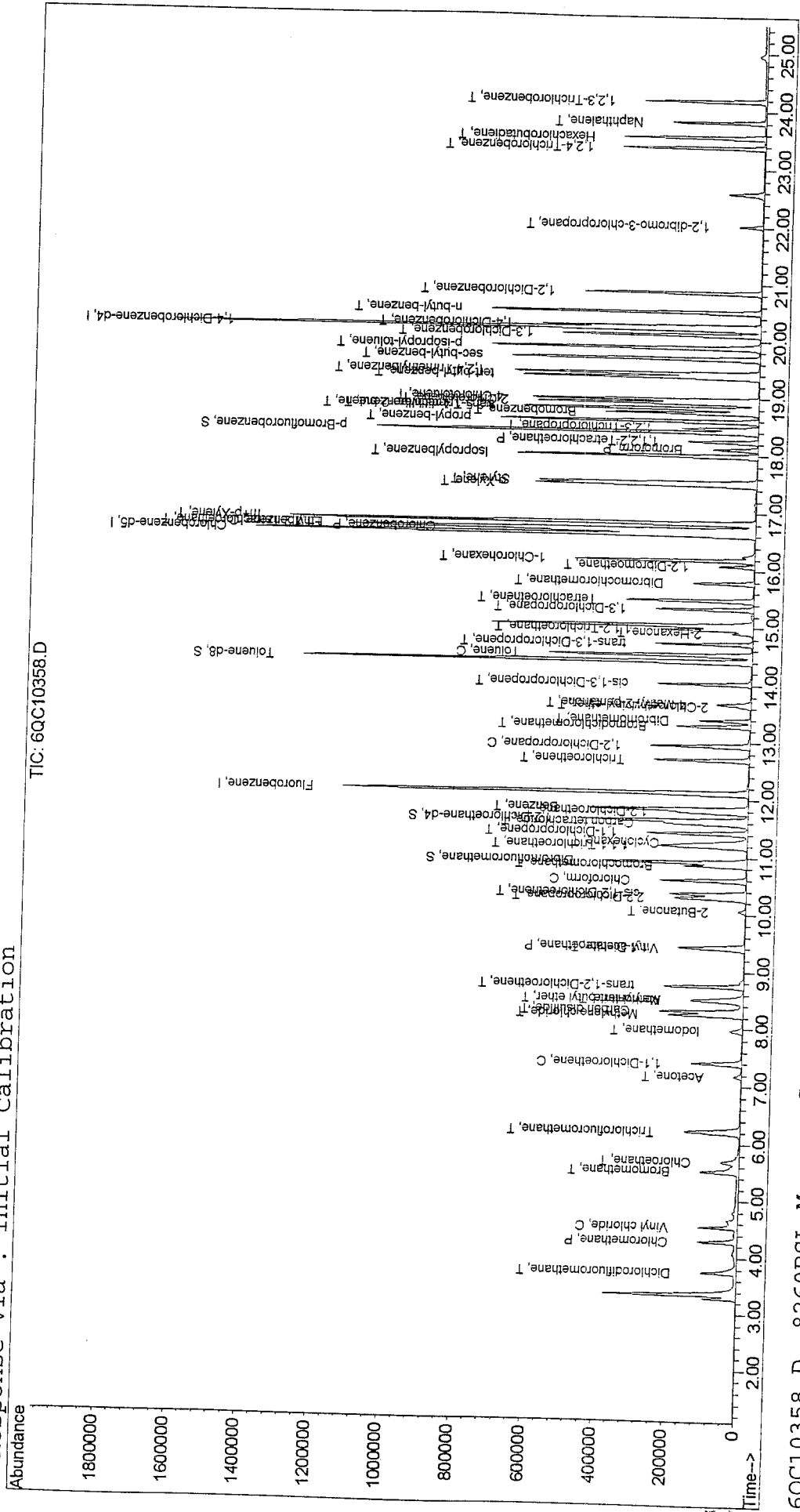
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Method      : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)
Title       : Method 8260B SOIL - ICAL 09/29/98
Last Update : Wed Sep 30 22:02:29 1998
Response via : Initial Calibration

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Quant Results File: 8260BSL.RES



6QC10358.D 8260BSL.M

Sat Oct 03 11:06:21 1998

HPMS_6

Data File : C:\HPCHEM\1\DATA\100398\6QC10358.D

Vial: 4

Acq On : 3 Oct 1998 10:40

Operator: CMS

Sample : 20 PPB VOA QC SPIKE M8260 5G/5ML

Inst : HPMS_6

Misc : 5ML PURGE

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Oct 3 11:05 1998

Quant Results File: 8260BSL.R

Quant Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)

Title : Method 8260B SOIL - ICAL 09/29/98

Last Update : Wed Sep 30 22:02:29 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene	12.11	96	1287482	50.00	ug/Kg	0.00
43) Chlorobenzene-d5	16.62	117	962852	50.00	ug/Kg	0.00
63) 1,4-Dichlorobenzene-d4	20.20	152	544174	50.00	ug/Kg	0.00

System Monitoring Compounds

27) Dibromofluoromethane	10.92	111	329549	50.81	ug/Kg	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.62%
32) 1,2-Dichloroethane-d4	11.65	65	456216	53.23	ug/Kg	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	106.46%
44) Toluene-d8	14.40	98	1103658	52.62	ug/Kg	0.00
Spiked Amount	50.000	Range	81 - 117	Recovery	=	105.24%
65) p-Bromofluorobenzene	18.40	95	476985	56.51	ug/Kg	0.00
Spiked Amount	50.000	Range	74 - 121	Recovery	=	113.02%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.75	85	199787	23.74	ug/Kg	99
3) Chloromethane	4.29	50	182356	18.27	ug/Kg	99
4) Vinyl chloride	4.54	62	137968	21.26	ug/Kg	99
5) Bromomethane	5.52	94	134549	22.82	ug/Kg	99
6) Chloroethane	5.69	64	91926	19.71	ug/Kg	99
7) Trichlorofluoromethane	6.21	101	307339	23.30	ug/Kg	99
10) Acetone	7.17	43	46441	19.18	ug/Kg	99
11) 1,1-Dichloroethene	7.40	96	84105	17.31	ug/Kg	99
13) Iodomethane	7.97	142	49371	10.09	ug/Kg	95
14) Methylene chloride	8.24	84	128671	21.25	ug/Kg	99
15) Carbon disulfide	8.31	76	460880	21.14	ug/Kg	100
16) Acrylonitrile	8.50	53	5666	2.93	ug/Kg#	14
17) Methyl-tert-butyl ether	8.50	73	219752	17.43	ug/Kg	100
18) trans-1,2-Dichloroethene	8.75	96	111701	20.79	ug/Kg	97
20) Vinyl acetate	9.40	43	107399	11.17	ug/Kg	99
21) 1,1-Dichloroethane	9.42	63	262351	21.05	ug/Kg	100
22) 2-Butanone	10.06	43	41287	16.29	ug/Kg	98
23) 2,2-Dichloropropane	10.30	77	216113	19.58	ug/Kg	99
24) cis-1,2-Dichloroethene	10.36	96	113497	19.10	ug/Kg	96
25) Chloroform	10.60	83	272430	21.88	ug/Kg	100
26) Bromochloromethane	10.85	128	52035	20.18	ug/Kg	100
28) 1,1,1-Trichloroethane	11.20	97	246405	20.13	ug/Kg	97
29) Cyclohexane	11.26	56	79436	6.68	ug/Kg#	28
30) 1,1-Dichloropropene	11.43	75	173811	20.98	ug/Kg	98
31) Carbon tetrachloride	11.59	117	245159	21.03	ug/Kg	100
33) 1,2-Dichloroethane	11.78	62	219434	21.23	ug/Kg#	94

(#)=qualifier out of range (m)=manual integration

6QC10358.D 8260BSL.M

Sat Oct 03 11:06:06 1998

HPMS_6 Page 1

Data File : C:\HPCHEM\1\DATA\100398\6QC10358.D

Vial: 4

Acq On : 3 Oct 1998 10:40

Operator: CMS

Sample : 20 PPB VOA QC SPIKE M8260 5G/5ML

Inst : HPMS_6

Misc : 5ML PURGE

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Oct 3 11:05 1998

Quant Results File: 8260BSL.R

Quant Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)

Title : Method 8260B SOIL - ICAL 09/29/98

Last Update : Wed Sep 30 22:02:29 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
34) Benzene	11.84	78	530206	21.10	ug/Kg	100
35) Trichloroethene	12.70	130	109265	18.44	ug/Kg	98
36) 1,2-Dichloropropane	12.94	63	122705	19.97	ug/Kg	98
37) Bromodichloromethane	13.29	83	182538	20.59	ug/Kg	99
38) Dibromomethane	13.39	93	72659	20.52	ug/Kg	98
39) 2-Chloroethylvinyl-ether	13.62	63	13388	14.80	ug/Kg	94
40) 4-Methyl-2-pentanone	13.67	58	31502	14.78	ug/Kg	99
41) cis-1,3-Dichloropropene	14.02	75	163103	16.17	ug/Kg	99
45) Toluene	14.52	91	556042	20.84	ug/Kg	99
47) trans-1,3-Dichloropropene	14.71	75	169882	19.00	ug/Kg	99
48) 1,1,2-Trichloroethane	14.97	97	101346	21.41	ug/Kg	99
49) 2-Hexanone	14.91	43	63417	15.04	ug/Kg	95
50) 1,3-Dichloropropane	15.33	76	176803	20.67	ug/Kg	97
51) Tetrachloroethene	15.48	164	107854	20.05	ug/Kg	98
52) Dibromochloromethane	15.78	129	119192	20.04	ug/Kg	99
53) 1,2-Dibromoethane	16.09	107	82797	19.42	ug/Kg	99
54) 1-Chlorohexane	16.19	91	166173	16.83	ug/Kg	91
55) Chlorobenzene	16.68	112	389342	21.61	ug/Kg	96
56) 1,1,1,2-Tetrachloroethane	16.72	131	143806	20.81	ug/Kg	98
57) Ethylbenzene	16.71	106	209918	20.43	ug/Kg	96
58) m+p-Xylene	16.82	106	524098	41.20	ug/Kg	95
59) o-Xylene	17.49	106	217168	17.19	ug/Kg	96
60) Styrene	17.53	104	387915	20.66	ug/Kg	98
61) Bromoform	18.11	173	77129	19.41	ug/Kg	99
62) Isopropylbenzene	17.99	105	581936	19.20	ug/Kg	100
64) 1,1,2,2-Tetrachloroethane	18.24	83	130487	21.49	ug/Kg	98
66) 1,2,3-Trichloropropane	18.47	110	43892	21.70	ug/Kg	92
67) trans-1,4-dichloro-2-buten	18.81	53	20953	9.28	ug/Kg	91
68) propyl-benzene	18.59	91	789781	20.80	ug/Kg	99
69) Bromobenzene	18.74	156	143564	20.23	ug/Kg	99
70) 1,3,5-Trimethylbenzene	18.81	105	535478	21.06	ug/Kg	98
71) 2-Chlorotoluene	18.91	91	511722	21.73	ug/Kg	97
72) 4-Chlorotoluene	18.97	91	493160	20.64	ug/Kg	98
74) tert-butyl-benzene	19.37	119	438358	18.35	ug/Kg	99
75) 1,2,4-Trimethylbenzene	19.43	105	558957	20.62	ug/Kg	97
76) sec-butyl-benzene	19.68	105	675108	20.07	ug/Kg	99
77) p-isopropyl-toluene	19.87	119	554487	19.82	ug/Kg	99
78) 1,3-Dichlorobenzene	20.10	146	290173	20.29	ug/Kg	99
79) 1,4-Dichlorobenzene	20.25	146	305689	19.91	ug/Kg	96
80) n-butyl-benzene	20.49	91	578759	21.28	ug/Kg	97
81) 1,2-Dichlorobenzene	20.84	146	252689	20.20	ug/Kg	99

(#)=qualifier out of range (m)=manual integration

6QC10358.D 8260BSL.M

Sat Oct 03 11:06:10 1998

HPMS_6 Page 2

Data File : C:\HPCHEM\1\DATA\100398\6QC10358.D

Vial: 4

Acq On : 3 Oct 1998 10:40

Operator: CMS

Sample : 20 PPB VOA QC SPIKE M8260 5G/5ML

Inst : HPMS_6

Misc : 5ML PURGE

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Oct 3 11:05 1998

Quant Results File: 8260BSL.R

Quant Method : C:\HPCHEM\1\METHODS\8260BSL.M (RTE Integrator)

Title : Method 8260B_SOIL - ICAL 09/29/98

Last Update : Wed Sep 30 22:02:29 1998

Response via : Initial Calibration

DataAcq Meth : 8260BSL

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
82) 1,2-dibromo-3-chloropropan	22.02	157	19184	18.29	ug/Kg	92
83) 1,2,4-Trichlorobenzene	23.38	180	144086	18.66	ug/Kg	99
84) Hexachlorobutadiene	23.56	225	103399	19.76	ug/Kg	98
85) Naphthalene	23.82	128	247707	15.59	ug/Kg	100
86) 1,2,3-Trichlorobenzene	24.18	180	129030	18.90	ug/Kg	100

(#) = qualifier out of range (m) = manual integration

6QC10358.D 8260BSL.M

Sat Oct 03 11:06:11 1998

HPMS_6 Page 3

Semivolatiles

Semivolatiles

Sample Data

Target Compound List Results - See section 1.0 (c) (laboratory report)

Tentatively Identified Compounds (TICs) - See section 1.0 (c) (if requested)

- Reconstructed total ion chromatogram (RIC) and quantitation report for each sample
- Raw spectra and background subtracted mass spectra of target compounds identified
- Mass spectra of all reported TICs with three best library matches (if requested)
- GPC chromatographs (if GPC performed)

Data File : C:\HPCHEM\1\DATA\101698\5988.D
 Acq On : 16 Oct 1998 17:28
 Sample : 09-522-01 SOIL
 Misc : SOIL
 MS Integration Params: rteint.p
 Quant Time: Oct 20 14:10 1998

Vial: 11
 Operator: MLS
 Inst : HPMS 7
 Multiplr: 33.00

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
 Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
 Last Update : Sun Oct 18 11:51:56 1998
 Response via : Initial Calibration
 DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.34	152	534255	40.00	ug/L	0.00
19) Naphthalene-d8	8.28	136	1990181	40.00	ug/L	0.00
34) Acenaphthene-d10	11.51	164	1100639	40.00	ug/L	-0.01
56) Phenanthrene-d10	14.43	188	1856896	40.00	ug/L	-0.01
67) Chrysene-d12	19.83	240	1883595	40.00	ug/L	-0.02
76) Perylene-d12	23.00	264	1954367	40.00	ug/L	-0.03

System Monitoring Compounds

4) 2-Fluorophenol	4.75	112	1190671	57.98	ug/L	0.00
Spiked Amount 100.000	Range 25 - 121		Recovery =	57.98%		
6) Phenol-d5	5.88	99	1498995	66.44	ug/L	0.00
Spiked Amount 100.000	Range 24 - 113		Recovery =	66.44%		
20) Nitrobenzene-d5	7.14	82	644490	32.66	ug/L	0.00
Spiked Amount 50.000	Range 23 - 120		Recovery =	65.32%		
38) 2-Fluorobiphenyl	10.22	172	1406767	38.10	ug/L	-0.01
Spiked Amount 50.000	Range 30 - 115		Recovery =	76.20%		
55) 2,4,6-Tribromophenol	13.08	330	510014	83.87	ug/L	-0.01
Spiked Amount 100.000	Range 19 - 122		Recovery =	83.87%		
70) Terphenyl-d14	17.70	244	2363301	54.71	ug/L	0.00
Spiked Amount 50.000	Range 18 - 137		Recovery =	109.42%		

Target Compounds

Qvalue

2) Pyridine	0.00	79	0	N.D.		
3) n-Nitrosodimethylamine	0.00	74	0	N.D.		
5) Aniline	5.93	93	3499	5.06	ug/L #	1
7) Phenol	5.89	94	2812	3.72	ug/L #	1
8) bis-(2-Chloroethyl) ether	5.99	93	1124	1.97	ug/L #	1
9) 2-Chlorophenol	6.11	128	2104	3.44	ug/L #	75
10) 1,3-Dichlorobenzene	6.36	146	1928	2.95	ug/L #	1
11) 1,4-Dichlorobenzene	6.36	146	1928	2.91	ug/L #	1
12) Benzyl Alcohol	0.00	108	0	N.D.		
13) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
14) 2-Methylphenol	0.00	107	0	N.D.		
15) Bis(2-chloroisopropyl) ethe	0.00	45	0	N.D.		
16) 4-Methylphenol	0.00	107	0	N.D.		
17) n-Nitroso-di-n-propylamine	0.00	70	0	N.D.		
18) Hexachloroethane	7.16	117	164	0.66	ug/L #	10
21) Nitrobenzene	7.14	77	3080	5.29	ug/L #	39
22) Isophorone	7.52	82	390	0.40	ug/L #	1
23) 2-Nitrophenol	0.00	139	0	N.D.		
24) 2,4-Dimethylphenol	7.84	122	550	1.15	ug/L #	1

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\101698\5988.D
 Acq On : 16 Oct 1998 17:28
 Sample : 09-522-01 SOIL
 Misc : SOIL
 MS Integration Params: rteint.p
 Quant Time: Oct 20 14:10 1998

Vial: 11
 Operator: MLS
 Inst : HPMS 7
 Multiplr: 33.00

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
 Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
 Last Update : Sun Oct 18 11:51:56 1998
 Response via : Initial Calibration
 DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25) bis(2-chloroethoxy)methane	7.80	93	4224	6.92	ug/L #	1
26) Benzoic Acid	7.84	122	550	1.63	ug/L #	1
27) 2,4-Dichlorophenol	0.00	162	0	N.D.		
28) 1,2,4-Trichlorobenzene	8.21	180	617	1.18	ug/L #	63
29) Naphthalene	8.30	128	341	0.22	ug/L #	68
30) 4-Chloroaniline	0.00	127	0	N.D.		
31) Hexachlorobutadiene	0.00	225	0	N.D.		
32) 4-chloro-3methylphenol	9.24	107	2296	4.98	ug/L #	16
33) 2-Methylnaphthalene	0.00	142	0	N.D.		
35) Hexachlorocyclopentadiene	0.00	237	0	N.D.		
36) 2,4,6-Trichlorophenol	0.00	196	0	N.D.		
37) 2,4,5-Trichlorophenol	0.00	196	0	N.D.		
39) 2-Chloronaphthalene	0.00	162	0	N.D.		
40) 2-Nitroaniline	0.00	65	0	N.D.		
41) Dimethylphthalate	0.00	163	0	N.D.		
42) Acenaphthylene	0.00	152	0	N.D.		
43) 2,6-Dinitrotoluene	0.00	165	0	N.D.		
44) 3-Nitroaniline	0.00	138	0	N.D.		
45) Acenaphthene	11.51	154	3471	3.68	ug/L #	7
46) 2,4-Dinitrophenol	0.00	184	0	N.D.		
47) 4-Nitrophenol	0.00	65	0	N.D.		
48) Dibenzofuran	0.00	168	0	N.D.		
49) 2,4-Dinitrotoluene	0.00	165	0	N.D.		
50) Diethylphthalate	12.43	149	3876	3.59	ug/L #	72
51) Fluorene	0.00	166	0	N.D.		
52) 4-Chlorophenyl-phenylether	0.00	204	0	N.D.		
53) 4-Nitroaniline	0.00	138	0	N.D.		
54) 1,2-Diphenylhydrazine	12.86	77	1595	1.45	ug/L #	19
57) 4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.		
58) n-Nitrosodiphenylamine	0.00	169	0	N.D.		
59) 4-Bromophenyl-phenyl ether	0.00	248	0	N.D.		
60) Hexachlorobenzene	0.00	284	0	N.D.		
61) Pentachlorophenol	0.00	266	0	N.D.		
62) Phenanthrene	14.47	178	1228	0.75	ug/L #	59
63) Anthracene	0.00	178	0	N.D.		
64) Carbazole	14.93	167	1144	0.91	ug/L #	63
65) Di-n-butylphthalate	15.72	149	20716	11.97	ug/L #	97
66) Fluoranthene	16.90	202	1837	1.03	ug/L #	62
68) Benzidine	0.00	184	0	N.D.		
69) Pyrene	17.36	202	1633	0.86	ug/L #	56
71) Butylbenzylphthalate	18.76	149	7262	8.85	ug/L #	1

(#) = qualifier out of range (m) = manual integration

5988.D LANL.M

Tue Oct 20 14:10:40 1998

HPMS7

-Page 2

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Data File : C:\HPCHEM\1\DATA\101698\5988.D

Vial: 11

Acq On : 16 Oct 1998 17:28

Operator: MLS

Sample : 09-522-01 SOIL

Inst : HPMS 7

Misc : SOIL

Multiplr: 33.00

MS Integration Params: rteint.p

Quant Time: Oct 20 14:10 1998

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Sun Oct 18 11:51:56 1998

Response via : Initial Calibration

DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
72) Benzo(a)anthracene	19.84	228	7119	3.80	ug/L #	65
73) 3,3'-Dichlorobenzidine	0.00	252	0	N.D.		
74) Chrysene	19.88	228	2292	1.77	ug/L #	50
75) Bis(2-ethylhexyl)phthalate	19.98	149	272919	234.23	ug/L	99
77) Di-n-octylphthalate	21.18	149	5764	2.72	ug/L #	91
78) Benzo(b)fluoranthene	22.06	252	850	0.41	ug/L #	49
79) Benzo(k)fluoranthene	22.10	252	2193	1.11	ug/L #	56
80) Benzo(a)pyrene	22.85	252	2816	1.52	ug/L #	93
81) Indeno(1,2,3-cd)pyrene	26.60	276	2062	0.98	ug/L #	56
82) Dibenzo(a,h)anthracene	26.67	278	1205	0.84	ug/L #	53
83) Benzo(g,h,i)perylene	27.67	276	3001	1.64	ug/L #	53

(#) = qualifier out of range (m) = manual integration

5988.D LANL.M

Tue Oct 20 14:10:41 1998

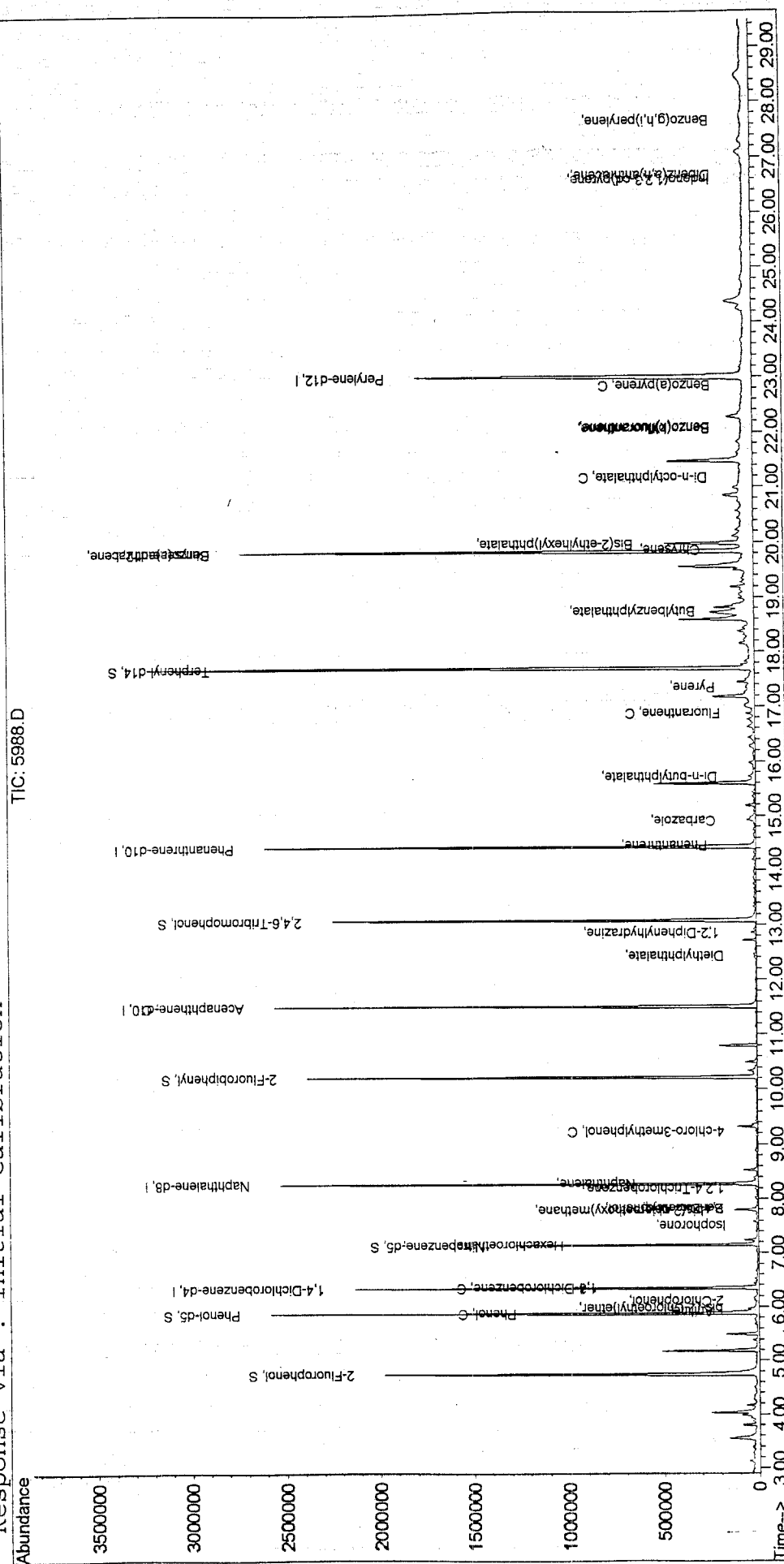
HPMS7

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Quantitation Report

Data File : C:\HPCHEM\1\DATA\101698\5988.D
 Acq On : 16 Oct 1998 17:28
 Sample : 09-522-01 SOIL
 Misc : SOIL
 MS Integration Params: rteint.p
 Quant Time: Oct 20 14:10 1998
 Vial: 11
 Operator: MLS
 Inst : HPMS 7
 Multiplr: 33.00
 Quant Results File: LANL.RES

Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
 Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
 Last Update : Sun Oct 18 11:51:56 1998
 Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\101698\5988.D
 Acq On : 16 Oct 1998 17:28
 Sample : 09-522-01 SOIL
 Misc : SOIL
 MS Integration Params: LSCINT.P

Vial: 11
 Operator: MLS
 Inst : HPMS 7
 Multiplr: 33.00

Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
 Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
 Smoothing : OFF Filtering: 5
 Sampling : 1 Min Area: 1 % of largest Peak
 Start Thrs: 0.2 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

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

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	3.552	113	122	141	rVB3	139798	441735	6.70%	0.687%
2	3.801	163	168	176	rBV	68640	111919	1.70%	0.174%
3	3.985	196	202	205	rVV2	74959	174427	2.65%	0.271%
4	4.035	205	209	224	rVV	233828	477817	7.25%	0.743%
5	4.168	228	234	243	rVB3	49419	96406	1.46%	0.150%
6	4.745	331	342	366	rBV	1964291	3881120	58.91%	6.038%
7	5.183	418	424	438	rBV	497628	879333	13.35%	1.368%
8	5.493	476	482	492	rVB	166838	292096	4.43%	0.454%
9	5.878	548	554	566	rBV	2572850	3955811	60.04%	6.154%
10	6.342	635	641	653	rBV	2129667	3226040	48.97%	5.019%
11	7.144	785	791	804	rBV	1269936	1914395	29.06%	2.978%
12	7.240	804	809	814	rVB	64357	96477	1.46%	0.150%
13	7.795	902	913	919	rBV3	118691	240106	3.64%	0.374%
14	8.276	993	1003	1017	rBV	2523912	4052557	61.51%	6.305%
15	8.527	1045	1050	1055	rBV	69199	108027	1.64%	0.168%
16	9.318	1191	1198	1203	rBV2	102973	174755	2.65%	0.272%
17	10.215	1356	1366	1376	rBV	2378935	4133682	62.74%	6.431%
18	10.493	1413	1418	1426	rBV3	58041	95282	1.45%	0.148%
19	10.798	1467	1475	1482	rVB2	197007	351063	5.33%	0.546%
20	11.514	1600	1609	1617	rBV	2552602	4515890	68.54%	7.025%
21	12.715	1825	1834	1840	rBV	69774	111566	1.69%	0.174%
22	13.079	1894	1902	1923	rBV	2237629	4232967	64.25%	6.585%
23	14.430	2145	2155	2171	rBV2	2597885	4939872	74.98%	7.685%
24	14.922	2240	2247	2251	rBV3	37449	79282	1.20%	0.123%
25	15.184	2288	2296	2304	rBV	49436	88008	1.34%	0.137%
26	15.595	2364	2373	2390	rBV	532249	1085814	16.48%	1.689%
27	15.718	2392	2396	2409	rVB	26750	68646	1.04%	0.107%
28	15.969	2431	2443	2453	rVB8	26495	76666	1.16%	0.119%
29	16.626	2557	2566	2577	rBV6	31061	94722	1.44%	0.147%
30	16.866	2602	2611	2620	rBV4	35380	80475	1.22%	0.125%
31	17.000	2627	2636	2639	rBV7	40212	105550	1.60%	0.164%

32	17.182	2662	2670	2680	rBV5	184114	454905	6.90%	0.708%
33	17.443	2714	2719	2725	rBV2	57390	111062	1.69%	0.173%
34	17.700	2756	2767	2776	rBV	3186029	6588417	100.00%	10.250%
35	17.769	2777	2780	2785	rVV4	45152	75058	1.14%	0.117%
36	18.154	2846	2852	2858	rBV7	36886	78991	1.20%	0.123%
37	18.373	2889	2893	2900	rVB8	42401	74809	1.14%	0.116%
38	18.592	2925	2934	2947	rBV7	353043	917090	13.92%	1.427%
39	18.731	2948	2960	2970	rVV9	147151	558241	8.47%	0.868%
40	18.816	2971	2976	2982	rVV	110682	199096	3.02%	0.310%
41	19.190	3041	3046	3055	rVB3	76442	147599	2.24%	0.230%
42	19.495	3098	3103	3107	rBV4	52625	91149	1.38%	0.142%
43	19.553	3108	3114	3134	rVB2	326540	1020118	15.48%	1.587%
44	19.831	3156	3166	3182	rBV2	2660061	5578905	84.68%	8.679%
45	19.981	3186	3194	3205	rVV	393639	873459	13.26%	1.359%
46	20.114	3213	3219	3224	rBV7	35759	81888	1.24%	0.127%
47	20.846	3350	3356	3370	rVB6	85083	243843	3.70%	0.379%
48	21.471	3465	3473	3494	rBV	376645	1069393	16.23%	1.664%
49	22.278	3616	3624	3631	rBV3	64944	182265	2.77%	0.284%
50	22.999	3746	3759	3775	rBV	1718933	5299669	80.44%	8.245%
51	24.377	4007	4017	4040	rVB6	90380	450500	6.84%	0.701%

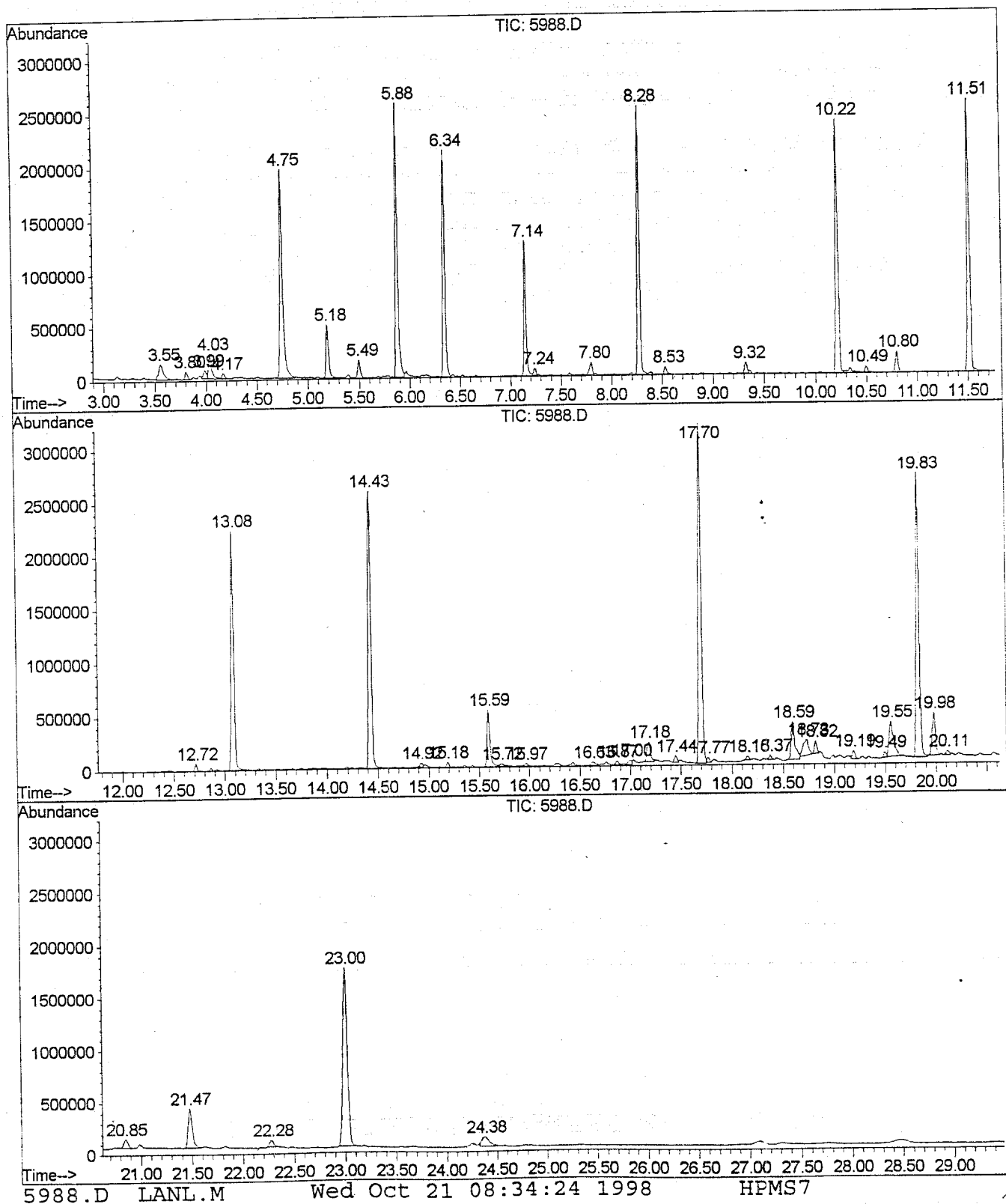
Sum of corrected areas: 64278963

5988.D LANL.M

Wed Oct 21 08:34:23 1998 HPMS7

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\101698\5988.D
 Operator : MLS
 Acquired : 16 Oct 1998 17:28 using AcqMethod BNA
 Instrument : HPMS 7
 Sample Name: 09-522-01 SOIL
 Misc Info : SOIL
 Vial Number: 11
 Quant File : LANL.RES (RTE Integrator)



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\101698\5988.D
Acq On : 16 Oct 1998 17:28
Sample : 09-522-01 SOIL
Misc : SOIL
MS Integration Params: LSCINT.P

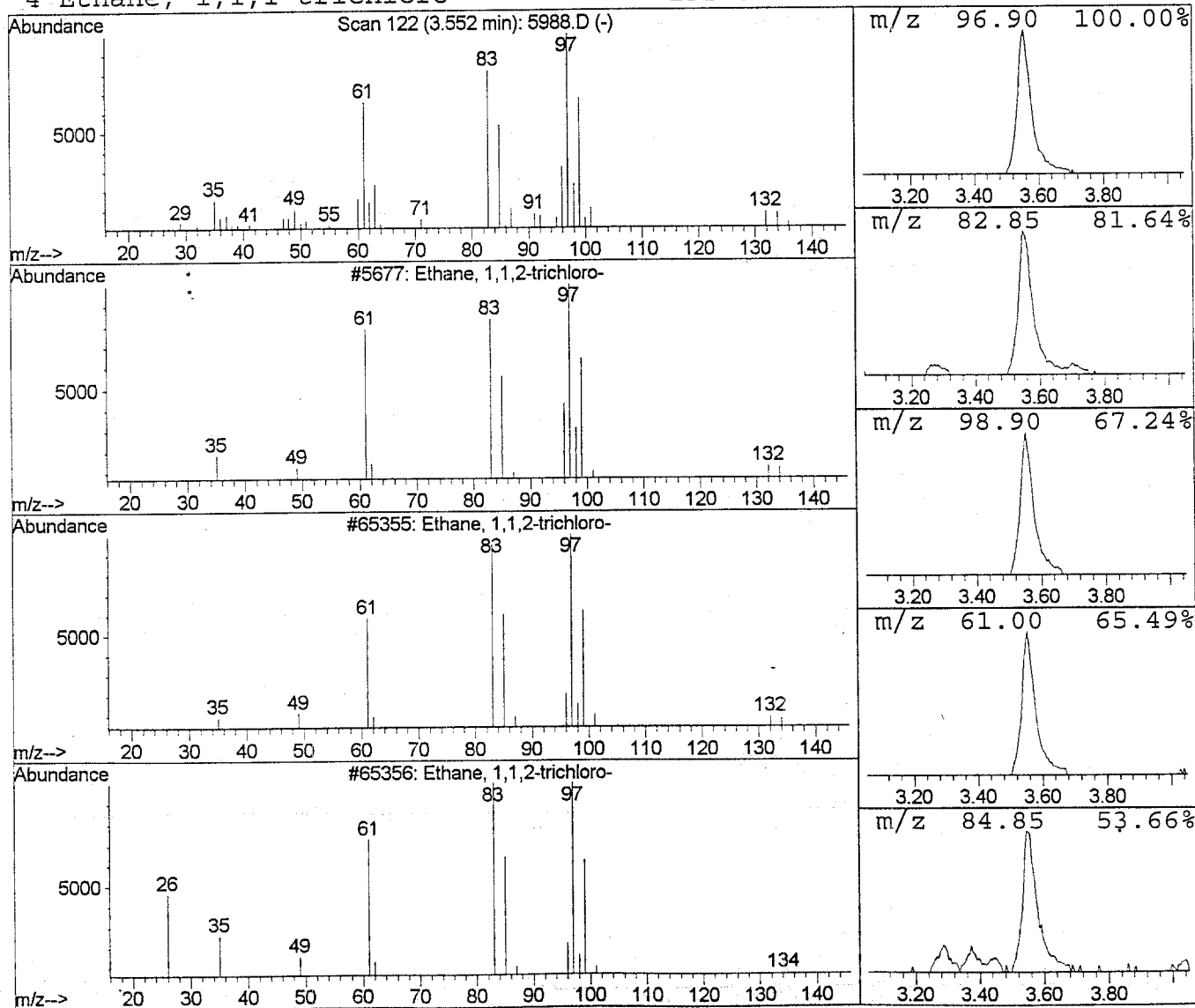
Vial: 11
Operator: MLS
Inst : HPMS 7
Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
Library : C:\DATABASE\NBS75K.L

Peak Number 1 Ethane, 1,1,2-trichloro- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.55	180.75 ug/L	441735	1,4-Dichlorobenzene-d4	6.34

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qua
1			Ethane, 1,1,2-trichloro-	132	C2H3Cl3	000079-00-5	98
2			Ethane, 1,1,2-trichloro-	132	C2H3Cl3	000079-00-5	98
3			Ethane, 1,1,2-trichloro-	132	C2H3Cl3	000079-00-5	94
4			Ethane, 1,1,1-trichloro-	132	C2H3Cl3	000071-55-6	46



Library Search Compound Report

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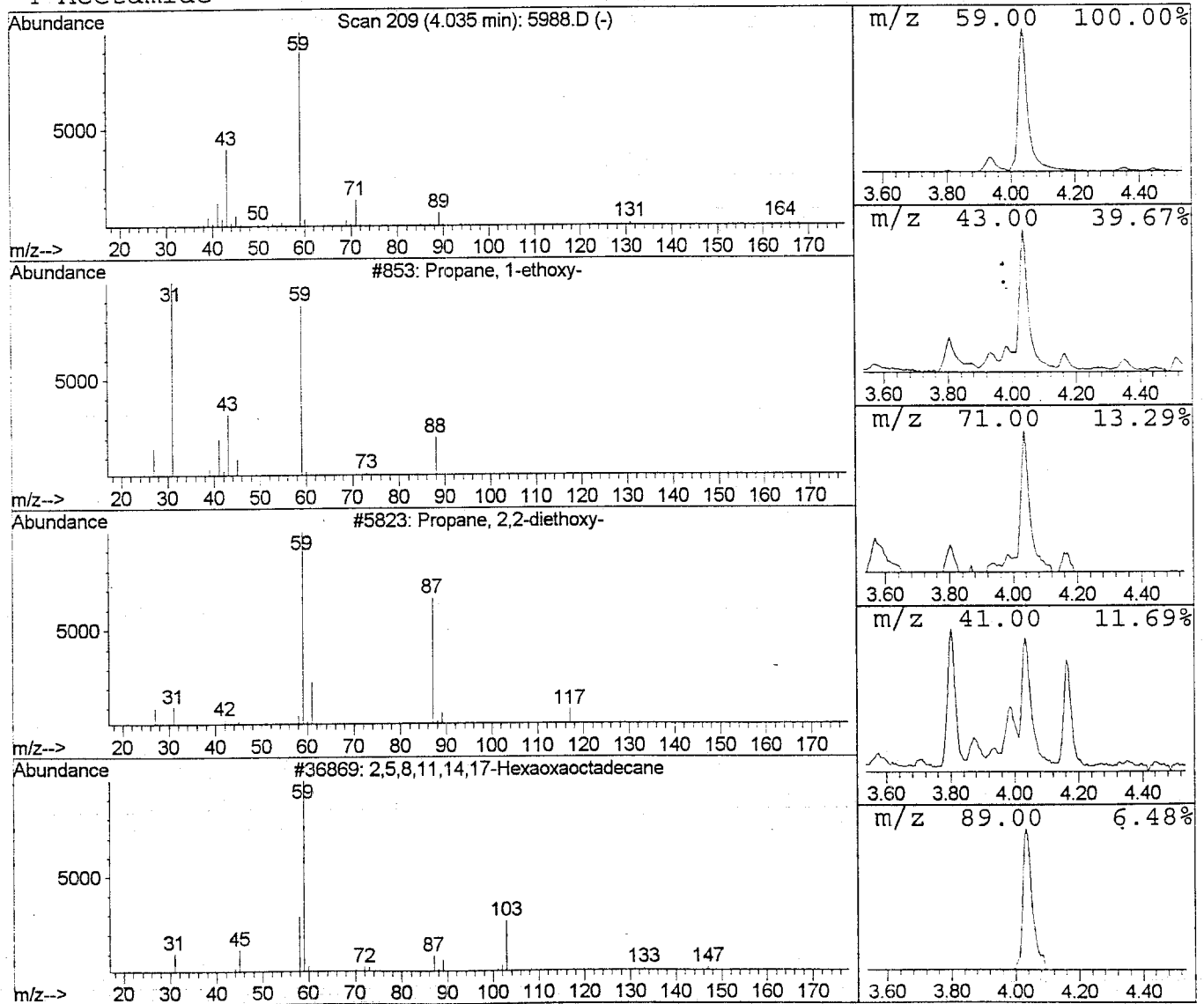
Vial: 11
Operator: MLS
Inst : HPMS 7
Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
Library : C:\DATABASE\NBS75K.L

Peak Number 2 Propane, 1-ethoxy- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.03	195.51 ug/L	477817	1,4-Dichlorobenzene-d4	6.34

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qua
1	5	Propane, 1-ethoxy-	88	C5H12O	000628-32-0	38
2		Propane, 2,2-diethoxy-	132	C7H16O2	000126-84-1	38
3		2,5,8,11,14,17-Hexaoxaoctadecane	266	C12H26O6	001191-87-3	36
4		Acetamide	59	C2H5NO	000060-35-5	9



Library Search Compound Report

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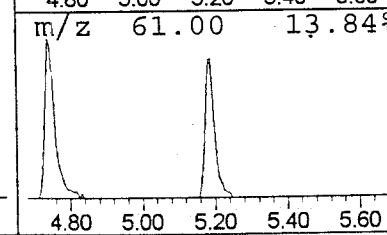
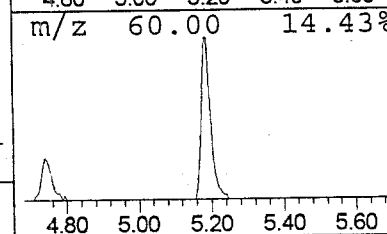
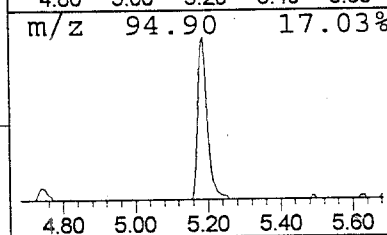
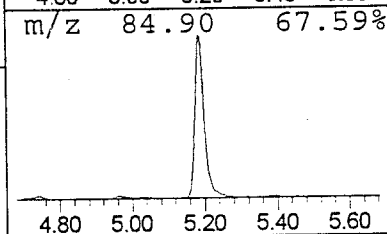
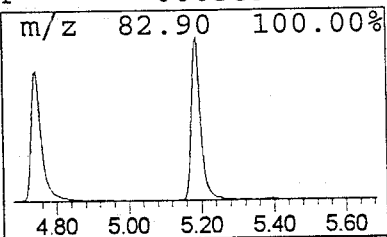
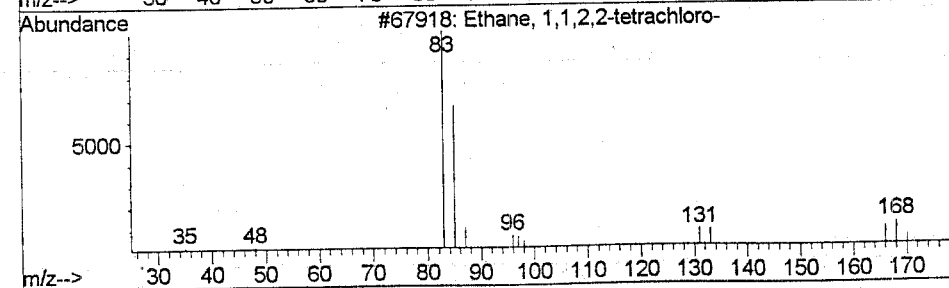
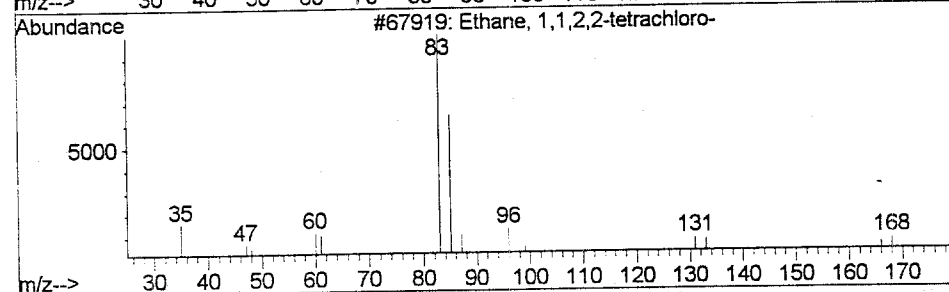
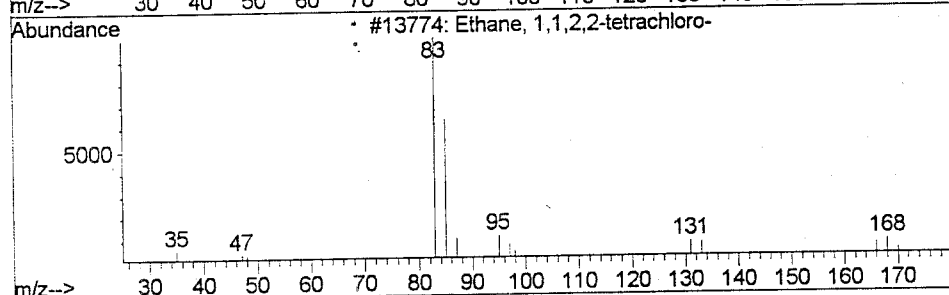
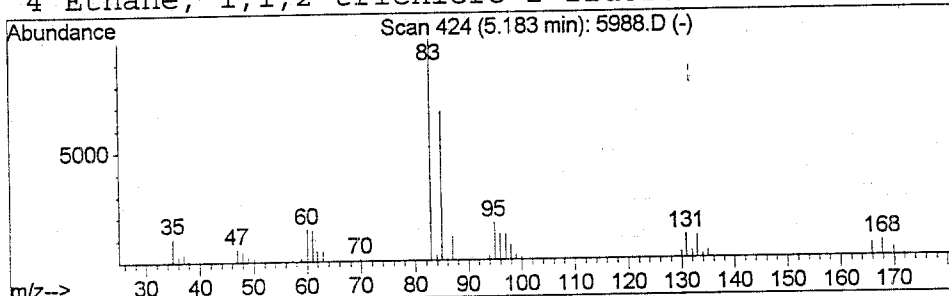
Vial: 11
Operator: MLS
Inst : HPMS 7
Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
Library : C:\DATABASE\NBS75K.L

Peak Number 3 Ethane, 1,1,2,2-tetrachloro- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.18	359.80 ug/L	879333	1,4-Dichlorobenzene-d4	6.34

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qua
1			Ethane, 1,1,2,2-tetrachloro-	166	C2H2Cl4	000079-34-5	97
2			Ethane, 1,1,2,2-tetrachloro-	166	C2H2Cl4	000079-34-5	93
3			Ethane, 1,1,2,2-tetrachloro-	166	C2H2Cl4	000079-34-5	87
4			Ethane, 1,1,2-trichloro-2-fluoro-	150	C2H2Cl3F	000359-28-4	64



Library Search Compound Report

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Sample : 09-522-01 SOIL
Misc : SOIL
MS Integration Params: LSCINT.P

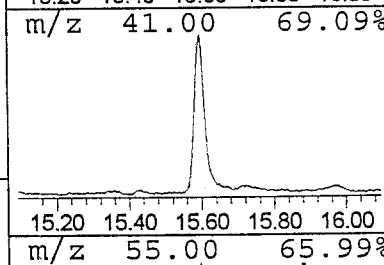
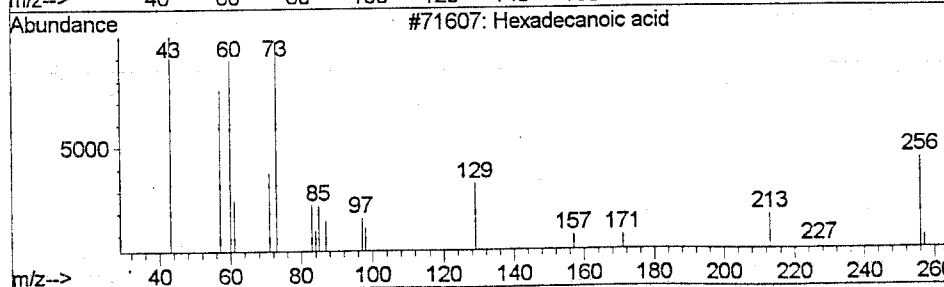
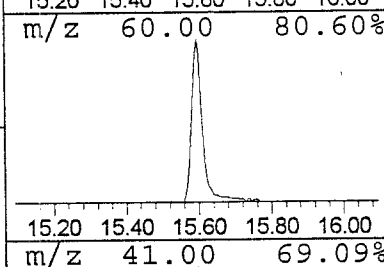
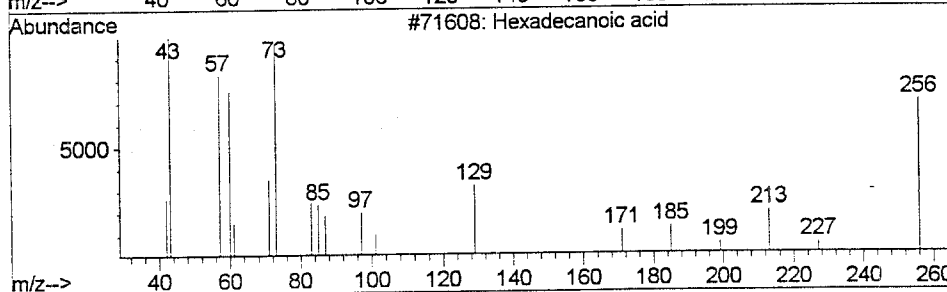
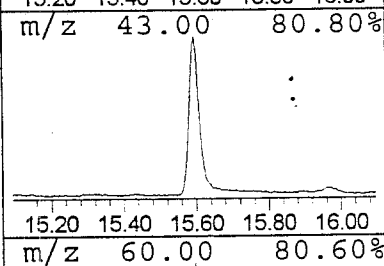
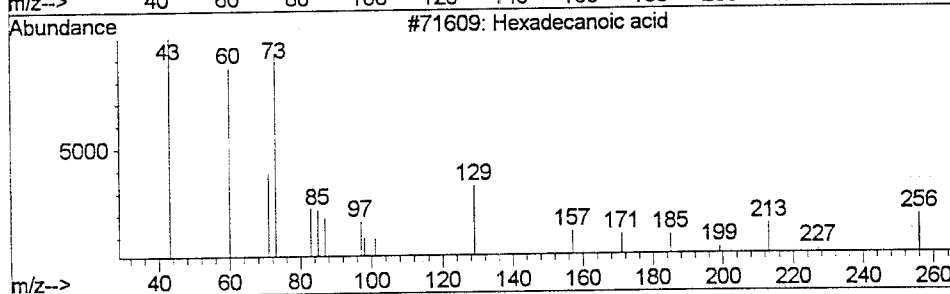
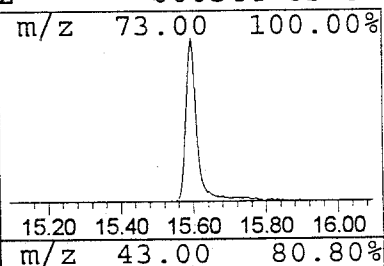
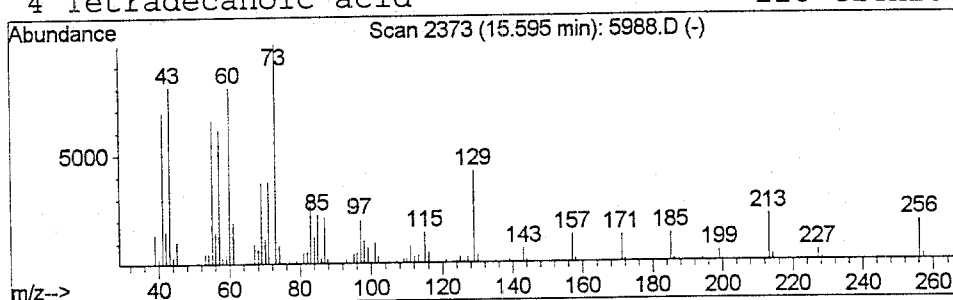
Vial: 11
Operator: MLS
Inst : HPMS 7
Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
Library : C:\DATABASE\NBS75K.L

Peak Number 4 Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.59	290.14 ug/L	1085810	Phenanthrene-d10	14.43

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qua
1	Hexadecanoic acid		256	C16H32O2	000057-10-3	99
2	Hexadecanoic acid		256	C16H32O2	000057-10-3	98
3	Hexadecanoic acid		256	C16H32O2	000057-10-3	98
4	Tetradecanoic acid		228	C14H28O2	000544-63-8	96



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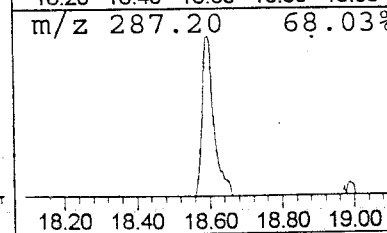
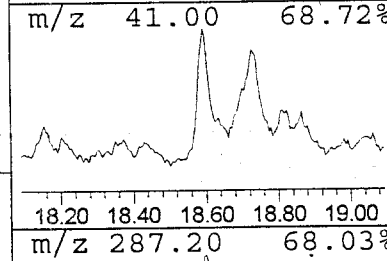
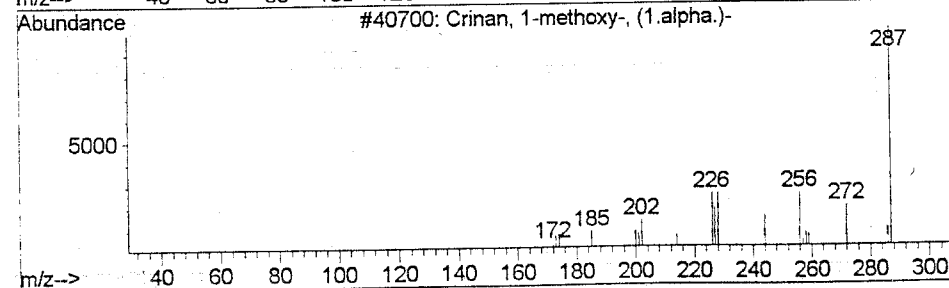
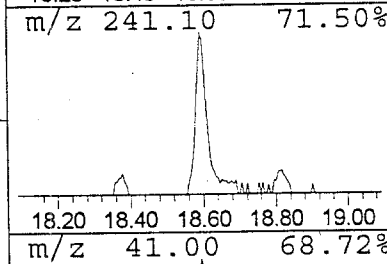
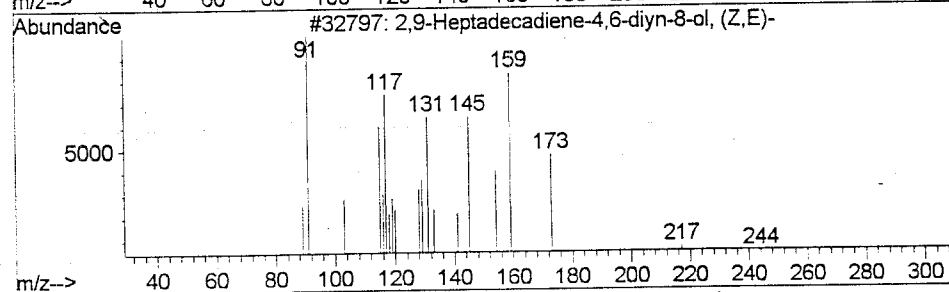
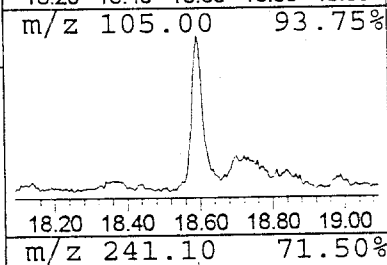
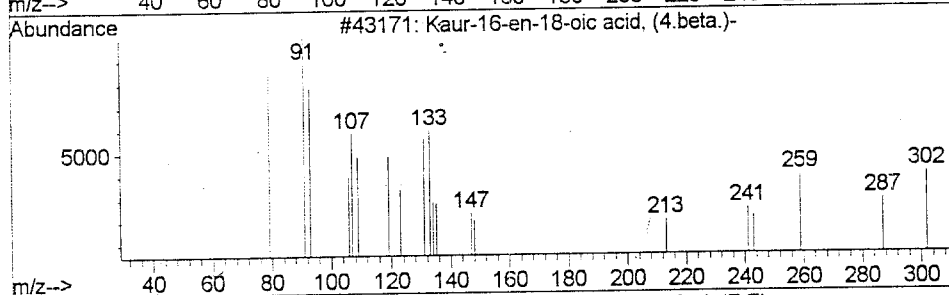
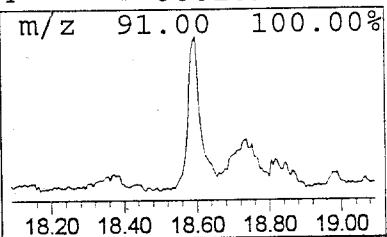
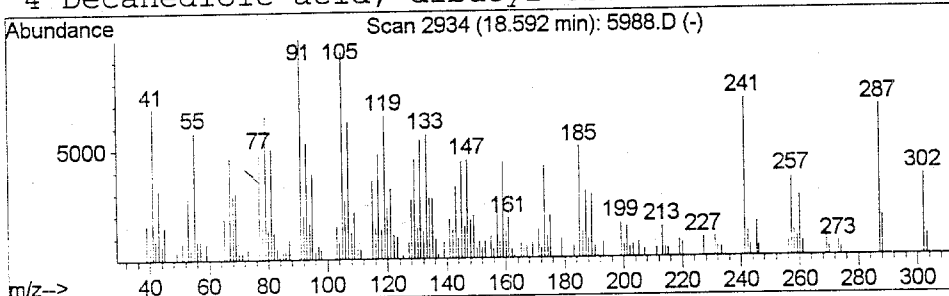
Vial: 11
Operator: MLS
Inst : HPMS 7
Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
Library : C:\DATABASE\NBS75K.L

Peak Number 5 Kaur-16-en-18-oic acid, (4.bet Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.59	216.99 ug/L	917090	Chrysene-d12	19.83

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qua
1		Kaur-16-en-18-oic acid, (4.beta.)-	302	C20H30O2	020316-84-1	55
2		2,9-Heptadecadiene-4,6-diyn-8-ol, (	244	C17H24O	050816-77-8	14
3		Crinan, 1-methoxy-, (1.alpha.)-	287	C17H21NO3	041928-92-1	9
4		Decanedioic acid, dibutyl ester	314	C18H34O4	000109-43-3	9



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Misc : SOIL
MS Integration Params: LSCINT.P

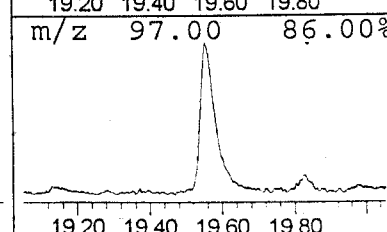
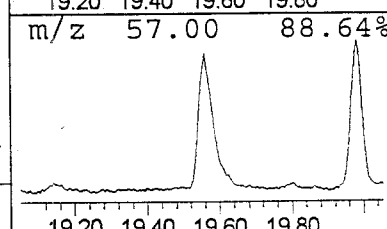
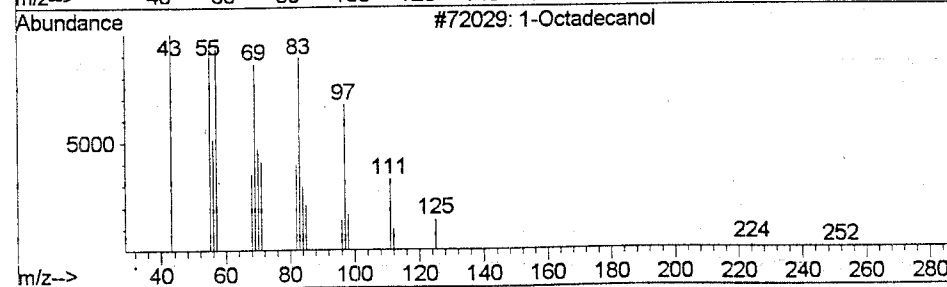
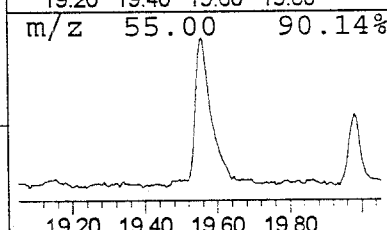
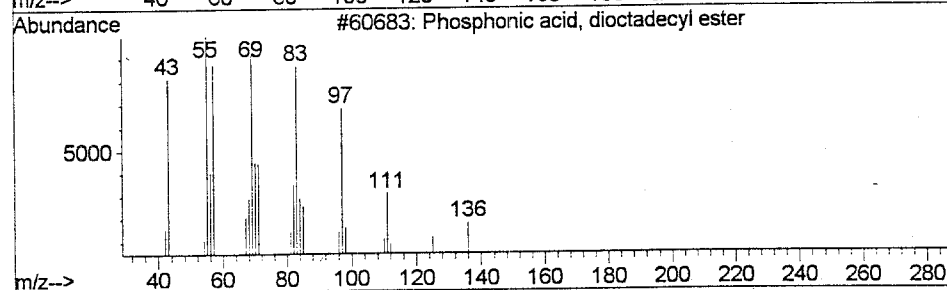
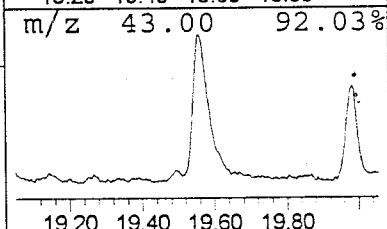
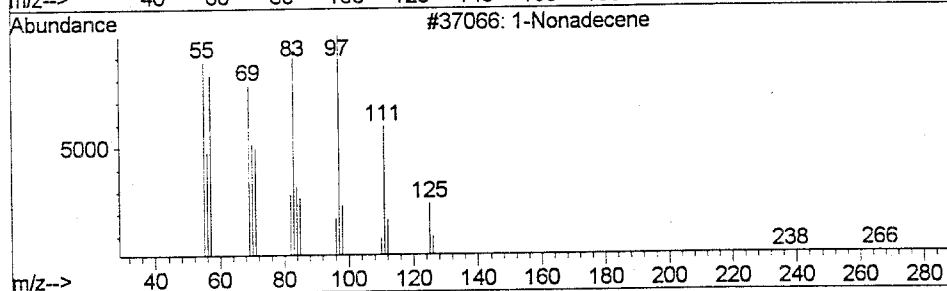
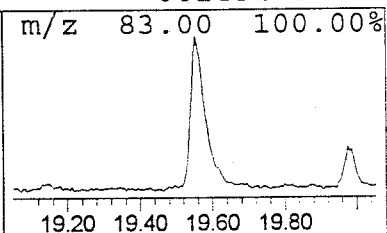
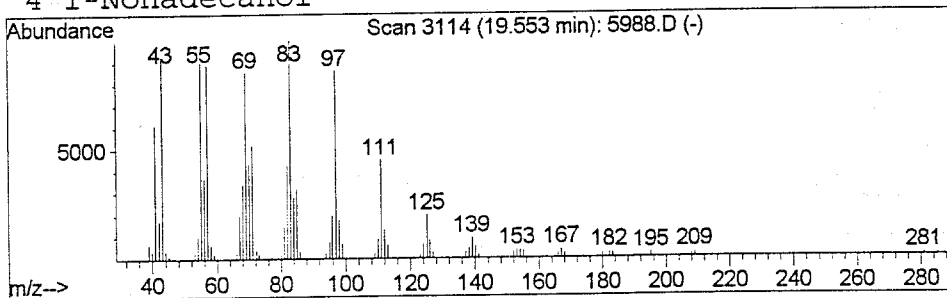
Vial: 11
Operator: MLS
Inst : HPMS 7
Multiplr: 33.00

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Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
Library : C:\DATABASE\NBS75K.L

Peak Number 6 1-Nonadecene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.55	241.37 ug/L	1020120	Chrysene-d12	19.83

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qua
1	5	1-Nonadecene	266	C19H38	018435-45-5	94
2		Phosphonic acid, dioctadecyl ester	587	C36H75O3P	019047-85-9	93
3		1-Octadecanol	270	C18H38O	000112-92-5	91
4		1-Nonadecanol	284	C19H40O	001454-84-8	91



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Misc : SOIL
MS Integration Params: LSCINT.P

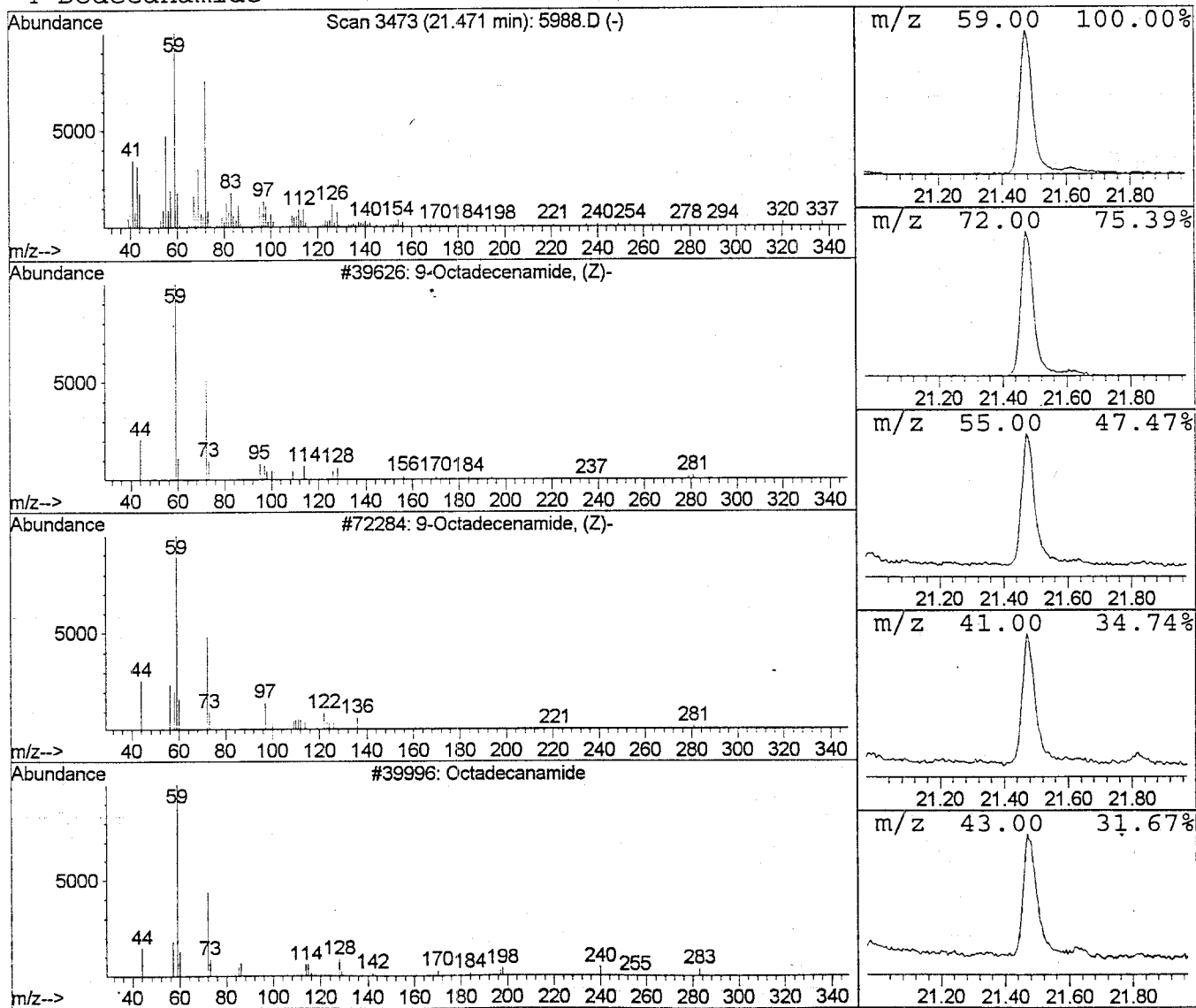
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Operator: MLS
Inst : HPMS 7
Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
Library : C:\DATABASE\NBS75K.L

Peak Number 7 9-Octadecenamide, (Z)- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.47	266.36 ug/L	1069390	Perylene-d12	23.00

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qua
1	5	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	58
2		9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	37
3		Octadecanamide	283	C18H37NO	000124-26-5	37
4		Dodecanamide	199	C12H25NO	001120-16-7	32



Tentatively Identified Compound (LSC) summary

Operator ID: MLS Date Acquired: 16 Oct 1998 17:28
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 Name: 09-522-01 SOIL
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 Method: C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
 Title: M8270/625 LIST INITIAL CALIBRATION 10/13/98
 Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISCon
Ethane, 1,1,2-trichl	3.55	180.7	ug/L	441735	ISTD01	6.34	3226040	40.
Propane, 1-ethoxy-	4.03	195.5	ug/L	477817	ISTD01	6.34	3226040	40.
Ethane, 1,1,2,2-tetr	5.18	359.8	ug/L	879333	ISTD01	6.34	3226040	40.
Hexadecanoic acid	15.59	290.1	ug/L	1085810	ISTD04	14.43	4939870	40.
Kaur-16-en-18-oic ac	18.59	217.0	ug/L	917090	ISTD05	19.83	5578910	40.
1-Nonadecene	19.55	241.4	ug/L	1020120	ISTD05	19.83	5578910	40.
9-Octadecenamide, (Z	21.47	266.4	ug/L	1069390	ISTD06	23.00	5299670	40.

5988.D LANL.M Wed Oct 21 08:34:37 1998 HPMS7

Data File : C:\HPCHEM\1\DATA\101698\5989.D
 Acq On : 16 Oct 1998 18:06
 Sample : 09-522-02 SOIL
 Misc : SOIL
 MS Integration Params: rteint.p
 Quant Time: Oct 20 14:10 1998

Vial: 12
 Operator: MLS
 Inst : HPMS 7
 Multiplr: 33.00

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
 Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
 Last Update : Sun Oct 18 11:51:56 1998
 Response via : Initial Calibration
 DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.34	152	554103	40.00	ug/L	0.00
19) Naphthalene-d8	8.27	136	2049483	40.00	ug/L	-0.01
34) Acenaphthene-d10	11.51	164	1134085	40.00	ug/L	-0.01
56) Phenanthrene-d10	14.43	188	1917943	40.00	ug/L	-0.01
67) Chrysene-d12	19.83	240	1939372	40.00	ug/L	-0.02
76) Perylene-d12	23.01	264	2064240	40.00	ug/L	-0.02

System Monitoring Compounds

4) 2-Fluorophenol	4.75	112	918890	43.14	ug/L	0.00
Spiked Amount	100.000	Range	25 - 121	Recovery	=	43.14%
6) Phenol-d5	5.88	99	1095626	46.82	ug/L	0.00
Spiked Amount	100.000	Range	24 - 113	Recovery	=	46.82%
20) Nitrobenzene-d5	7.14	82	482828	23.76	ug/L	0.00
Spiked Amount	50.000	Range	23 - 120	Recovery	=	47.52%
38) 2-Fluorobiphenyl	10.22	172	972241	25.56	ug/L	-0.01
Spiked Amount	50.000	Range	30 - 115	Recovery	=	51.12%
55) 2,4,6-Tribromophenol	13.08	330	359570	57.39	ug/L	-0.02
Spiked Amount	100.000	Range	19 - 122	Recovery	=	57.39%
70) Terphenyl-d14	17.70	244	1888323	42.45	ug/L	0.00
Spiked Amount	50.000	Range	18 - 137	Recovery	=	84.90%

Target Compounds

						Qvalue
2) Pyridine	0.00	79	0	N.D.		
3) n-Nitrosodimethylamine	0.00	74	0	N.D.		
5) Aniline	0.00	93	0	N.D.		
7) Phenol	5.89	94	1695	2.16	ug/L #	1
8) bis-(2-Chloroethyl)ether	0.00	93	0	N.D.		
9) 2-Chlorophenol	6.11	128	1261	1.99	ug/L #	50
10) 1,3-Dichlorobenzene	6.36	146	1472	2.17	ug/L #	38
11) 1,4-Dichlorobenzene	6.36	146	1472	2.14	ug/L #	39
12) Benzyl Alcohol	0.00	108	0	N.D.		
13) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
14) 2-Methylphenol	0.00	107	0	N.D.		
15) Bis(2-chloroisopropyl)ethe	0.00	45	0	N.D.		
16) 4-Methylphenol	0.00	107	0	N.D.		
17) n-Nitroso-di-n-propylamine	0.00	70	0	N.D.		
18) Hexachloroethane	0.00	117	0	N.D.		
21) Nitrobenzene	7.14	77	1516	2.53	ug/L #	37
22) Isophorone	7.50	82	168	0.17	ug/L #	64
23) 2-Nitrophenol	0.00	139	0	N.D.		
24) 2,4-Dimethylphenol	0.00	122	0	N.D.		

(#) = qualifier out of range (m) = manual integration

5989.D LANL.M

Tue Oct 20 14:11:01 1998

HPMS7

Page 1

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 Sample : 09-522-02 SOIL
 Misc : SOIL
 MS Integration Params: rteint.p
 Quant Time: Oct 20 14:10 1998

Vial: 12
 Operator: MLS
 Inst : HPMS 7
 Multiplr: 33.00

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
 Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
 Last Update : Sun Oct 18 11:51:56 1998
 Response via : Initial Calibration
 DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25) bis(2-chloroethoxy)methane	0.00	93	0	N.D.	
26) Benzoic Acid	0.00	122	0	N.D.	
27) 2,4-Dichlorophenol	0.00	162	0	N.D.	
28) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.	
29) Naphthalene	8.30	128	195	0.12 ug/L #	68
30) 4-Chloroaniline	0.00	127	0	N.D.	
31) Hexachlorobutadiene	0.00	225	0	N.D.	
32) 4-chloro-3methylphenol	0.00	107	0	N.D.	
33) 2-Methylnaphthalene	0.00	142	0	N.D.	
35) Hexachlorocyclopentadiene	0.00	237	0	N.D.	
36) 2,4,6-Trichlorophenol	0.00	196	0	N.D.	
37) 2,4,5-Trichlorophenol	0.00	196	0	N.D.	
39) 2-Chloronaphthalene	0.00	162	0	N.D.	
40) 2-Nitroaniline	0.00	65	0	N.D.	
41) Dimethylphthalate	0.00	163	0	N.D.	
42) Acenaphthylene	0.00	152	0	N.D.	
43) 2,6-Dinitrotoluene	0.00	165	0	N.D.	
44) 3-Nitroaniline	0.00	138	0	N.D.	
45) Acenaphthene	11.52	154	3323	3.42 ug/L #	7
46) 2,4-Dinitrophenol	0.00	184	0	N.D.	
47) 4-Nitrophenol	0.00	65	0	N.D.	
48) Dibenzofuran	0.00	168	0	N.D.	
49) 2,4-Dinitrotoluene	0.00	165	0	N.D.	
50) Diethylphthalate	12.44	149	2861	2.57 ug/L #	67
51) Fluorene	0.00	166	0	N.D.	
52) 4-Chlorophenyl-phenylether	0.00	204	0	N.D.	
53) 4-Nitroaniline	0.00	138	0	N.D.	
54) 1,2-Diphenylhydrazine	12.92	77	4062	3.59 ug/L #	46
57) 4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.	
58) n-Nitrosodiphenylamine	0.00	169	0	N.D.	
59) 4-Bromophenyl-phenyl ether	0.00	248	0	N.D.	
60) Hexachlorobenzene	0.00	284	0	N.D.	
61) Pentachlorophenol	0.00	266	0	N.D.	
62) Phenanthrene	14.47	178	538	0.32 ug/L #	1
63) Anthracene	0.00	178	0	N.D.	
64) Carbazole	14.93	167	168	0.13 ug/L #	63
65) Di-n-butylphthalate	15.72	149	15435	8.63 ug/L #	90
66) Fluoranthene	16.90	202	762	0.41 ug/L #	62
68) Benzidine	0.00	184	0	N.D.	
69) Pyrene	17.35	202	343	0.18 ug/L #	56
71) Butylbenzylphthalate	18.75	149	5890	6.97 ug/L #	45

(#) = qualifier out of range (m) = manual integration

5989.D LANL.M Tue Oct 20 14:11:02 1998 HPMS7

Page 2
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Data File : C:\HPCHEM\1\DATA\101698\5989.D
Acq On : 16 Oct 1998 18:06
Sample : 09-522-02 SOIL
Misc : SOIL
MS Integration Params: rteint.p
Quant Time: Oct 20 14:10 1998

Vial: 12
Operator: MLS
Inst : HPMS 7
Multiplr: 33.00

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
Last Update : Sun Oct 18 11:51:56 1998
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
72) Benzo(a)anthracene	19.83	228	5559	2.88	ug/L #	58
73) 3,3'-Dichlorobenzidine	0.00	252	0	N.D.		
74) Chrysene	19.88	228	839	0.63	ug/L #	50
75) Bis(2-ethylhexyl)phthalate	19.98	149	20094	16.75	ug/L #	93
77) Di-n-octylphthalate	21.18	149	4789	2.14	ug/L #	90
78) Benzo(b)fluoranthene	22.09	252	380	0.17	ug/L #	1
79) Benzo(k)fluoranthene	22.09	252	380	0.18	ug/L #	1
80) Benzo(a)pyrene	22.86	252	376	0.19	ug/L #	1
81) Indeno(1,2,3-cd)pyrene	26.60	276	819	0.37	ug/L #	45
82) Dibenz(a,h)anthracene	26.65	278	165	0.11	ug/L #	53
83) Benzo(g,h,i)perylene	27.65	276	178	0.09	ug/L #	47

(#) = qualifier out of range (m) = manual integration

5989.D LANL.M

Tue Oct 20 14:11:03 1998

HPMS7

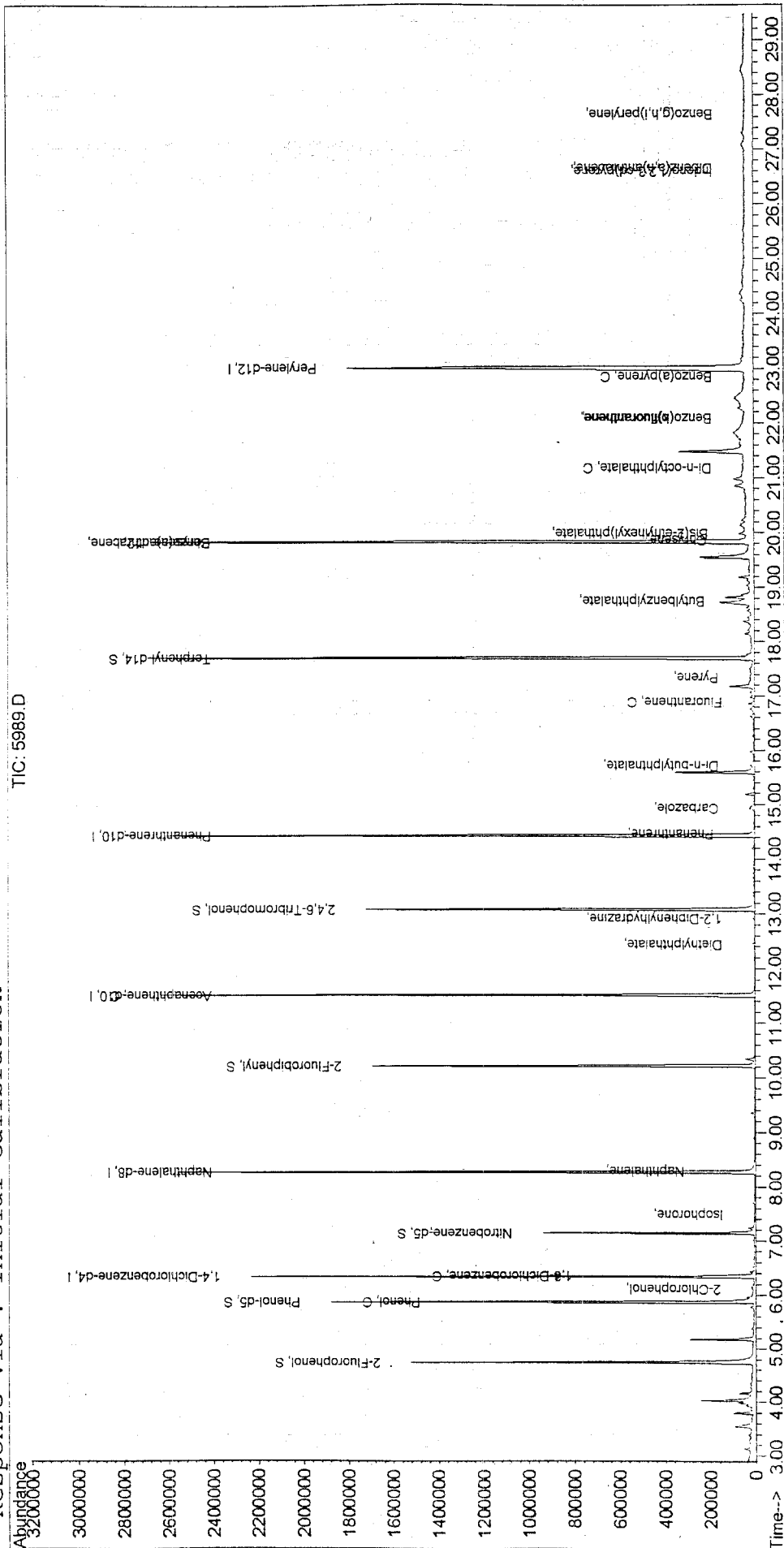
Page 3

Quantitation Report

Data File : C:\HPCHEM\1\DATA\101698\5989.D
 Acq On : 16 Oct 1998 18:06
 Sample : 09-522-02 SOIL
 Misc : SOIL
 MS Integration Params: rteint.p
 Quant Time: Oct 20 14:10 1998

Vial: 12
 Operator: MLS
 Inst : HPMS 7
 Multiplr: 33.00
 Quant Results File: LANL.RES

Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
 Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
 Last Update : Sun Oct 18 11:51:56 1998
 Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\101698\5989.D

Acq On : 16 Oct 1998 18:06

Sample : 09-522-02 SOIL

Misc : SOIL

MS Integration Params: LSCINT.P

Vial: 12

Operator: MLS

Inst : HPMS 7

Multiplr: 33.00

Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Smoothing : OFF

Filtering: 5

Sampling : 1

Min Area: 1 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	3.555	113	123	141	rVB4	80353	267913	4.72%	0.515%
2	3.804	162	169	176	rBV	84387	147402	2.60%	0.283%
3	3.988	197	203	206	rVV	64685	155247	2.74%	0.298%
4	4.035	206	210	227	rVV	227277	470765	8.30%	0.904%
5	4.164	229	234	246	rVB2	55653	100415	1.77%	0.193%
6	4.746	334	343	365	rBV	1505478	2943814	51.90%	5.655%
7	5.184	419	425	436	rBV	283744	486522	8.58%	0.935%
8	5.879	549	555	568	rBV	1868862	2863182	50.48%	5.500%
9	6.343	636	642	654	rBV	2224594	3318344	58.50%	6.375%
10	7.145	786	792	806	rBV	930400	1392056	24.54%	2.674%
11	8.277	995	1004	1019	rBV	2559482	4150279	73.17%	7.973%
12	10.216	1359	1367	1384	rBV	1691197	2859366	50.41%	5.493%
13	10.339	1384	1390	1396	rVB	38477	63816	1.13%	0.123%
14	11.514	1600	1610	1629	rBV	2626515	4655958	82.08%	8.945%
15	13.080	1895	1903	1927	rVB	1715472	3095713	54.57%	5.947%
16	14.431	2146	2156	2171	rBV2	2593106	5052353	89.07%	9.706%
17	15.190	2291	2298	2305	rBV	41140	72950	1.29%	0.140%
18	15.591	2365	2373	2391	rBV2	349004	699504	12.33%	1.344%
19	17.177	2661	2670	2679	rBV4	104766	274255	4.83%	0.527%
20	17.701	2758	2768	2777	rBV	2664191	5229200	92.19%	10.046%
21	18.726	2948	2960	2967	rBV6	131446	411329	7.25%	0.790%
22	18.812	2971	2976	2982	rVV	84106	154706	2.73%	0.297%
23	19.191	3041	3047	3054	rVB	49516	92300	1.63%	0.177%
24	19.554	3107	3115	3133	rBV2	215352	654993	11.55%	1.258%
25	19.832	3157	3167	3182	rBV2	2636045	5672469	100.00%	10.897%
26	19.982	3189	3195	3199	rBV3	30579	63434	1.12%	0.122%
27	20.847	3351	3357	3371	rVB7	41394	123841	2.18%	0.238%
28	20.986	3375	3383	3392	rBV8	40527	110669	1.95%	0.213%
29	21.472	3464	3474	3494	rBV2	284409	873289	15.40%	1.678%
30	23.005	3747	3761	3783	rBV2	1744897	5597587	98.68%	10.753%

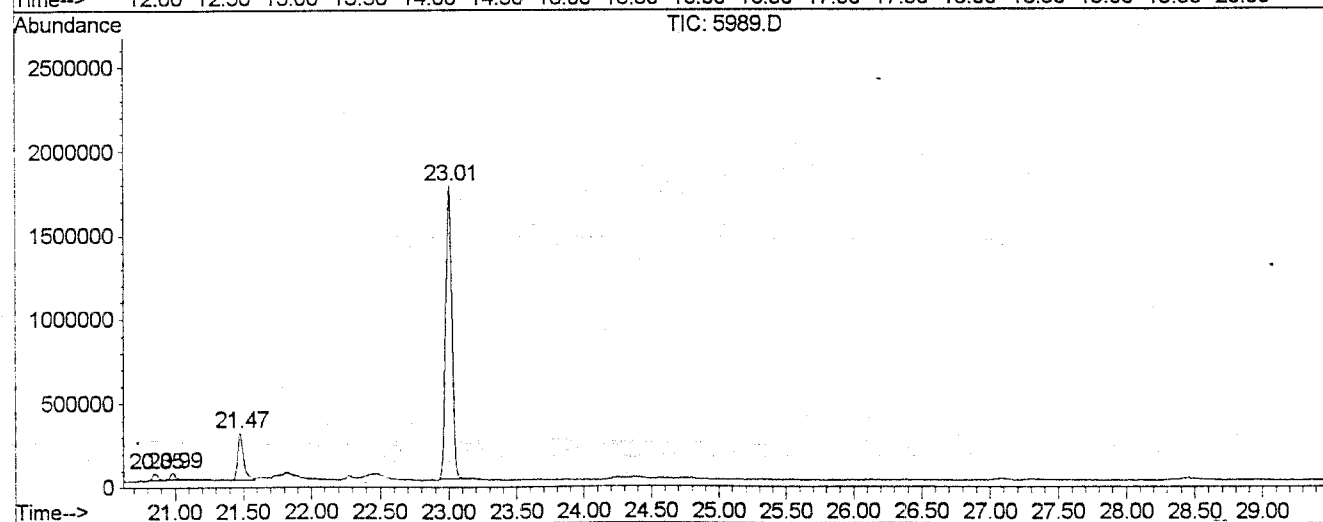
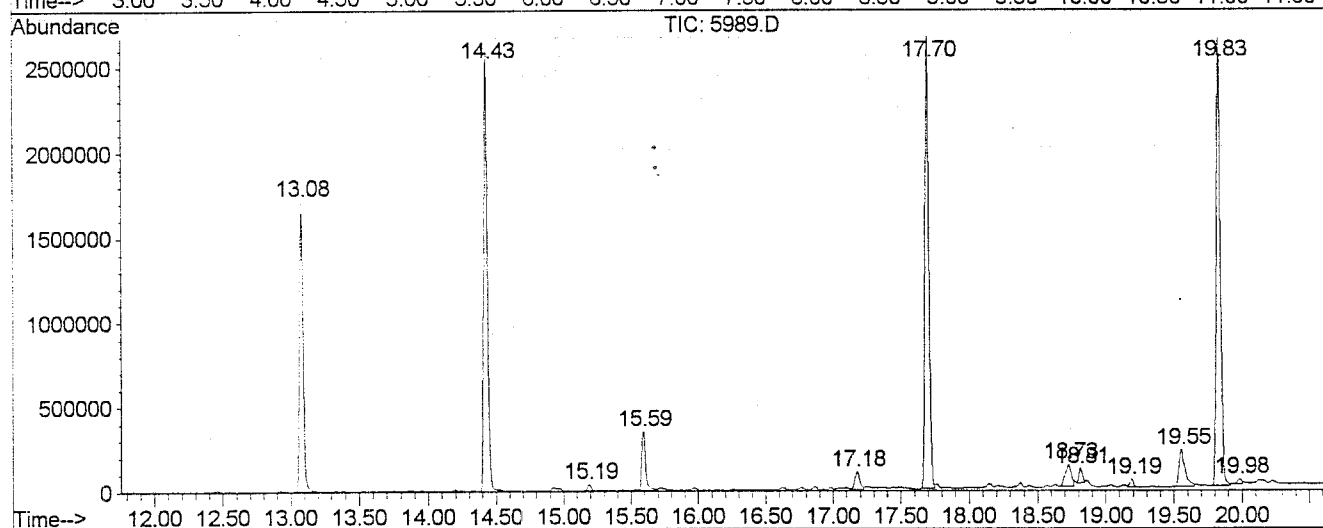
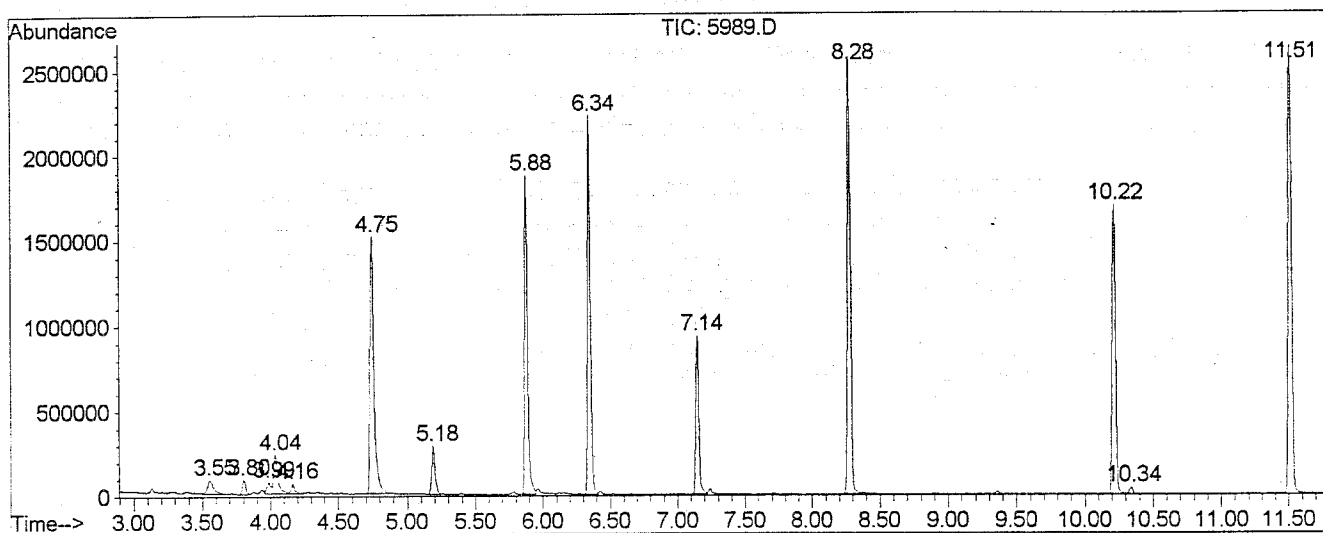
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5989.D LANL.M

Wed Oct 21 08:35:26 1998 HPMS7

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\101698\5989.D
 Operator : MLS
 Acquired : 16 Oct 1998 18:06 using AcqMethod BNA
 Instrument : HPMS 7
 Sample Name: 09-522-02 SOIL
 Misc Info : SOIL
 Vial Number: 12
 Quant File : LANL.RES (RTE Integrator)



5989.D LANL.M

Wed Oct 21 08:35:27 1998

HPMS7

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\101698\5989.D

Acq On : 16 Oct 1998 18:06

Sample : 09-522-02 SOIL

Misc : SOIL

MS Integration Params: LSCINT.P

Vial: 12

Operator: MLS

Inst : HPMS 7

Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

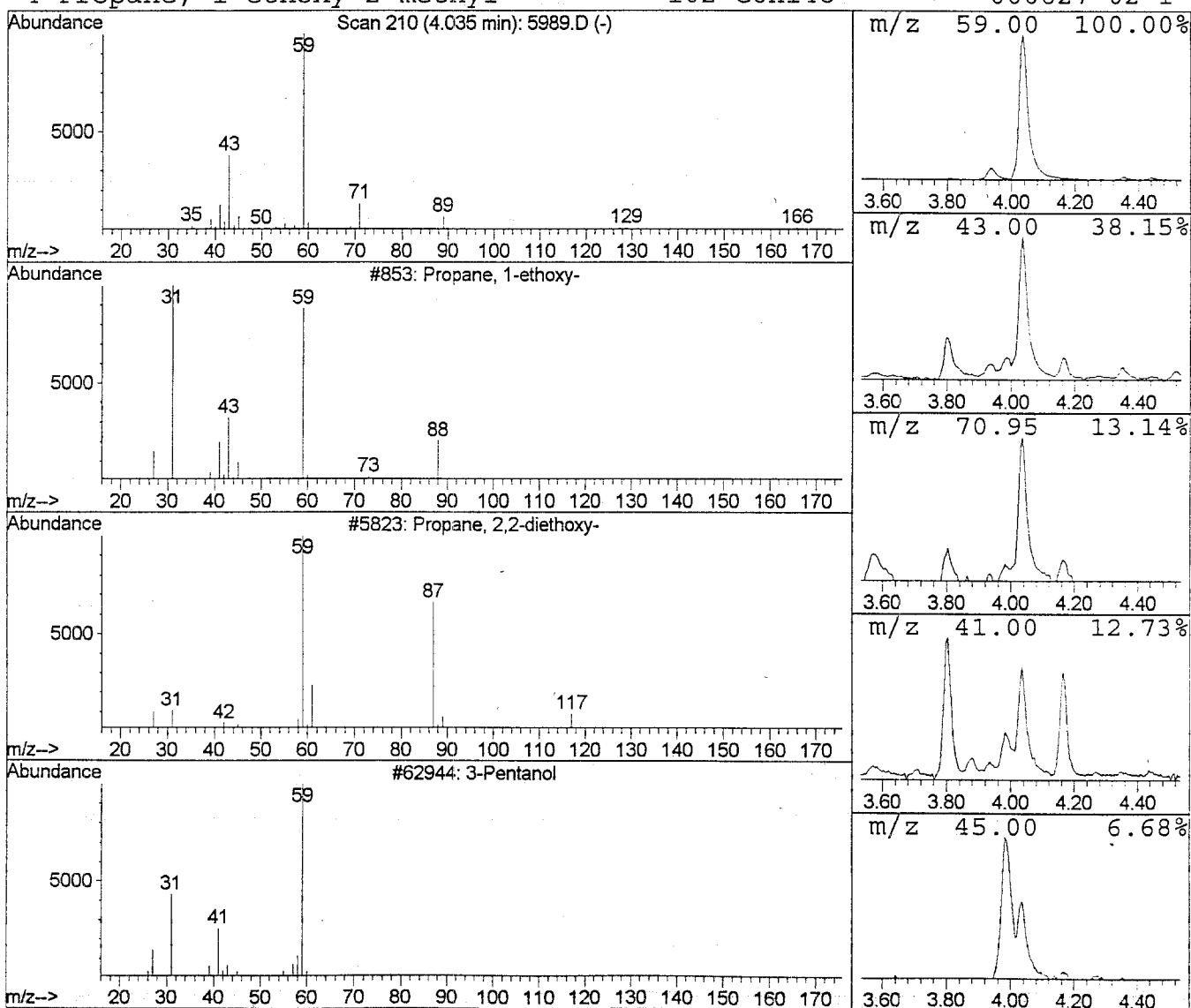
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Library : C:\DATABASE\NBS75K.L

Peak Number 1 Propane, 1-ethoxy- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.04	187.27 ug/L	470765	1,4-Dichlorobenzene-d4	6.34

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qua
1	Propane, 1-ethoxy-		88	C5H12O	000628-32-0	39
2	Propane, 2,2-diethoxy-		132	C7H16O2	000126-84-1	38
3	3-Pentanol		88	C5H12O	000584-02-1	38
4	Propane, 1-ethoxy-2-methyl-		102	C6H14O	000627-02-1	38



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\101698\5989.D

Vial: 12

Acq On : 16 Oct 1998 18:06

Operator: MLS

Sample : 09-522-02 SOIL

Inst : HPMS 7

Misc : SOIL

Multiplr: 33.00

MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

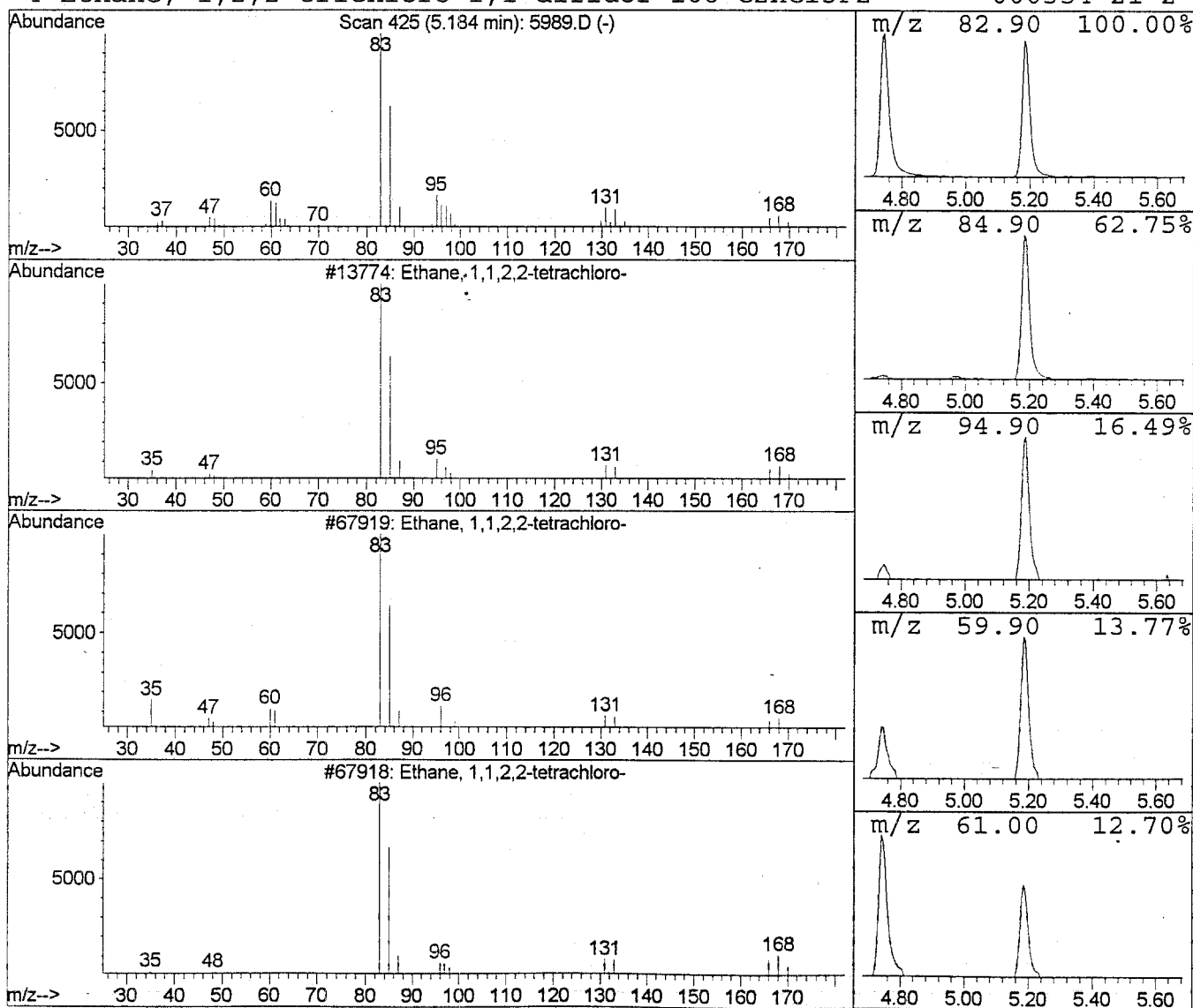
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Library : C:\DATABASE\NBS75K.L

Peak Number 2 Ethane, 1,1,2,2-tetrachloro- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.18	193.53 ug/L	486522	1,4-Dichlorobenzene-d4	6.34

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qua
1	5	Ethane, 1,1,2,2-tetrachloro-	166	C2H2Cl4	000079-34-5	93
2		Ethane, 1,1,2,2-tetrachloro-	166	C2H2Cl4	000079-34-5	93
3		Ethane, 1,1,2,2-tetrachloro-	166	C2H2Cl4	000079-34-5	87
4		Ethane, 1,2,2,2-trichloro-1,1-difluor	168	C2HCl3F2	000354-21-2	70



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\101698\5989.D
Acq On : 16 Oct 1998 18:06
Sample : 09-522-02 SOIL
Misc : SOIL
MS Integration Params: LSCINT.P

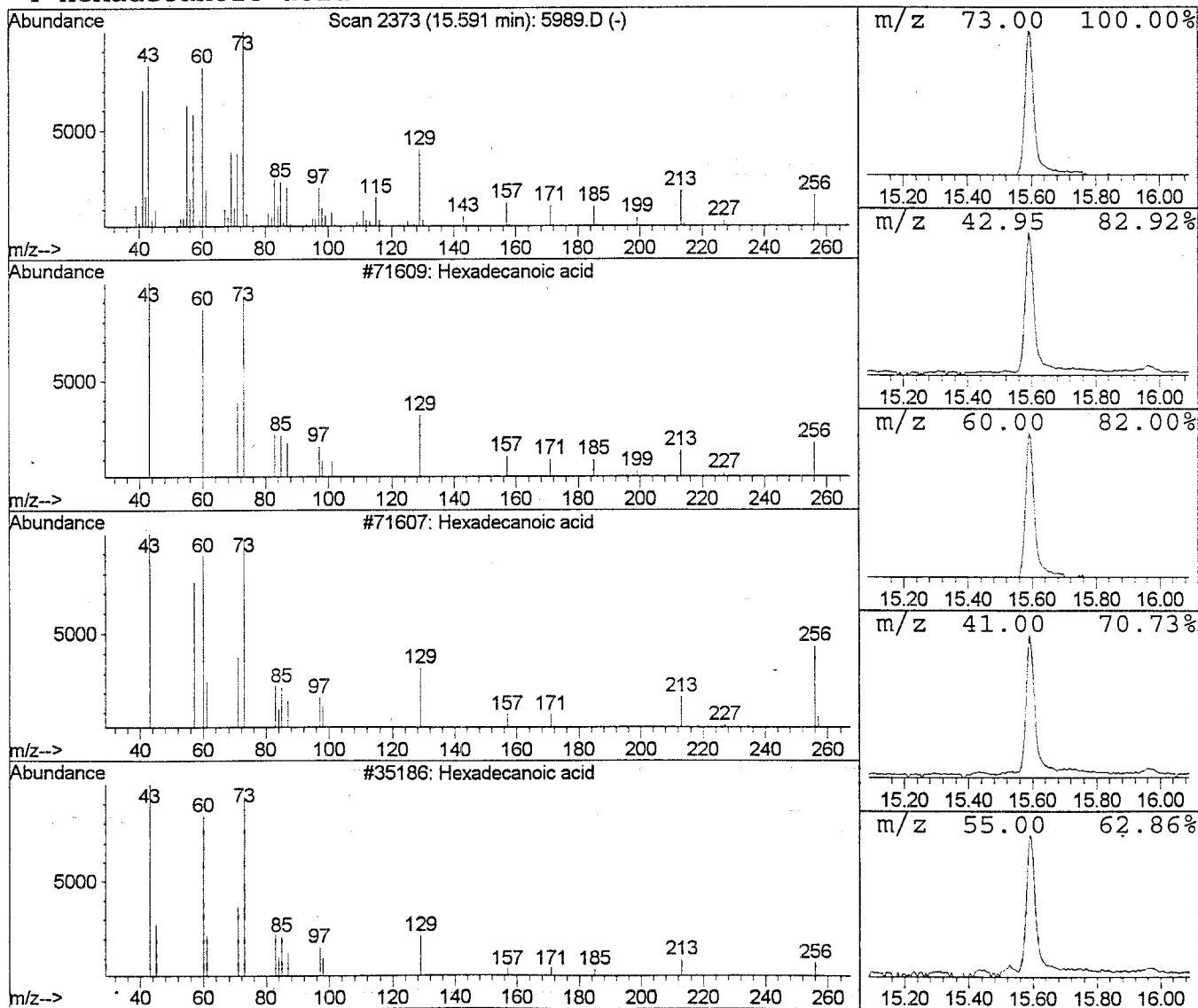
Vial: 12
Operator: MLS
Inst : HPMS 7
Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
Library : C:\DATABASE\NBS75K.L

Peak Number 3 Hexadecanoic acid Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.59	182.76 ug/L	699504	Phenanthrene-d10	14.43

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qua
1	5	Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2		Hexadecanoic acid	256	C16H32O2	000057-10-3	97
3		Hexadecanoic acid	256	C16H32O2	000057-10-3	95
4		Hexadecanoic acid	256	C16H32O2	000057-10-3	94



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\101698\5989.D

Acq On : 16 Oct 1998 18:06

Sample : 09-522-02 SOIL

Misc : SOIL

MS Integration Params: LSCINT.P

Vial: 12

Operator: MLS

Inst : HPMS 7

Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

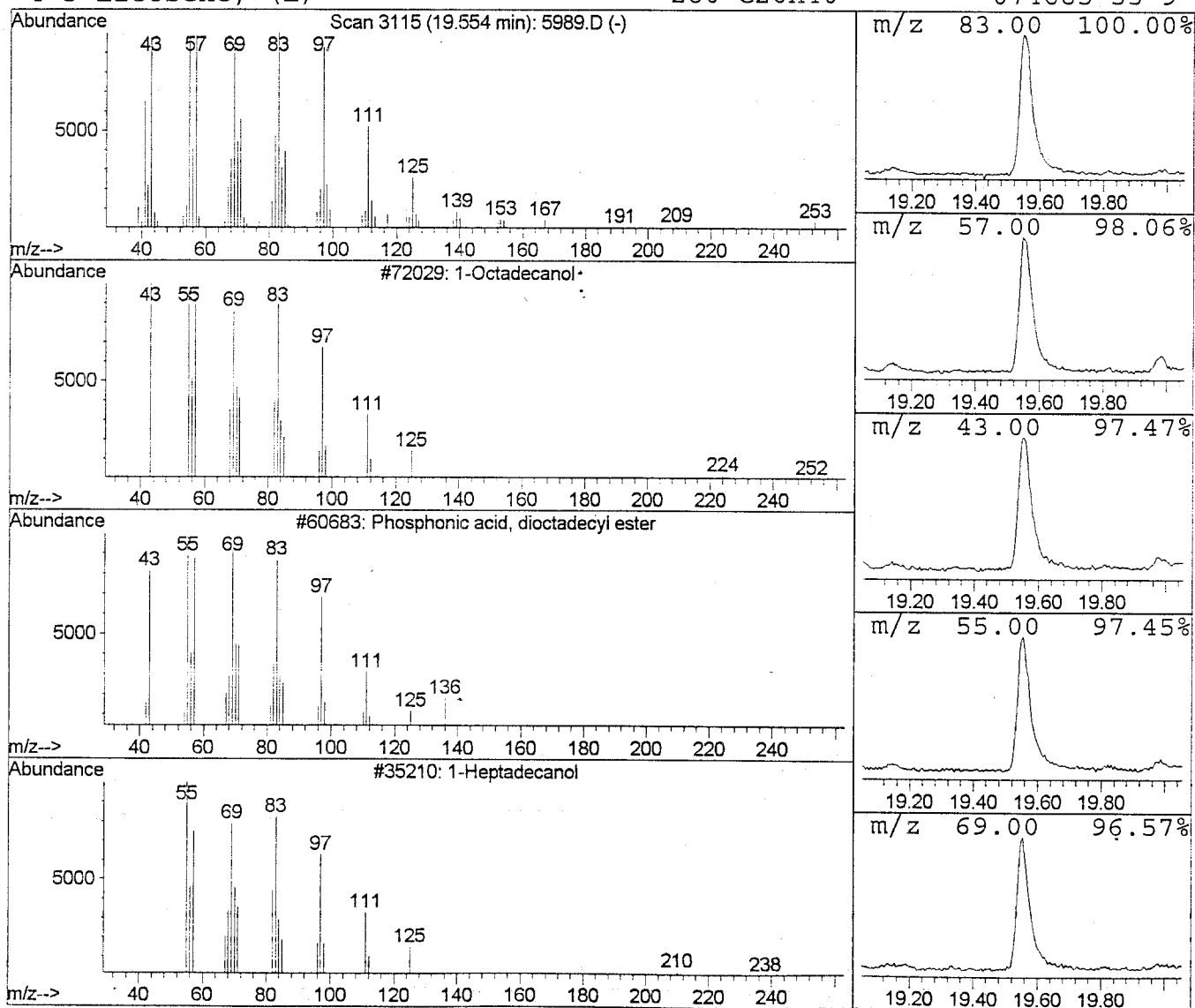
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Library : C:\DATABASE\NBS75K.L

Peak Number 4 1-Octadecanol Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.55	152.42 ug/L	654993	Chrysene-d12	19.83

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qua
1		1-Octadecanol	270	C18H38O	000112-92-5	91
2		Phosphonic acid, dioctadecyl ester	587	C36H75O3P	019047-85-9	91
3		1-Heptadecanol	256	C17H36O	001454-85-9	91
4		3-Eicosene, (E)-	280	C20H40	074685-33-9	90



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\101698\5989.D

Acq On : 16 Oct 1998 18:06

Sample : 09-522-02 SOIL

Misc : SOIL

MS Integration Params: LSCINT.P

Vial: 12

Operator: MLS

Inst : HPMS 7

Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

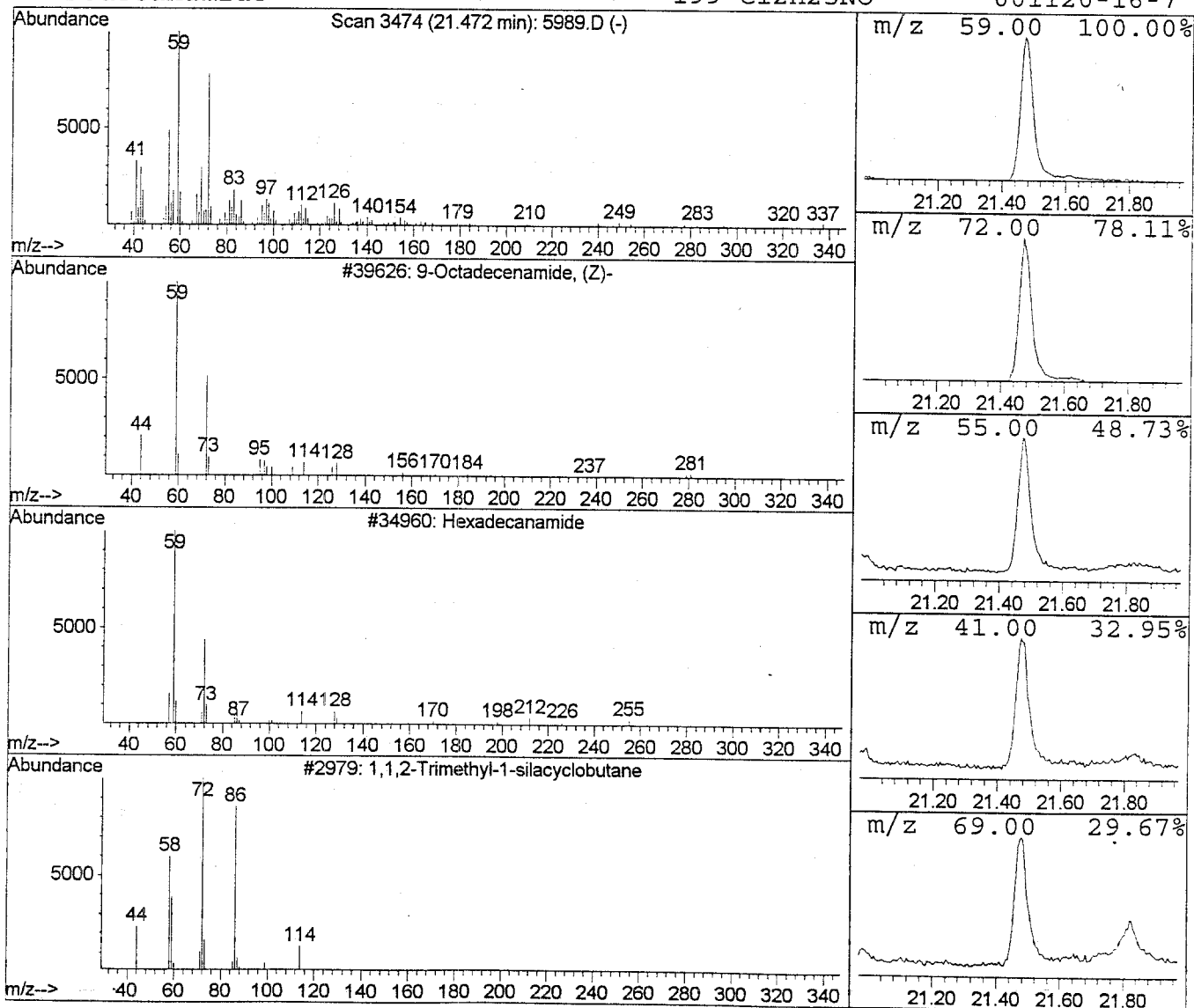
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Library : C:\DATABASE\NBS75K.L

Peak Number 5 9-Octadecenamide, (Z)- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.47	205.94 ug/L	873289	Perylene-d12	23.01

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qua
1		9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	58
2		Hexadecanamide	255	C16H33NO	000629-54-9	47
3		1,1,2-Trimethyl-1-silacyclobutane	114	C6H14Si	030681-90-4	43
4		Dodecanamide	199	C12H25NO	001120-16-7	38



Tentatively Identified Compound (LSC) summary

Operator ID: MLS Date Acquired: 16 Oct 1998 18:06
 Data File: C:\HPCHEM\1\DATA\101698\5989.D
 Name: 09-522-02 SOIL
 Misc: SOIL
 Method: C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
 Title: M8270/625 LIST INITIAL CALIBRATION 10/13/98
 Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISCon
Propane, 1-ethoxy-	4.04	187.3	ug/L	470765	ISTD01	6.34	3318340	40.
Ethane, 1,1,2,2-tetr	5.18	193.5	ug/L	486522	ISTD01	6.34	3318340	40.
Hexadecanoic acid	15.59	182.8	ug/L	699504	ISTD04	14.43	5052350	40.
1-Octadecanol	19.55	152.4	ug/L	654993	ISTD05	19.83	5672470	40.
9-Octadecenamide, (Z	21.47	205.9	ug/L	873289	ISTD06	23.01	5597590	40.

5989.D LANL.M Wed Oct 21 08:35:39 1998 HPMS7

Data File : C:\HPCHEM\1\DATA\101698\5990.D

Vial: 13

Acq On : 16 Oct 1998 18:44

Operator: MLS

Sample : 09-522-03 SOIL

Inst : HPMS 7

Misc : SOIL

Multiplr: 33.00

MS Integration Params: rteint.p

Quant Time: Oct 20 14:11 1998

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Sun Oct 18 11:51:56 1998

Response via : Initial Calibration

DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.34	152	528991	40.00	ug/L	0.00
19) Naphthalene-d8	8.28	136	1972629	40.00	ug/L	0.00
34) Acenaphthene-d10	11.51	164	1094041	40.00	ug/L	-0.01
56) Phenanthrene-d10	14.43	188	1856785	40.00	ug/L	-0.01
67) Chrysene-d12	19.83	240	1877076	40.00	ug/L	-0.02
76) Perylene-d12	23.01	264	1947810	40.00	ug/L	-0.02

System Monitoring Compounds

4) 2-Fluorophenol	4.75	112	1203535	59.19	ug/L	0.00
Spiked Amount	100.000	Range	25 - 121	Recovery	=	59.19%
6) Phenol-d5	5.88	99	1418065	63.48	ug/L	0.00
Spiked Amount	100.000	Range	24 - 113	Recovery	=	63.48%
20) Nitrobenzene-d5	7.14	82	636848	32.56	ug/L	0.00
Spiked Amount	50.000	Range	23 - 120	Recovery	=	65.12%
38) 2-Fluorobiphenyl	10.22	172	1307089	35.62	ug/L	-0.01
Spiked Amount	50.000	Range	30 - 115	Recovery	=	71.24%
55) 2,4,6-Tribromophenol	13.08	330	478756	79.20	ug/L	-0.01
Spiked Amount	100.000	Range	19 - 122	Recovery	=	79.20%
70) Terphenyl-d14	17.70	244	2228212	51.76	ug/L	0.00
Spiked Amount	50.000	Range	18 - 137	Recovery	=	103.52%

Target Compounds

Qvalue

2) Pyridine	0.00	79	0	N.D.		
3) n-Nitrosodimethylamine	0.00	74	0	N.D.		
5) Aniline	5.93	93	174	0.25	ug/L #	1
7) Phenol	5.89	94	2210	2.96	ug/L #	1
8) bis-(2-Chloroethyl)ether	5.93	93	174	0.31	ug/L #	1
9) 2-Chlorophenol	6.11	128	1788	2.95	ug/L #	86
10) 1,3-Dichlorobenzene	6.30	146	168	0.26	ug/L #	1
11) 1,4-Dichlorobenzene	6.36	146	1807	2.76	ug/L #	49
12) Benzyl Alcohol	0.00	108	0	N.D.		
13) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
14) 2-Methylphenol	0.00	107	0	N.D.		
15) Bis(2-chloroisopropyl)ethe	6.72	45	175	0.28	ug/L #	51
16) 4-Methylphenol	0.00	107	0	N.D.		
17) n-Nitroso-di-n-propylamine	0.00	70	0	N.D.		
18) Hexachloroethane	0.00	117	0	N.D.		
21) Nitrobenzene	7.15	77	2376	4.12	ug/L #	39
22) Isophorone	7.51	82	176	0.18	ug/L #	64
23) 2-Nitrophenol	0.00	139	0	N.D.		
24) 2,4-Dimethylphenol	0.00	122	0	N.D.		

(#)=qualifier out of range (m)=manual integration

5990.D LANL.M

Tue Oct 20 14:11:23 1998

HPMS7

Page 1

Data File : C:\HPCHEM\1\DATA\101698\5990.D

Vial: 13

Acq On : 16 Oct 1998 18:44

Operator: MLS

Sample : 09-522-03 SOIL

Inst : HPMS 7

Misc : SOIL

Multiplr: 33.00

MS Integration Params: rteint.p

Quant Time: Oct 20 14:11 1998

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Sun Oct 18 11:51:56 1998

Response via : Initial Calibration

DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25) bis(2-chloroethoxy)methane	0.00	93	0	N.D.		
26) Benzoic Acid	0.00	122	0	N.D.		
27) 2,4-Dichlorophenol	0.00	162	0	N.D.		
28) 1,2,4-Trichlorobenzene	8.20	180	199	0.38	ug/L #	1
29) Naphthalene	8.30	128	381	0.25	ug/L #	68
30) 4-Chloroaniline	0.00	127	0	N.D.		
31) Hexachlorobutadiene	0.00	225	0	N.D.		
32) 4-chloro-3methylphenol	0.00	107	0	N.D.		
33) 2-Methylnaphthalene	0.00	142	0	N.D.		
35) Hexachlorocyclopentadiene	0.00	237	0	N.D.		
36) 2,4,6-Trichlorophenol	0.00	196	0	N.D.		
37) 2,4,5-Trichlorophenol	0.00	196	0	N.D.		
39) 2-Chloronaphthalene	0.00	162	0	N.D.		
40) 2-Nitroaniline	0.00	65	0	N.D.		
41) Dimethylphthalate	0.00	163	0	N.D.		
42) Acenaphthylene	0.00	152	0	N.D.		
43) 2,6-Dinitrotoluene	11.20	165	178	0.69	ug/L #	19
44) 3-Nitroaniline	0.00	138	0	N.D.		
45) Acenaphthene	11.51	154	3508	3.74	ug/L #	7
46) 2,4-Dinitrophenol	0.00	184	0	N.D.		
47) 4-Nitrophenol	0.00	65	0	N.D.		
48) Dibenzofuran	0.00	168	0	N.D.		
49) 2,4-Dinitrotoluene	0.00	165	0	N.D.		
50) Diethylphthalate	12.44	149	4735	4.41	ug/L #	87
51) Fluorene	0.00	166	0	N.D.		
52) 4-Chlorophenyl-phenylether	0.00	204	0	N.D.		
53) 4-Nitroaniline	0.00	138	0	N.D.		
54) 1,2-Diphenylhydrazine	12.92	77	6392	5.85	ug/L #	37
57) 4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.		
58) n-Nitrosodiphenylamine	0.00	169	0	N.D.		
59) 4-Bromophenyl-phenyl ether	0.00	248	0	N.D.		
60) Hexachlorobenzene	0.00	284	0	N.D.		
61) Pentachlorophenol	0.00	266	0	N.D.		
62) Phenanthrene	14.47	178	606	0.37	ug/L #	1
63) Anthracene	0.00	178	0	N.D.		
64) Carbazole	14.92	167	981	0.78	ug/L #	63
65) Di-n-butylphthalate	15.72	149	28066	16.21	ug/L #	96
66) Fluoranthene	16.91	202	644	0.36	ug/L #	62
68) Benzidine	0.00	184	0	N.D.		
69) Pyrene	17.35	202	703	0.37	ug/L #	56
71) Butylbenzylphthalate	18.76	149	6112	7.48	ug/L #	1

(#)=qualifier out of range (m)=manual integration

5990.D LANL.M

Tue Oct 20 14:11:24 1998

HPMS7

Page 2

Data File : C:\HPCHEM\1\DATA\101698\5990.D

Acq On : 16 Oct 1998 18:44

Sample : 09-522-03 SOIL

Misc : SOIL

MS Integration Params: rteint.p

Quant Time: Oct 20 14:11 1998

Vial: 13

Operator: MLS

Inst : HPMS 7

Multiplr: 33.00

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Sun Oct 18 11:51:56 1998

Response via : Initial Calibration

DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
72) Benzo(a)anthracene	19.83	228	6177	3.31	ug/L #	60
73) 3,3'-Dichlorobenzidine	0.00	252	0	N.D.		
74) Chrysene	19.87	228	836	0.65	ug/L #	50
75) Bis(2-ethylhexyl)phthalate	19.98	149	214225	184.49	ug/L	99
77) Di-n-octylphthalate	21.17	149	2625	1.24	ug/L #	67
78) Benzo(b)fluoranthene	22.04	252	679	0.33	ug/L #	12
79) Benzo(k)fluoranthene	22.09	252	209	0.11	ug/L #	1
80) Benzo(a)pyrene	0.00	252	0	N.D.		
81) Indeno(1,2,3-cd)pyrene	26.58	276	179	0.09	ug/L #	45
82) Dibenz(a,h)anthracene	0.00	278	0	N.D.		
83) Benzo(g,h,i)perylene	0.00	276	0	N.D.		

(#) = qualifier out of range (m) = manual integration

5990.D LANL.M

Tue Oct 20 14:11:25 1998

HPMS7

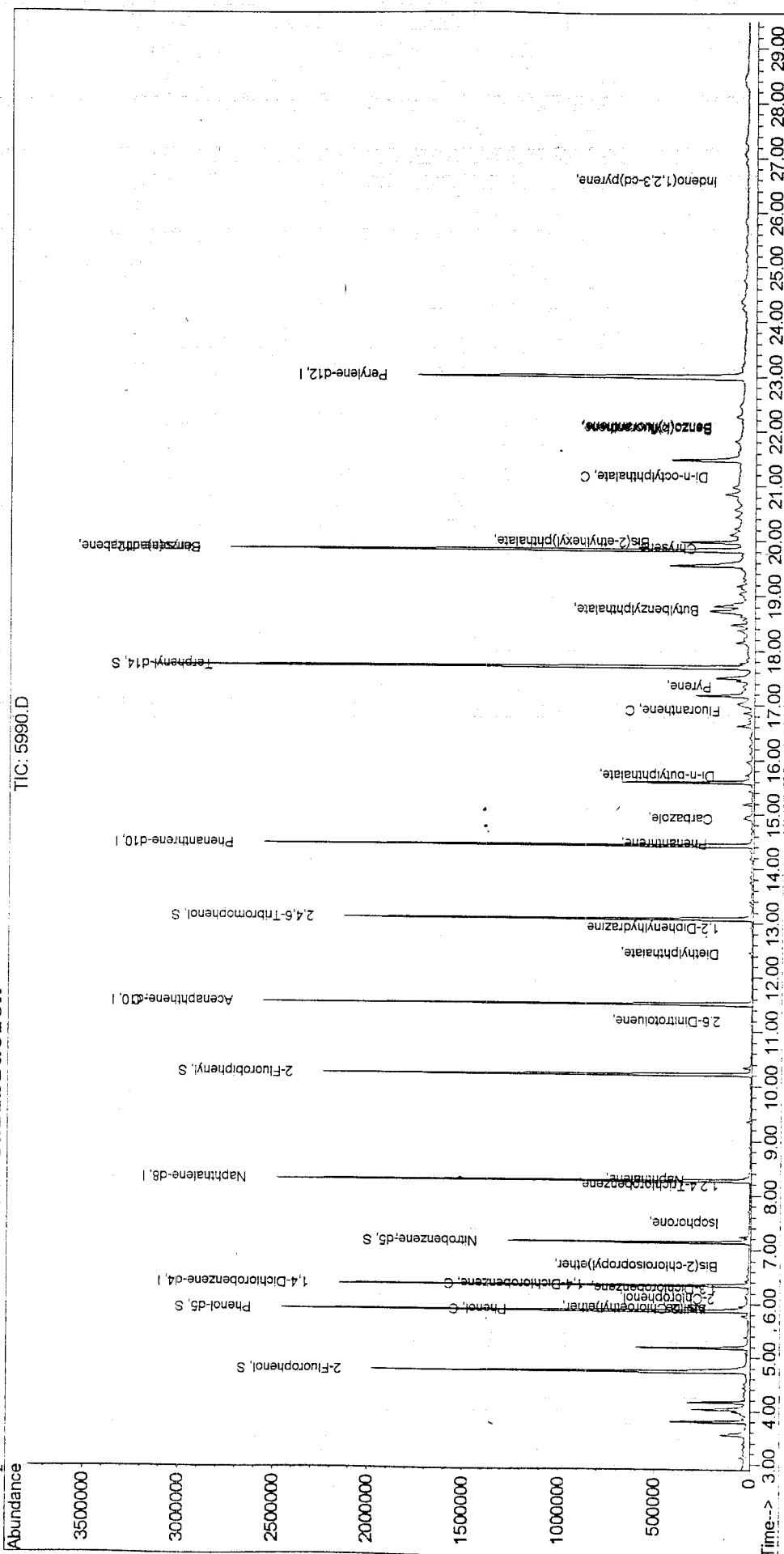
Page 3

Quantitation Report

Data File : C:\HPCHEM\1\DATA\101698\5990.D
 Acq On : 16 Oct 1998 18:44
 Sample : 09-522-03 SOIL
 Misc : SOIL
 MS Integration Params: rteint.p
 Quant Time: Oct 20 14:11 1998

Vial: 13
 Operator: MLS
 Inst : HPMS 7
 Multiplr: 33.00
 Quant Results File: LANL.RES

Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
 Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
 Last Update : Sun Oct 18 11:51:56 1998
 Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\101698\5990.D
 Acq On : 16 Oct 1998 18:44
 Sample : 09-522-03 SOIL
 Misc : SOIL
 MS Integration Params: LSCINT.P

Vial: 13
 Operator: MLS
 Inst : HPMS 7
 Multiplr: 33.00

Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
 Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
 Smoothing : OFF Filtering: 5
 Sampling : 1 Min Area: 1 % of largest Peak
 Start Thrs: 0.2 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

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

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	3.550	113	122	144	rVB4	136871	467393	7.51%	0.742%
2	3.799	160	168	177	rBV	399205	747252	12.01%	1.187%
3	3.983	197	202	205	rVV	76154	144647	2.32%	0.230%
4	4.035	205	210	228	rVV	286964	671602	10.79%	1.067%
5	4.164	228	234	245	rVB	302425	499511	8.03%	0.793%
6	4.746	332	343	363	rBV	1956449	3908250	62.79%	6.207%
7	5.189	419	426	443	rVB	579345	981458	15.77%	1.559%
8	5.782	527	537	544	rBV4	36573	69662	1.12%	0.111%
9	5.878	549	555	568	rBV	2440371	3718091	59.74%	5.905%
10	5.964	568	571	582	rVB6	45054	76210	1.22%	0.121%
11	6.343	636	642	653	rBV	2139194	3177459	51.05%	5.046%
12	7.144	786	792	805	rBV	1254204	1887830	30.33%	2.998%
13	7.241	805	810	816	rVB	48539	72426	1.16%	0.115%
14	8.277	995	1004	1011	rBV	2477561	3961696	63.65%	6.292%
15	10.216	1359	1367	1385	rBV	2239553	3878879	62.32%	6.160%
16	11.514	1598	1610	1631	rBV	2558374	4507290	72.42%	7.158%
17	13.085	1895	1904	1925	rBV	2130966	3986275	64.04%	6.331%
18	14.431	2146	2156	2169	rBV2	2559199	4898039	78.69%	7.779%
19	14.928	2240	2249	2252	rBV3	43693	94933	1.53%	0.151%
20	15.190	2291	2298	2305	rVB	50912	91500	1.47%	0.145%
21	15.596	2366	2374	2391	rBV	680349	1348900	21.67%	2.142%
22	15.964	2439	2443	2454	rVB6	33498	76839	1.23%	0.122%
23	16.621	2558	2566	2578	rBV3	78439	202013	3.25%	0.321%
24	16.867	2605	2612	2618	rBV5	45073	86824	1.39%	0.138%
25	17.011	2628	2639	2640	rBV7	59666	143970	2.31%	0.229%
26	17.027	2640	2642	2661	rVB9	63429	185985	2.99%	0.295%
27	17.182	2661	2671	2682	rBV4	277298	717434	11.53%	1.139%
28	17.444	2714	2720	2724	rBV3	65822	131430	2.11%	0.209%
29	17.503	2725	2731	2751	rVB3	178722	528029	8.48%	0.839%
30	17.701	2757	2768	2777	rBV	3125135	6224181	100.00%	9.885%
31	17.770	2777	2781	2788	rVB5	46870	86750	1.39%	0.138%

32	18.149	2847	2852	2859	rBV7	51860	98130	1.58%	0.156%
33	18.374	2889	2894	2902	rVB10	51813	100996	1.62%	0.160%
34	18.475	2902	2913	2920	rBV2	88961	207926	3.34%	0.330%
35	18.630	2936	2942	2946	rBV5	36543	73143	1.18%	0.116%
36	18.732	2948	2961	2971	rVV7	165141	577356	9.28%	0.917%
37	18.817	2971	2977	2982	rBV	123461	236644	3.80%	0.376%
38	19.047	3018	3020	3029	rVB5	37254	65848	1.06%	0.105%
39	19.186	3043	3046	3054	rVB2	54025	99218	1.59%	0.158%
40	19.554	3107	3115	3135	rBV2	377199	1177827	18.92%	1.871%
41	19.832	3157	3167	3182	rBV2	2688270	5540320	89.01%	8.799%
42	19.982	3187	3195	3203	rVV	307049	679390	10.92%	1.079%
43	20.852	3352	3358	3370	rVB5	76345	215935	3.47%	0.343%
44	21.477	3466	3475	3492	rBV2	352324	1011407	16.25%	1.606%
45	23.005	3747	3761	3776	rBV2	1698315	5307854	85.28%	8.430%

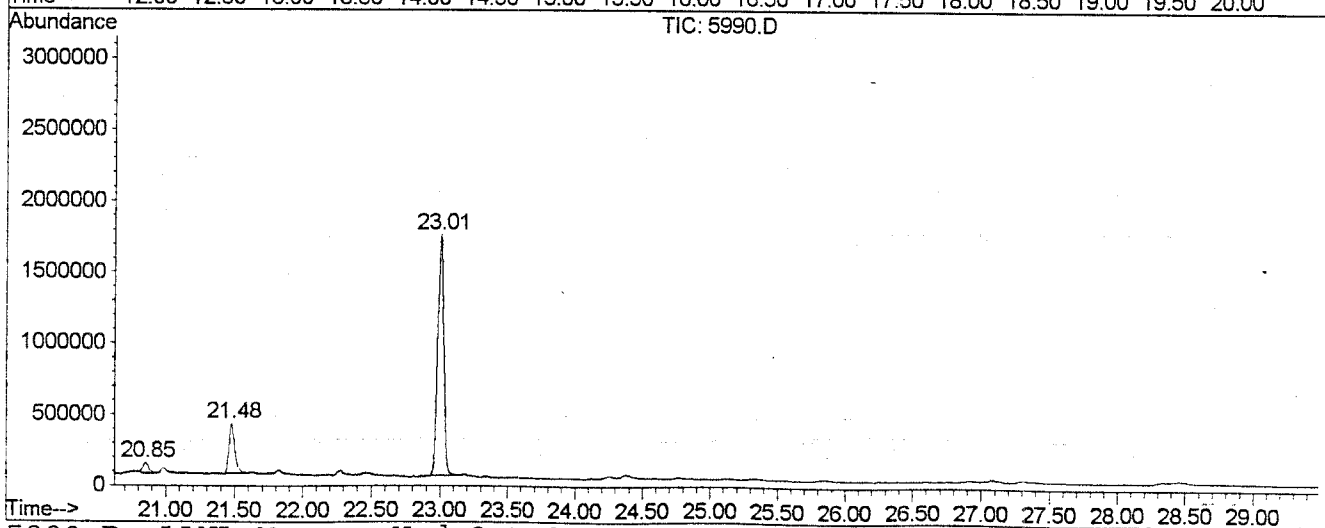
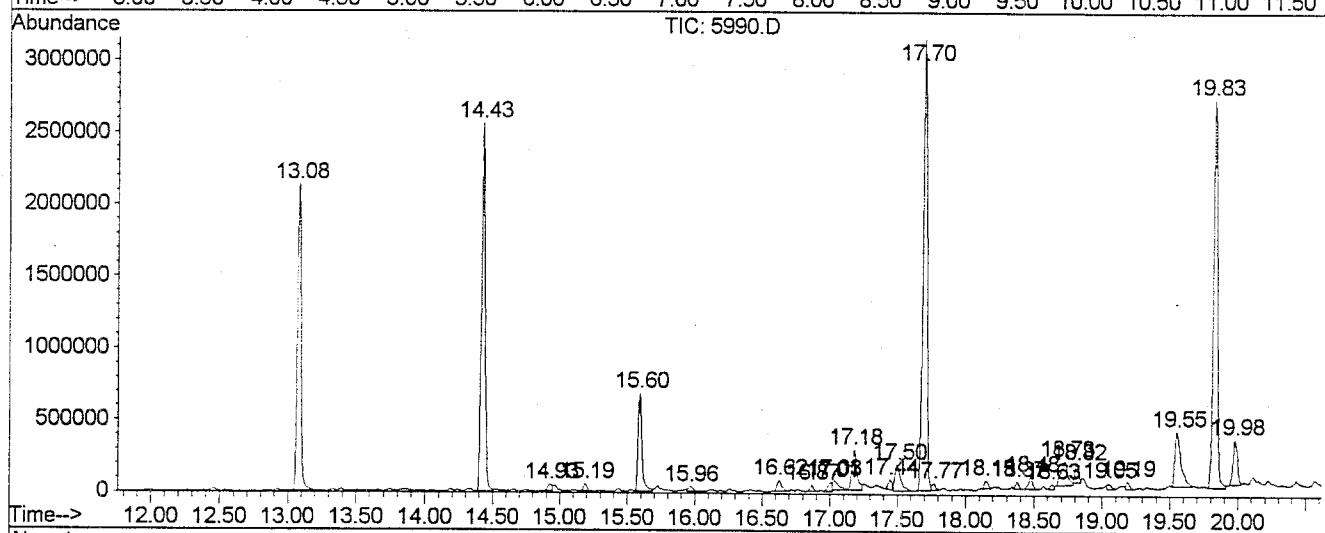
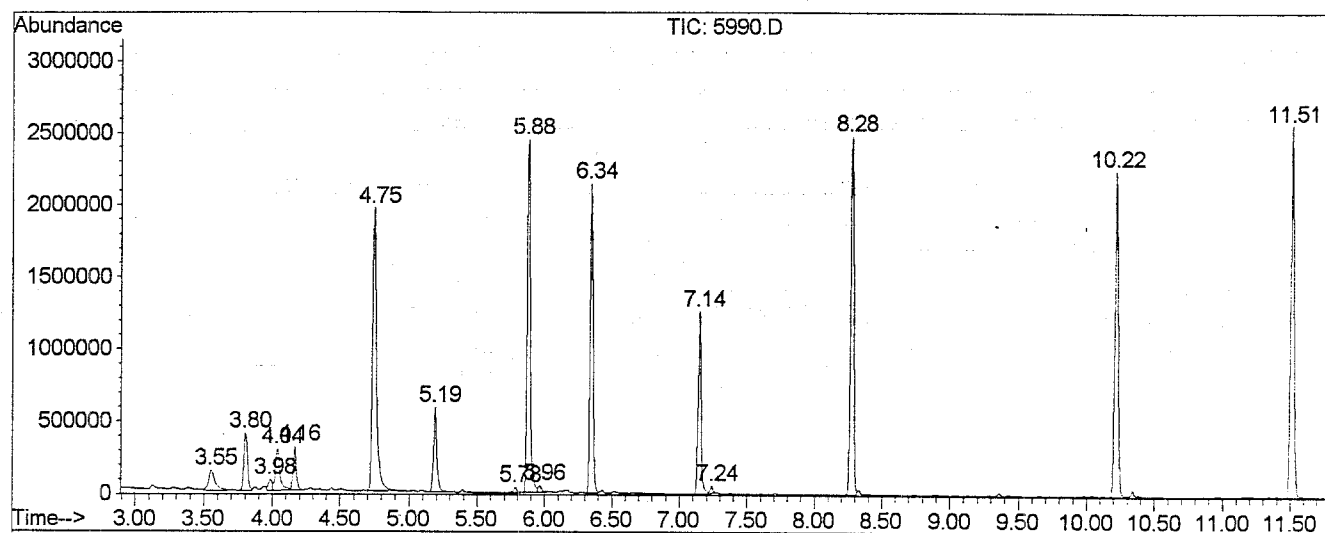
Sum of corrected areas: 62964752

5990.D LANL.M

Wed Oct 21 08:36:25 1998 HPMS7

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\101698\5990.D
 Operator : MLS
 Acquired : 16 Oct 1998 18:44 using AcqMethod BNA
 Instrument : HPMS 7
 Sample Name: 09-522-03 SOIL
 Misc Info : SOIL
 Vial Number: 13
 Quant File :LANL.RES (RTE Integrator)



5990.D

LANL.M

Wed Oct 21 08:36:26 1998

HPMS7

225

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\101698\5990.D
Acq On : 16 Oct 1998 18:44
Sample : 09-522-03 SOIL
Misc : SOIL
MS Integration Params: LSCINT.P

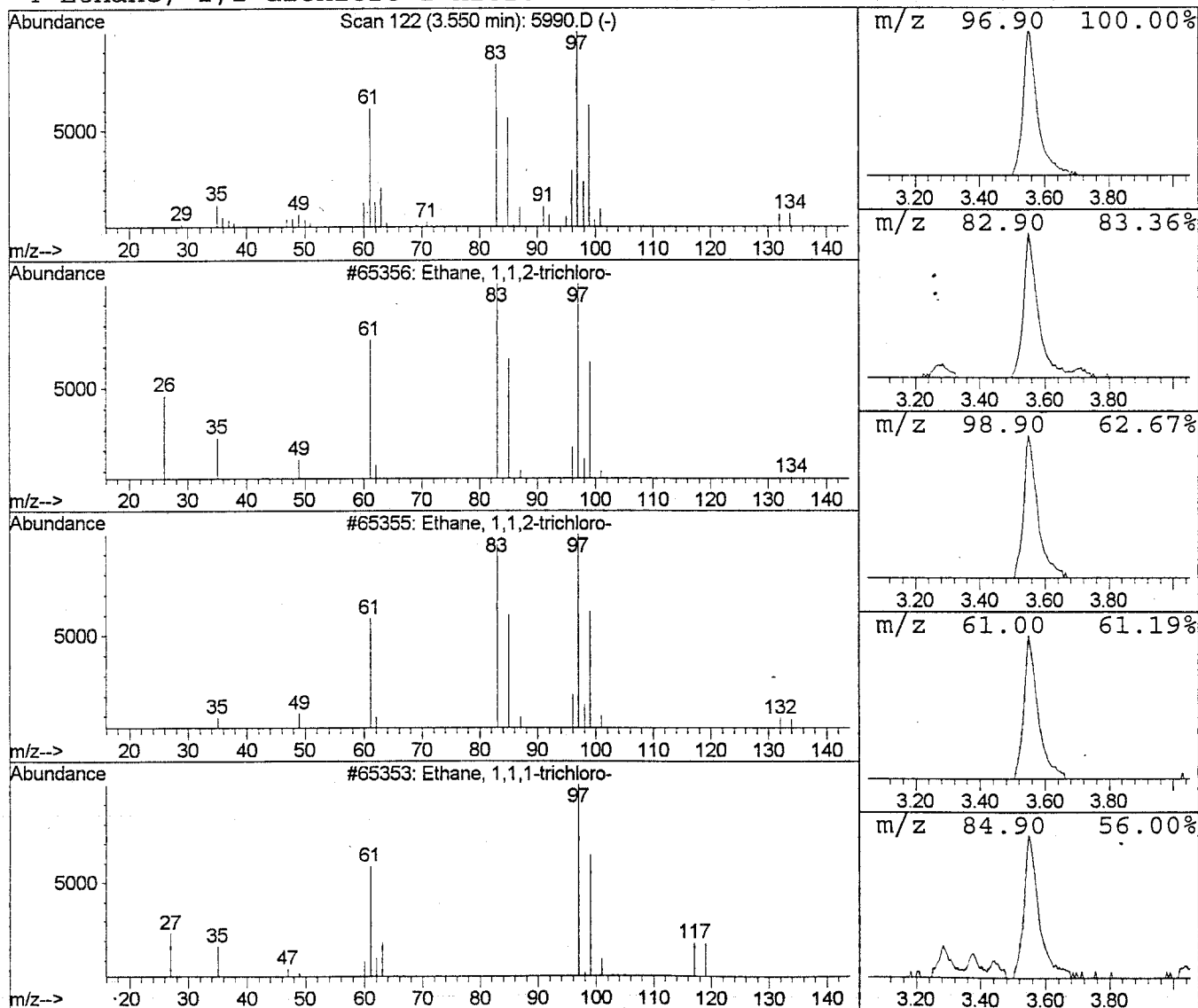
Vial: 13
Operator: MLS
Inst : HPMS 7
Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
Library : C:\DATABASE\NBS75K.L

Peak Number 1 Ethane, 1,1,2-trichloro- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.55	194.17 ug/L	467393	1,4-Dichlorobenzene-d4	6.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qua
1	Ethane, 1,1,2-trichloro-	132	C2H3Cl3	000079-00-5	94
2	Ethane, 1,1,2-trichloro-	132	C2H3Cl3	000079-00-5	70
3	Ethane, 1,1,1-trichloro-	132	C2H3Cl3	000071-55-6	43
4	Ethane, 1,1-dichloro-1-nitro-	143	C2H3Cl2NO2	000594-72-9	43



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\101698\5990.D

Acq On : 16 Oct 1998 18:44

Sample : 09-522-03 SOIL

Misc : SOIL

MS Integration Params: LSCINT.P

Vial: 13

Operator: MLS

Inst : HPMS 7

Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

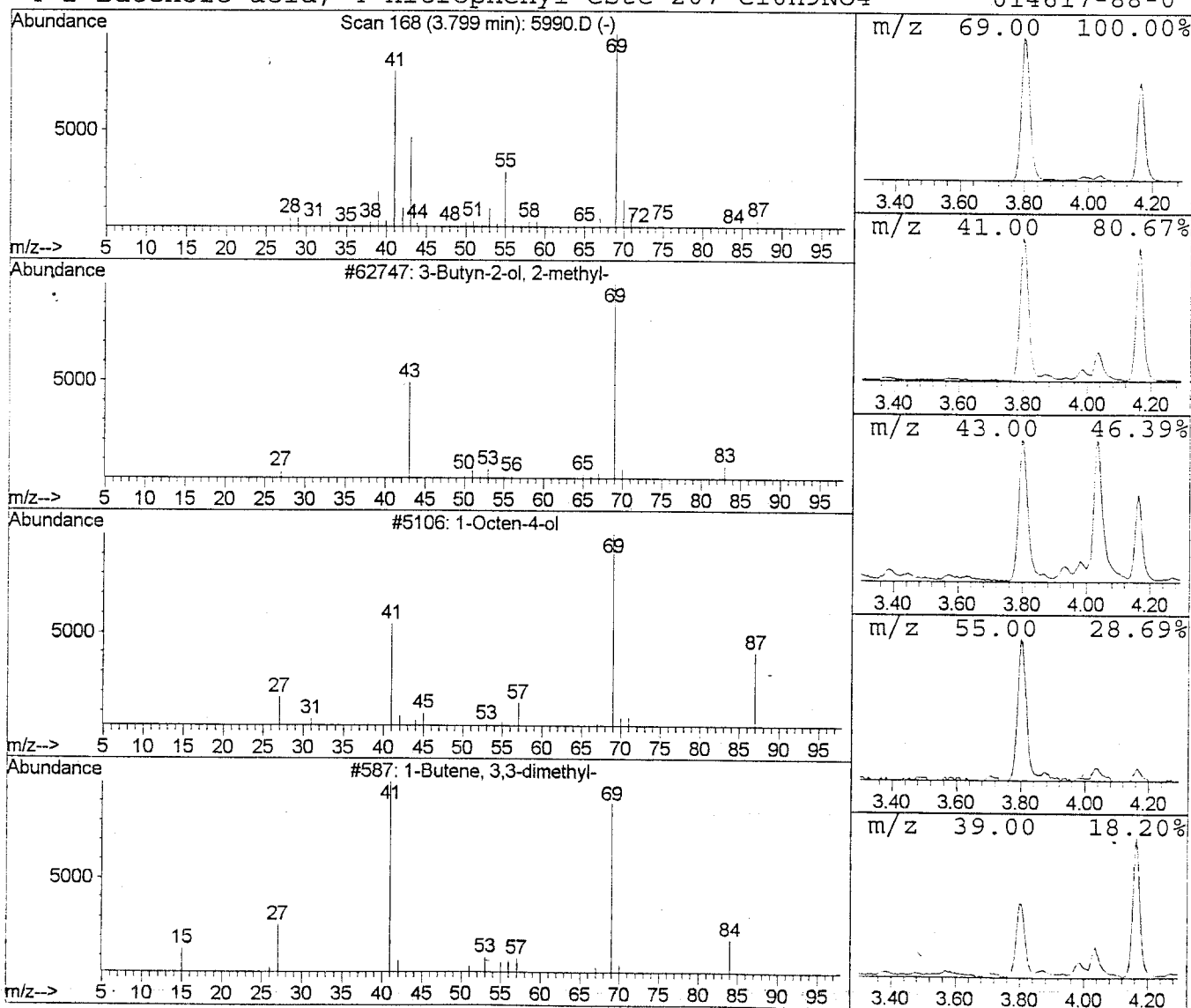
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Library : C:\DATABASE\NBS75K.L

Peak Number 2 3-Butyn-2-ol, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.80	310.43 ug/L	747252	1,4-Dichlorobenzene-d4	6.34

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qua
1			3-Butyn-2-ol, 2-methyl-	84	C5H8O	000115-19-5	47
2			1-Octen-4-ol	128	C8H16O	040575-42-6	40
3			1-Butene, 3,3-dimethyl-	84	C6H12	000558-37-2	40
4			2-Butenoic acid, 4-nitrophenyl este	207	C10H9NO4	014617-88-0	39



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Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\101698\5990.D

Acq On : 16 Oct 1998 18:44

Sample : 09-522-03 SOIL

Misc : SOIL

MS Integration Params: LSCINT.P

Vial: 13

Operator: MLS

Inst : HPMS 7

Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

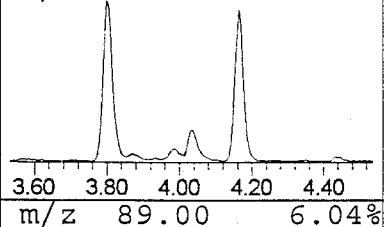
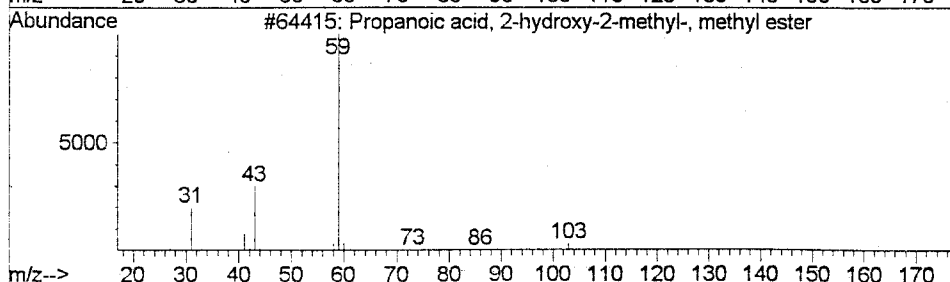
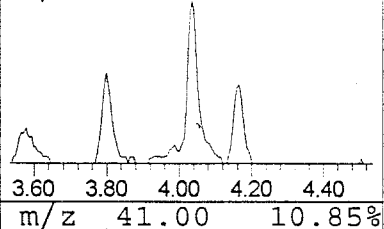
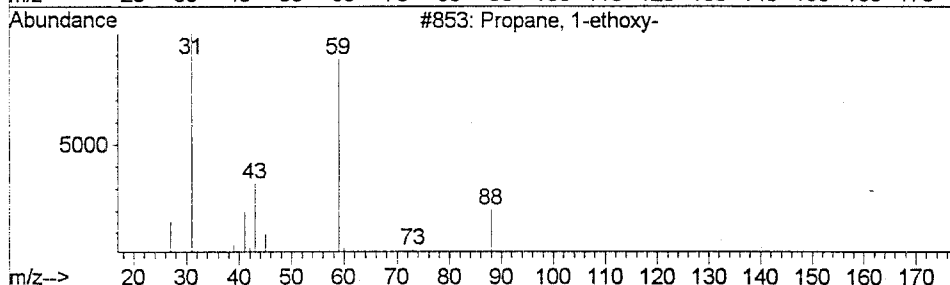
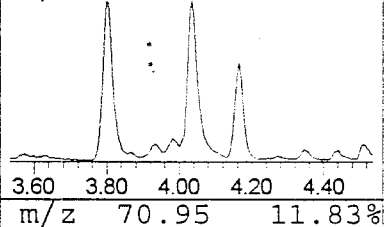
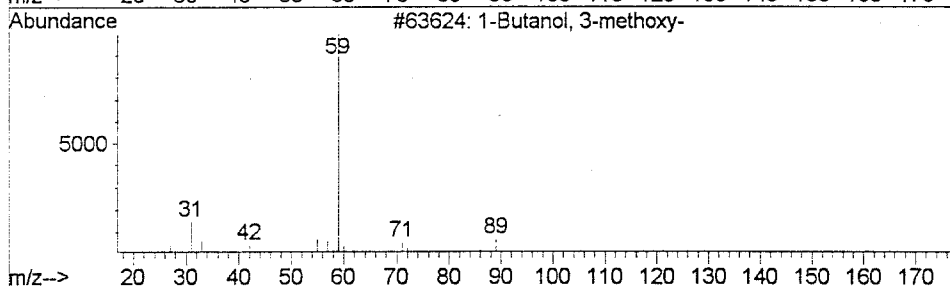
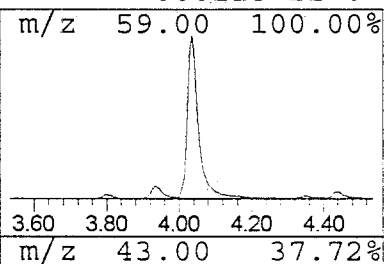
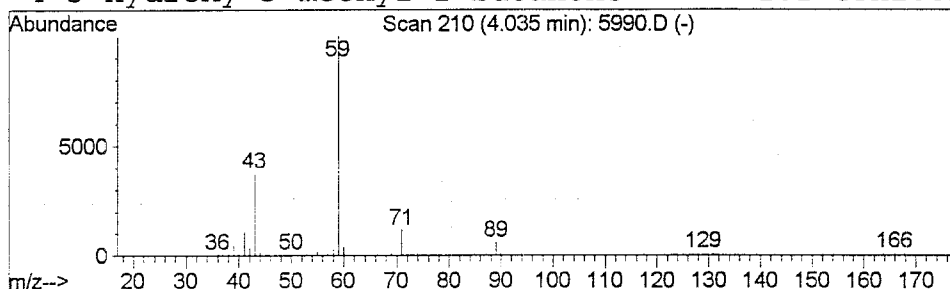
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Library : C:\DATABASE\NBS75K.L

Peak Number 3 1-Butanol, 3-methoxy- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.04	279.00 ug/L	671602	1,4-Dichlorobenzene-d4	6.34

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qua
1	5	1-Butanol, 3-methoxy-	104	C5H12O2	002517-43-3	40
2		Propane, 1-ethoxy-	88	C5H12O	000628-32-0	38
3		Propanoic acid, 2-hydroxy-2-methyl-	118	C5H10O3	002110-78-3	38
4		3-Hydroxy-3-methyl-2-butanone	102	C5H10O2	000115-22-0	38



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Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\101698\5990.D

Acq On : 16 Oct 1998 18:44

Sample : 09-522-03 SOIL

Misc : SOIL

MS Integration Params: LSCINT.P

Vial: 13

Operator: MLS

Inst : HPMS 7

Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

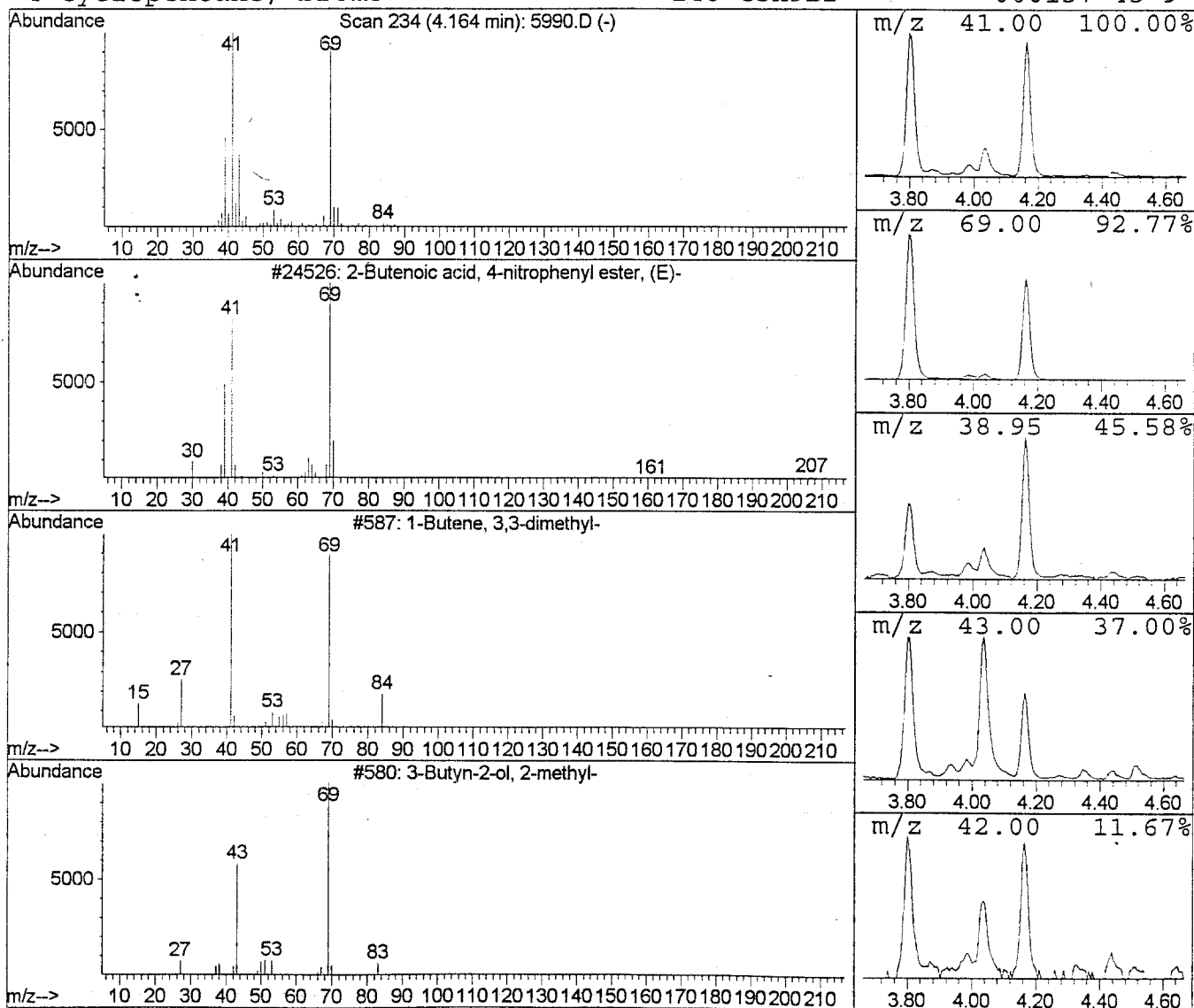
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Library : C:\DATABASE\NBS75K.L

Peak Number 4 2-Butenoic acid, 4-nitrophenyl Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.16	207.51 ug/L	499511	1,4-Dichlorobenzene-d4	6.34

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qua
1		2-Butenoic acid, 4-nitrophenyl este	207	C10H9NO4	014617-88-0	39
2		1-Butene, 3,3-dimethyl-	84	C6H12	000558-37-2	33
3		3-Butyn-2-ol, 2-methyl-	84	C5H8O	000115-19-5	32
4		Cyclopentane, bromo-	148	C5H9Br	000137-43-9	28



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\101698\5990.D

Acq On : 16 Oct 1998 18:44

Sample : 09-522-03 SOIL

Misc : SOIL

MS Integration Params: LSCINT.P

Vial: 13

Operator: MLS

Inst : HPMS 7

Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

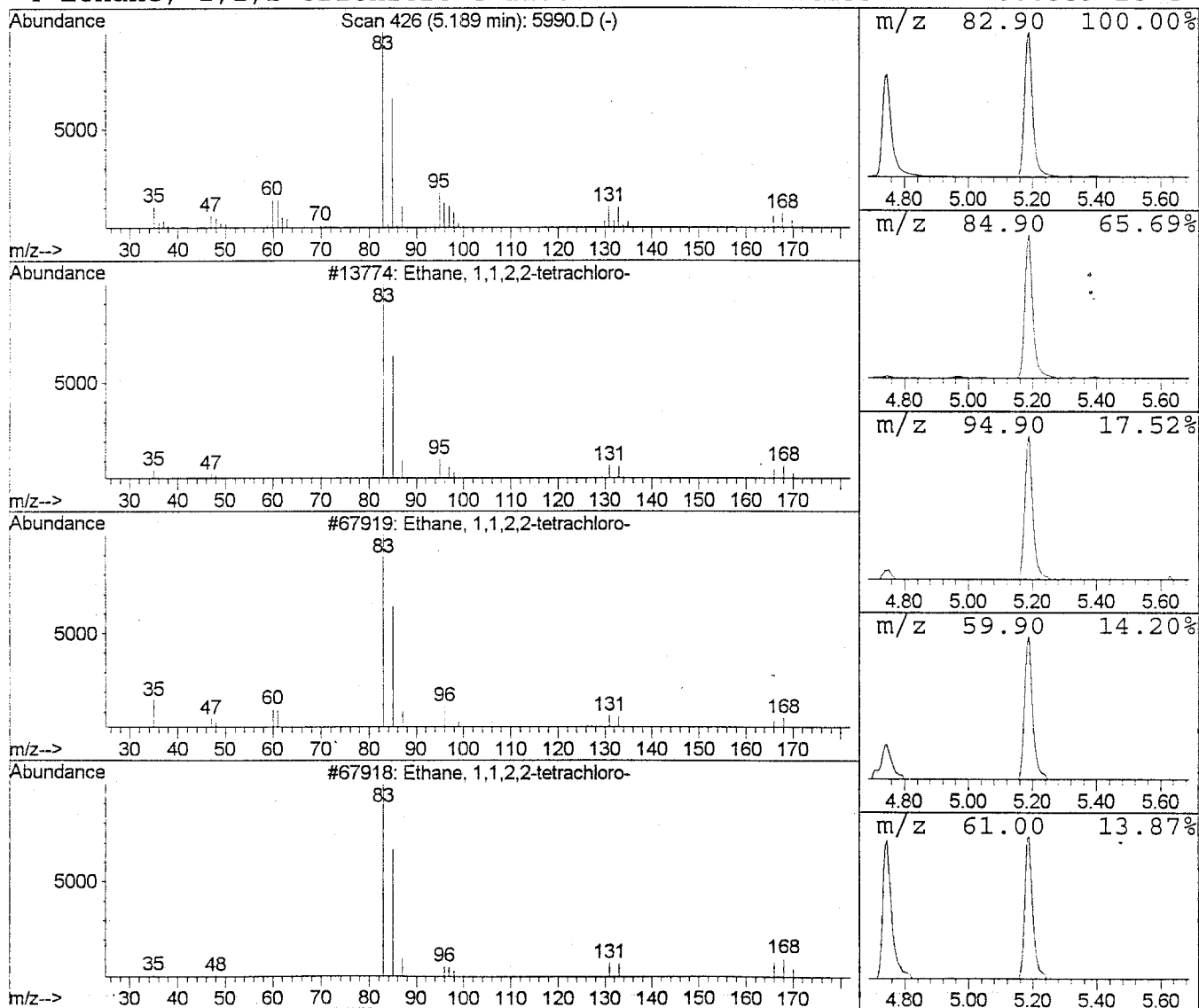
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Library : C:\DATABASE\NBS75K.L

Peak Number 5 Ethane, 1,1,2,2-tetrachloro- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.19	407.72 ug/L	981458	1,4-Dichlorobenzene-d4	6.34

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qua
1	5	Ethane, 1,1,2,2-tetrachloro-	166	C2H2Cl4	000079-34-5	97
2		Ethane, 1,1,2,2-tetrachloro-	166	C2H2Cl4	000079-34-5	93
3		Ethane, 1,1,2,2-tetrachloro-	166	C2H2Cl4	000079-34-5	72
4		Ethane, 1,1,2-trichloro-2-fluoro-	150	C2H2Cl3F	000359-28-4	64



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\101698\5990.D

Acq On : 16 Oct 1998 18:44

Sample : 09-522-03 SOIL

Misc : SOIL

MS Integration Params: LSCINT.P

Vial: 13

Operator: MLS

Inst : HPMS 7

Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

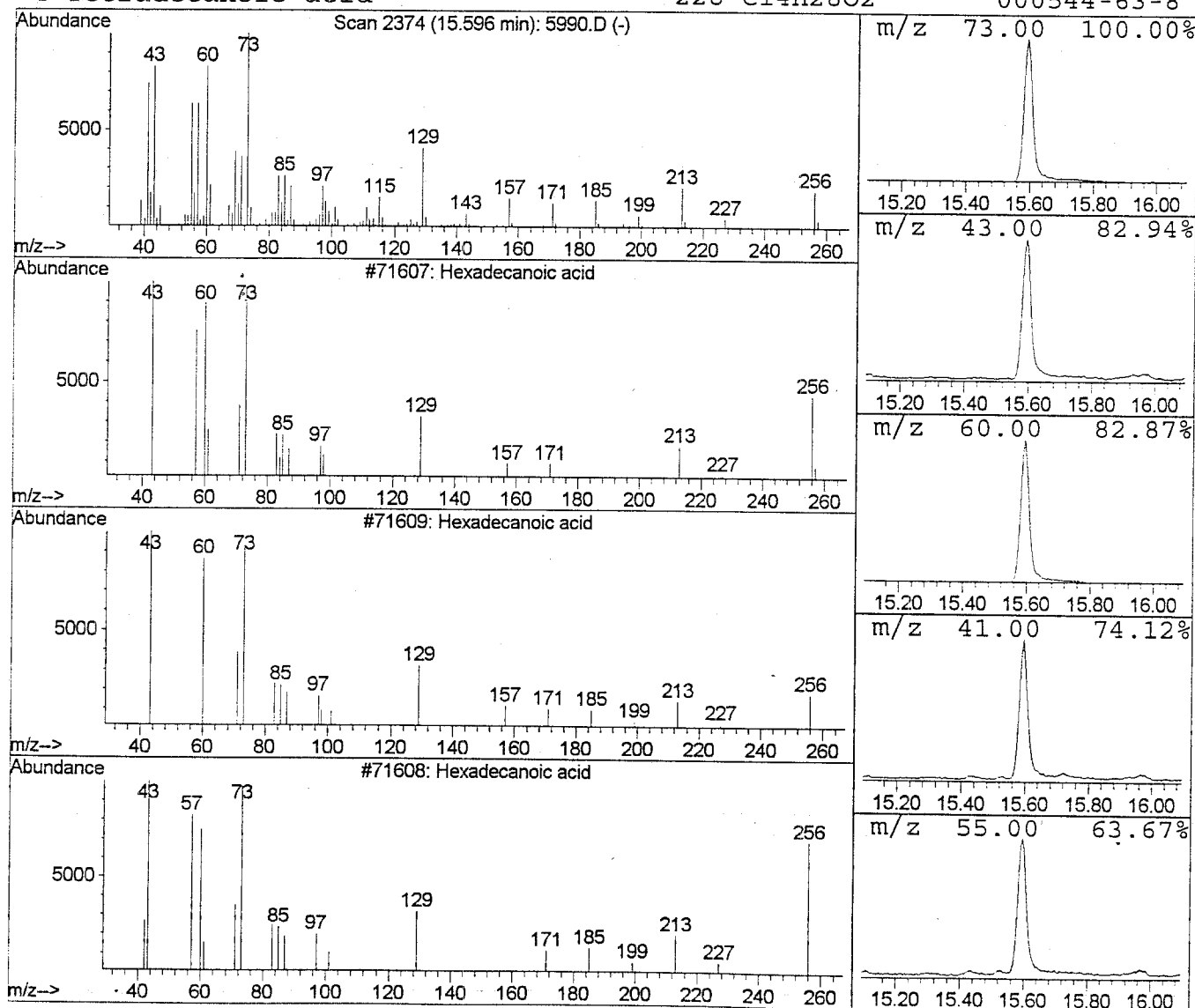
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Library : C:\DATABASE\NBS75K.L

Peak Number 6 Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.60	363.52 ug/L	1348900	Phenanthrene-d10	14.43

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qua
1			Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2			Hexadecanoic acid	256	C16H32O2	000057-10-3	99
3			Hexadecanoic acid	256	C16H32O2	000057-10-3	98
4			Tetradecanoic acid	228	C14H28O2	000544-63-8	96



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\101698\5990.D
Acq On : 16 Oct 1998 18:44
Sample : 09-522-03 SOIL
Misc : SOIL
MS Integration Params: LSCINT.P

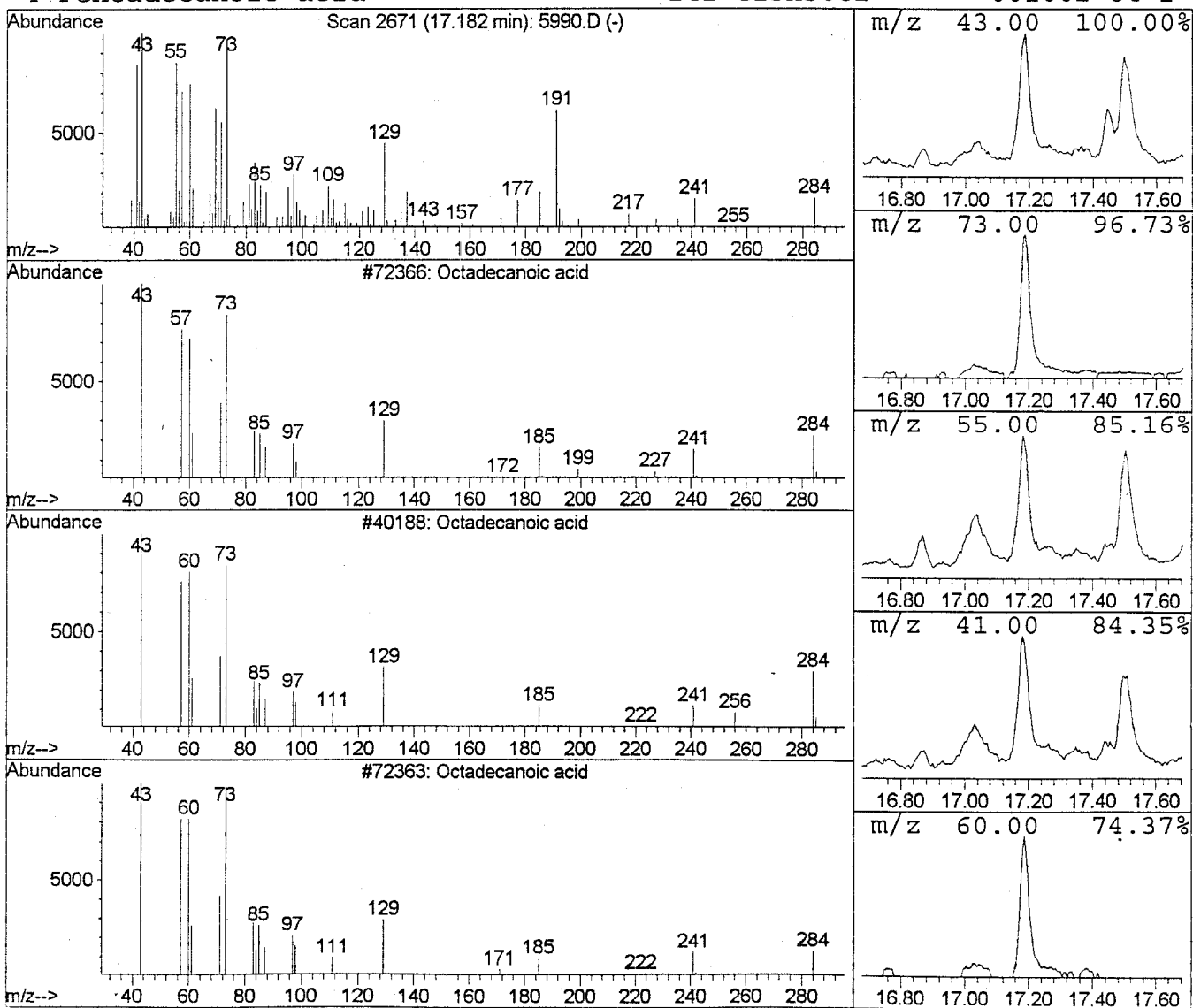
Vial: 13
Operator: MLS
Inst : HPMS 7
Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
Library : C:\DATABASE\NBS75K.L

Peak Number 7 Octadecanoic acid Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.18	170.93 ug/L	717434	Chrysene-d12	19.83

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qua
1			Octadecanoic acid	284	C18H36O2	000057-11-4	97
2			Octadecanoic acid	284	C18H36O2	000057-11-4	95
3			Octadecanoic acid	284	C18H36O2	000057-11-4	86
4			Pentadecanoic acid	242	C15H30O2	001002-84-2	64



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\101698\5990.D
Acq On : 16 Oct 1998 18:44
Sample : 09-522-03 SOIL
Misc : SOIL
MS Integration Params: LSCINT.P

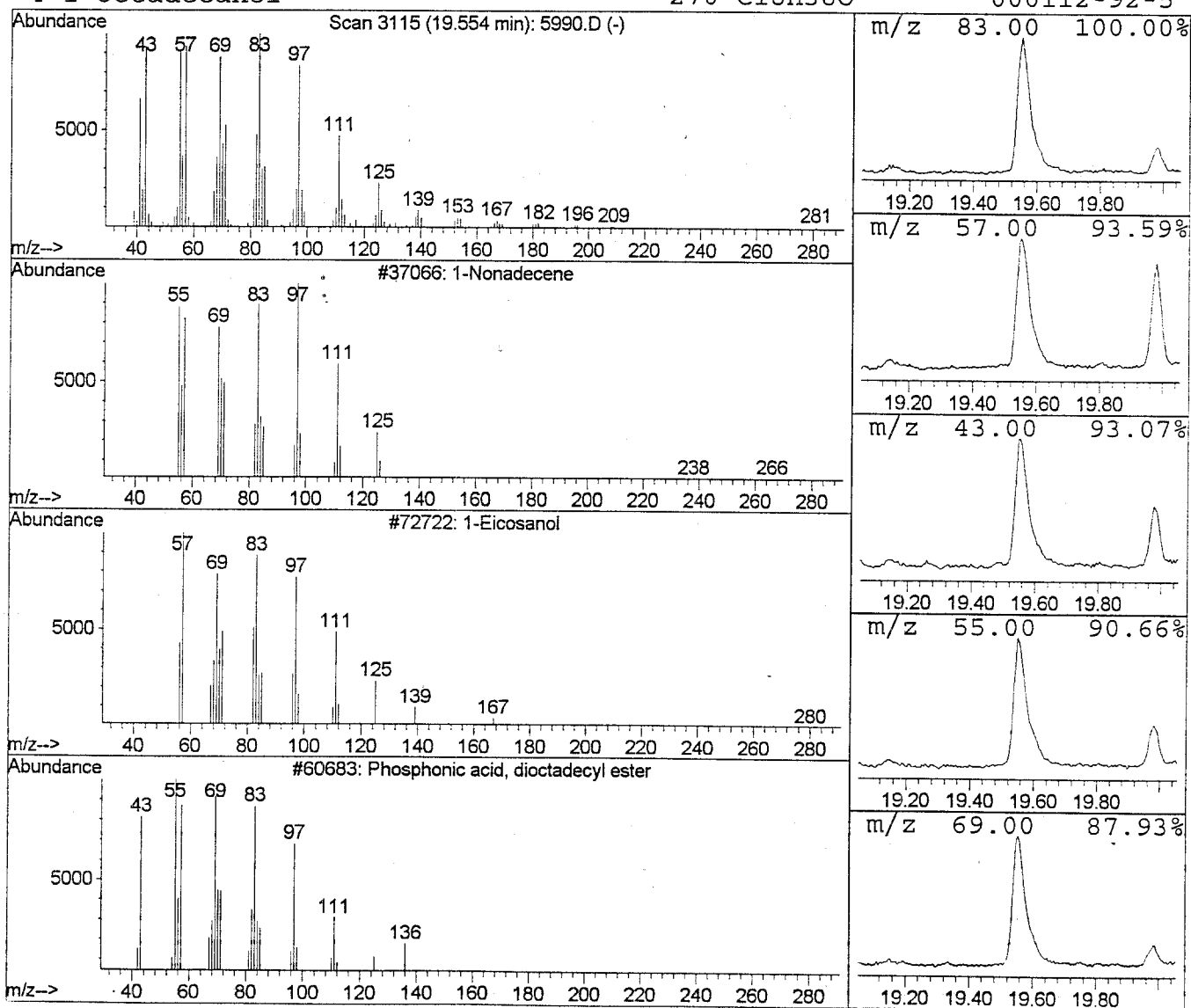
Vial: 13
Operator: MLS
Inst : HPMS 7
Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
Library : C:\DATABASE\NBS75K.L

Peak Number 8 1-Nonadecene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.55	280.62 ug/L	1177830	Chrysene-d12	19.83

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qua
1	1-Nonadecene		266	C19H38	018435-45-5	95
2	1-Eicosanol		298	C20H42O	000629-96-9	94
3	Phosphonic acid, dioctadecyl ester		587	C36H75O3P	019047-85-9	93
4	1-Octadecanol		270	C18H38O	000112-92-5	91



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Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\101698\5990.D

Acq On : 16 Oct 1998 18:44

Sample : 09-522-03 SOIL

Misc : SOIL

MS Integration Params: LSCINT.P

Vial: 13

Operator: MLS

Inst : HPMS 7

Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

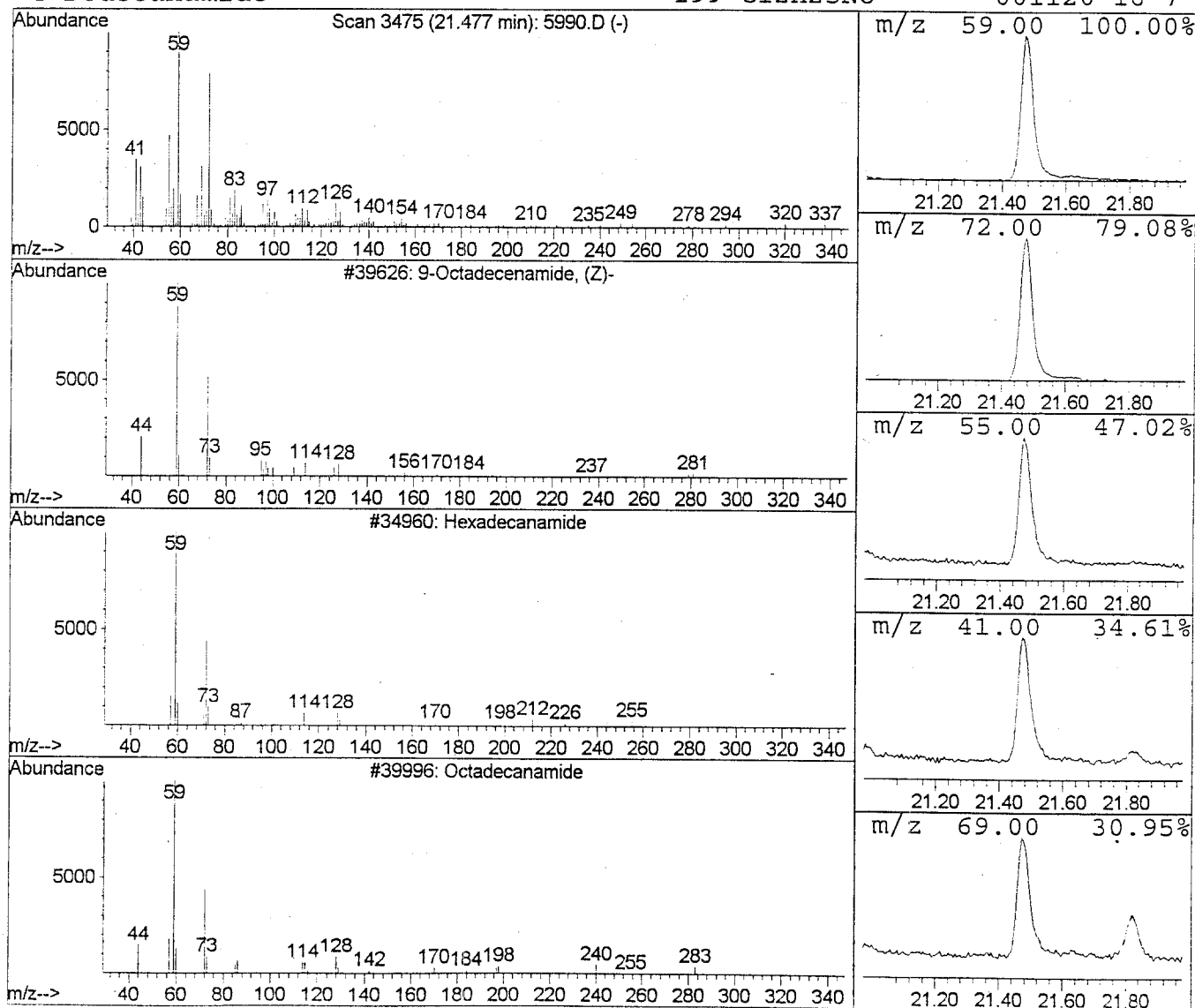
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Library : C:\DATABASE\NBS75K.L

Peak Number 9 9-Octadecenamide, (Z)- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.48	251.53 ug/L	1011410	Perylene-d12	23.01

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qua
1			9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	58
2			Hexadecanamide	255	C16H33NO	000629-54-9	47
3			Octadecanamide	283	C18H37NO	000124-26-5	38
4			Dodecanamide	199	C12H25NO	001120-16-7	32



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Tentatively Identified Compound (LSC) summary

Operator ID: MLS Date Acquired: 16 Oct 1998 18:44
Data File: C:\HPCHEM\1\DATA\101698\5990.D
Name: 09-522-03 SOIL
Misc: SOIL
Method: C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
Title: M8270/625 LIST INITIAL CALIBRATION 10/13/98
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISCon
Ethane, 1,1,2-trichl	3.55	194.2	ug/L	467393	ISTD01	6.34	3177460	40.
3-Butyn-2-ol, 2-meth	3.80	310.4	ug/L	747252	ISTD01	6.34	3177460	40.
1-Butanol, 3-methoxy	4.04	279.0	ug/L	671602	ISTD01	6.34	3177460	40.
2-Butenoic acid, 4-n	4.16	207.5	ug/L	499511	ISTD01	6.34	3177460	40.
Ethane, 1,1,2,2-tetr	5.19	407.7	ug/L	981458	ISTD01	6.34	3177460	40.
Hexadecanoic acid	15.60	363.5	ug/L	1348900	ISTD04	14.43	4898040	40.
Octadecanoic acid	17.18	170.9	ug/L	717434	ISTD05	19.83	5540320	40.
1-Nonadecene	19.55	280.6	ug/L	1177830	ISTD05	19.83	5540320	40.
9-Octadecenamide, (Z	21.48	251.5	ug/L	1011410	ISTD06	23.01	5307850	40.

5990.D LANL.M

Wed Oct 21 08:36:46 1998

HPMS7

Data File : C:\HPCHEM\1\DATA\101698\5991.D
 Acq On : 16 Oct 1998 19:23
 Sample : 09-522-04 SOIL
 Misc : SOIL
 MS Integration Params: rteint.p
 Quant Time: Oct 20 14:11 1998

Vial: 14
 Operator: MLS
 Inst : HPMS 7
 Multiplr: 33.00

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
 Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
 Last Update : Sun Oct 18 11:51:56 1998
 Response via : Initial Calibration
 DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.35	152	533211	40.00	ug/L	0.00
19) Naphthalene-d8	8.28	136	1965634	40.00	ug/L	0.00
34) Acenaphthene-d10	11.51	164	1094570	40.00	ug/L	-0.01
56) Phenanthrene-d10	14.43	188	1878190	40.00	ug/L	-0.01
67) Chrysene-d12	19.83	240	1908269	40.00	ug/L	-0.02
76) Perylene-d12	23.00	264	1992365	40.00	ug/L	-0.02

System Monitoring Compounds

4) 2-Fluorophenol	4.75	112	1367101	66.70	ug/L	0.00
Spiked Amount 100.000	Range 25 - 121		Recovery =	66.70%		
6) Phenol-d5	5.88	99	1583640	70.33	ug/L	0.00
Spiked Amount 100.000	Range 24 - 113		Recovery =	70.33%		
20) Nitrobenzene-d5	7.15	82	729332	37.42	ug/L	0.00
Spiked Amount 50.000	Range 23 - 120		Recovery =	74.84%		
38) 2-Fluorobiphenyl	10.22	172	1451900	39.54	ug/L	-0.01
Spiked Amount 50.000	Range 30 - 115		Recovery =	79.08%		
55) 2,4,6-Tribromophenol	13.08	330	504509	83.42	ug/L	-0.01
Spiked Amount 100.000	Range 19 - 122		Recovery =	83.42%		
70) Terphenyl-d14	17.70	244	2290628	52.34	ug/L	0.00
Spiked Amount 50.000	Range 18 - 137		Recovery =	104.68%		

Target Compounds

					Qvalue
2) Pyridine	0.00	79	0	N.D.	
3) n-Nitrosodimethylamine	0.00	74	0	N.D.	
5) Aniline	5.93	93	538	0.78 ug/L #	1
7) Phenol	5.89	94	2810	3.73 ug/L #	1
8) bis-(2-Chloroethyl)ether	6.00	93	380	0.67 ug/L #	26
9) 2-Chlorophenol	6.11	128	2154	3.53 ug/L #	86
10) 1,3-Dichlorobenzene	6.37	146	2820	4.32 ug/L #	1
11) 1,4-Dichlorobenzene	6.37	146	2820	4.27 ug/L #	1
12) Benzyl Alcohol	0.00	108	0	N.D.	
13) 1,2-Dichlorobenzene	6.63	146	161	0.26 ug/L #	24
14) 2-Methylphenol	0.00	107	0	N.D.	
15) Bis(2-chloroisopropyl)ethe	0.00	45	0	N.D.	
16) 4-Methylphenol	0.00	107	0	N.D.	
17) n-Nitroso-di-n-propylamine	0.00	70	0	N.D.	
18) Hexachloroethane	0.00	117	0	N.D.	
21) Nitrobenzene	7.14	77	2340	4.07 ug/L #	43
22) Isophorone	7.52	82	347	0.36 ug/L #	64
23) 2-Nitrophenol	0.00	139	0	N.D.	
24) 2,4-Dimethylphenol	0.00	122	0	N.D.	

(#) = qualifier out of range (m) = manual integration

5991.D LANL.M

Tue Oct 20 14:11:45 1998

HPMS7

Page 1

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Data File : C:\HPCHEM\1\DATA\101698\5991.D

Vial: 14

Acq On : 16 Oct 1998 19:23

Operator: MLS

Sample : 09-522-04 SOIL

Inst : HPMS 7

Misc : SOIL

Multiplr: 33.00

MS Integration Params: rteint.p

Quant Time: Oct 20 14:11 1998

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Sun Oct 18 11:51:56 1998

Response via : Initial Calibration

DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25) bis(2-chloroethoxy)methane	0.00	93	0	N.D.	
26) Benzoic Acid	0.00	122	0	N.D.	
27) 2,4-Dichlorophenol	0.00	162	0	N.D.	
28) 1,2,4-Trichlorobenzene	8.20	180	685	1.33 ug/L #	65
29) Naphthalene	8.30	128	653	0.43 ug/L #	68
30) 4-Chloroaniline	0.00	127	0	N.D.	
31) Hexachlorobutadiene	0.00	225	0	N.D.	
32) 4-chloro-3methylphenol	9.31	107	2117	4.65 ug/L #	16
33) 2-Methylnaphthalene	0.00	142	0	N.D.	
35) Hexachlorocyclopentadiene	0.00	237	0	N.D.	
36) 2,4,6-Trichlorophenol	0.00	196	0	N.D.	
37) 2,4,5-Trichlorophenol	0.00	196	0	N.D.	
39) 2-Chloronaphthalene	0.00	162	0	N.D.	
40) 2-Nitroaniline	0.00	65	0	N.D.	
41) Dimethylphthalate	0.00	163	0	N.D.	
42) Acenaphthylene	0.00	152	0	N.D.	
43) 2,6-Dinitrotoluene	11.20	165	187	0.72 ug/L #	19
44) 3-Nitroaniline	0.00	138	0	N.D.	
45) Acenaphthene	11.51	154	3136	3.35 ug/L #	7
46) 2,4-Dinitrophenol	0.00	184	0	N.D.	
47) 4-Nitrophenol	0.00	65	0	N.D.	
48) Dibenzofuran	0.00	168	0	N.D.	
49) 2,4-Dinitrotoluene	0.00	165	0	N.D.	
50) Diethylphthalate	12.43	149	4700	4.38 ug/L #	77
51) Fluorene	0.00	166	0	N.D.	
52) 4-Chlorophenyl-phenylether	0.00	204	0	N.D.	
53) 4-Nitroaniline	0.00	138	0	N.D.	
54) 1,2-Diphenylhydrazine	12.92	77	6382	5.84 ug/L #	36
57) 4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.	
58) n-Nitrosodiphenylamine	0.00	169	0	N.D.	
59) 4-Bromophenyl-phenyl ether	0.00	248	0	N.D.	
60) Hexachlorobenzene	0.00	284	0	N.D.	
61) Pentachlorophenol	0.00	266	0	N.D.	
62) Phenanthrene	14.47	178	882	0.53 ug/L #	1
63) Anthracene	0.00	178	0	N.D.	
64) Carbazole	14.92	167	209	0.16 ug/L #	63
65) Di-n-butylphthalate	15.72	149	24815	14.17 ug/L	98
66) Fluoranthene	16.90	202	1379	0.77 ug/L #	62
68) Benzidine	0.00	184	0	N.D.	
69) Pyrene	17.36	202	787	0.41 ug/L #	56
71) Butylbenzylphthalate	18.75	149	8104	9.75 ug/L #	1

(#)=qualifier out of range (m)=manual integration

5991.D LANL.M

Tue Oct 20 14:11:47 1998

HPMS7

Page 2

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Data File : C:\HPCHEM\1\DATA\101698\5991.D

Vial: 14

Acq On : 16 Oct 1998 19:23

Operator: MLS

Sample : 09-522-04 SOIL

Inst : HPMS 7

Misc : SOIL

Multiplr: 33.00

MS Integration Params: rteint.p

Quant Time: Oct 20 14:11 1998

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Sun Oct 18 11:51:56 1998

Response via : Initial Calibration

DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
72) Benzo(a)anthracene	19.83	228	5547	2.92	ug/L #	57
73) 3,3'-Dichlorobenzidine	0.00	252	0	N.D.		
74) Chrysene	19.89	228	593	0.45	ug/L #	26
75) Bis(2-ethylhexyl)phthalate	19.98	149	26429	22.39	ug/L #	93
77) Di-n-octylphthalate	21.18	149	6054	2.80	ug/L #	63
78) Benzo(b)fluoranthene	0.00	252	0	N.D.		
79) Benzo(k)fluoranthene	0.00	252	0	N.D.		
80) Benzo(a)pyrene	0.00	252	0	N.D.		
81) Indeno(1,2,3-cd)pyrene	0.00	276	0	N.D.		
82) Dibenz(a,h)anthracene	0.00	278	0	N.D.		
83) Benzo(g,h,i)perylene	0.00	276	0	N.D.		

(#) = qualifier out of range (m) = manual integration

5991.D LANL.M

Tue Oct 20 14:11:47 1998

HPMS7

Page 3

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Quantitation Report

Data File : C:\HPCHEM\1\DATA\101698\5991.D
 Acq On : 16 Oct 1998 19:23
 Sample : 09-522-04 SOIL
 Misc : SOIL

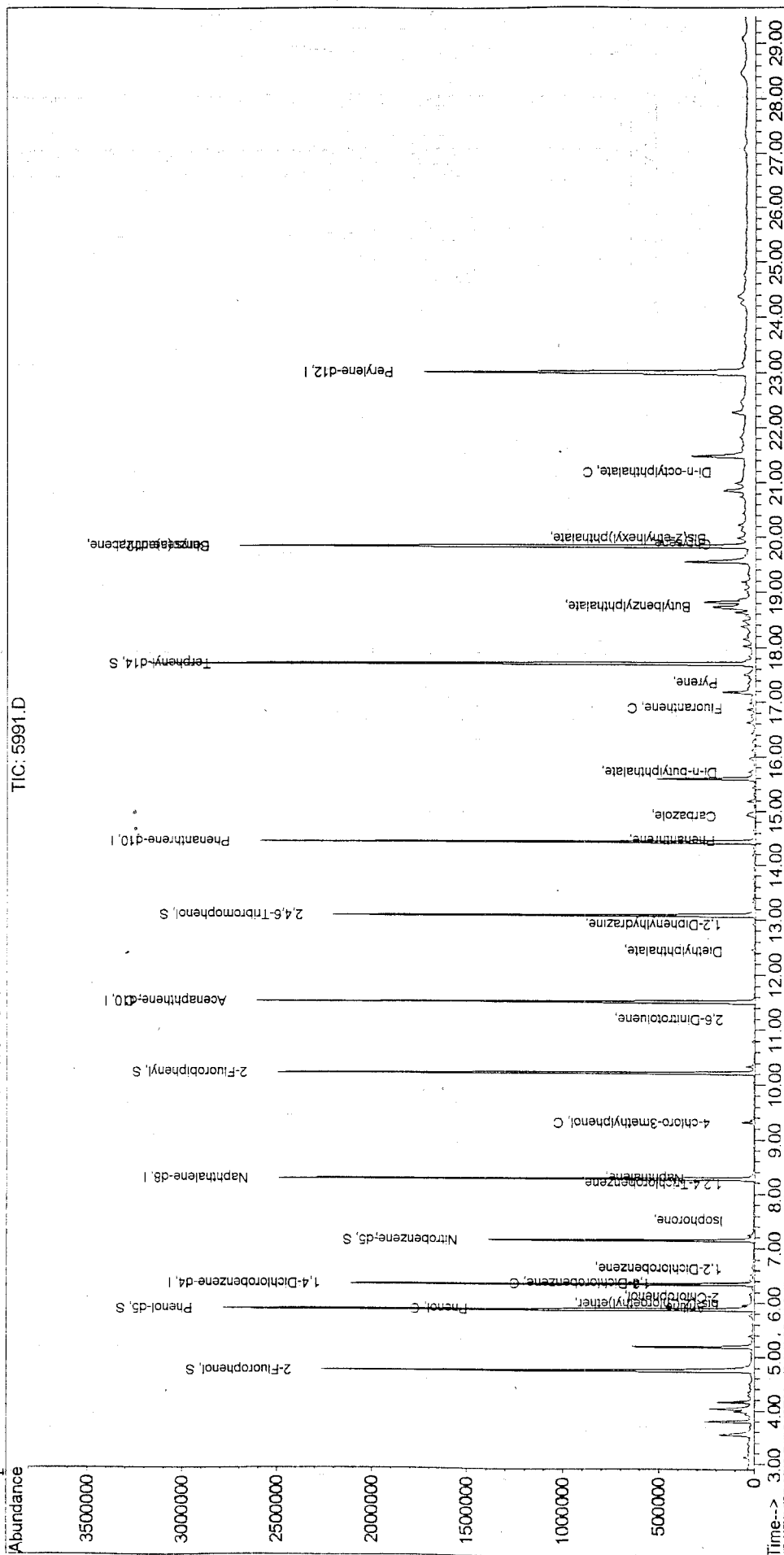
Vial: 14
 Operator: MLS
 Inst : HPMS 7
 Multiplr: 33.00

MS Integration Params: rteint.p

Quant Time: Oct 20 14:11 1998

Quant Results File: LANL.RES

Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
 Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
 Last Update : Sun Oct 18 11:51:56 1998
 Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\101698\5991.D

Acq On : 16 Oct 1998 19:23

Sample : 09-522-04 SOIL

Misc : SOIL

MS Integration Params: LSCINT.P

Vial: 14

Operator: MLS

Inst : HPMS 7

Multiplr: 33.00

Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Smoothing : OFF

Filtering: 5

Sampling : 1

Min Area: 1 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	3.550	113	122	144	rVB3	172000	559977	8.80%	0.892%
2	3.799	162	168	176	rBV	244190	413819	6.50%	0.659%
3	3.934	186	193	197	rBV3	31640	66960	1.05%	0.107%
4	3.983	197	202	206	rVV	91812	205598	3.23%	0.328%
5	4.035	206	210	226	rVV	217425	443386	6.97%	0.706%
6	4.163	228	234	247	rVB	175446	286841	4.51%	0.457%
7	4.745	333	343	366	rBV	2245323	4416684	69.39%	7.038%
8	5.189	419	426	436	rBV	626955	1084474	17.04%	1.728%
9	5.878	549	555	567	rBV	2774310	4157679	65.32%	6.625%
10	5.963	567	571	582	rVB4	54233	100753	1.58%	0.161%
11	6.343	636	642	654	rBV	2102299	3198837	50.26%	5.097%
12	7.149	786	793	806	rBV	1381085	2120163	33.31%	3.378%
13	8.276	995	1004	1018	rBV	2487789	3985121	62.61%	6.350%
14	9.313	1192	1198	1203	rBV2	64713	101156	1.59%	0.161%
15	10.216	1359	1367	1385	rBV	2493638	4318961	67.86%	6.882%
16	11.514	1600	1610	1624	rBV	2608143	4504452	70.77%	7.177%
17	13.084	1895	1904	1931	rVB	2199863	4193589	65.89%	6.682%
18	14.431	2146	2156	2170	rBV2	2589221	4938173	77.59%	7.868%
19	14.927	2240	2249	2253	rBV2	43564	101171	1.59%	0.161%
20	15.189	2292	2298	2306	rVB2	43092	76964	1.21%	0.123%
21	15.595	2366	2374	2391	rBV	513624	1024274	16.09%	1.632%
22	15.723	2393	2398	2412	rVB	31275	74131	1.16%	0.118%
23	15.964	2436	2443	2451	rVB8	27222	65074	1.02%	0.104%
24	16.626	2557	2567	2579	rBV5	39333	113480	1.78%	0.181%
25	16.867	2604	2612	2621	rBV3	36990	72222	1.13%	0.115%
26	17.182	2661	2671	2680	rBV4	159729	421594	6.62%	0.672%
27	17.508	2725	2732	2739	rBV7	31659	73199	1.15%	0.117%
28	17.700	2755	2768	2777	rBV	3154806	6364642	100.00%	10.141%
29	18.021	2823	2828	2835	rBV3	44079	80334	1.26%	0.128%
30	18.149	2839	2852	2858	rBV7	41627	121058	1.90%	0.193%
31	18.373	2882	2894	2900	rVB8	45741	108219	1.70%	0.172%

32	18.475	2910	2913	2921	rVB	39050	69824	1.10%	0.111%
33	18.630	2936	2942	2948	rBV4	76196	141333	2.22%	0.225%
34	18.726	2948	2960	2971	rBV8	183684	701366	11.02%	1.118%
35	18.817	2971	2977	2983	rVB	184481	370163	5.82%	0.590%
36	19.190	3042	3047	3053	rVB	41699	77182	1.21%	0.123%
37	19.554	3106	3115	3134	rBV2	331149	996418	15.66%	1.588%
38	19.832	3157	3167	3181	rBV2	2658484	5595454	87.91%	8.916%
39	19.981	3192	3195	3204	rVB3	38113	72974	1.15%	0.116%
40	20.221	3235	3240	3257	rVB7	40746	118622	1.86%	0.189%
41	20.847	3351	3357	3371	rVB6	103763	301825	4.74%	0.481%
42	21.477	3466	3475	3493	rBV4	277400	827322	13.00%	1.318%
43	22.278	3616	3625	3632	rBV4	63326	186738	2.93%	0.298%
44	23.005	3746	3761	3779	rBV2	1677602	5506729	86.52%	8.774%

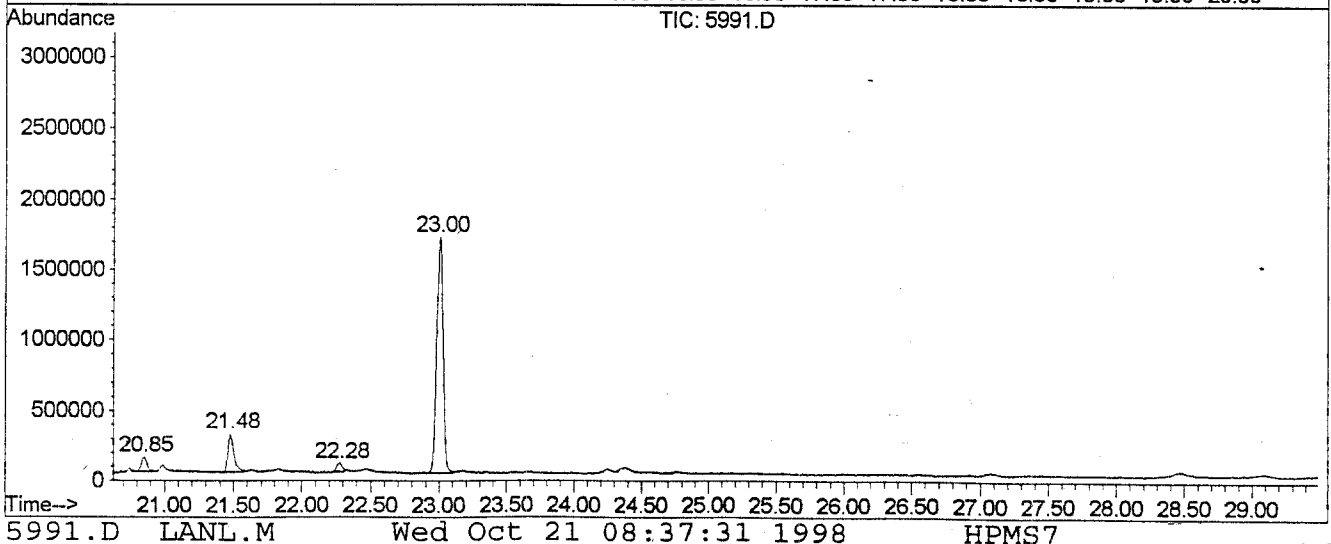
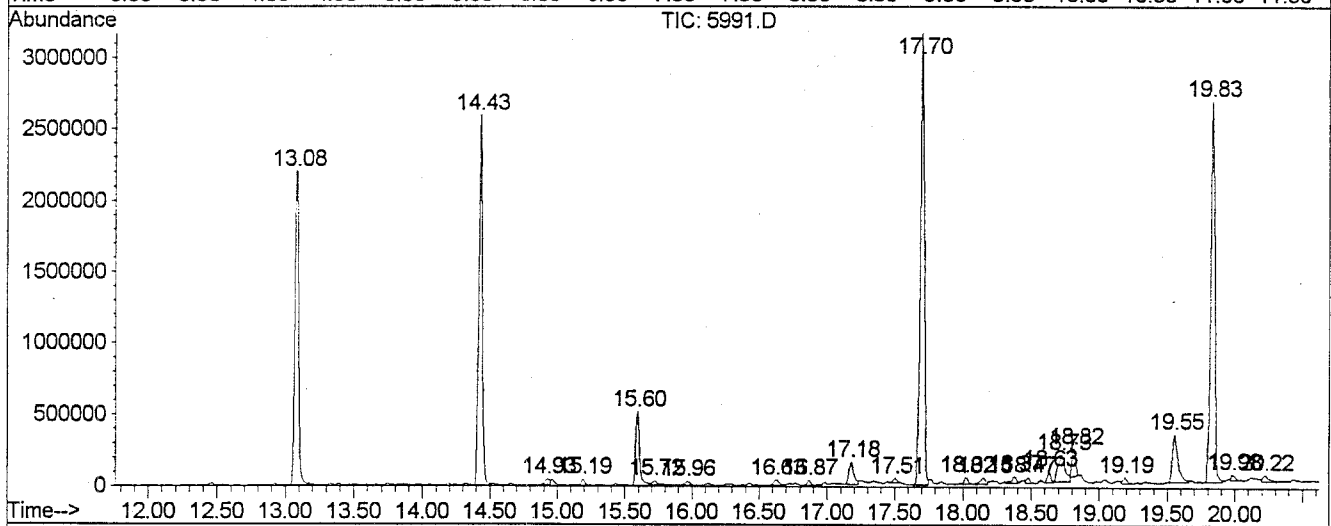
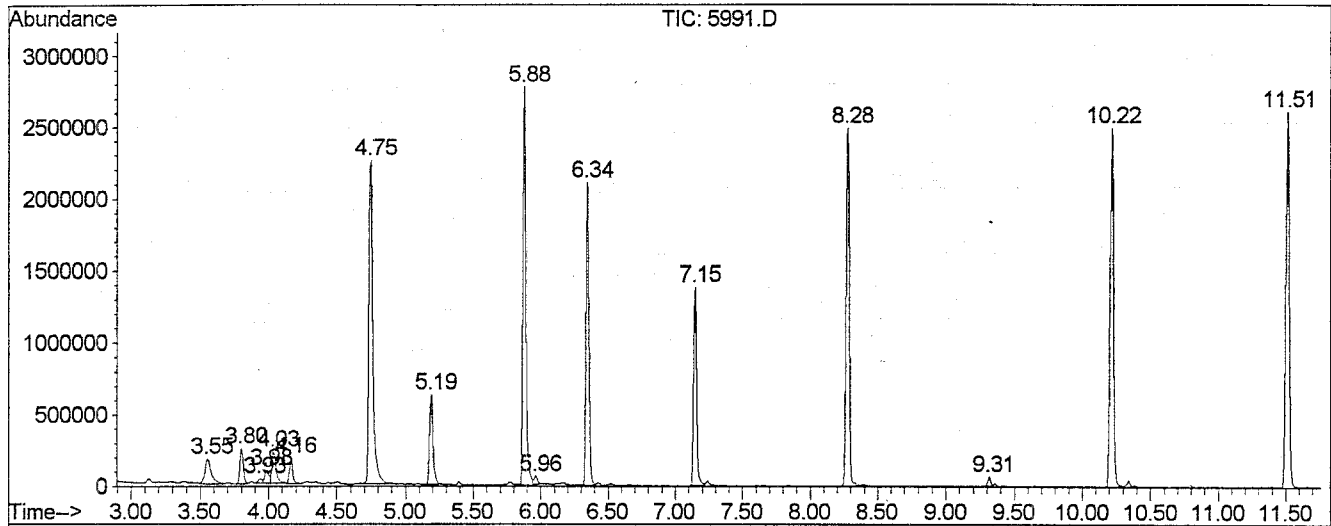
Sum of corrected areas: 62758935

5991.D LANL.M

Wed Oct 21 08:37:30 1998 HPMS7

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\101698\5991.D
 Operator : MLS
 Acquired : 16 Oct 1998 19:23 using AcqMethod BNA
 Instrument : HPMS 7
 Sample Name: 09-522-04 SOIL
 Misc Info : SOIL
 Vial Number: 14
 Quant File : LANL.RES (RTE Integrator)



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\101698\5991.D
Acq On : 16 Oct 1998 19:23
Sample : 09-522-04 SOIL
Misc : SOIL
MS Integration Params: LSCINT.P

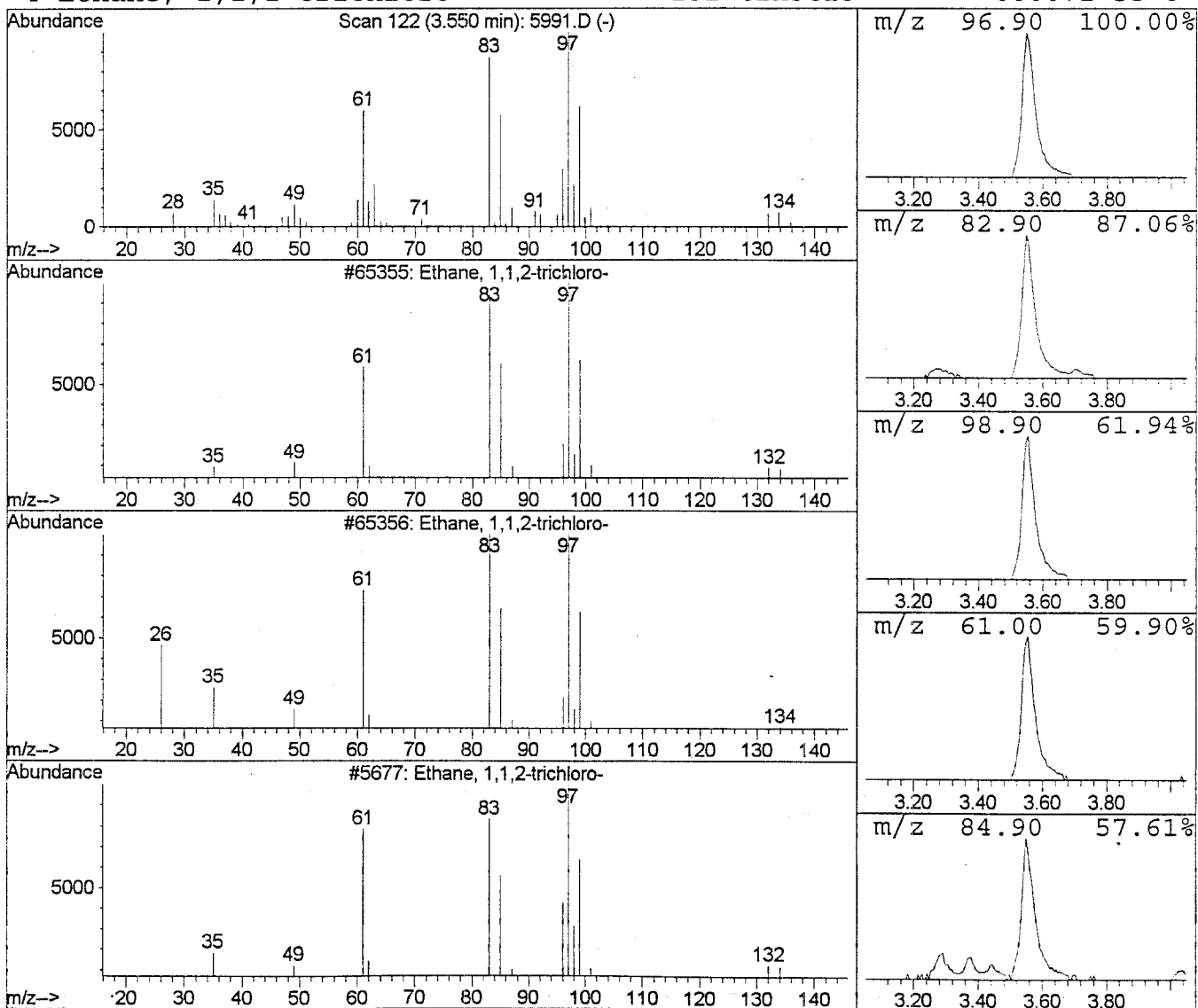
Vial: 14
Operator: MLS
Inst : HPMS 7
Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
Library : C:\DATABASE\NBS75K.L

Peak Number 1 Ethane, 1,1,2-trichloro- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.55	231.07 ug/L	559977	1,4-Dichlorobenzene-d4	6.35

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qua
1	5	Ethane, 1,1,2-trichloro-	132	C2H3Cl3	000079-00-5	98
2		Ethane, 1,1,2-trichloro-	132	C2H3Cl3	000079-00-5	97
3		Ethane, 1,1,2-trichloro-	132	C2H3Cl3	000079-00-5	93
4		Ethane, 1,1,1-trichloro-	132	C2H3Cl3	000071-55-6	46



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\101698\5991.D

Acq On : 16 Oct 1998 19:23

Sample : 09-522-04 SOIL

Misc : SOIL

MS Integration Params: LSCINT.P

Vial: 14

Operator: MLS

Inst : HPMS 7

Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

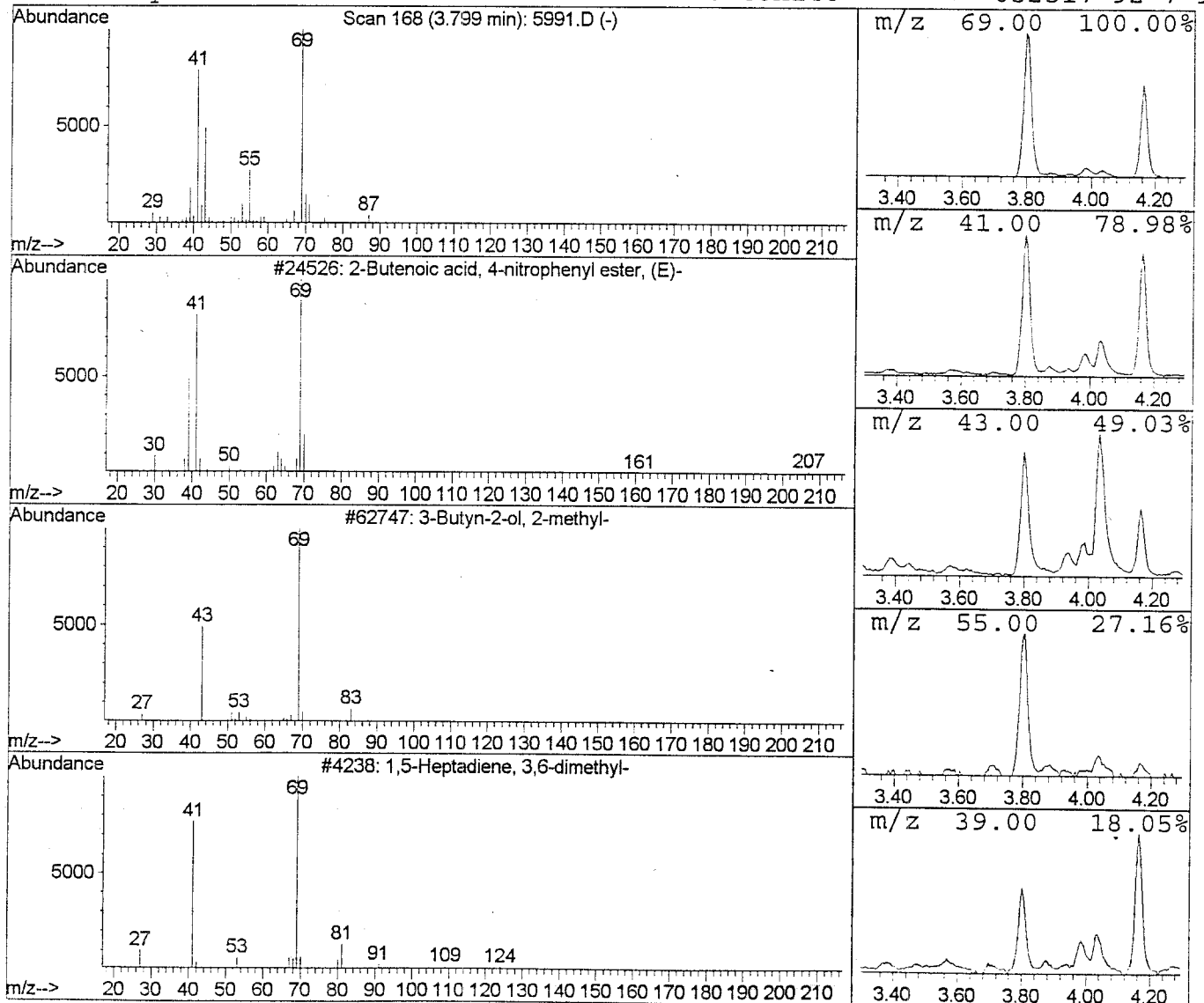
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Library : C:\DATABASE\NBS75K.L

Peak Number 2 2-Butenoic acid, 4-nitrophenyl Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.80	170.76 ug/L	413819	1,4-Dichlorobenzene-d4	6.35

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qua
1			2-Butenoic acid, 4-nitrophenyl este	207	C10H9NO4	014617-88-0	38
2			3-Butyn-2-ol, 2-methyl-	84	C5H8O	000115-19-5	33
3			1,5-Heptadiene, 3,6-dimethyl-	124	C9H16	034891-10-6	9
4			1-Octyn-4-ol	126	C8H14O	052517-92-7	9



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\101698\5991.D
Acq On : 16 Oct 1998 19:23
Sample : 09-522-04 SOIL
Misc : SOIL
MS Integration Params: LSCINT.P

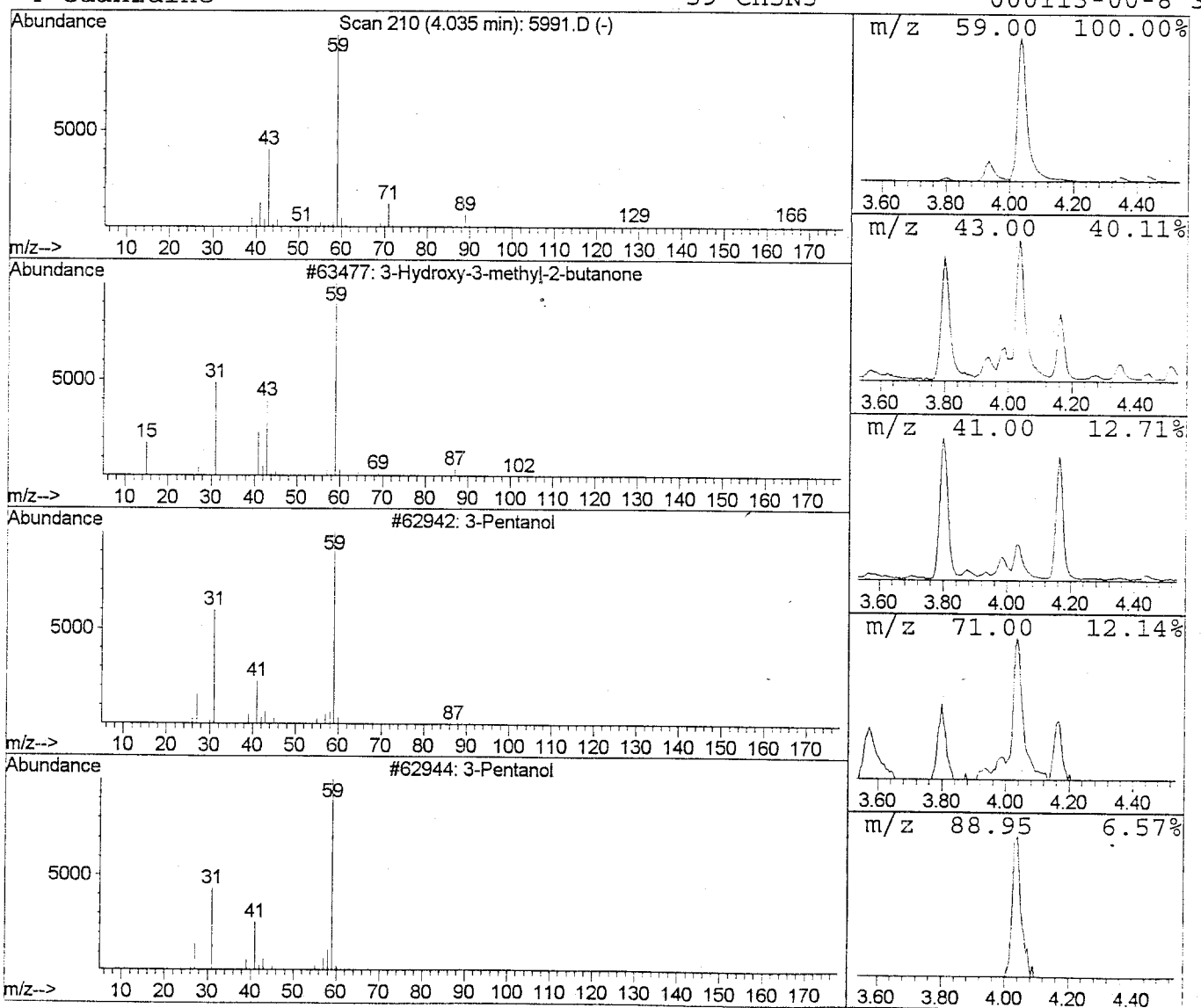
Vial: 14
Operator: MLS
Inst : HPMS 7
Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
Library : C:\DATABASE\NBS75K.L

Peak Number 3 3-Hydroxy-3-methyl-2-butanone Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.03	182.96 ug/L	443386	1,4-Dichlorobenzene-d4	6.35

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qua
1			3-Hydroxy-3-methyl-2-butanone	102	C5H10O2	000115-22-0	39
2			3-Pentanol	88	C5H12O	000584-02-1	38
3			3-Pentanol	88	C5H12O	000584-02-1	38
4			Guanidine	59	CH5N3	000113-00-8	36



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\101698\5991.D
Acq On : 16 Oct 1998 19:23
Sample : 09-522-04 SOIL
Misc : SOIL
MS Integration Params: LSCINT.P

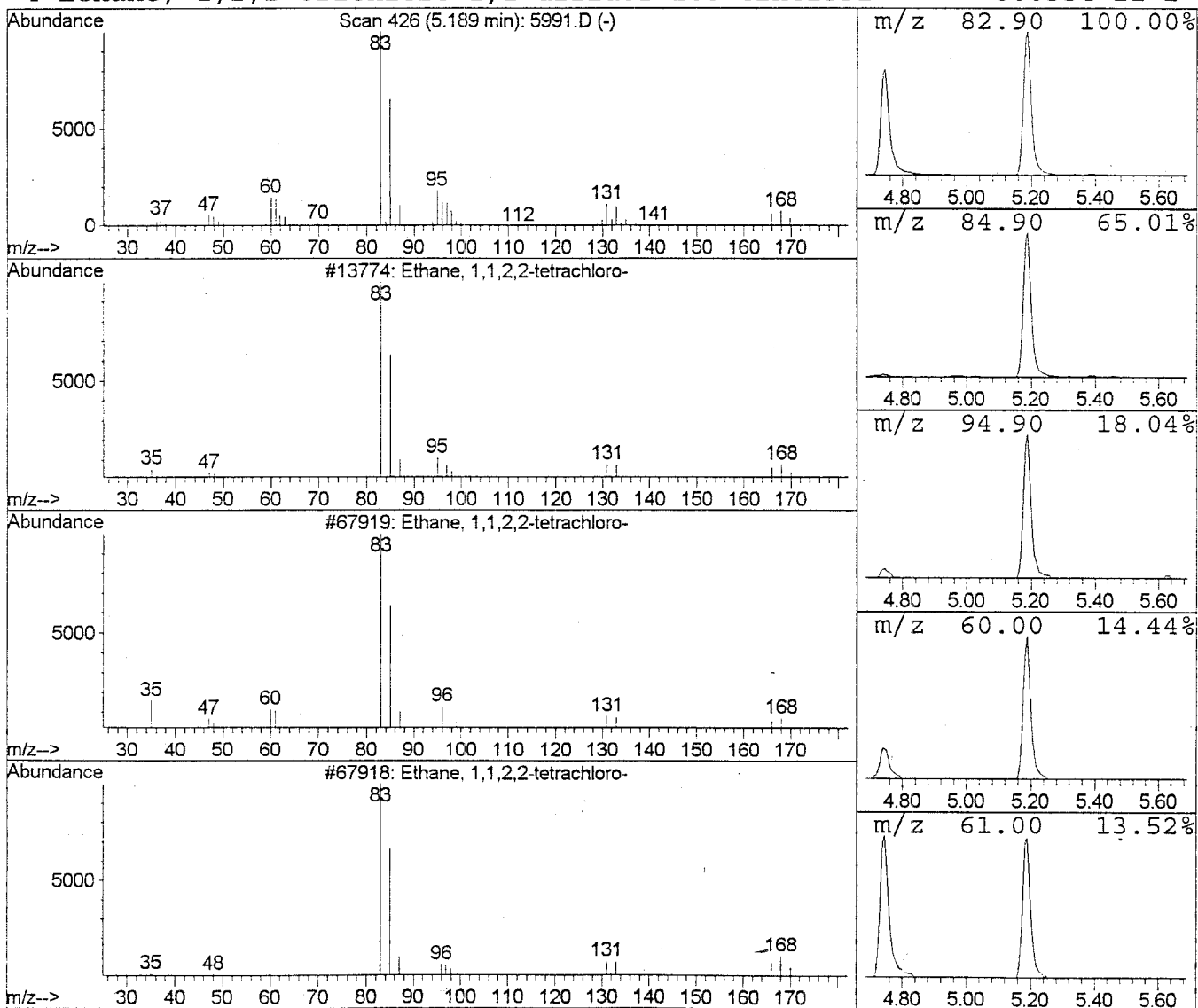
Vial: 14
Operator: MLS
Inst : HPMS 7
Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
Library : C:\DATABASE\NBS75K.L

Peak Number 4 Ethane, 1,1,2,2-tetrachloro- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.19	447.51 ug/L	1084470	1,4-Dichlorobenzene-d4	6.35

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qua
1			Ethane, 1,1,2,2-tetrachloro-	166	C2H2Cl4	000079-34-5	95
2			Ethane, 1,1,2,2-tetrachloro-	166	C2H2Cl4	000079-34-5	91
3			Ethane, 1,1,2,2-tetrachloro-	166	C2H2Cl4	000079-34-5	90
4			Ethane, 1,2,2-trichloro-1,1-difluor	168	C2HCl3F2	000354-21-2	62



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\101698\5991.D

Acq On : 16 Oct 1998 19:23

Sample : 09-522-04 SOIL

Misc : SOIL

MS Integration Params: LSCINT.P

Vial: 14

Operator: MLS

Inst : HPMS 7

Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

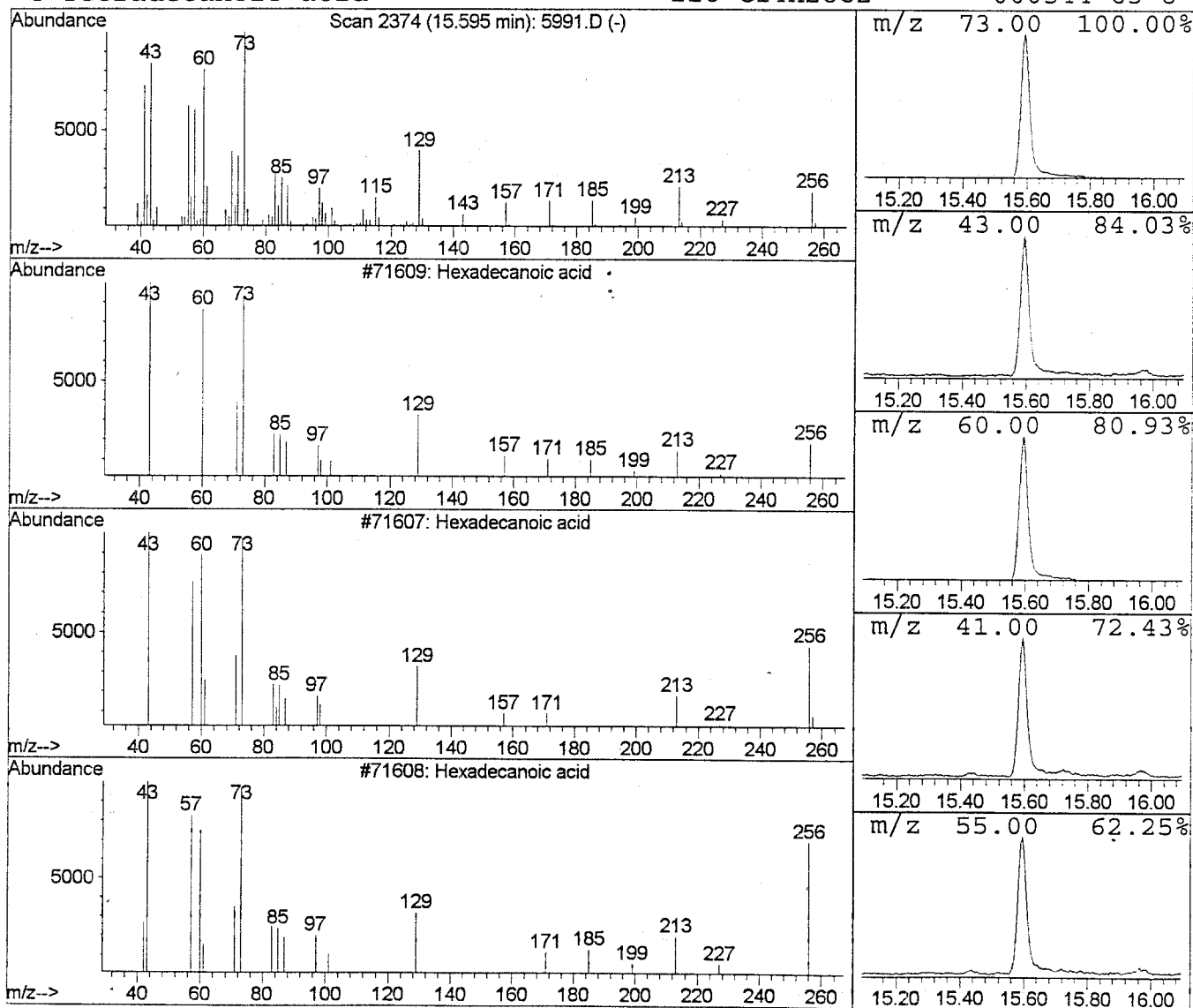
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Library : C:\DATABASE\NBS75K.L

Peak Number 5 Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.60	273.79 ug/L	1024270	Phenanthrene-d10	14.43

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qua
1		Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2		Hexadecanoic acid	256	C16H32O2	000057-10-3	99
3		Hexadecanoic acid	256	C16H32O2	000057-10-3	98
4		Tetradecanoic acid	228	C14H28O2	000544-63-8	96



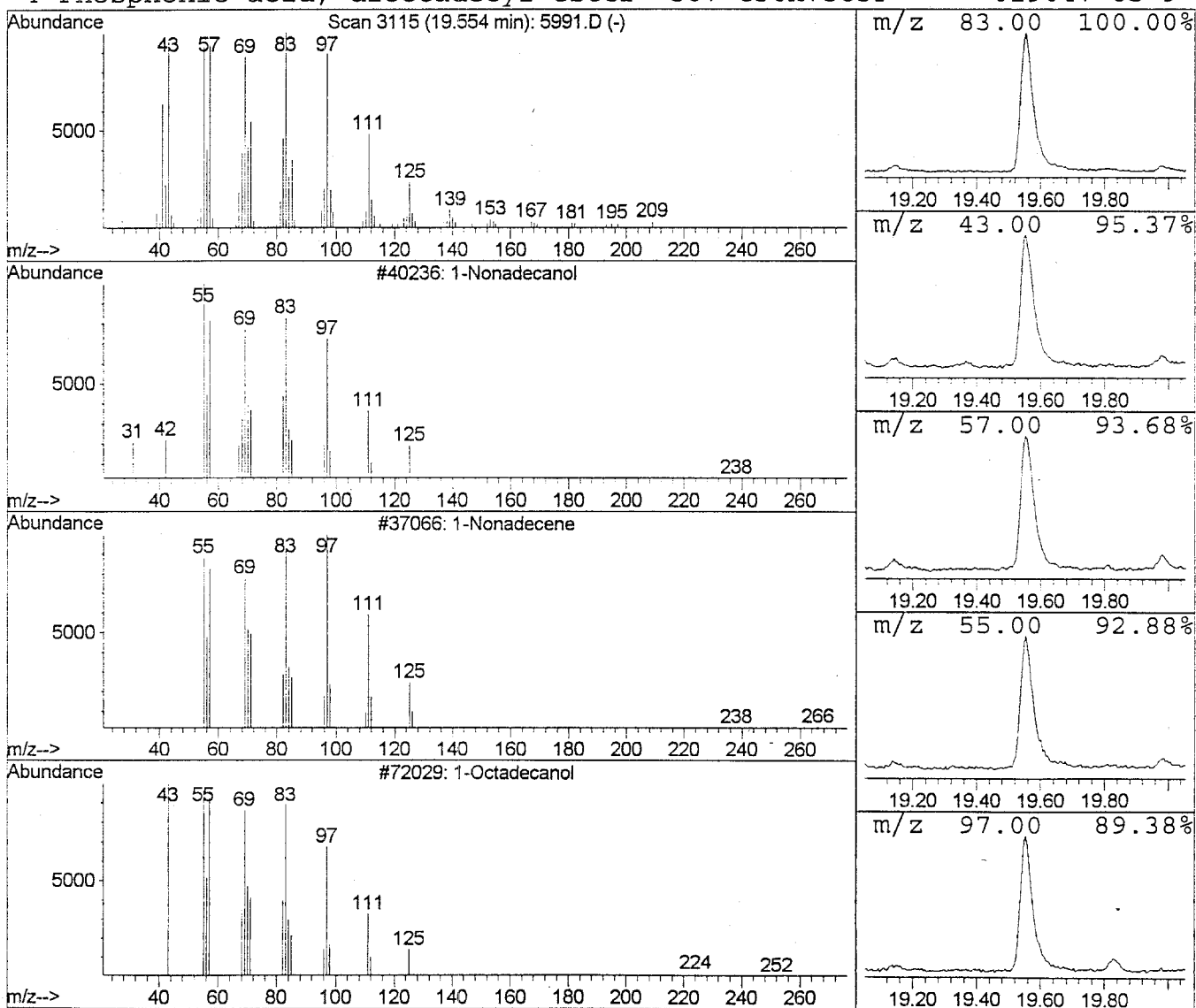
Data File : C:\HPCHEM\1\DATA\101698\5991.D
 Acq On : 16 Oct 1998 19:23
 Sample : 09-522-04 SOIL
 Misc : SOIL
 MS Integration Params: LSCINT.P

Vial: 14
 Operator: MLS
 Inst : HPMS 7
 Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
 Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
 Library : C:\DATABASE\NBS75K.L

 Peak Number 6 1-Nonadecanol Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.	
19.55	235.06 ug/L	996418	Chrysene-d12	19.83	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qua
1	1-Nonadecanol	284	C19H40O	001454-84-8	94
2	1-Nonadecene	266	C19H38	018435-45-5	94
3	1-Octadecanol	270	C18H38O	000112-92-5	91
4	Phosphonic acid, dioctadecyl ester	587	C36H75O3P	019047-85-9	90



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\101698\5991.D

Acq On : 16 Oct 1998 19:23

Sample : 09-522-04 SOIL

Misc : SOIL

MS Integration Params: LSCINT:P

Vial: 14

Operator: MLS

Inst : HPMS 7

Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

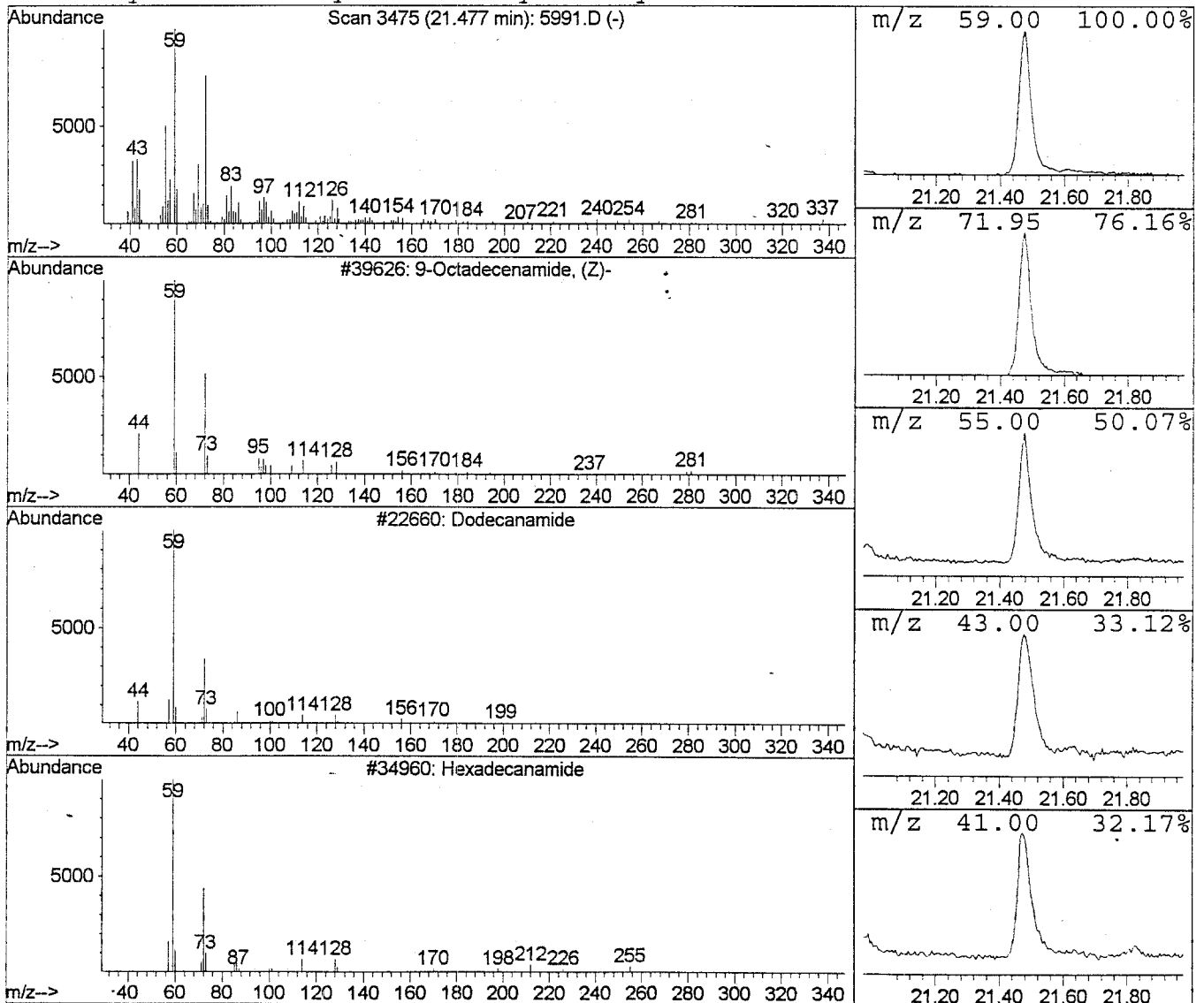
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Library : C:\DATABASE\NBS75K.L

Peak Number 7 9-Octadecenamide, (Z)- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.48	198.32 ug/L	827322	Perylene-d12	23.00

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qua
1			9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	43
2			Dodecanamide	199	C12H25NO	001120-16-7	35
3			Hexadecanamide	255	C16H33NO	000629-54-9	35
4			Methyl 17-methoxy-10-methoxycarbony	386	C22H42O5	000000-00-0	35



Tentatively Identified Compound (LSC) summary

Operator ID: MLS Date Acquired: 16 Oct 1998 19:23
 Data File: C:\HPCHEM\1\DATA\101698\5991.D
 Name: 09-522-04 SOIL
 Misc: SOIL
 Method: C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
 Title: M8270/625 LIST INITIAL CALIBRATION 10/13/98
 Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISCon
Ethane, 1,1,2-trichl	3.55	231.1	ug/L	559977	ISTD01	6.35	3198840	40.
2-Butenoic acid, 4-n	3.80	170.8	ug/L	413819	ISTD01	6.35	3198840	40.
3-Hydroxy-3-methyl-2	4.03	183.0	ug/L	443386	ISTD01	6.35	3198840	40.
Ethane, 1,1,2,2-tetr	5.19	447.5	ug/L	1084470	ISTD01	6.35	3198840	40.
Hexadecanoic acid	15.60	273.8	ug/L	1024270	ISTD04	14.43	4938170	40.
1-Nonadecanol	19.55	235.1	ug/L	996418	ISTD05	19.83	5595450	40.
9-Octadecenamide, (Z	21.48	198.3	ug/L	827322	ISTD06	23.00	5506730	40.

5991.D LANL.M Wed Oct 21 08:37:47 1998 HPMS7

Data File : C:\HPCHEM\1\DATA\101698\5992.D

Vial: 15

Acq On : 16 Oct 1998 20:01

Operator: MLS

Sample : 09-522-05 SOIL

Inst : HPMS 7

Misc : SOIL

Multiplr: 33.00

MS Integration Params: rteint.p

Quant Time: Oct 20 14:12 1998

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Sun Oct 18 11:51:56 1998

Response via : Initial Calibration

DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.34	152	526025	40.00	ug/L	0.00
19) Naphthalene-d8	8.28	136	1958738	40.00	ug/L	0.00
34) Acenaphthene-d10	11.51	164	1097179	40.00	ug/L	-0.01
56) Phenanthrene-d10	14.43	188	1863146	40.00	ug/L	-0.01
67) Chrysene-d12	19.83	240	1892504	40.00	ug/L	-0.02
76) Perylene-d12	23.01	264	1993987	40.00	ug/L	-0.02

System Monitoring Compounds

4) 2-Fluorophenol	4.75	112	1144659	56.61	ug/L	0.00
Spiked Amount 100.000	Range 25 - 121		Recovery =	56.61%		
6) Phenol-d5	5.88	99	1320672	59.45	ug/L	0.00
Spiked Amount 100.000	Range 24 - 113		Recovery =	59.45%		
20) Nitrobenzene-d5	7.15	82	608493	31.33	ug/L	0.00
Spiked Amount 50.000	Range 23 - 120		Recovery =	62.66%		
38) 2-Fluorobiphenyl	10.22	172	1202796	32.68	ug/L	-0.01
Spiked Amount 50.000	Range 30 - 115		Recovery =	65.36%		
55) 2,4,6-Tribromophenol	13.08	330	469236	77.41	ug/L	-0.01
Spiked Amount 100.000	Range 19 - 122		Recovery =	77.41%		
70) Terphenyl-d14	17.70	244	2248996	51.82	ug/L	0.00
Spiked Amount 50.000	Range 18 - 137		Recovery =	103.64%		

Target Compounds

Qvalue

2) Pyridine	0.00	79	0	N.D.		
3) n-Nitrosodimethylamine	0.00	74	0	N.D.		
5) Aniline	0.00	93	0	N.D.		
7) Phenol	5.89	94	2285	3.07 ug/L #	1	
8) bis-(2-Chloroethyl)ether	0.00	93	0	N.D.		
9) 2-Chlorophenol	6.11	128	1675	2.78 ug/L #	78	
10) 1,3-Dichlorobenzene	6.37	146	2053	3.19 ug/L #	1	
11) 1,4-Dichlorobenzene	6.37	146	2053	3.15 ug/L #	1	
12) Benzyl Alcohol	0.00	108	0	N.D.		
13) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
14) 2-Methylphenol	0.00	107	0	N.D.		
15) Bis(2-chloroisopropyl)ethe	0.00	45	0	N.D.		
16) 4-Methylphenol	0.00	107	0	N.D.		
17) n-Nitroso-di-n-propylamine	7.04	70	2792	6.93 ug/L #	79	
18) Hexachloroethane	0.00	117	0	N.D.		
21) Nitrobenzene	7.15	77	2218	3.87 ug/L #	41	
22) Isophorone	7.53	82	376	0.39 ug/L #	64	
23) 2-Nitrophenol	0.00	139	0	N.D.		
24) 2,4-Dimethylphenol	0.00	122	0	N.D.		

(#)=qualifier out of range (m)=manual integration

5992.D LANL.M

Tue Oct 20 14:12:07 1998

HPMS7

Page 1

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Data File : C:\HPCHEM\1\DATA\101698\5992.D
 Acq On : 16 Oct 1998 20:01
 Sample : 09-522-05 SOIL
 Misc : SOIL
 MS Integration Params: rteint.p
 Quant Time: Oct 20 14:12 1998

Vial: 15
 Operator: MLS
 Inst : HPMS 7
 Multiplr: 33.00

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
 Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
 Last Update : Sun Oct 18 11:51:56 1998
 Response via : Initial Calibration
 DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25) bis(2-chloroethoxy)methane	0.00	93	0	N.D.	
26) Benzoic Acid	0.00	122	0	N.D.	
27) 2,4-Dichlorophenol	0.00	162	0	N.D.	
28) 1,2,4-Trichlorobenzene	8.21	180	441	0.86 ug/L #	84
29) Naphthalene	8.31	128	349	0.23 ug/L #	68
30) 4-Chloroaniline	0.00	127	0	N.D.	
31) Hexachlorobutadiene	0.00	225	0	N.D.	
32) 4-chloro-3methylphenol	9.36	107	218	0.48 ug/L #	16
33) 2-Methylnaphthalene	0.00	142	0	N.D.	
35) Hexachlorocyclopentadiene	0.00	237	0	N.D.	
36) 2,4,6-Trichlorophenol	0.00	196	0	N.D.	
37) 2,4,5-Trichlorophenol	0.00	196	0	N.D.	
39) 2-Chloronaphthalene	0.00	162	0	N.D.	
40) 2-Nitroaniline	0.00	65	0	N.D.	
41) Dimethylphthalate	0.00	163	0	N.D.	
42) Acenaphthylene	0.00	152	0	N.D.	
43) 2,6-Dinitrotoluene	0.00	165	0	N.D.	
44) 3-Nitroaniline	0.00	138	0	N.D.	
45) Acenaphthene	11.52	154	3499	3.72 ug/L #	7
46) 2,4-Dinitrophenol	0.00	184	0	N.D.	
47) 4-Nitrophenol	0.00	65	0	N.D.	
48) Dibenzofuran	0.00	168	0	N.D.	
49) 2,4-Dinitrotoluene	0.00	165	0	N.D.	
50) Diethylphthalate	12.43	149	3838	3.57 ug/L #	71
51) Fluorene	0.00	166	0	N.D.	
52) 4-Chlorophenyl-phenylether	0.00	204	0	N.D.	
53) 4-Nitroaniline	0.00	138	0	N.D.	
54) 1,2-Diphenylhydrazine	12.92	77	3908	3.57 ug/L #	40
57) 4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.	
58) n-Nitrosodiphenylamine	0.00	169	0	N.D.	
59) 4-Bromophenyl-phenyl ether	0.00	248	0	N.D.	
60) Hexachlorobenzene	0.00	284	0	N.D.	
61) Pentachlorophenol	0.00	266	0	N.D.	
62) Phenanthrene	14.47	178	223	0.13 ug/L #	1
63) Anthracene	0.00	178	0	N.D.	
64) Carbazole	14.92	167	185	0.15 ug/L #	63
65) Di-n-butylphthalate	15.72	149	19966	11.49 ug/L #	91
66) Fluoranthene	0.00	202	0	N.D.	
68) Benzidine	0.00	184	0	N.D.	
69) Pyrene	0.00	202	0	N.D.	
71) Butylbenzylphthalate	18.76	149	3942	4.78 ug/L #	85

(#) = qualifier out of range (m) = manual integration

5992.D LANL.M

Tue Oct 20 14:12:09 1998

HPMS7

Page 2

Data File : C:\HPCHEM\1\DATA\101698\5992.D

Vial: 15

Acq On : 16 Oct 1998 20:01

Operator: MLS

Sample : 09-522-05 SOIL

Inst : HPMS 7

Misc : SOIL

Multiplr: 33.00

MS Integration Params: rteint.p

Quant Time: Oct 20 14:12 1998

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Sun Oct 18 11:51:56 1998

Response via : Initial Calibration

DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
72) Benzo(a)anthracene	19.83	228	4690	2.49	ug/L #	50
73) 3,3'-Dichlorobenzidine	0.00	252	0	N.D.		
74) Chrysene	19.83	228	4690	3.60	ug/L #	48
75) Bis(2-ethylhexyl)phthalate	19.99	149	24338	20.79	ug/L #	96
77) Di-n-octylphthalate	21.17	149	5954	2.76	ug/L #	92
78) Benzo(b)fluoranthene	0.00	252	0	N.D.		
79) Benzo(k)fluoranthene	0.00	252	0	N.D.		
80) Benzo(a)pyrene	0.00	252	0	N.D.		
81) Indeno(1,2,3-cd)pyrene	0.00	276	0	N.D.		
82) Dibenz(a,h)anthracene	0.00	278	0	N.D.		
83) Benzo(g,h,i)perylene	0.00	276	0	N.D.		

(#) = qualifier out of range (m) = manual integration

5992.D LANL.M

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HPMS7

Page 3

Quantitation Report

Data File : C:\HPCHEM\1\DATA\101698\5992.D

Acq On : 16 Oct 1998 20:01

Sample : 09-522-05 SOIL

Misc : SOIL

MS Integration Params: reint.p

Quant Time: Oct 20 14:12 1998

Vial: 15

Operator: MLS

Inst : HPMS 7

Multiplr: 33.00

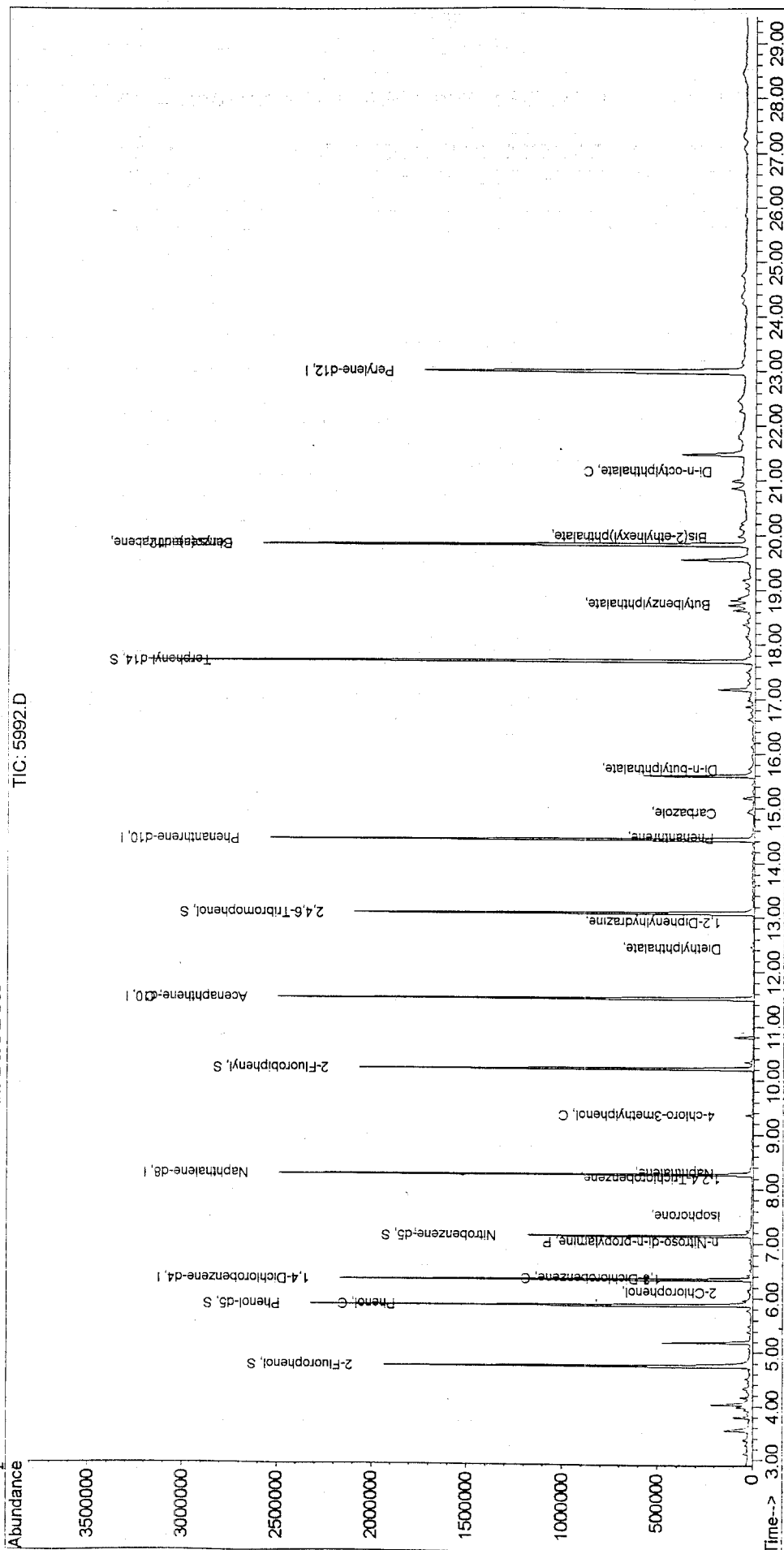
Quant Results File: LANL.RES

Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Sun Oct 18 11:51:56 1998

Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\101698\5992.D

Vial: 15

Acq On : 16 Oct 1998 20:01

Operator: MLS

Sample : 09-522-05 SOIL

Inst : HPMS 7

Misc : SOIL

Multiplr: 33.00

MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Smoothing : OFF

Filtering: 5

Sampling : 1

Min Area: 1 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	3.552	113	122	140	rVB3	130114	390494	6.30%	0.674%
2	3.796	161	167	176	rBV	92959	158653	2.56%	0.274%
3	3.980	196	201	205	rVV	68920	170937	2.76%	0.295%
4	4.035	205	209	228	rVV	206613	473957	7.65%	0.818%
5	4.163	228	233	243	rVB2	45640	81570	1.32%	0.141%
6	4.329	259	264	273	rVB3	33619	74815	1.21%	0.129%
7	4.746	331	342	364	rBV	1919982	3731760	60.21%	6.437%
8	5.189	418	425	435	rBV	463317	786954	12.70%	1.357%
9	5.878	548	554	567	rBV	2310530	3486814	56.26%	6.014%
10	5.964	567	570	580	rVB5	39550	70067	1.13%	0.121%
11	6.343	635	641	652	rBV	2156324	3161183	51.01%	5.453%
12	7.150	785	792	805	rBV	1169207	1776839	28.67%	3.065%
13	8.277	995	1003	1019	rBV	2485046	3986687	64.33%	6.876%
14	10.216	1358	1366	1383	rBV	2066149	3553363	57.34%	6.129%
15	10.798	1467	1475	1481	rBV2	101884	174919	2.82%	0.302%
16	11.514	1599	1609	1626	rBV	2498083	4487817	72.41%	7.741%
17	13.079	1894	1902	1925	rVB	2092572	3941440	63.60%	6.798%
18	14.431	2145	2155	2171	rBV2	2538995	4908777	79.21%	8.467%
19	15.190	2286	2297	2304	rVB	57403	120436	1.94%	0.208%
20	15.596	2365	2373	2391	rBV2	577496	1169968	18.88%	2.018%
21	16.632	2558	2567	2579	rVB5	26001	68448	1.10%	0.118%
22	16.867	2601	2611	2619	rBV2	41050	82731	1.33%	0.143%
23	17.182	2661	2670	2680	rBV5	177224	432542	6.98%	0.746%
24	17.503	2726	2730	2742	rVB10	27405	64906	1.05%	0.112%
25	17.700	2757	2767	2776	rBV	3156349	6197395	100.00%	10.690%
26	18.374	2889	2893	2900	rVB7	36960	71204	1.15%	0.123%
27	18.635	2935	2942	2949	rBV6	87163	194896	3.14%	0.336%
28	18.726	2951	2959	2969	rVV5	110073	326871	5.27%	0.564%
29	18.812	2970	2975	2980	rVV2	97249	216533	3.49%	0.373%
30	18.860	2982	2984	2997	rVB8	58779	124597	2.01%	0.215%
31	19.186	3028	3045	3055	rVB8	42395	180856	2.92%	0.312%

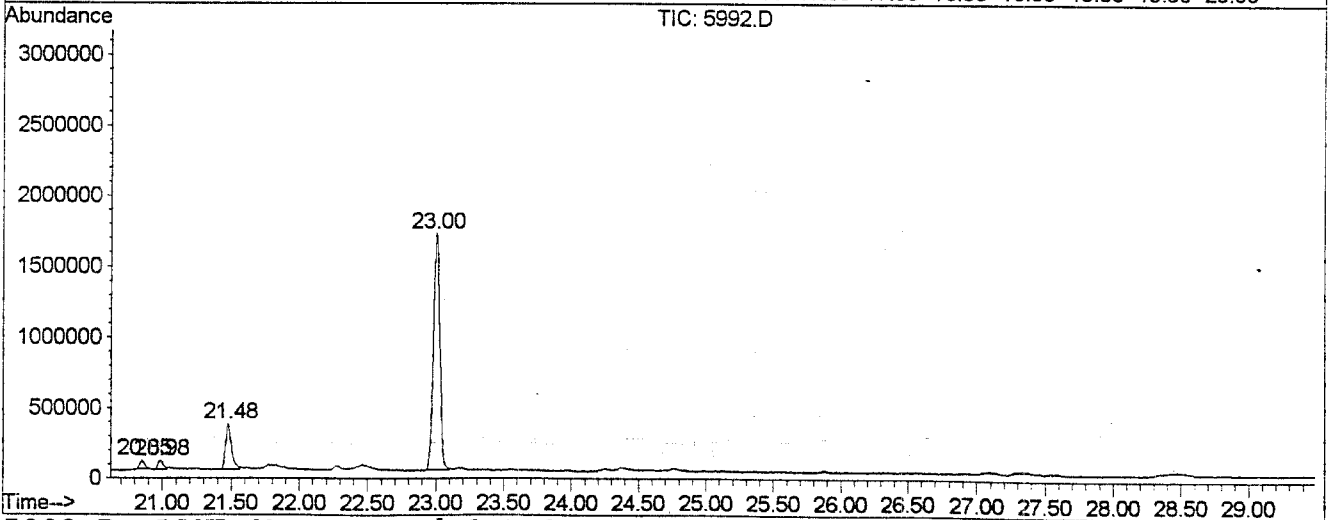
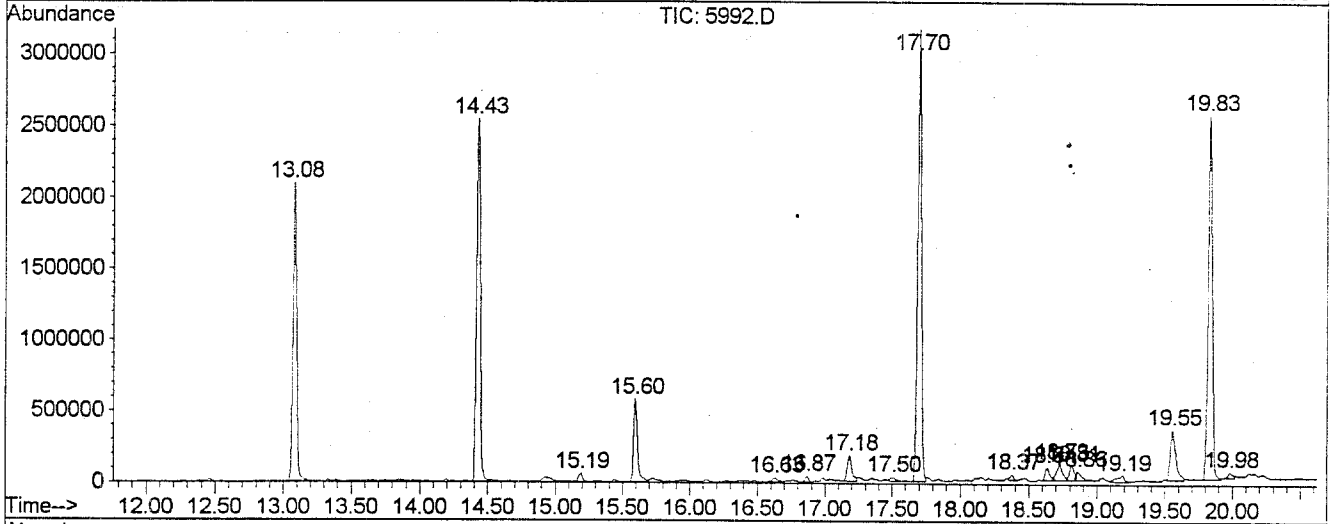
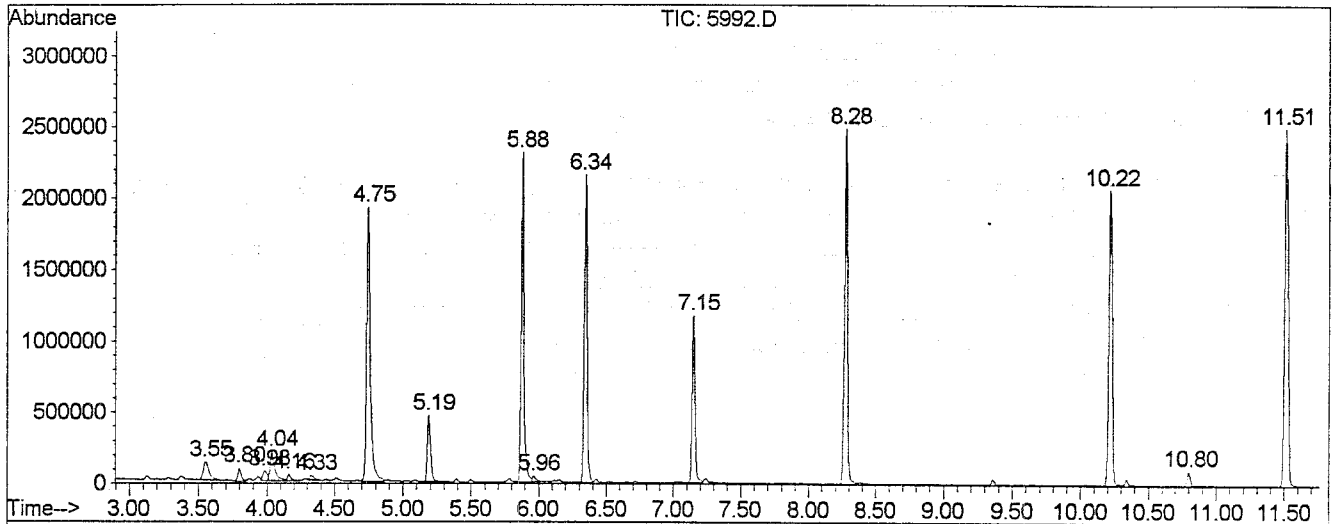
32	19.554	3106	3114	3131	rBV2	351083	990374	15.98%	1.708%
33	19.832	3156	3166	3182	rBV2	2544581	5537129	89.35%	9.551%
34	19.982	3189	3194	3200	rBV2	36316	77143	1.24%	0.133%
35	20.852	3351	3357	3368	rVB8	61665	147473	2.38%	0.254%
36	20.981	3375	3381	3390	rBV5	60556	158604	2.56%	0.274%
37	21.477	3464	3474	3490	rBV2	322941	969916	15.65%	1.673%
38	23.000	3746	3759	3777	rBV2	1671367	5426905	87.57%	9.361%

Sum of corrected areas: 57975973

5992.D LANL.M Wed Oct 21 08:38:35 1998 HPMS7

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\101698\5992.D
 Operator : MLS
 Acquired : 16 Oct 1998 20:01 using AcqMethod BNA
 Instrument : HPMS 7
 Sample Name: 09-522-05 SOIL
 Misc Info : SOIL
 Vial Number: 15
 Quant File :LANL.RES (RTE Integrator)



5992.D LANL.M Wed Oct 21 08:38:36 1998 HPMS7

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\101698\5992.D

Vial: 15

Acq On : 16 Oct 1998 20:01

Operator: MLS

Sample : 09-522-05 SOIL

Inst : HPMS 7

Misc : SOIL

Multiplr: 33.00

MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

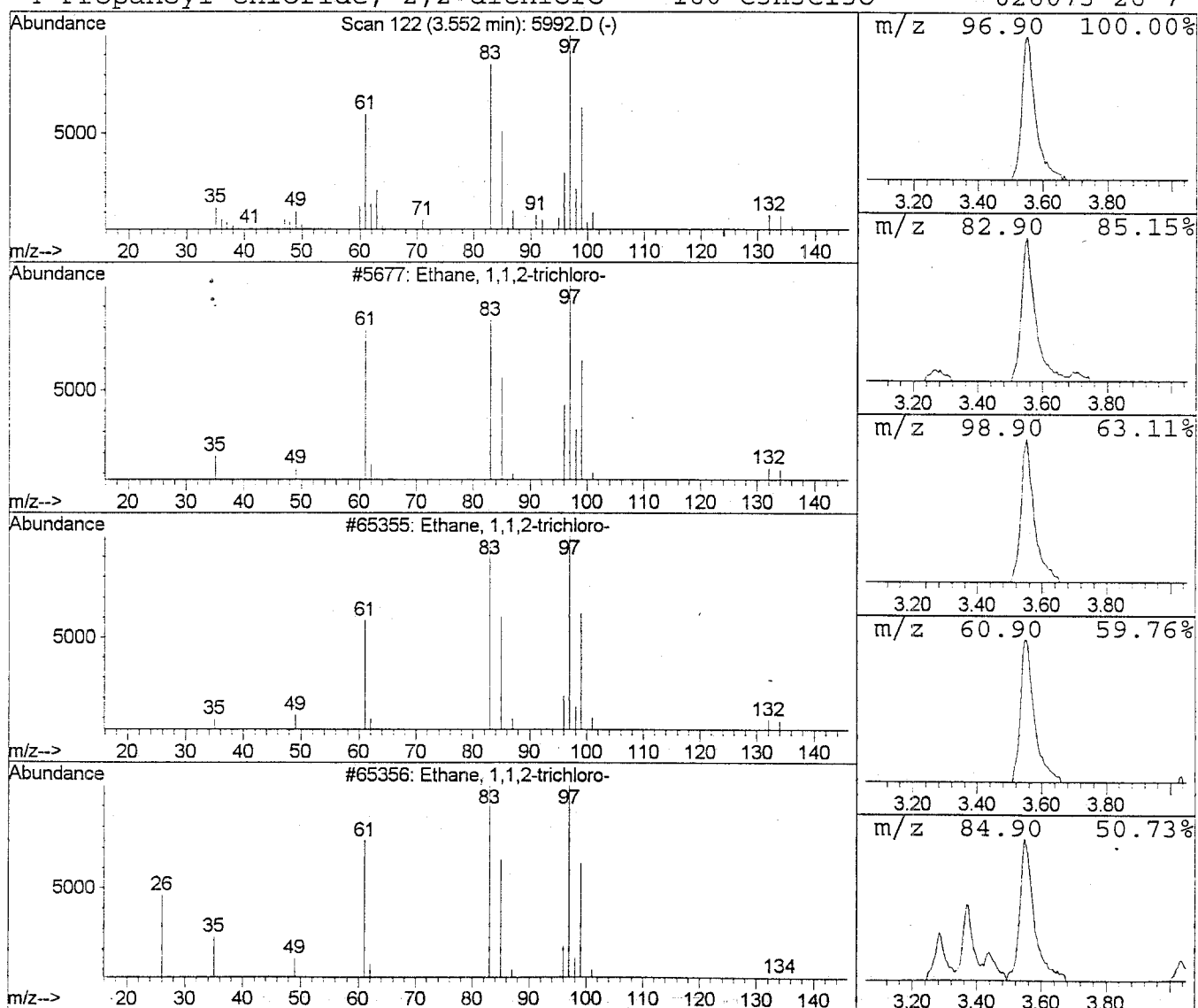
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Library : C:\DATABASE\NBS75K.L

Peak Number 1 Ethane, 1,1,2-trichloro- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.55	163.06 ug/L	390494	1,4-Dichlorobenzene-d4	6.34

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qua
1			Ethane, 1,1,2-trichloro-	132	C2H3Cl3	000079-00-5	98
2			Ethane, 1,1,2-trichloro-	132	C2H3Cl3	000079-00-5	98
3			Ethane, 1,1,2-trichloro-	132	C2H3Cl3	000079-00-5	94
4			Propanoyl chloride, 2,2-dichloro-	160	C3H3Cl3O	026073-26-7	43



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Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\101698\5992.D
Acq On : 16 Oct 1998 20:01
Sample : 09-522-05 SOIL
Misc : SOIL
MS Integration Params: LSCINT.P

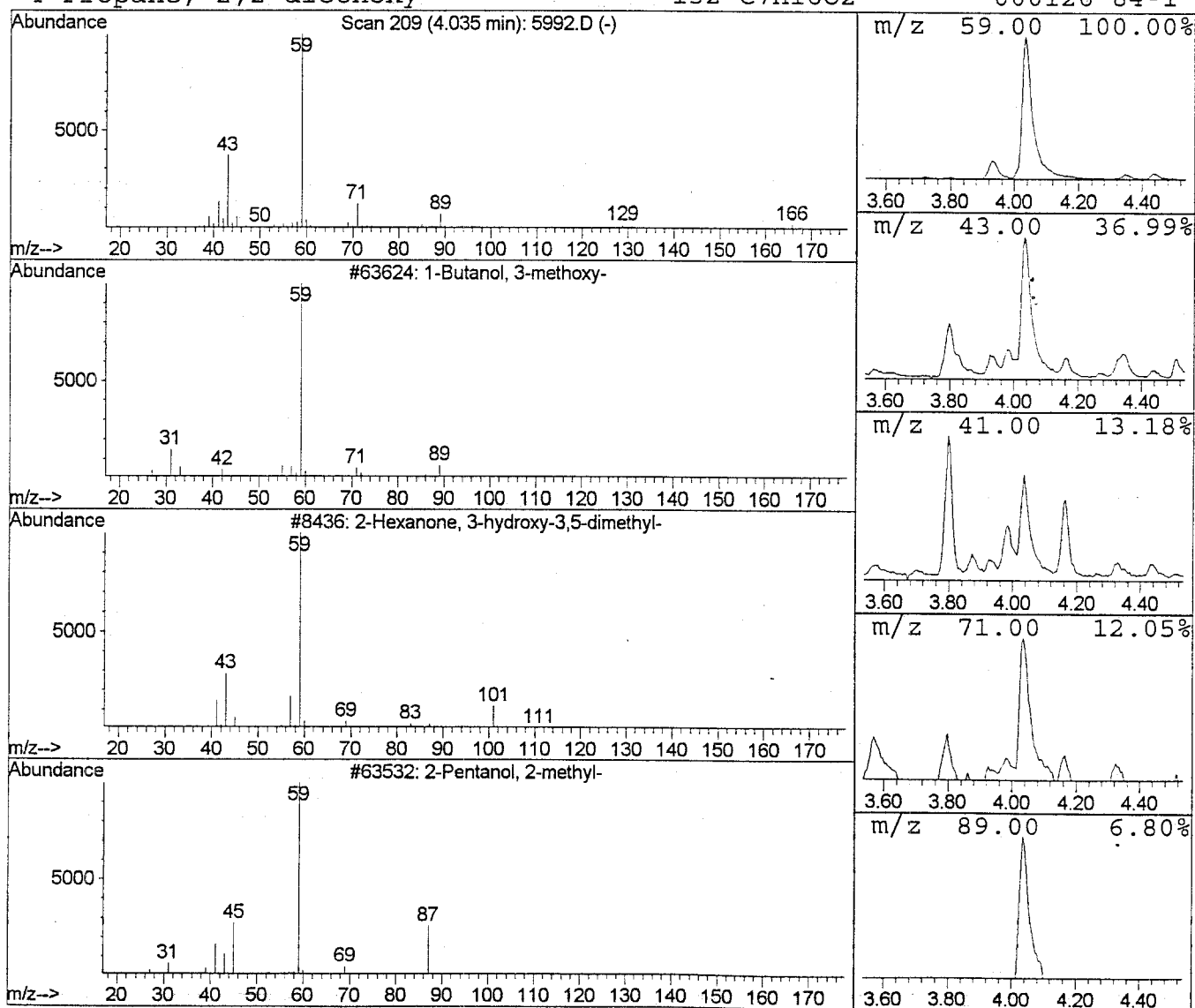
Vial: 15
Operator: MLS
Inst : HPMS 7
Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
Library : C:\DATABASE\NBS75K.L

Peak Number 2 1-Butanol, 3-methoxy- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.04	197.91 ug/L	473957	1,4-Dichlorobenzene-d4	6.34

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qua
1	5	1-Butanol, 3-methoxy-	104	C5H12O2	002517-43-3	56
2		2-Hexanone, 3-hydroxy-3,5-dimethyl-	144	C8H16O2	006321-14-8	45
3		2-Pentanol, 2-methyl-	102	C6H14O	000590-36-3	45
4		Propane, 2,2-diethoxy-	132	C7H16O2	000126-84-1	39



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\101698\5992.D

Acq On : 16 Oct 1998 20:01

Sample : 09-522-05 SOIL

Misc : SOIL

MS Integration Params: LSCINT.P

Vial: 15

Operator: MLS

Inst : HPMS 7

Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

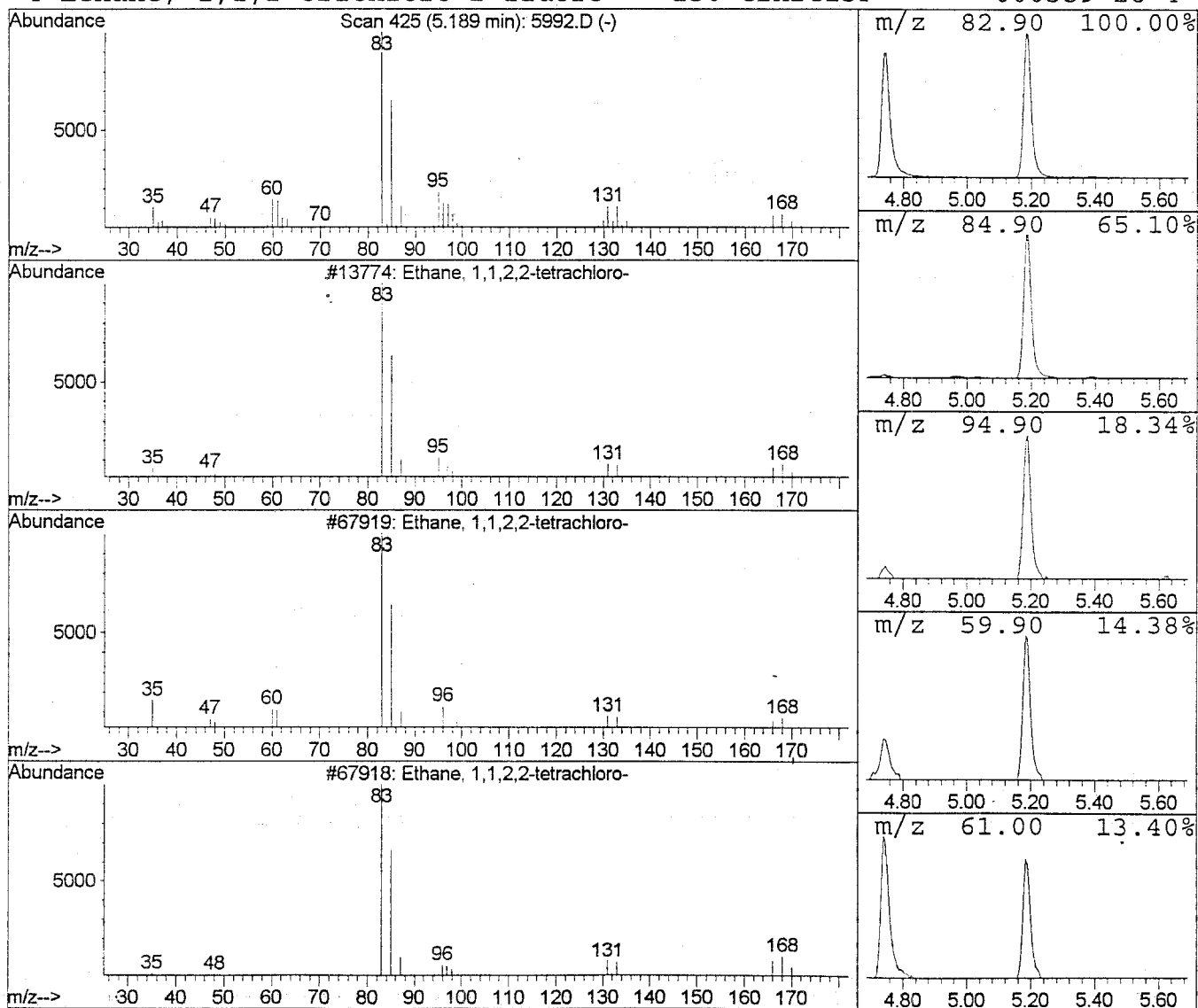
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Library : C:\DATABASE\NBS75K.L

Peak Number 3 Ethane, 1,1,2,2-tetrachloro- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.19	328.61 ug/L	786954	1,4-Dichlorobenzene-d4	6.34

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qua
1	5	Ethane, 1,1,2,2-tetrachloro-	166	C2H2Cl4	000079-34-5	97
2		Ethane, 1,1,2,2-tetrachloro-	166	C2H2Cl4	000079-34-5	93
3		Ethane, 1,1,2,2-tetrachloro-	166	C2H2Cl4	000079-34-5	87
4		Ethane, 1,1,2-trichloro-2-fluoro-	150	C2H2Cl3F	000359-28-4	72



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\101698\5992.D

Acq On : 16 Oct 1998 20:01

Sample : 09-522-05 SOIL

Misc : SOIL

MS Integration Params: LSCINT.P

Vial: 15

Operator: MLS

Inst : HPMS 7

Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

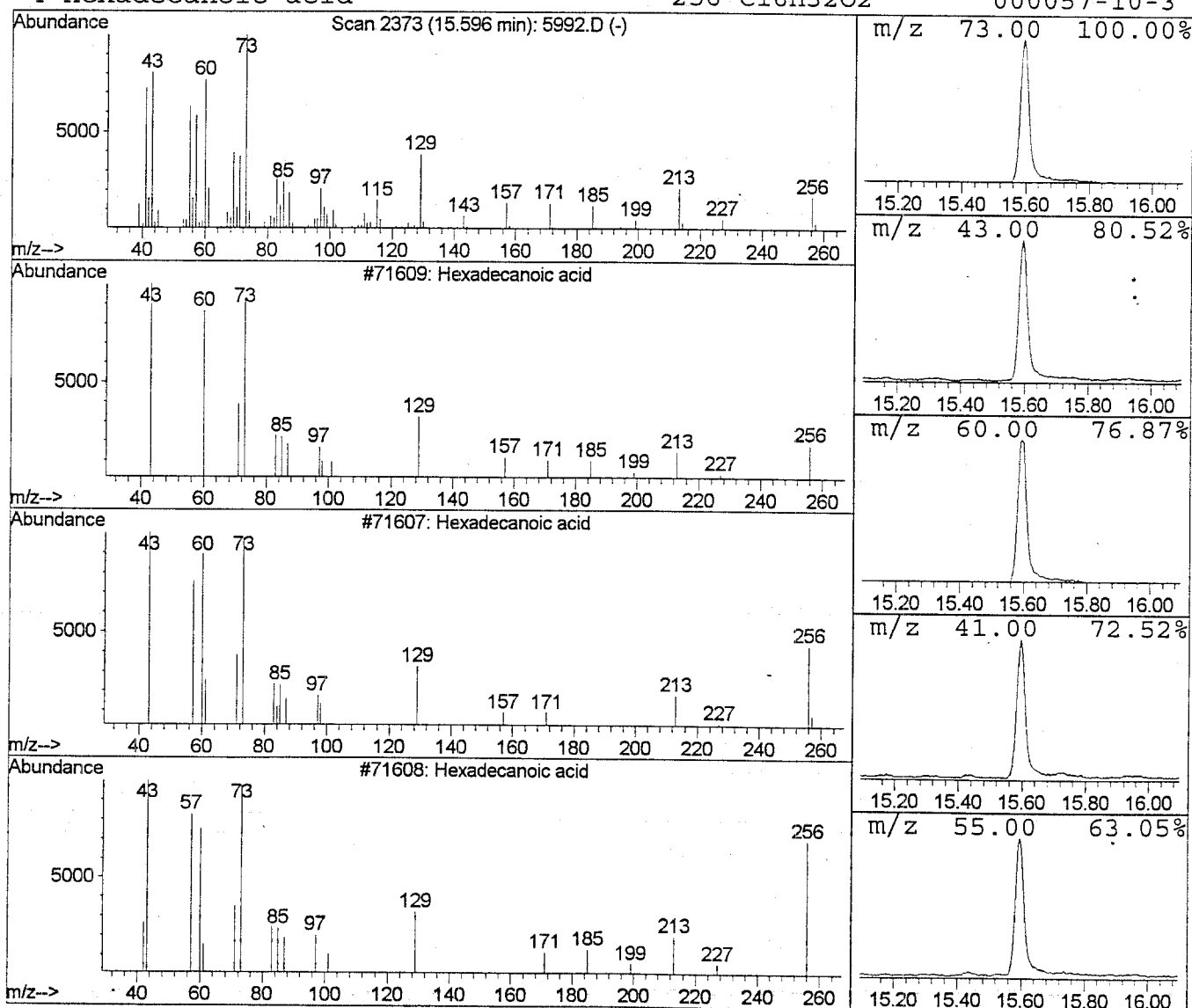
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Library : C:\DATABASE\NBS75K.L

Peak Number 4 Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.60	314.61 ug/L	1169970	Phenanthrene-d10	14.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qua
1	Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Hexadecanoic acid	256	C16H32O2	000057-10-3	99
3	Hexadecanoic acid	256	C16H32O2	000057-10-3	98
4	Hexadecanoic acid	256	C16H32O2	000057-10-3	96



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\101698\5992.D

Acq On : 16 Oct 1998 20:01

Sample : 09-522-05 SOIL

Misc : SOIL

MS Integration Params: LSCINT.P

Vial: 15

Operator: MLS

Inst : HPMS 7

Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

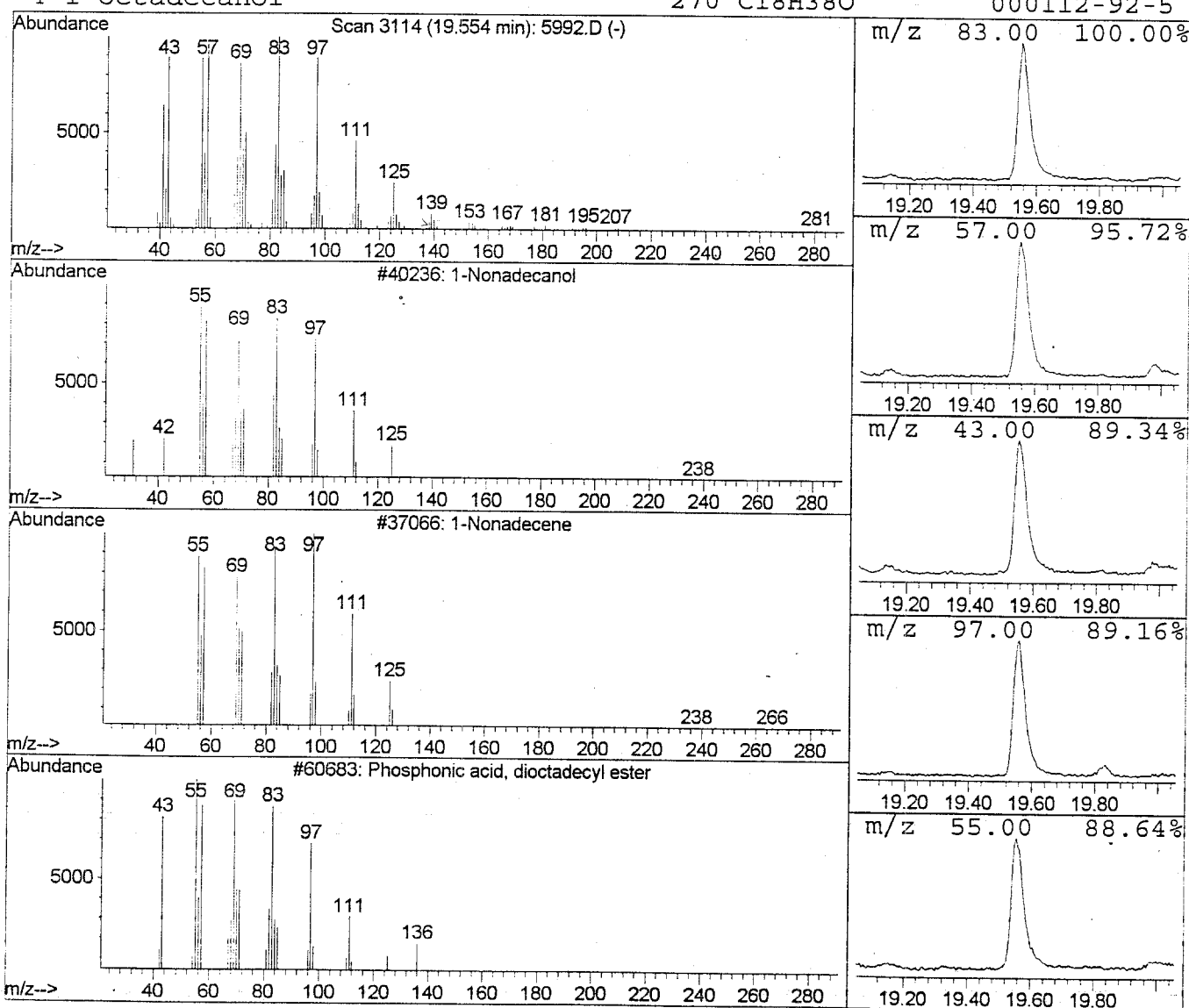
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Library : C:\DATABASE\NBS75K.L

Peak Number 5 1-Nonadecanol Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.55	236.10 ug/L	990374	Chrysene-d12	19.83

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qua
1	1-Nonadecanol		284	C19H40O	001454-84-8	95
2	1-Nonadecene		266	C19H38	018435-45-5	95
3	Phosphonic acid, dioctadecyl ester		587	C36H75O3P	019047-85-9	93
4	1-Octadecanol		270	C18H38O	000112-92-5	91



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\101698\5992.D
Acq On : 16 Oct 1998 20:01
Sample : 09-522-05 SOIL
Misc : SOIL
MS Integration Params: LSCINT.P

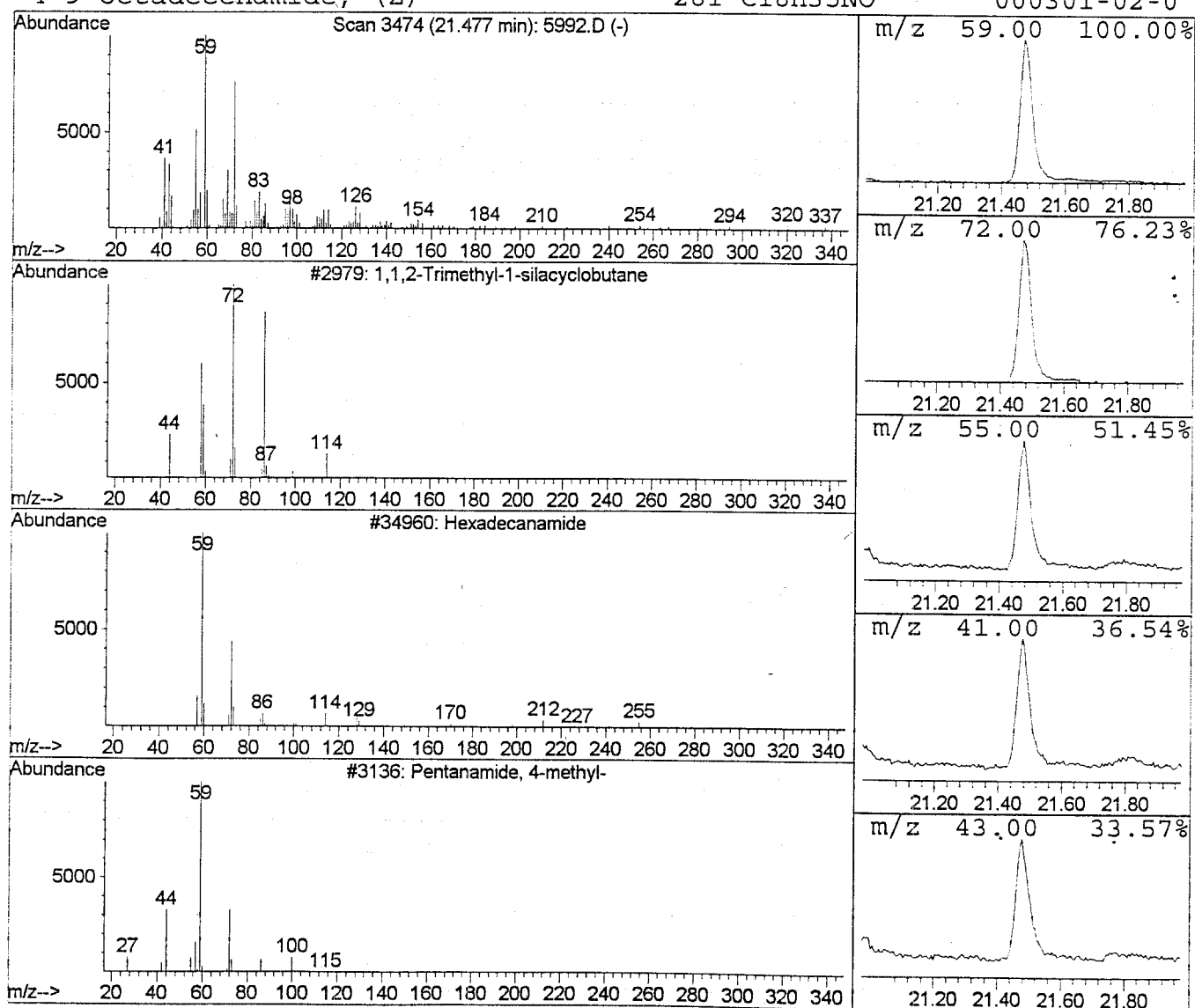
Vial: 15
Operator: MLS
Inst : HPMS 7
Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
Library : C:\DATABASE\NBS75K.L

Peak Number 6 1,1,2-Trimethyl-1-silacyclobut Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.48	235.92 ug/L	969916	Perylene-d12	23.01

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qua
1	1,1,2-Trimethyl-1-silacyclobutane	114	C6H14Si	030681-90-4	38	
2	Hexadecanamide	255	C16H33NO	000629-54-9	35	
3	Pentanamide, 4-methyl-	115	C6H13NO	001119-29-5	32	
4	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	30	



Tentatively Identified Compound (LSC) summary

Operator ID: MLS Date Acquired: 16 Oct 1998 20:01
 Data File: C:\HPCHEM\1\DATA\101698\5992.D
 Name: 09-522-05 SOIL
 Misc: SOIL
 Method: C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
 Title: M8270/625 LIST INITIAL CALIBRATION 10/13/98
 Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc Units	Area	IntStd	ISRT	ISArea	ISCon
Ethane, 1,1,2-trichl	3.55	163.1 ug/L	390494	ISTD01	6.34	3161180	40.
1-Butanol, 3-methoxy	4.04	197.9 ug/L	473957	ISTD01	6.34	3161180	40.
Ethane, 1,1,2,2-tetr	5.19	328.6 ug/L	786954	ISTD01	6.34	3161180	40.
Hexadecanoic acid	15.60	314.6 ug/L	1169970	ISTD04	14.43	4908780	40.
1-Nonadecanol	19.55	236.1 ug/L	990374	ISTD05	19.83	5537130	40.
1,1,2-Trimethyl-1-si	21.48	235.9 ug/L	969916	ISTD06	23.01	5426910	40.

5992.D LANL.M Wed Oct 21 08:38:45 1998 HPMS7

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\101698\5993.D

Acq On : 16 Oct 1998 20:40

Sample : 09-522-06 SOIL

Misc : SOIL

MS Integration Params: rteint.p

Quant Time: Oct 20 14:12 1998

Vial: 16

Operator: MLS

Inst : HPMS 7

Multiplr: 33.00

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Sun Oct 18 11:51:56 1998

Response via : Initial Calibration

DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-Dichlorobenzene-d4	6.35	152	544962	40.00	ug/L	0.00
19) Naphthalene-d8	8.28	136	1977555	40.00	ug/L	0.00
34) Acenaphthene-d10	11.51	164	1115803	40.00	ug/L	-0.01
56) Phenanthrene-d10	14.43	188	1883985	40.00	ug/L	-0.01
67) Chrysene-d12	19.83	240	1912780	40.00	ug/L	-0.02
76) Perylene-d12	23.01	264	2025569	40.00	ug/L	-0.02

System Monitoring Compounds

4) 2-Fluorophenol	4.75	112	1287051	61.44	ug/L	0.00
Spiked Amount 100.000	Range 25 - 121		Recovery =	61.44%		
6) Phenol-d5	5.88	99	1523490	66.20	ug/L	0.00
Spiked Amount 100.000	Range 24 - 113		Recovery =	66.20%		
20) Nitrobenzene-d5	7.15	82	675647	34.45	ug/L	0.00
Spiked Amount 50.000	Range 23 - 120		Recovery =	68.90%		
38) 2-Fluorobiphenyl	10.22	172	1410242	37.68	ug/L	0.00
Spiked Amount 50.000	Range 30 - 115		Recovery =	75.36%		
55) 2,4,6-Tribromophenol	13.08	330	487891	79.14	ug/L	-0.01
Spiked Amount 100.000	Range 19 - 122		Recovery =	79.14%		
70) Terphenyl-d14	17.70	244	2272455	51.80	ug/L	0.00
Spiked Amount 50.000	Range 18 - 137		Recovery =	103.60%		

Target Compounds

					Qvalue
2) Pyridine	0.00	79	0	N.D.	
3) n-Nitrosodimethylamine	0.00	74	0	N.D.	
5) Aniline	5.93	93	1419	2.01 ug/L #	1
7) Phenol	5.89	94	2553	3.31 ug/L #	1
8) bis-(2-Chloroethyl) ether	6.00	93	842	1.45 ug/L #	1
9) 2-Chlorophenol	6.11	128	2056	3.29 ug/L #	80
10) 1,3-Dichlorobenzene	6.37	146	1840	2.76 ug/L #	1
11) 1,4-Dichlorobenzene	6.37	146	1840	2.72 ug/L #	1
12) Benzyl Alcohol	0.00	108	0	N.D.	
13) 1,2-Dichlorobenzene	0.00	146	0	N.D.	
14) 2-Methylphenol	0.00	107	0	N.D.	
15) Bis(2-chloroisopropyl) ethe	0.00	45	0	N.D.	
16) 4-Methylphenol	0.00	107	0	N.D.	
17) n-Nitroso-di-n-propylamine	0.00	70	0	N.D.	
18) Hexachloroethane	0.00	117	0	N.D.	
21) Nitrobenzene	7.15	77	2227	3.85 ug/L #	42
22) Isophorone	7.53	82	163	0.17 ug/L #	64
23) 2-Nitrophenol	0.00	139	0	N.D.	
24) 2,4-Dimethylphenol	0.00	122	0	N.D.	

(#)=qualifier out of range (m)=manual integration

5993.D LANL.M

Tue Oct 20 14:12:29 1998

HPMS7

Page 1

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Data File : C:\HPCHEM\1\DATA\101698\5993.D

Vial: 16

Acq On : 16 Oct 1998 20:40

Operator: MLS

Sample : 09-522-06 SOIL

Inst : HPMS 7

Misc : SOIL

Multiplr: 33.00

MS Integration Params: rteint.p

Quant Time: Oct 20 14:12 1998

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Sun Oct 18 11:51:56 1998

Response via : Initial Calibration

DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25) bis(2-chloroethoxy)methane	0.00	93	0	N.D.		
26) Benzoic Acid	0.00	122	0	N.D.		
27) 2,4-Dichlorophenol	0.00	162	0	N.D.		
28) 1,2,4-Trichlorobenzene	8.21	180	439	0.84	ug/L #	50
29) Naphthalene	8.31	128	577	0.37	ug/L #	68
30) 4-Chloroaniline	0.00	127	0	N.D.		
31) Hexachlorobutadiene	0.00	225	0	N.D.		
32) 4-chloro-3methylphenol	9.36	107	1070	2.34	ug/L #	16
33) 2-Methylnaphthalene	0.00	142	0	N.D.		
35) Hexachlorocyclopentadiene	0.00	237	0	N.D.		
36) 2,4,6-Trichlorophenol	0.00	196	0	N.D.		
37) 2,4,5-Trichlorophenol	0.00	196	0	N.D.		
39) 2-Chloronaphthalene	0.00	162	0	N.D.		
40) 2-Nitroaniline	0.00	65	0	N.D.		
41) Dimethylphthalate	0.00	163	0	N.D.		
42) Acenaphthylene	0.00	152	0	N.D.		
43) 2,6-Dinitrotoluene	0.00	165	0	N.D.		
44) 3-Nitroaniline	0.00	138	0	N.D.		
45) Acenaphthene	11.51	154	3474	3.64	ug/L #	7
46) 2,4-Dinitrophenol	0.00	184	0	N.D.		
47) 4-Nitrophenol	0.00	65	0	N.D.		
48) Dibenzofuran	0.00	168	0	N.D.		
49) 2,4-Dinitrotoluene	0.00	165	0	N.D.		
50) Diethylphthalate	12.44	149	4365	3.99	ug/L #	77
51) Fluorene	0.00	166	0	N.D.		
52) 4-Chlorophenyl-phenylether	0.00	204	0	N.D.		
53) 4-Nitroaniline	0.00	138	0	N.D.		
54) 1,2-Diphenylhydrazine	12.92	77	4062	3.65	ug/L #	34
57) 4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.		
58) n-Nitrosodiphenylamine	0.00	169	0	N.D.		
59) 4-Bromophenyl-phenyl ether	0.00	248	0	N.D.		
60) Hexachlorobenzene	0.00	284	0	N.D.		
61) Pentachlorophenol	0.00	266	0	N.D.		
62) Phenanthrene	14.47	178	562	0.34	ug/L #	59
63) Anthracene	0.00	178	0	N.D.		
64) Carbazole	14.94	167	558	0.44	ug/L #	63
65) Di-n-butylphthalate	15.72	149	19878	11.32	ug/L #	92
66) Fluoranthene	0.00	202	0	N.D.		
68) Benzidine	0.00	184	0	N.D.		
69) Pyrene	0.00	202	0	N.D.		
71) Butylbenzylphthalate	18.75	149	3591	4.31	ug/L #	34

(#)=qualifier out of range (m)=manual integration

5993.D LANL.M

Tue Oct 20 14:12:31 1998

HPMS7

Data File : C:\HPCHEM\1\DATA\101698\5993.D

Vial: 16

Acq On : 16 Oct 1998 20:40

Operator: MLS

Sample : 09-522-06 SOIL

Inst : HPMS 7

Misc : SOIL

Multiplr: 33.00

MS Integration Params: rteint.p

Quant Time: Oct 20 14:12 1998

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Sun Oct 18 11:51:56 1998

Response via : Initial Calibration

DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
72) Benzo(a)anthracene	19.84	228	4926	2.59	ug/L #	58
73) 3,3'-Dichlorobenzidine	0.00	252	0	N.D.		
74) Chrysene	19.84	228	4926	3.74	ug/L #	55
75) Bis(2-ethylhexyl)phthalate	19.98	149	27772	23.47	ug/L #	95
77) Di-n-octylphthalate	21.19	149	4584	2.09	ug/L #	78
78) Benzo(b)fluoranthene	0.00	252	0	N.D.		
79) Benzo(k)fluoranthene	0.00	252	0	N.D.		
80) Benzo(a)pyrene	0.00	252	0	N.D.		
81) Indeno(1,2,3-cd)pyrene	0.00	276	0	N.D.		
82) Dibenz(a,h)anthracene	0.00	278	0	N.D.		
83) Benzo(g,h,i)perylene	0.00	276	0	N.D.		

(#) = qualifier out of range (m) = manual integration

5993.D LANL.M

Tue Oct 20 14:12:31 1998

HPMS7

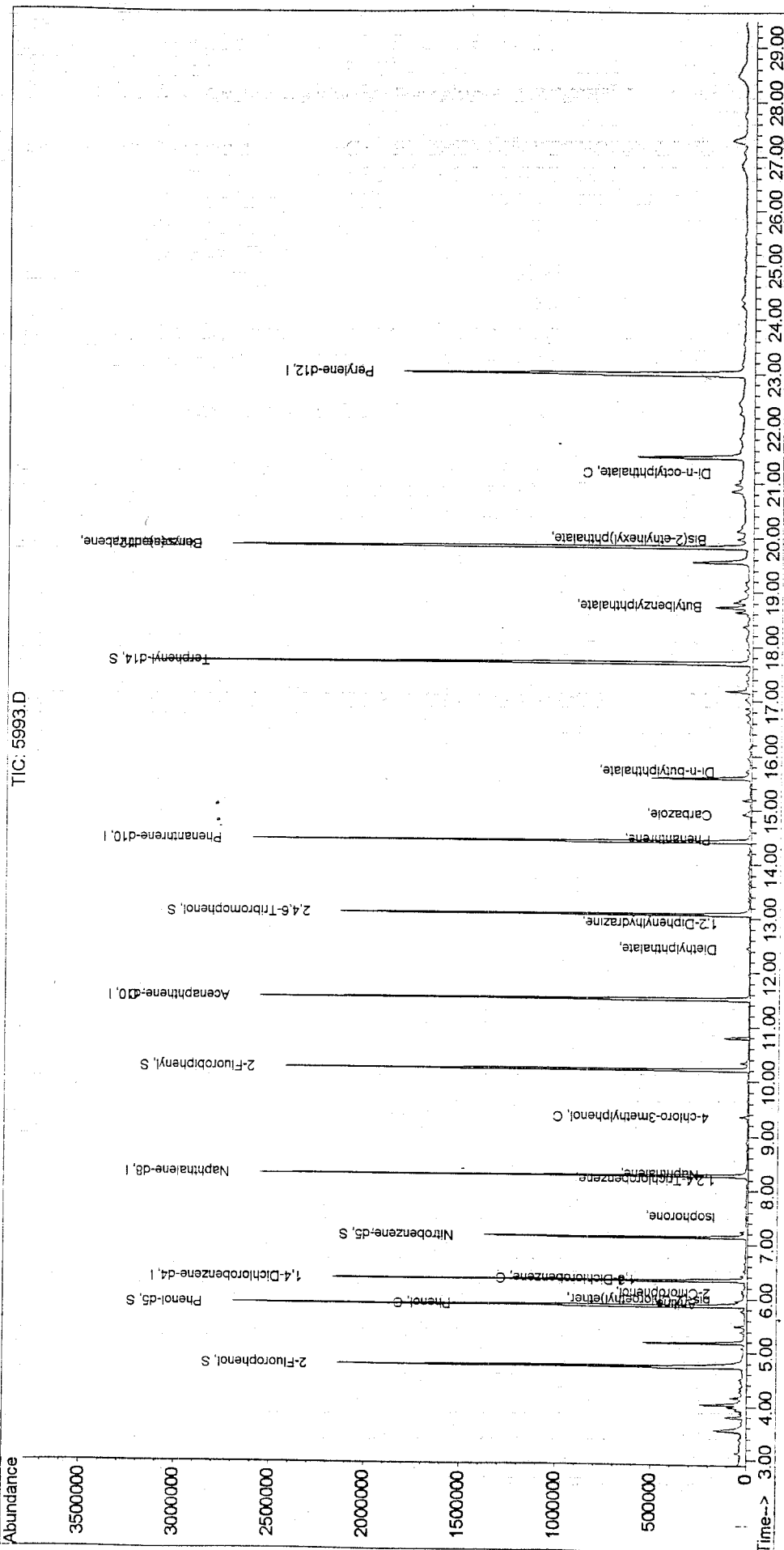
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Quantitation Report

Data File : C:\HPCHEM\1\DATA\101698\5993.D
 Acq On : 16 Oct 1998 20:40
 Sample : 09-522-06 SOIL
 Misc : SOIL
 MS Integration Params: rteint.p
 Quant Time: Oct 20 14:12 1998
 Vial: 16
 Operator: MLS
 Inst : HPMS 7
 Multiplr: 33.00
 Quant Results File: LANL.RES

Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
 Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
 Last Update : Sun Oct 18 11:51:56 1998
 Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\101698\5993.D

Vial: 16

Acq On : 16 Oct 1998 20:40

Operator: MLS

Sample : 09-522-06 SOIL

Inst : HPMS 7

Misc : SOIL

Multiplr: 33.00

MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Smoothing : OFF

Filtering: 5

Sampling : 1

Min Area: 1 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	3.556	114	123	143	rVB3	143286	474576	7.57%	0.779%
2	3.800	161	168	175	rBV	95085	166921	2.66%	0.274%
3	3.935	188	193	198	rBV2	35150	78836	1.26%	0.129%
4	3.990	198	203	206	rVV	79833	178221	2.84%	0.293%
5	4.035	206	210	229	rVV	218464	512671	8.18%	0.842%
6	4.163	229	234	246	rVB2	67141	128620	2.05%	0.211%
7	4.746	333	343	366	rBV	2118026	4192663	66.88%	6.886%
8	5.189	419	426	443	rVB	524608	931982	14.87%	1.531%
9	5.499	479	484	492	rVB	52703	87839	1.40%	0.144%
10	5.878	549	555	567	rBV	2677935	3989545	63.64%	6.553%
11	5.964	569	571	579	rVB4	44221	66888	1.07%	0.110%
12	6.343	636	642	654	rBV	2154361	3330476	53.13%	5.470%
13	7.150	786	793	806	rBV	1363632	1995067	31.82%	3.277%
14	8.277	994	1004	1019	rBV	2547672	4046835	64.55%	6.647%
15	9.356	1202	1206	1214	rVB2	42304	66304	1.06%	0.109%
16	10.216	1359	1367	1382	rBV	2420169	4169437	66.51%	6.848%
17	10.798	1469	1476	1482	rBV2	131956	228784	3.65%	0.376%
18	11.514	1601	1610	1625	rBV	2557632	4560158	72.74%	7.490%
19	13.085	1895	1904	1923	rBV	2135836	4079872	65.08%	6.701%
20	14.431	2147	2156	2170	rBV2	2604879	4962586	79.16%	8.151%
21	14.928	2240	2249	2254	rBV2	42157	109328	1.74%	0.180%
22	15.189	2291	2298	2305	rBV	45530	81753	1.30%	0.134%
23	15.595	2366	2374	2388	rBV2	517237	992546	15.83%	1.630%
24	17.187	2664	2672	2681	rBV4	127392	300676	4.80%	0.494%
25	17.700	2756	2768	2778	rBV	3141001	6269028	100.00%	10.297%
26	18.379	2883	2895	2900	rVB	31973	82741	1.32%	0.136%
27	18.635	2937	2943	2951	rBV8	65281	157095	2.51%	0.258%
28	18.726	2951	2960	2970	rVV2	169282	445028	7.10%	0.731%
29	18.811	2972	2976	2982	rVV	76255	165457	2.64%	0.272%
30	18.860	2982	2985	2997	rVB10	49128	116787	1.86%	0.192%
31	19.554	3107	3115	3137	rBV2	282870	827719	13.20%	1.359%

32	19.832	3157	3167	3179	rBV2	2692875	5588673	89.15%	9.179%
33	19.981	3187	3195	3202	rBV2	39635	104320	1.66%	0.171%
34	20.126	3215	3222	3227	rBV6	40658	98180	1.57%	0.161%
35	20.857	3352	3359	3371	rVB7	60498	173506	2.77%	0.285%
36	20.986	3376	3383	3388	rBV7	38151	87276	1.39%	0.143%
37	21.477	3465	3475	3489	rBV	545427	1497554	23.89%	2.460%
38	23.005	3747	3761	3778	rBV2	1770670	5538282	88.34%	9.096%

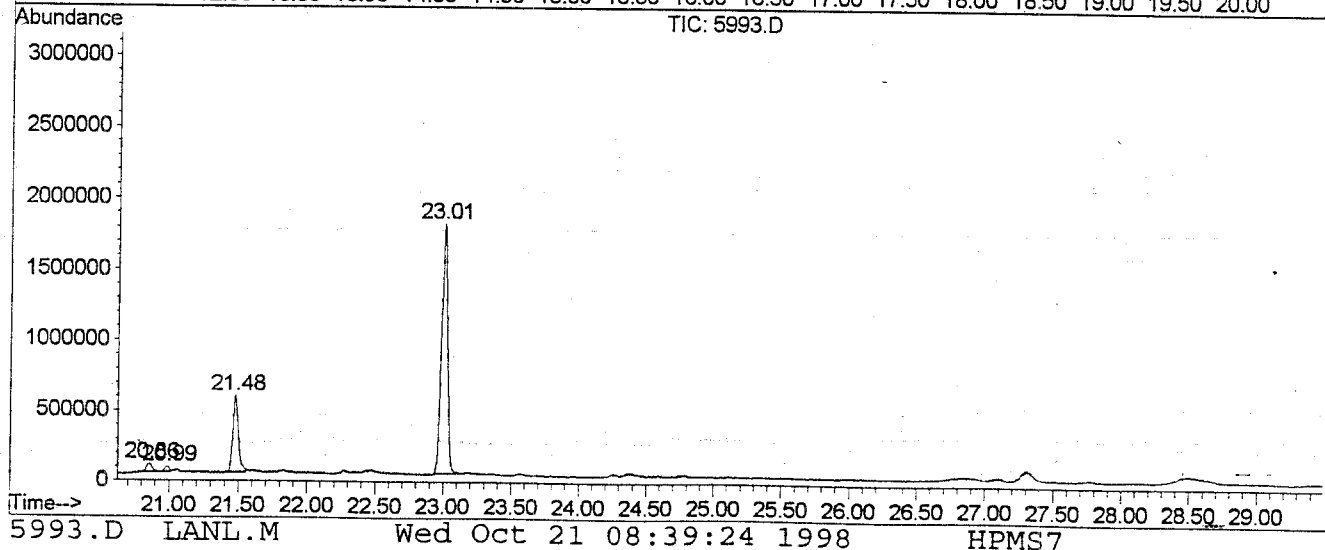
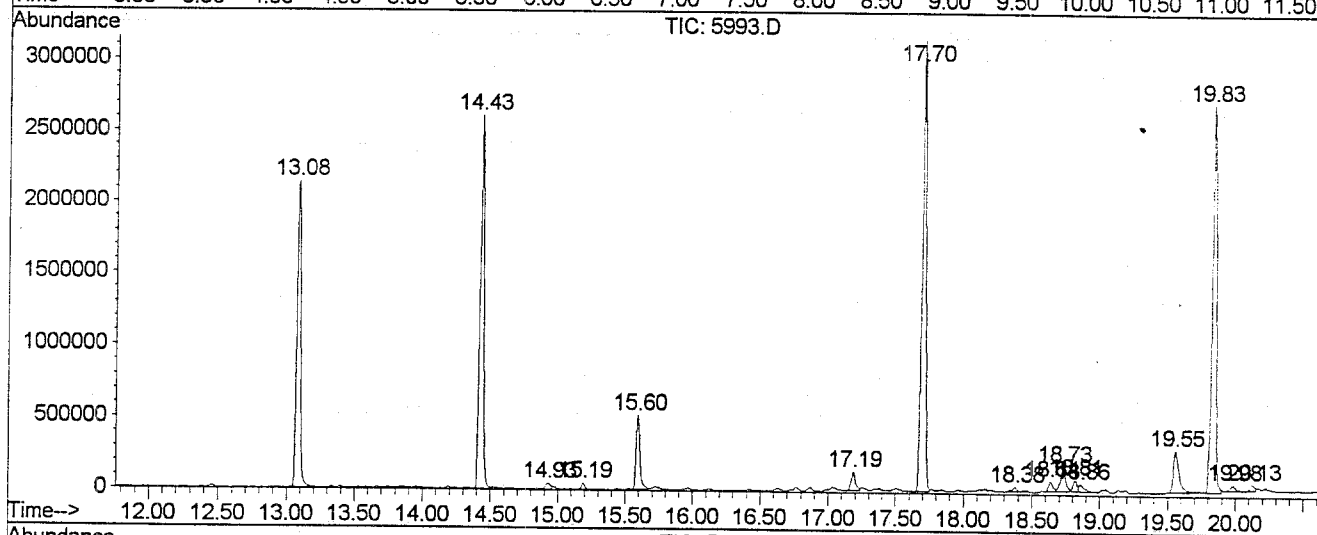
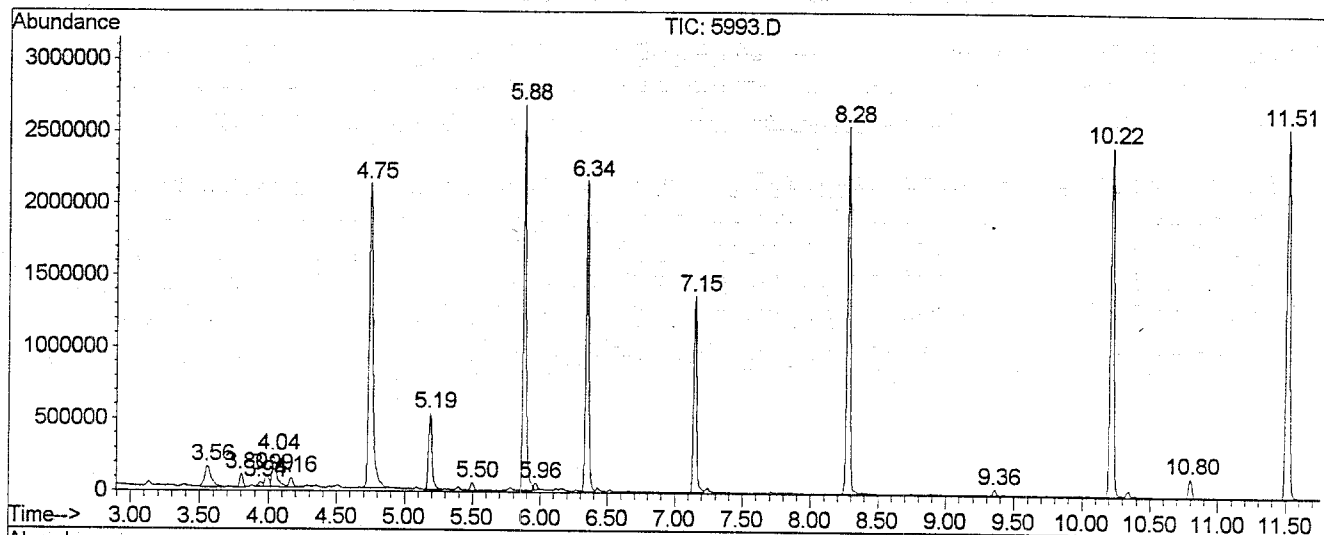
Sum of corrected areas: 60884230

5993.D LANL.M

Wed Oct 21 08:39:23 1998 HPMS7

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\101698\5993.D
 Operator : MLS
 Acquired : 16 Oct 1998 20:40 using AcqMethod BNA
 Instrument : HPMS 7
 Sample Name: 09-522-06 SOIL
 Misc Info : SOIL
 Vial Number: 16
 Quant File : LANL.RES (RTE Integrator)



5993.D LANL.M

Wed Oct 21 08:39:24 1998

HPMS7

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\101698\5993.D
Acq On : 16 Oct 1998 20:40
Sample : 09-522-06 SOIL
Misc : SOIL
MS Integration Params: LSCINT.P

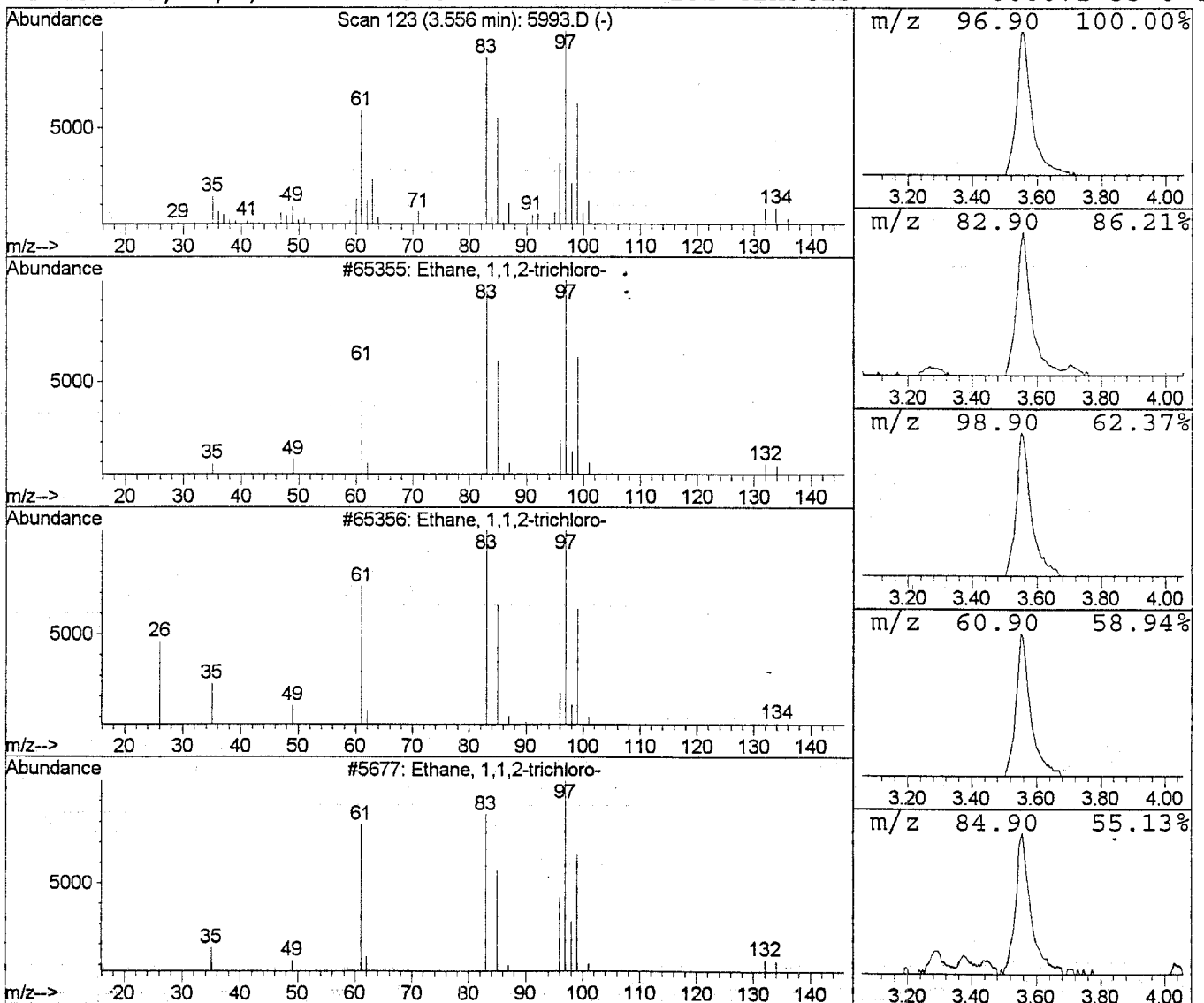
Vial: 16
Operator: MLS
Inst : HPMS 7
Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
Library : C:\DATABASE\NBS75K.L

Peak Number 1 Ethane, 1,1,2-trichloro- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.56	188.09 ug/L	474576	1,4-Dichlorobenzene-d4	6.35

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qua
1		Ethane, 1,1,2-trichloro-	132	C2H3Cl3	000079-00-5	98
2		Ethane, 1,1,2-trichloro-	132	C2H3Cl3	000079-00-5	96
3		Ethane, 1,1,2-trichloro-	132	C2H3Cl3	000079-00-5	95
4		Ethane, 1,1,1-trichloro-	132	C2H3Cl3	000071-55-6	46



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\101698\5993.D
Acq On : 16 Oct 1998 20:40
Sample : 09-522-06 SOIL
Misc : SOIL
MS Integration Params: LSCINT.P

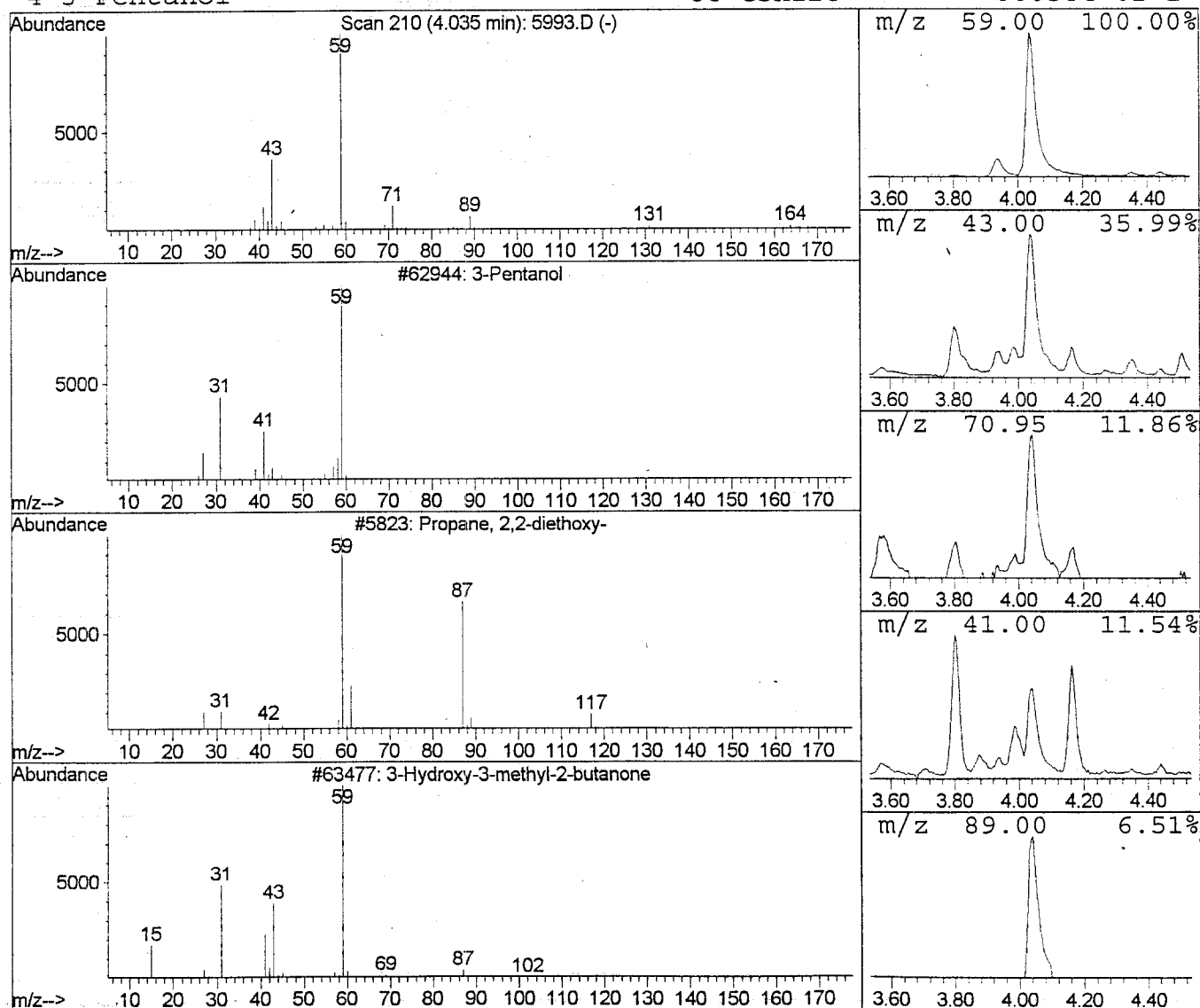
Vial: 16
Operator: MLS
Inst : HPMS 7
Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
Library : C:\DATABASE\NBS75K.L

Peak Number 2 3-Pentanol Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.04	203.19 ug/L	512671	1,4-Dichlorobenzene-d4	6.35

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qua
1			3-Pentanol	88	C5H12O	000584-02-1	50
2			Propane, 2,2-diethoxy-	132	C7H16O2	000126-84-1	39
3			3-Hydroxy-3-methyl-2-butanone	102	C5H10O2	000115-22-0	39
4			3-Pentanol	88	C5H12O	000584-02-1	39



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\101698\5993.D

Acq On : 16 Oct 1998 20:40

Sample : 09-522-06 SOIL

Misc : SOIL

MS Integration Params: LSCINT.P

Vial: 16

Operator: MLS

Inst : HPMS 7

Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

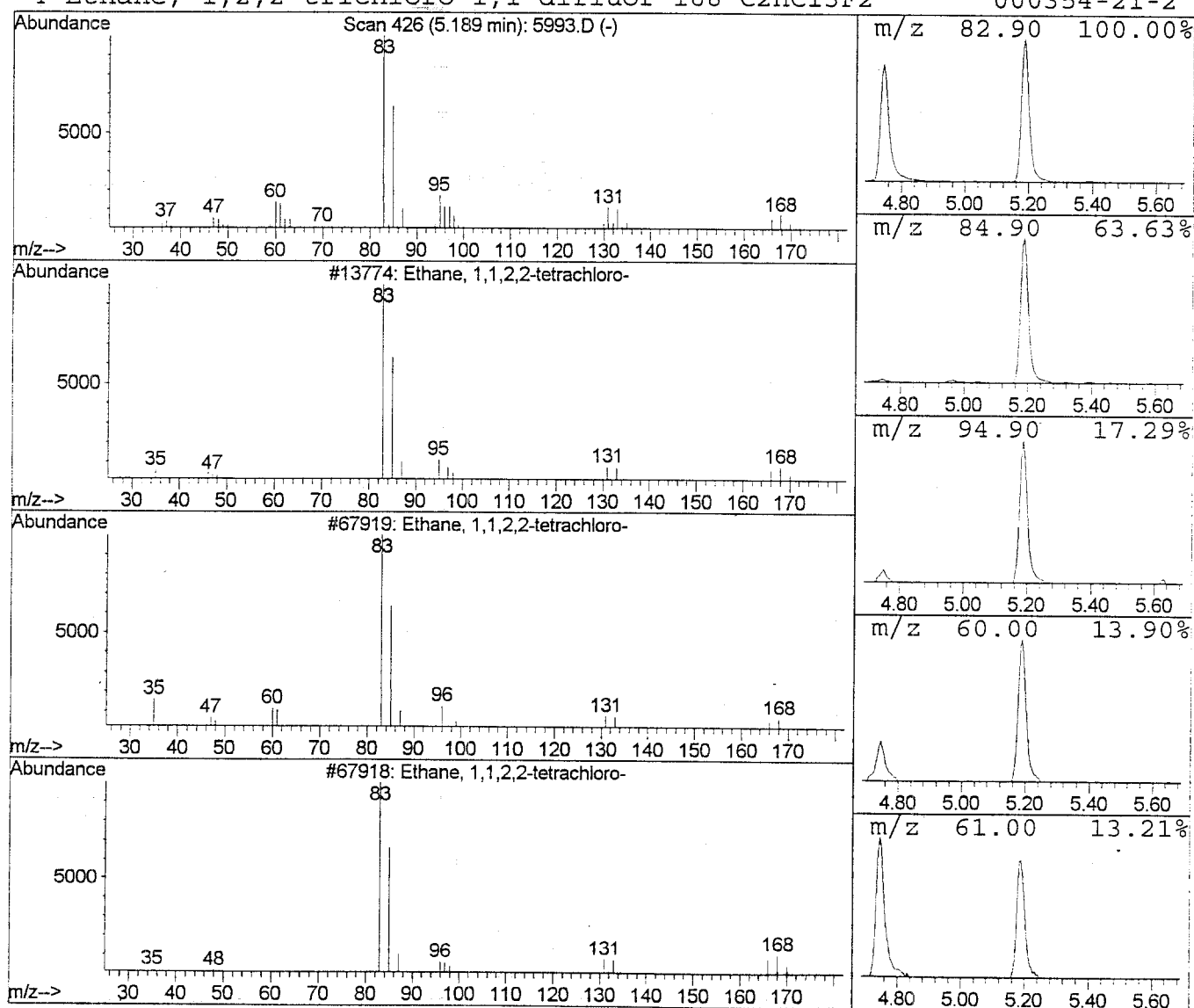
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Library : C:\DATABASE\NBS75K.L

Peak Number 3 Ethane, 1,1,2,2-tetrachloro- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.19	369.38 ug/L	931982	1,4-Dichlorobenzene-d4	6.35

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qua
1		Ethane, 1,1,2,2-tetrachloro-	166	C2H2Cl4	000079-34-5	93
2		Ethane, 1,1,2,2-tetrachloro-	166	C2H2Cl4	000079-34-5	93
3		Ethane, 1,1,2,2-tetrachloro-	166	C2H2Cl4	000079-34-5	87
4		Ethane, 1,2,2-trichloro-1,1-difluor	168	C2HCl3F2	000354-21-2	62



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\101698\5993.D

Acq On : 16 Oct 1998 20:40

Sample : 09-522-06 SOIL

Misc : SOIL

MS Integration Params: LSCINT.P

Vial: 16

Operator: MLS

Inst : HPMS 7

Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

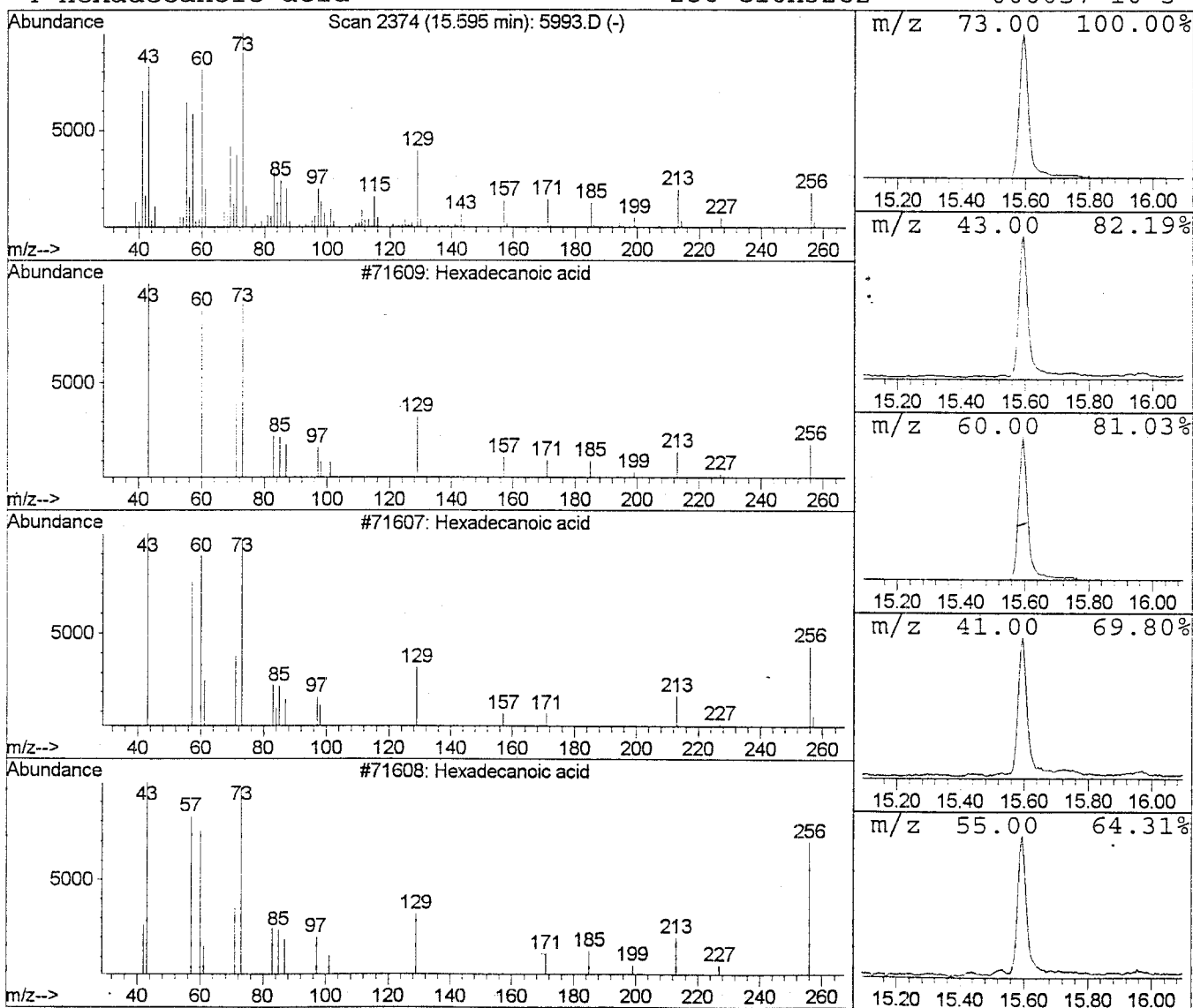
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Library : C:\DATABASE\NBS75K.L

Peak Number 4 Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.60	264.01 ug/L	992546	Phenanthrene-d10	14.43

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qua
1	5	Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2		Hexadecanoic acid	256	C16H32O2	000057-10-3	99
3		Hexadecanoic acid	256	C16H32O2	000057-10-3	97
4		Hexadecanoic acid	256	C16H32O2	000057-10-3	96



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\101698\5993.D
Acq On : 16 Oct 1998 20:40
Sample : 09-522-06 SOIL
Misc : SOIL
MS Integration Params: LSCINT.P

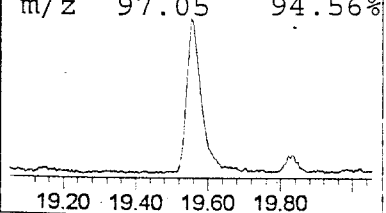
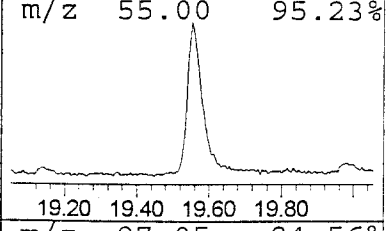
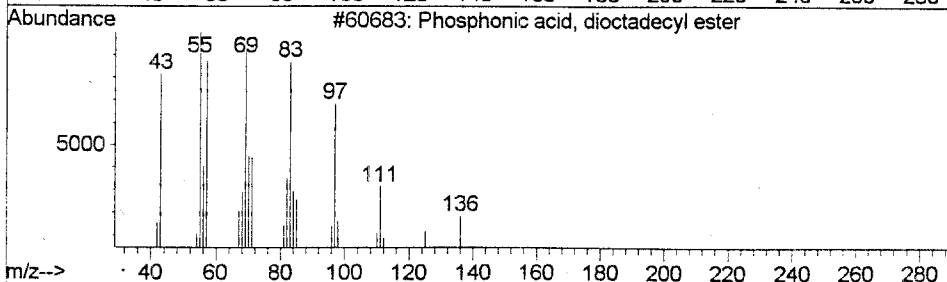
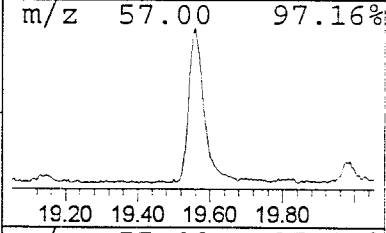
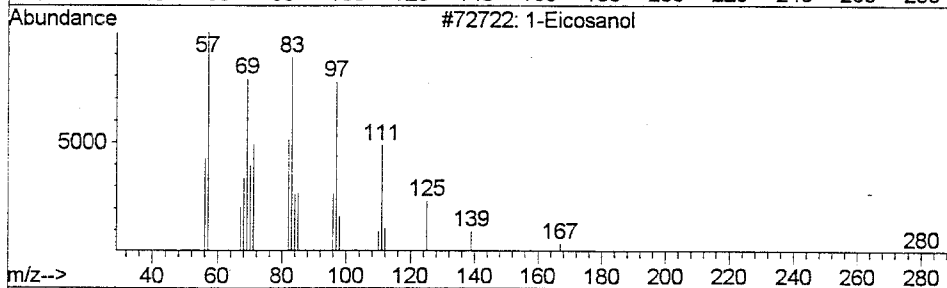
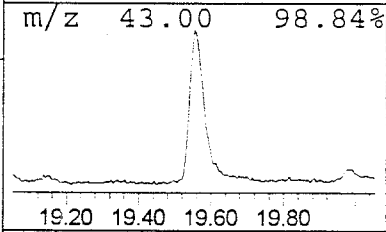
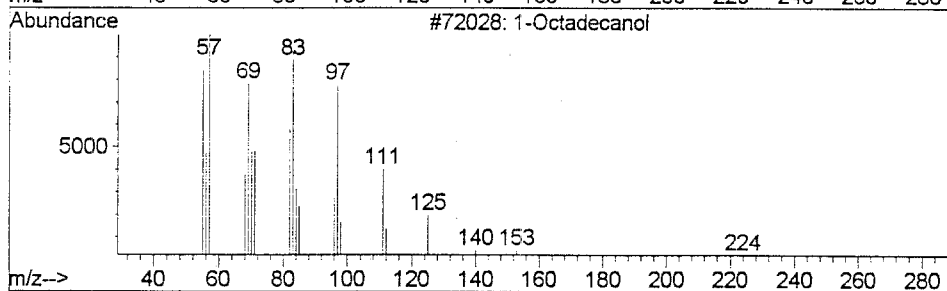
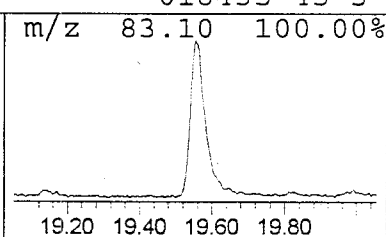
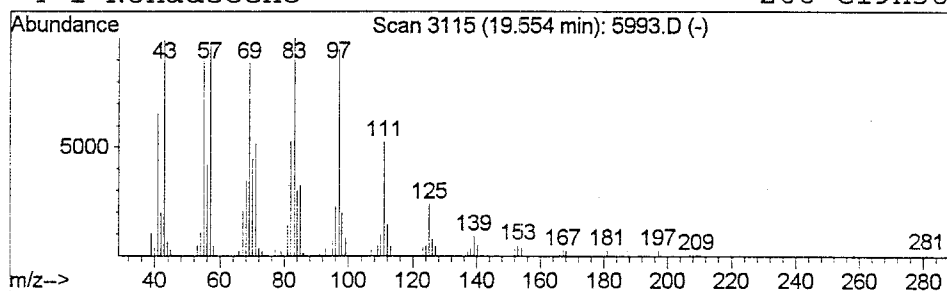
Vial: 16
Operator: MLS
Inst : HPMS 7
Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
Library : C:\DATABASE\NBS75K.L

Peak Number 5 1-Octadecanol Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.55	195.50 ug/L	827719	Chrysene-d12	19.83

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qua
1	5	1-Octadecanol	270	C18H38O	000112-92-5	95
2		1-Eicosanol	298	C20H42O	000629-96-9	94
3		Phosphonic acid, dioctadecyl ester	587	C36H75O3P	019047-85-9	93
4		1-Nonadecene	266	C19H38	018435-45-5	93



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Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\101698\5993.D

Acq On : 16 Oct 1998 20:40

Sample : 09-522-06 SOIL

Misc : SOIL

MS Integration Params: LSCINT.P

Vial: 16

Operator: MLS

Inst : HPMS 7

Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

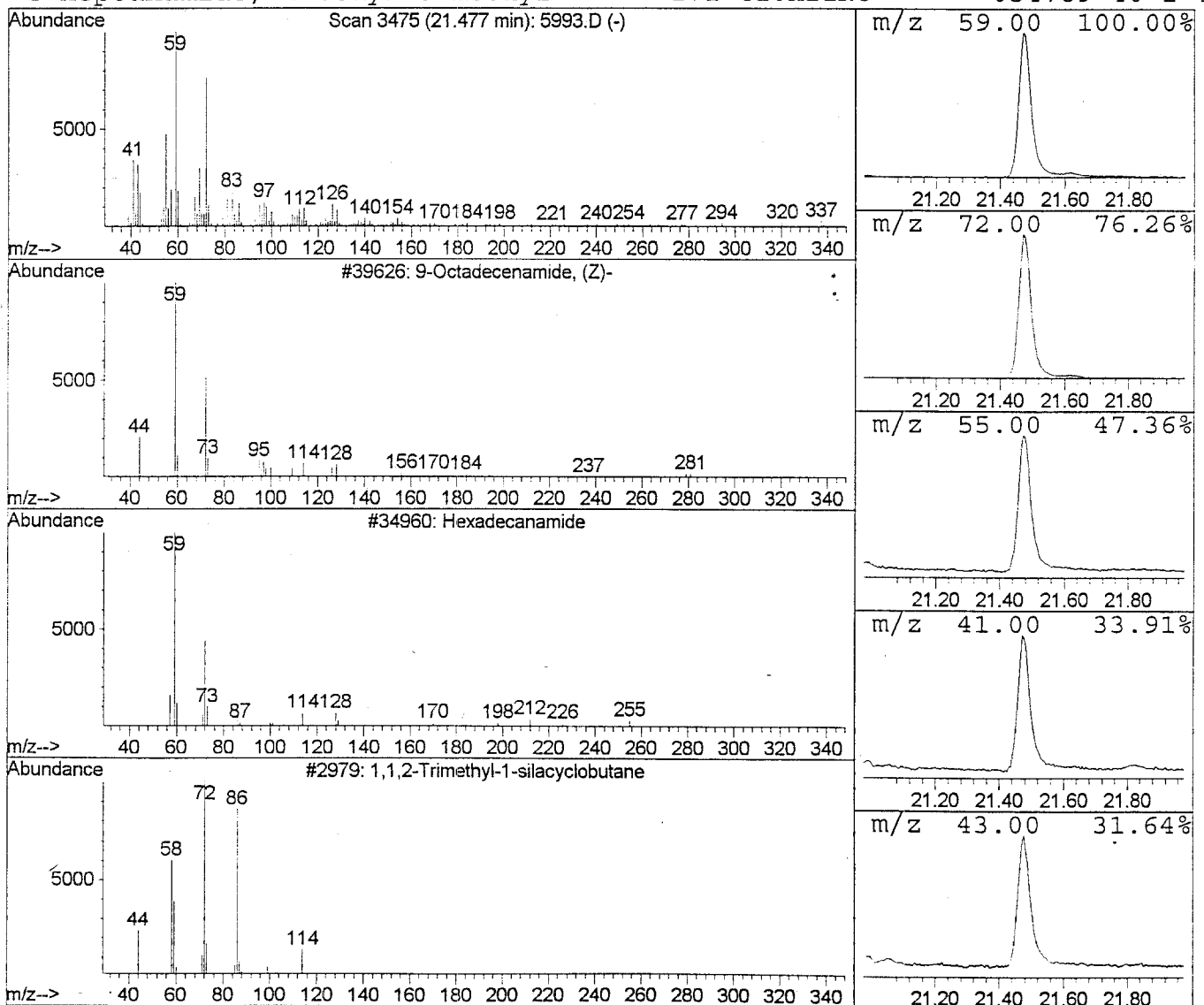
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Library : C:\DATABASE\NBS75K.L

Peak Number 6 9-Octadecenamide, (Z)- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.48	356.93 ug/L	1497550	Perylene-d12	23.01

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qua
1	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	64	
2	Hexadecanamide	255	C16H33NO	000629-54-9	43	
3	1,1,2-Trimethyl-1-silacyclobutane	114	C6H14Si	030681-90-4	43	
4	Heptanamide, 4-ethyl-5-methyl-	171	C10H21NO	054789-40-1	43	



Tentatively Identified Compound (LSC) summary

Operator ID: MLS Date Acquired: 16 Oct 1998 20:40
 Data File: C:\HPCHEM\1\DATA\101698\5993.D
 Name: 09-522-06 SOIL
 Misc: SOIL
 Method: C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
 Title: M8270/625 LIST INITIAL CALIBRATION 10/13/98
 Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISCon
Ethane, 1,1,2-trichl	3.56	188.1	ug/L	474576	ISTD01	6.35	3330480	40.
3-Pentanol	4.04	203.2	ug/L	512671	ISTD01	6.35	3330480	40.
Ethane, 1,1,2,2-tetr	5.19	369.4	ug/L	931982	ISTD01	6.35	3330480	40.
Hexadecanoic acid	15.60	264.0	ug/L	992546	ISTD04	14.43	4962590	40.
1-Octadecanol	19.55	195.5	ug/L	827719	ISTD05	19.83	5588670	40.
9-Octadecenamide, (Z	21.48	356.9	ug/L	1497550	ISTD06	23.01	5538280	40.

5993.D LANL.M Wed Oct 21 08:39:38 1998 HPMS7

Data File : C:\HPCHEM\1\DATA\101698\5994.D

Vial: 17

Acq On : 16 Oct 1998 21:19

Operator: MLS

Sample : 09-522-07 SOIL

Inst : HPMS 7

Misc : SOIL

Multiplr: 33.00

MS Integration Params: rteint.p

Quant Time: Oct 20 14:12 1998

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Sun Oct 18 11:51:56 1998

Response via : Initial Calibration

DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.34	152	582865	40.00	ug/L	0.00
19) Naphthalene-d8	8.28	136	2167095	40.00	ug/L	0.00
34) Acenaphthene-d10	11.52	164	1199848	40.00	ug/L	0.00
56) Phenanthrene-d10	14.43	188	2054572	40.00	ug/L	0.00
67) Chrysene-d12	19.83	240	2097930	40.00	ug/L	-0.01
76) Perylene-d12	23.01	264	2235472	40.00	ug/L	-0.02

System Monitoring Compounds

4) 2-Fluorophenol	4.75	112	1363692	60.86	ug/L	0.00
Spiked Amount	100.000	Range	25 - 121	Recovery	=	60.86%
6) Phenol-d5	5.88	99	1579587	64.17	ug/L	0.00
Spiked Amount	100.000	Range	24 - 113	Recovery	=	64.17%
20) Nitrobenzene-d5	7.15	82	726393	33.80	ug/L	0.00
Spiked Amount	50.000	Range	23 - 120	Recovery	=	67.60%
38) 2-Fluorobiphenyl	10.22	172	1456585	36.19	ug/L	0.00
Spiked Amount	50.000	Range	30 - 115	Recovery	=	72.38%
55) 2,4,6-Tribromophenol	13.09	330	517939	78.13	ug/L	0.00
Spiked Amount	100.000	Range	19 - 122	Recovery	=	78.13%
70) Terphenyl-d14	17.70	244	2414938	50.19	ug/L	0.00
Spiked Amount	50.000	Range	18 - 137	Recovery	=	100.38%

Target Compounds

Qvalue

2) Pyridine	0.00	79	0	N.D.		
3) n-Nitrosodimethylamine	0.00	74	0	N.D.		
5) Aniline	0.00	93	0	N.D.		
7) Phenol	5.90	94	2825	3.43	ug/L #	1
8) bis-(2-Chloroethyl)ether	0.00	93	0	N.D.		
9) 2-Chlorophenol	6.11	128	2264	3.39	ug/L #	82
10) 1,3-Dichlorobenzene	6.37	146	3011	4.22	ug/L #	59
11) 1,4-Dichlorobenzene	6.37	146	3011	4.17	ug/L #	60
12) Benzyl Alcohol	0.00	108	0	N.D.		
13) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
14) 2-Methylphenol	0.00	107	0	N.D.		
15) Bis(2-chloroisopropyl)ethe	0.00	45	0	N.D.		
16) 4-Methylphenol	0.00	107	0	N.D.		
17) n-Nitroso-di-n-propylamine	0.00	70	0	N.D.		
18) Hexachloroethane	0.00	117	0	N.D.		
21) Nitrobenzene	7.15	77	2695	4.25	ug/L #	39
22) Isophorone	7.55	82	163	0.15	ug/L #	64
23) 2-Nitrophenol	0.00	139	0	N.D.		
24) 2,4-Dimethylphenol	0.00	122	0	N.D.		

(#)=qualifier out of range (m)=manual integration

5994.D LANL.M

Tue Oct 20 14:12:51 1998

HPMS7

Page 1

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Data File : C:\HPCHEM\1\DATA\101698\5994.D
 Acq On : 16 Oct 1998 21:19
 Sample : 09-522-07 SOIL
 Misc : SOIL
 MS Integration Params: rteint.p
 Quant Time: Oct 20 14:12 1998

Vial: 17
 Operator: MLS
 Inst : HPMS 7
 Multiplr: 33.00

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
 Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
 Last Update : Sun Oct 18 11:51:56 1998
 Response via : Initial Calibration
 DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25) bis(2-chloroethoxy)methane	0.00	93	0	N.D.		
26) Benzoic Acid	0.00	122	0	N.D.		
27) 2,4-Dichlorophenol	0.00	162	0	N.D.		
28) 1,2,4-Trichlorobenzene	8.21	180	213	0.37 ug/L #		40
29) Naphthalene	8.31	128	413	0.24 ug/L #		68
30) 4-Chloroaniline	0.00	127	0	N.D.		
31) Hexachlorobutadiene	0.00	225	0	N.D.		
32) 4-chloro-3methylphenol	9.35	107	767	1.53 ug/L #		16
33) 2-Methylnaphthalene	0.00	142	0	N.D.		
35) Hexachlorocyclopentadiene	0.00	237	0	N.D.		
36) 2,4,6-Trichlorophenol	0.00	196	0	N.D.		
37) 2,4,5-Trichlorophenol	0.00	196	0	N.D.		
39) 2-Chloronaphthalene	0.00	162	0	N.D.		
40) 2-Nitroaniline	0.00	65	0	N.D.		
41) Dimethylphthalate	0.00	163	0	N.D.		
42) Acenaphthylene	0.00	152	0	N.D.		
43) 2,6-Dinitrotoluene	11.20	165	385	1.36 ug/L #		19
44) 3-Nitroaniline	0.00	138	0	N.D.		
45) Acenaphthene	11.52	154	3724	3.62 ug/L #		7
46) 2,4-Dinitrophenol	0.00	184	0	N.D.		
47) 4-Nitrophenol	0.00	65	0	N.D.		
48) Dibenzofuran	0.00	168	0	N.D.		
49) 2,4-Dinitrotoluene	0.00	165	0	N.D.		
50) Diethylphthalate	12.43	149	4621	3.93 ug/L #		86
51) Fluorene	0.00	166	0	N.D.		
52) 4-Chlorophenyl-phenylether	0.00	204	0	N.D.		
53) 4-Nitroaniline	0.00	138	0	N.D.		
54) 1,2-Diphenylhydrazine	12.93	77	2014	1.68 ug/L #		18
57) 4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.		
58) n-Nitrosodiphenylamine	0.00	169	0	N.D.		
59) 4-Bromophenyl-phenyl ether	0.00	248	0	N.D.		
60) Hexachlorobenzene	0.00	284	0	N.D.		
61) Pentachlorophenol	0.00	266	0	N.D.		
62) Phenanthrene	14.47	178	182	0.10 ug/L #		59
63) Anthracene	0.00	178	0	N.D.		
64) Carbazole	0.00	167	0	N.D.		
65) Di-n-butylphthalate	15.72	149	12746	6.65 ug/L #		87
66) Fluoranthene	0.00	202	0	N.D.		
68) Benzidine	0.00	184	0	N.D.		
69) Pyrene	0.00	202	0	N.D.		
71) Butylbenzylphthalate	18.75	149	3298	3.61 ug/L #		77

(#) = qualifier out of range (m) = manual integration

5994.D LANL.M

Tue Oct 20 14:12:53 1998

HPMS7

Page 2

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Data File : C:\HPCHEM\1\DATA\101698\5994.D

Vial: 17

Acq On : 16 Oct 1998 21:19

Operator: MLS

Sample : 09-522-07 SOIL

Inst : HPMS 7

Misc : SOIL

Multiplr: 33.00

MS Integration Params: rteint.p

Quant Time: Oct 20 14:12 1998

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Sun Oct 18 11:51:56 1998

Response via : Initial Calibration

DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
72) Benzo(a)anthracene	19.84	228	5132	2.46 ug/L #	54
73) 3,3'-Dichlorobenzidine	0.00	252	0	N.D.	
74) Chrysene	19.84	228	5132	3.55 ug/L #	52
75) Bis(2-ethylhexyl)phthalate	19.98	149	34673	26.72 ug/L #	98
77) Di-n-octylphthalate	21.18	149	9278	3.83 ug/L #	85
78) Benzo(b)fluoranthene	0.00	252	0	N.D.	
79) Benzo(k)fluoranthene	0.00	252	0	N.D.	
80) Benzo(a)pyrene	0.00	252	0	N.D.	
81) Indeno(1,2,3-cd)pyrene	0.00	276	0	N.D.	
82) Dibenzo(a,h)anthracene	0.00	278	0	N.D.	
83) Benzo(g,h,i)perylene	0.00	276	0	N.D.	

(#) = qualifier out of range (m) = manual integration

5994.D LANL.M

Tue Oct 20 14:12:53 1998

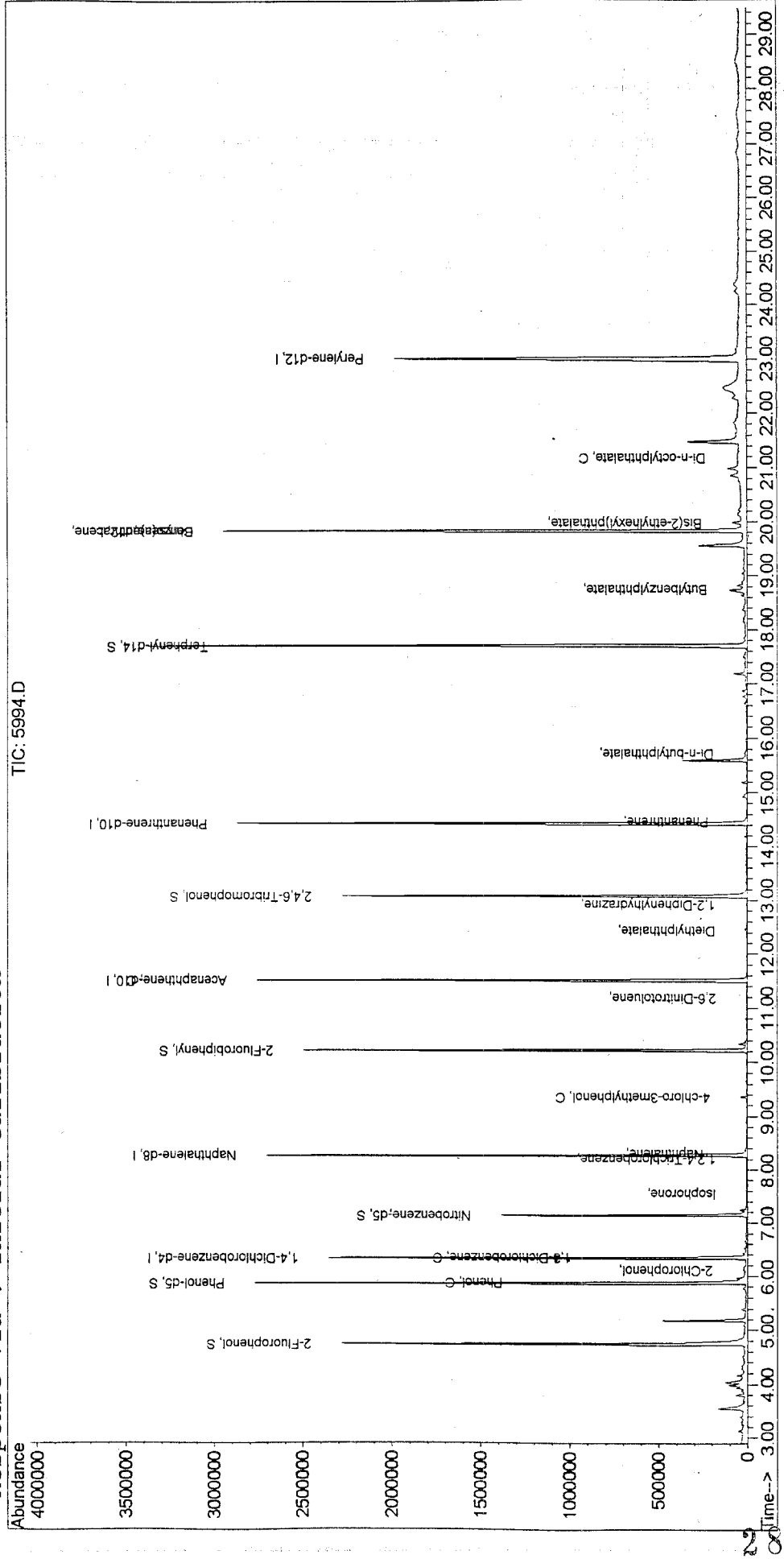
HPMS7

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Quantitation Report

Data File : C:\HPCHEM\1\DATA\101698\5994.D
 Acq On : 16 Oct 1998 21:19 Vial: 17
 Sample : 09-522-07 SOIL Operator: MLS
 Misc : SOIL Inst : HPMS 7
 MS Integration Params: rteint.p Multiplr: 33.00
 Quant Time: Oct 20 14:12 1998 Quant Results File: LANL.RES

Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
 Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
 Last Update : Sun Oct. 18 11:51:56 1998
 Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\101698\5994.D
Acq On : 16 Oct 1998 21:19
Sample : 09-522-07 SOIL
Misc : SOIL
MS Integration Params: LSCINT.P

Vial: 17
Operator: MLS
Inst : HPMS 7
Multiplr: 33.00

Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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

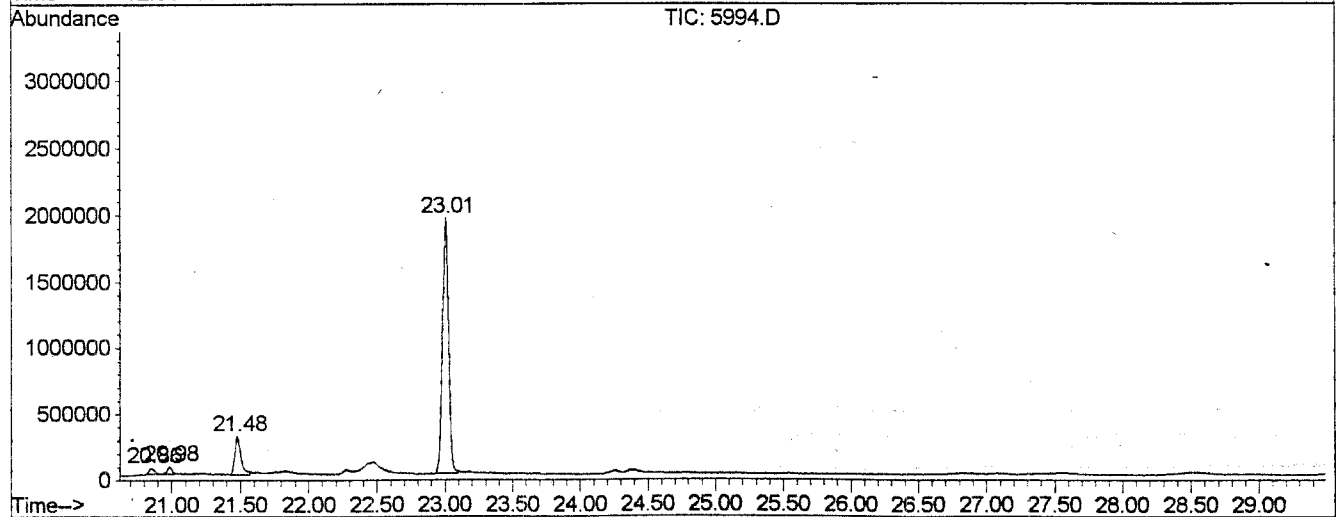
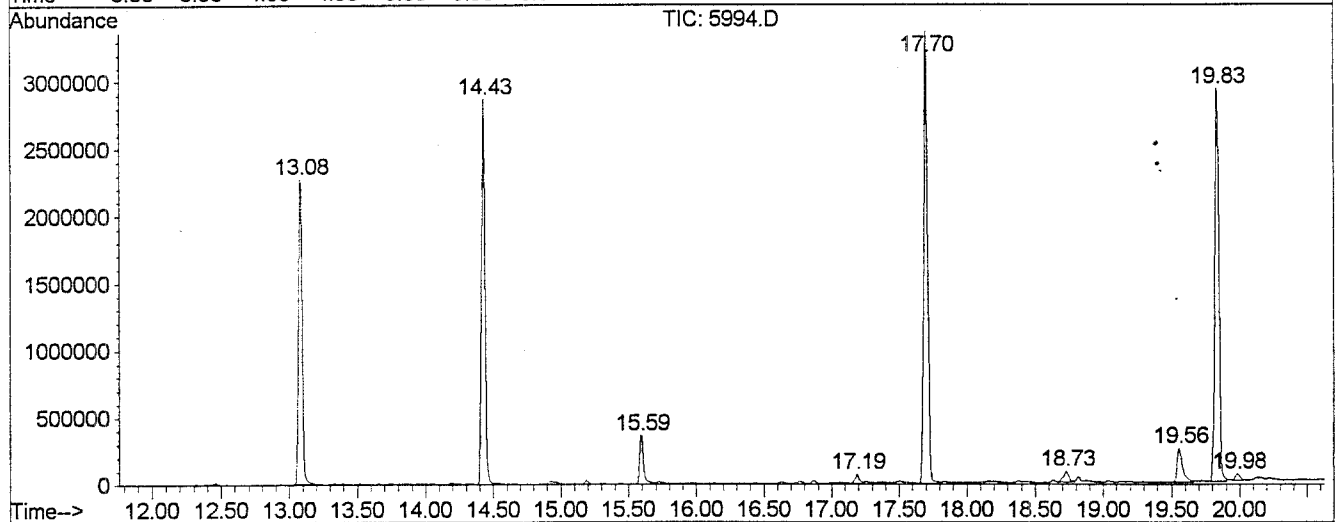
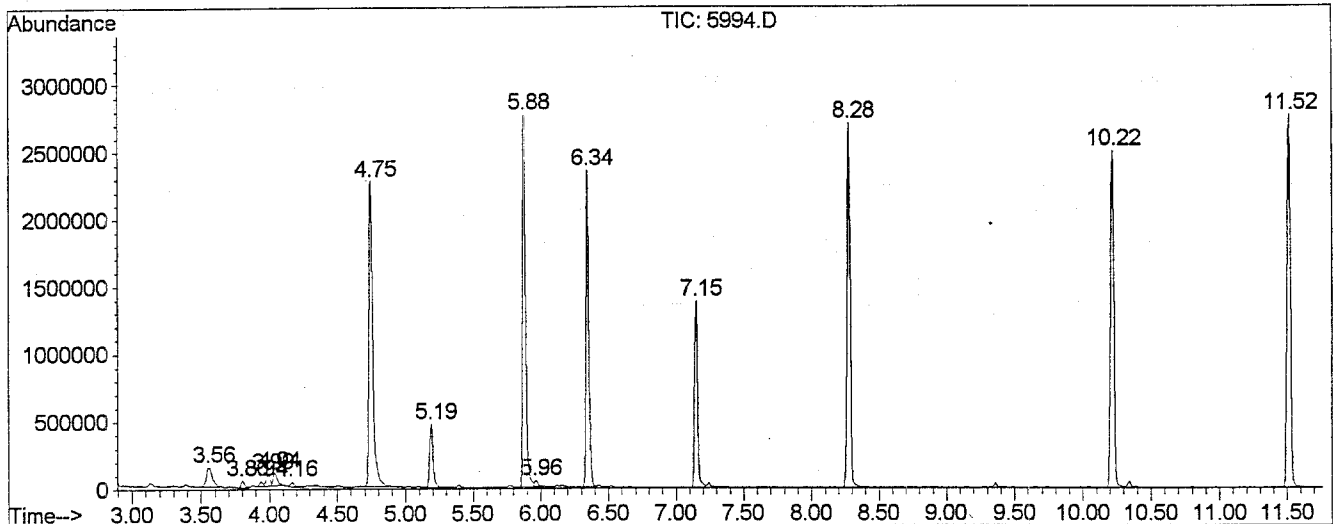
Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	3.557	113	123	137	rBV3	140020	423749	6.37%	0.691%
2	3.801	162	168	176	rBV2	49007	85776	1.29%	0.140%
3	3.936	187	193	197	rBV2	43003	77350	1.16%	0.126%
4	3.990	197	203	206	rVV	83509	179272	2.70%	0.292%
5	4.036	206	210	221	rVB	94073	198910	2.99%	0.324%
6	4.164	230	234	246	rVB2	37259	70904	1.07%	0.116%
7	4.747	332	343	367	rBV	2264406	4437462	66.72%	7.236%
8	5.190	419	426	438	rBV	469304	815886	12.27%	1.330%
9	5.879	549	555	568	rBV	2761202	4136806	62.20%	6.745%
10	5.965	568	571	580	rVB2	44302	73452	1.10%	0.120%
11	6.344	636	642	654	rBV	2346480	3493355	52.52%	5.696%
12	7.151	786	793	806	rBV	1379404	2101722	31.60%	3.427%
13	8.278	996	1004	1020	rBV	2700132	4357033	65.51%	7.104%
14	10.217	1358	1367	1385	rBV	2492223	4307910	64.77%	7.024%
15	11.515	1601	1610	1628	rBV	2756854	4950217	74.43%	8.072%
16	13.081	1895	1903	1926	rBV	2274169	4293175	64.55%	7.000%
17	14.432	2146	2156	2169	rBV2	2867759	5393611	81.09%	8.795%
18	15.591	2366	2373	2392	rBV2	361323	701065	10.54%	1.143%
19	17.189	2664	2672	2682	rBV5	67094	155514	2.34%	0.254%
20	17.701	2756	2768	2784	rBV	3365744	6651228	100.00%	10.845%
21	18.727	2948	2960	2971	rBV6	84399	246696	3.71%	0.402%
22	19.555	3106	3115	3135	rBV2	254236	738793	11.11%	1.205%
23	19.833	3157	3167	3180	rBV2	2923741	6081481	91.43%	9.916%
24	19.983	3189	3195	3203	rVB2	48377	110261	1.66%	0.180%
25	20.859	3351	3359	3368	rBV10	43311	117004	1.76%	0.191%
26	20.982	3374	3382	3391	rBV5	59989	145010	2.18%	0.236%
27	21.478	3465	3475	3492	rBV2	287650	881904	13.26%	1.438%
28	23.006	3747	3761	3778	rBV2	1930390	6102826	91.75%	9.951%

Sum of corrected areas: 61328372

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\101698\5994.D
 Operator : MLS
 Acquired : 16 Oct 1998 21:19 using AcqMethod BNA
 Instrument : HPMS 7
 Sample Name: 09-522-07 SOIL
 Misc Info : SOIL
 Vial Number: 17
 Quant File : LANL.RES (RTE Integrator)



5994.D LANL.M

Wed Oct 21 08:40:24 1998

HPMS7

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\101698\5994.D
Acq On : 16 Oct 1998 21:19
Sample : 09-522-07 SOIL
Misc : SOIL
MS Integration Params: LSCINT.P

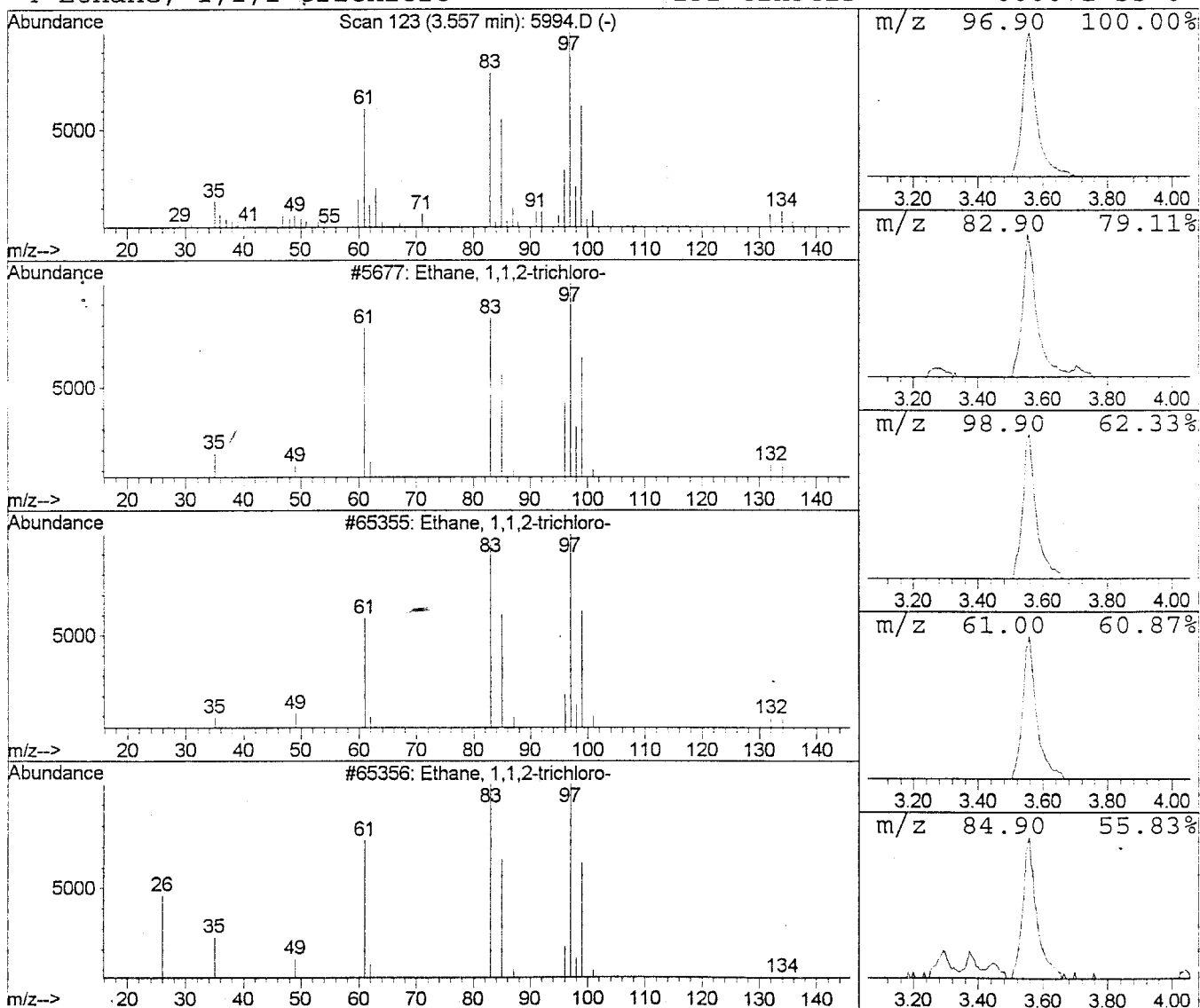
Vial: 17
Operator: MLS
Inst : HPMS 7
Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
Library : C:\DATABASE\NBS75K.L

Peak Number 1 Ethane, 1,1,2-trichloro- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.56	160.12 ug/L	423749	1,4-Dichlorobenzene-d4	6.34

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qua
1			Ethane, 1,1,2-trichloro-	132	C2H3Cl3	000079-00-5	96
2			Ethane, 1,1,2-trichloro-	132	C2H3Cl3	000079-00-5	94
3			Ethane, 1,1,2-trichloro-	132	C2H3Cl3	000079-00-5	90
4			Ethane, 1,1,1-trichloro-	132	C2H3Cl3	000071-55-6	46



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\101698\5994.D

Acq On : 16 Oct 1998 21:19

Sample : 09-522-07 SOIL

Misc : SOIL

MS Integration Params: LSCINT.P

Vial: 17

Operator: MLS

Inst : HPMS 7

Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

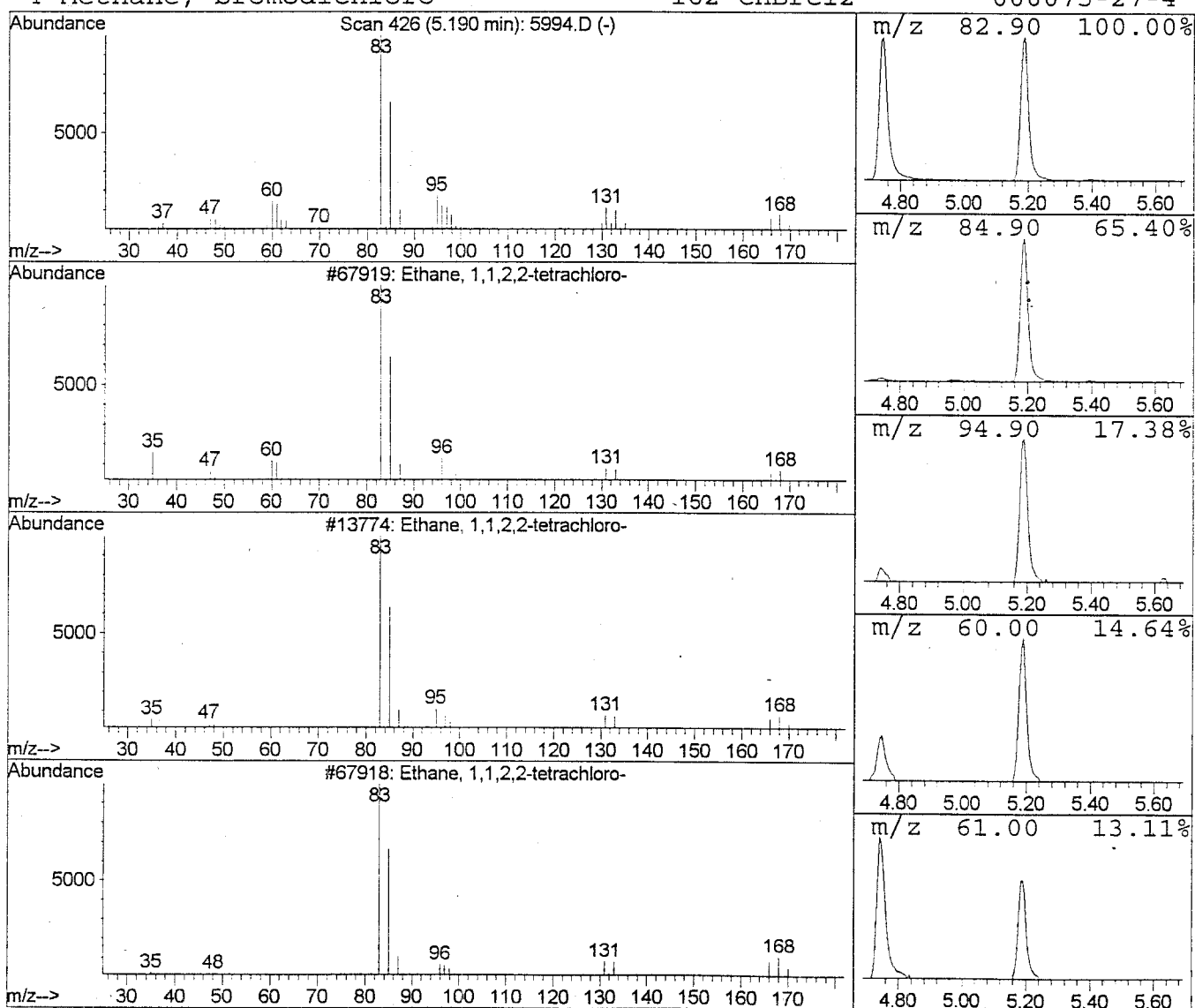
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Library : C:\DATABASE\NBS75K.L

Peak Number 2 Ethane, 1,1,2,2-tetrachloro- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.19	308.29 ug/L	815886	1,4-Dichlorobenzene-d4	6.34

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qua
1			Ethane, 1,1,2,2-tetrachloro-	166	C2H2Cl4	000079-34-5	93
2			Ethane, 1,1,2,2-tetrachloro-	166	C2H2Cl4	000079-34-5	93
3			Ethane, 1,1,2,2-tetrachloro-	166	C2H2Cl4	000079-34-5	87
4			Methane, bromodichloro-	162	CHBrCl2	000075-27-4	53



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\101698\5994.D

Acq On : 16 Oct 1998 21:19

Sample : 09-522-07 SOIL

Misc : SOIL

MS Integration Params: LSCINT.P

Vial: 17

Operator: MLS

Inst : HPMS 7

Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

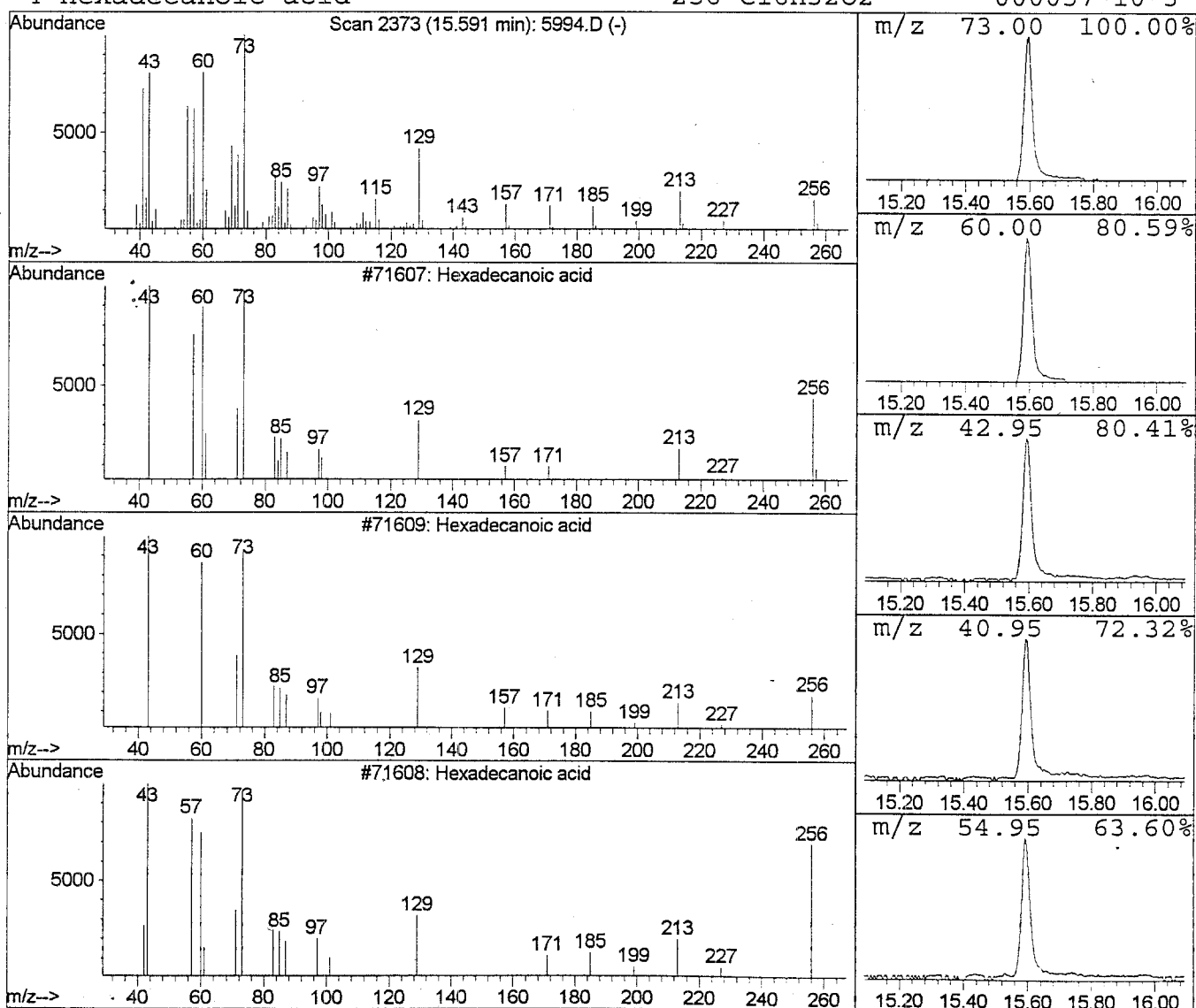
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Library : C:\DATABASE\NBS75K.L

Peak Number 3 Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.59	171.57 ug/L	701065	Phenanthrene-d10	14.43

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qua
1			Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2			Hexadecanoic acid	256	C16H32O2	000057-10-3	99
3			Hexadecanoic acid	256	C16H32O2	000057-10-3	96
4			Hexadecanoic acid	256	C16H32O2	000057-10-3	95



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\101698\5994.D
Acq On : 16 Oct 1998 21:19
Sample : 09-522-07 SOIL
Misc : SOIL
MS Integration Params: LSCINT.P

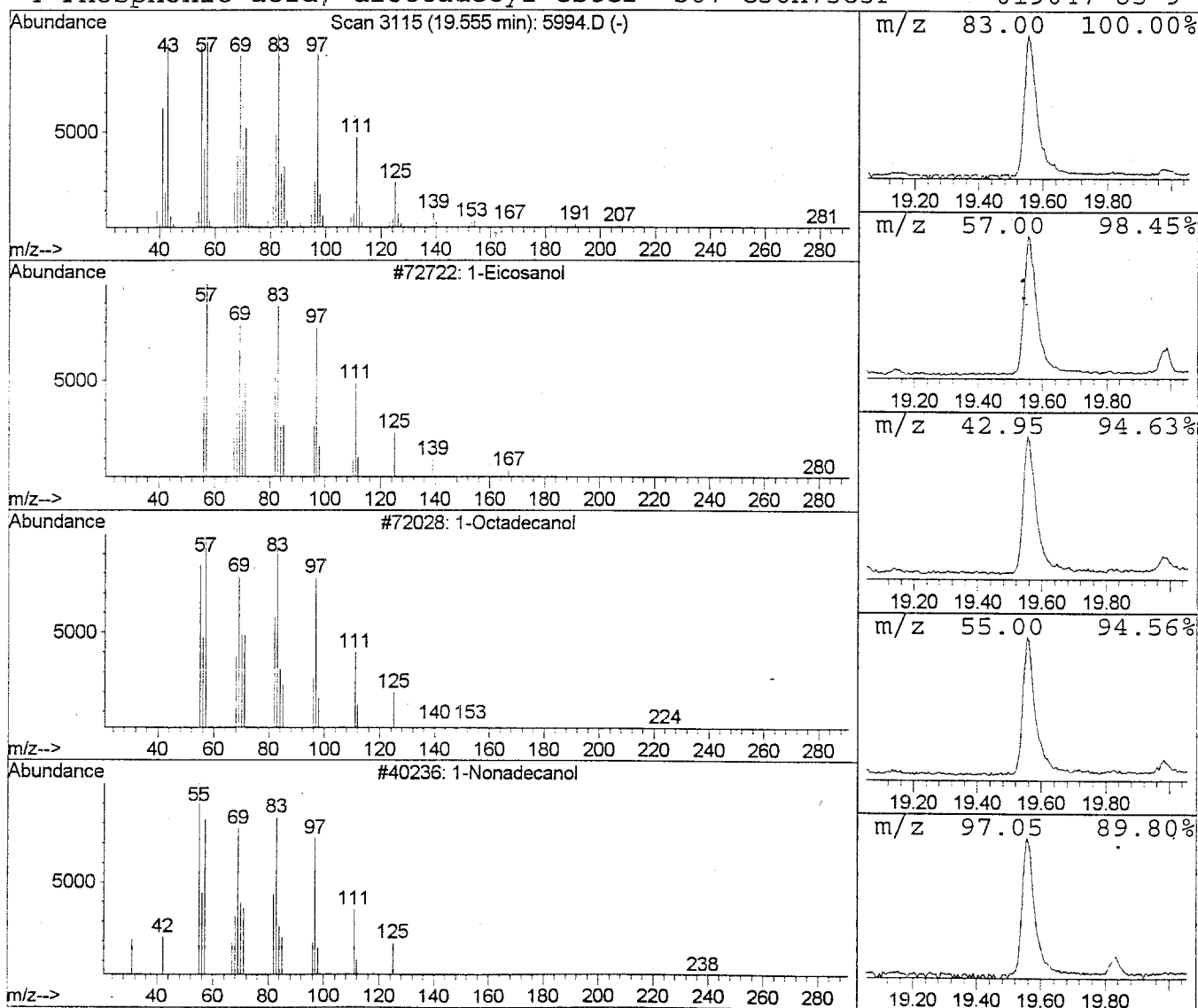
Vial: 17
Operator: MLS
Inst : HPMS 7
Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
Library : C:\DATABASE\NBS75K.L

Peak Number 4 1-Eicosanol Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.56	160.36 ug/L	738793	Chrysene-d12	19.83

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qua
1			1-Eicosanol	298	C20H42O	000629-96-9	95
2			1-Octadecanol	270	C18H38O	000112-92-5	95
3			1-Nonadecanol	284	C19H40O	001454-84-8	95
4			Phosphonic acid, dioctadecyl ester	587	C36H75O3P	019047-85-9	93



Library Search Compound Report

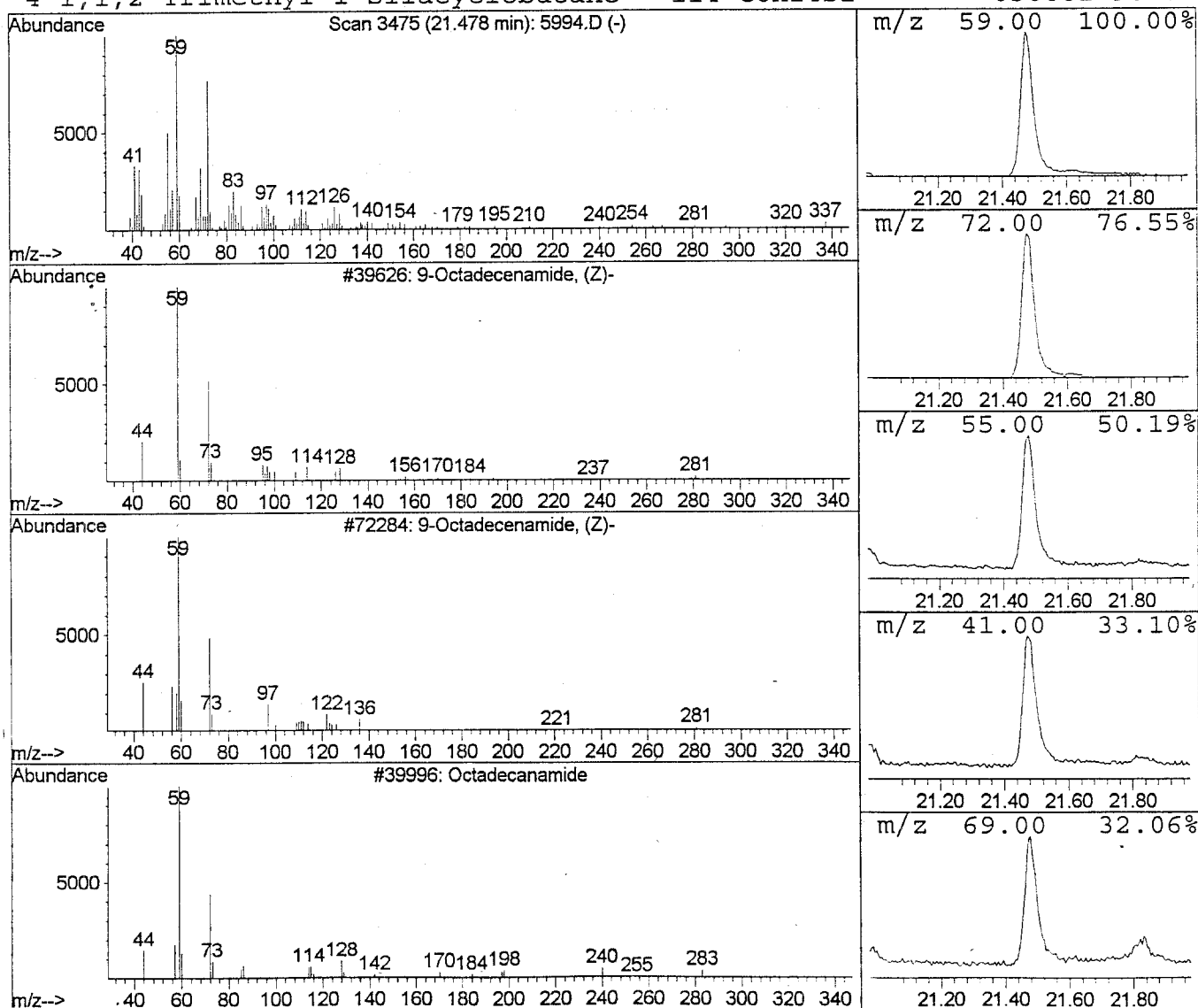
Data File : C:\HPCHEM\1\DATA\101698\5994.D
Acq On : 16 Oct 1998 21:19
Sample : 09-522-07 SOIL
Misc : SOIL
MS Integration Params: LSCINT.P

Vial: 17
Operator: MLS
Inst : HPMS 7
Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
Library : C:\DATABASE\NBS75K.L

Peak Number 5 \ 9-Octadecenamide, (Z)- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.	
21.48	190.75 ug/L	881904	Perylene-d12	23.01	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qua
1	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	92
2	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	46
3	Octadecanamide	283	C18H37NO	000124-26-5	42
4	1,1,2-Trimethyl-1-silacyclobutane	114	C6H14Si	030681-90-4	38



Tentatively Identified Compound (LSC) summary

Operator ID: MLS Date Acquired: 16 Oct 1998 21:19
 Data File: C:\HPCHEM\1\DATA\101698\5994.D
 Name: 09-522-07 SOIL
 Misc: SOIL
 Method: C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
 Title: M8270/625 LIST INITIAL CALIBRATION 10/13/98
 Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISCon
Ethane, 1,1,2-trichl	3.56	160.1	ug/L	423749	ISTD01	6.34	3493360	40.
Ethane, 1,1,2,2-tetr	5.19	308.3	ug/L	815886	ISTD01	6.34	3493360	40.
Hexadecanoic acid	15.59	171.6	ug/L	701065	ISTD04	14.43	5393610	40.
1-Eicosanol	19.56	160.4	ug/L	738793	ISTD05	19.83	6081480	40.
9-Octadecenamide, (Z	21.48	190.8	ug/L	881904	ISTD06	23.01	6102830	40.

5994.D LANL.M Wed Oct 21 08:40:34 1998 HPMS7

Data File : C:\HPCHEM\1\DATA\101698\5995.D

Vial: 18

Acq On : 16 Oct 1998 21:58

Operator: MLS

Sample : 09-522-08 SOIL

Inst : HPMS 7

Misc : SOIL

Multiplr: 33.00

MS Integration Params: rteint.p

Quant Time: Oct 20 14:13 1998

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Sun Oct 18 11:51:56 1998

Response via : Initial Calibration

DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-Dichlorobenzene-d4	6.35	152	524944	40.00	ug/L	0.00
19) Naphthalene-d8	8.28	136	1973887	40.00	ug/L	0.00
34) Acenaphthene-d10	11.51	164	1093408	40.00	ug/L	-0.01
56) Phenanthrene-d10	14.43	188	1862421	40.00	ug/L	-0.01
67) Chrysene-d12	19.83	240	1894901	40.00	ug/L	-0.02
76) Perylene-d12	23.00	264	1994131	40.00	ug/L	-0.02

System Monitoring Compounds

4) 2-Fluorophenol	4.75	112	1029506	51.02	ug/L	0.00
Spiked Amount 100.000	Range 25 - 121		Recovery =	51.02%		
6) Phenol-d5	5.88	99	1196617	53.98	ug/L	0.00
Spiked Amount 100.000	Range 24 - 113		Recovery =	53.98%		
20) Nitrobenzene-d5	7.14	82	524009	26.77	ug/L	0.00
Spiked Amount 50.000	Range 23 - 120		Recovery =	53.54%		
38) 2-Fluorobiphenyl	10.22	172	1068340	29.13	ug/L	-0.01
Spiked Amount 50.000	Range 30 - 115		Recovery =	58.26%		
55) 2,4,6-Tribromophenol	13.08	330	460498	76.23	ug/L	-0.01
Spiked Amount 100.000	Range 19 - 122		Recovery =	76.23%		
70) Terphenyl-d14	17.70	244	2302024	52.97	ug/L	0.00
Spiked Amount 50.000	Range 18 - 137		Recovery =	105.94%		

Target Compounds

						Qvalue
2) Pyridine	0.00	79	0	N.D.		
3) n-Nitrosodimethylamine	0.00	74	0	N.D.		
5) Aniline	0.00	93	0	N.D.		
7) Phenol	5.89	94	1747	2.35	ug/L #	1
8) bis-(2-Chloroethyl) ether	0.00	93	0	N.D.		
9) 2-Chlorophenol	6.11	128	1767	2.94	ug/L #	55
10) 1,3-Dichlorobenzene	6.36	146	2187	3.40	ug/L #	71
11) 1,4-Dichlorobenzene	6.36	146	2187	3.36	ug/L #	72
12) Benzyl Alcohol	0.00	108	0	N.D.		
13) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
14) 2-Methylphenol	0.00	107	0	N.D.		
15) Bis(2-chloroisopropyl) ethe	0.00	45	0	N.D.		
16) 4-Methylphenol	0.00	107	0	N.D.		
17) n-Nitroso-di-n-propylamine	0.00	70	0	N.D.		
18) Hexachloroethane	0.00	117	0	N.D.		
21) Nitrobenzene	7.15	77	1866	3.23	ug/L #	37
22) Isophorone	7.44	82	345	0.35	ug/L #	64
23) 2-Nitrophenol	0.00	139	0	N.D.		
24) 2,4-Dimethylphenol	0.00	122	0	N.D.		

(#)= qualifier out of range (m)= manual integration

5995.D LANL.M

Tue Oct 20 14:13:13 1998

HPMS7

Page 1

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Data File : C:\HPCHEM\1\DATA\101698\5995.D
 Acq On : 16 Oct 1998 21:58
 Sample : 09-522-08 SOIL
 Misc : SOIL
 MS Integration Params: rteint.p
 Quant Time: Oct 20 14:13 1998

Vial: 18
 Operator: MLS
 Inst : HPMS 7
 Multiplr: 33.00

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
 Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
 Last Update : Sun Oct 18 11:51:56 1998
 Response via : Initial Calibration
 DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25) bis(2-chloroethoxy)methane	0.00	93	0	N.D.	
26) Benzoic Acid	0.00	122	0	N.D.	
27) 2,4-Dichlorophenol	0.00	162	0	N.D.	
28) 1,2,4-Trichlorobenzene	8.21	180	174	0.34 ug/L #	12
29) Naphthalene	8.31	128	333	0.22 ug/L #	68
30) 4-Chloroaniline	0.00	127	0	N.D.	
31) Hexachlorobutadiene	0.00	225	0	N.D.	
32) 4-chloro-3methylphenol	9.36	107	202	0.44 ug/L #	16
33) 2-Methylnaphthalene	0.00	142	0	N.D.	
35) Hexachlorocyclopentadiene	0.00	237	0	N.D.	
36) 2,4,6-Trichlorophenol	0.00	196	0	N.D.	
37) 2,4,5-Trichlorophenol	0.00	196	0	N.D.	
39) 2-Chloronaphthalene	0.00	162	0	N.D.	
40) 2-Nitroaniline	0.00	65	0	N.D.	
41) Dimethylphthalate	0.00	163	0	N.D.	
42) Acenaphthylene	0.00	152	0	N.D.	
43) 2,6-Dinitrotoluene	0.00	165	0	N.D.	
44) 3-Nitroaniline	0.00	138	0	N.D.	
45) Acenaphthene	11.52	154	3493	3.73 ug/L #	7
46) 2,4-Dinitrophenol	0.00	184	0	N.D.	
47) 4-Nitrophenol	0.00	65	0	N.D.	
48) Dibenzofuran	0.00	168	0	N.D.	
49) 2,4-Dinitrotoluene	0.00	165	0	N.D.	
50) Diethylphthalate	12.43	149	4792	4.47 ug/L #	84
51) Fluorene	0.00	166	0	N.D.	
52) 4-Chlorophenyl-phenylether	0.00	204	0	N.D.	
53) 4-Nitroaniline	0.00	138	0	N.D.	
54) 1,2-Diphenylhydrazine	12.91	77	3761	3.45 ug/L #	50
57) 4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.	
58) n-Nitrosodiphenylamine	0.00	169	0	N.D.	
59) 4-Bromophenyl-phenyl ether	0.00	248	0	N.D.	
60) Hexachlorobenzene	0.00	284	0	N.D.	
61) Pentachlorophenol	0.00	266	0	N.D.	
62) Phenanthrene	14.47	178	180	0.11 ug/L #	1
63) Anthracene	0.00	178	0	N.D.	
64) Carbazole	14.93	167	1043	0.82 ug/L #	63
65) Di-n-butylphthalate	15.72	149	23230	13.38 ug/L #	97
66) Fluoranthene	0.00	202	0	N.D.	
68) Benzidine	0.00	184	0	N.D.	
69) Pyrene	0.00	202	0	N.D.	
71) Butylbenzylphthalate	18.76	149	3353	4.06 ug/L #	52

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\101698\5995.D
Acq On : 16 Oct 1998 21:58
Sample : 09-522-08 SOIL
Misc : SOIL
MS Integration Params: rteint.p
Quant Time: Oct 20 14:13 1998

Vial: 18
Operator: MLS
Inst : HPMS 7
Multiplr: 33.00

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
Last Update : Sun Oct 18 11:51:56 1998
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
72) Benzo(a)anthracene	19.83	228	4715	2.50	ug/L #	58
73) 3,3'-Dichlorobenzidine	0.00	252	0	N.D.		
74) Chrysene	19.83	228	4715	3.61	ug/L #	56
75) Bis(2-ethylhexyl)phthalate	19.98	149	27822	23.74	ug/L #	97
77) Di-n-octylphthalate	21.18	149	4460	2.06	ug/L #	88
78) Benzo(b)fluoranthene	0.00	252	0	N.D.		
79) Benzo(k)fluoranthene	0.00	252	0	N.D.		
80) Benzo(a)pyrene	0.00	252	0	N.D.		
81) Indeno(1,2,3-cd)pyrene	0.00	276	0	N.D.		
82) Dibenz(a,h)anthracene	0.00	278	0	N.D.		
83) Benzo(g,h,i)perylene	0.00	276	0	N.D.		

(#) = qualifier out of range (m) = manual integration

5995.D LANL.M

Tue Oct 20 14:13:15 1998

HPMS7

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Quantitation Report

Data File : C:\HPCHEM\1\DATA\101698\5995.D
 Acq On : 16 Oct 1998 21:58
 Sample : 09-522-08 SOIL
 Misc : SOIL

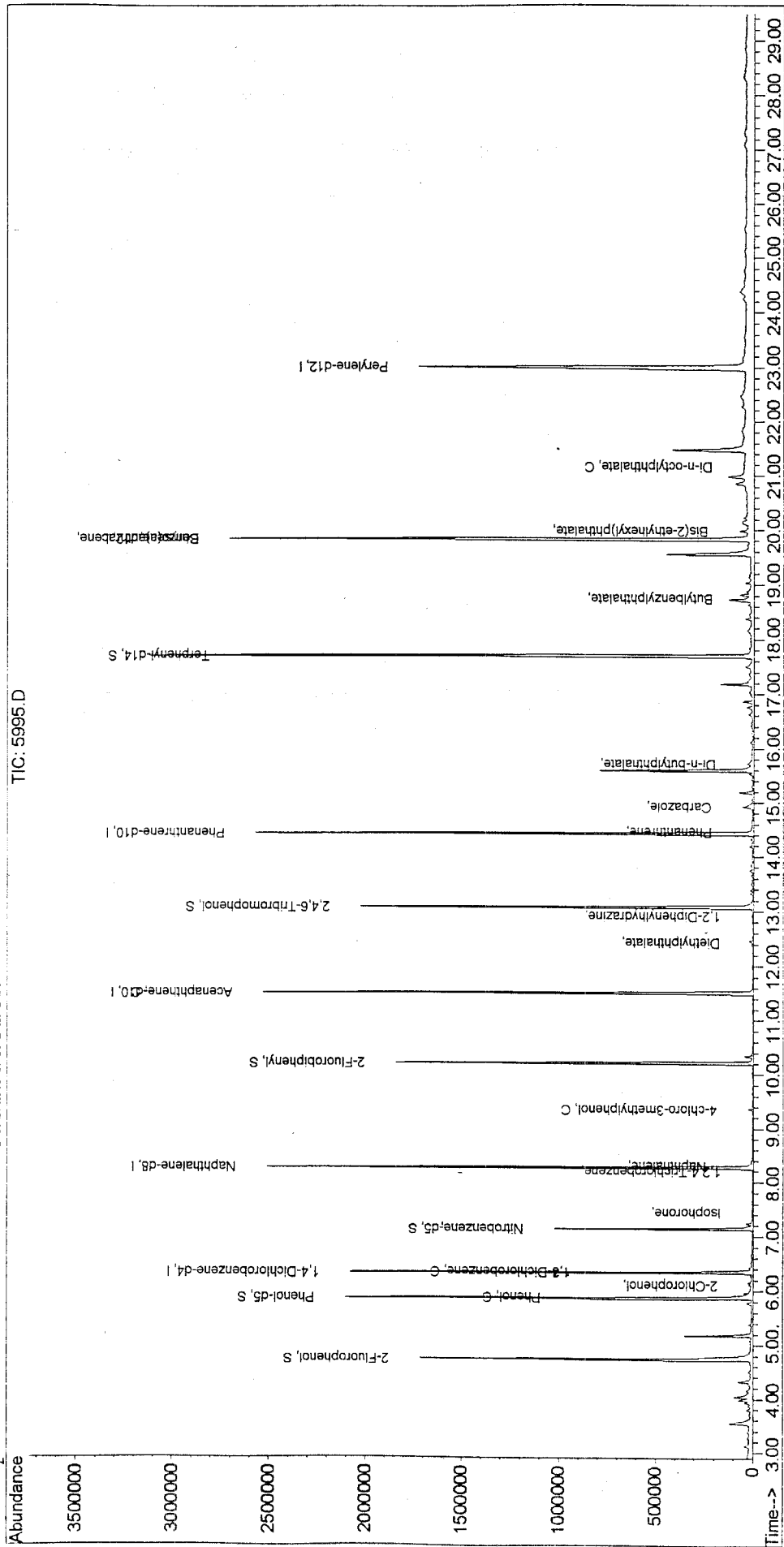
Vial: 18
 Operator: MLS
 Inst : HPMS 7
 Multiplr: 33.00

MS Integration Params: rteint.p

Quant Time: Oct 20 14:13 1998

Quant Results File: LANL.RES

Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
 Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
 Last Update : Sun Oct 18 11:51:56 1998
 Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\101698\5995.D

Acq On : 16 Oct 1998 21:58

Sample : 09-522-08 SOIL

Misc : SOIL

MS Integration Params: LSCINT.P

Vial: 18

Operator: MLS

Inst : HPMS 7

Multiplr: 33.00

Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Smoothing : OFF

Filtering: 5

Sampling : 1

Min Area: 1 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	3.549	113	122	136	rBV4	105476	325045	5.15%	0.585%
2	3.983	197	202	206	rVV	59137	129980	2.06%	0.234%
3	4.035	206	210	229	rVV	78861	246188	3.90%	0.443%
4	4.329	260	265	276	rVB2	63727	125839	1.99%	0.227%
5	4.745	333	343	367	rBV	1702337	3328223	52.76%	5.994%
6	5.189	417	426	435	rBV	344606	607387	9.63%	1.094%
7	5.878	549	555	568	rBV	2095780	3107859	49.26%	5.597%
8	6.343	636	642	654	rBV	2072369	3161152	50.11%	5.693%
9	7.149	786	793	806	rBV	1017935	1546555	24.52%	2.785%
10	8.276	996	1004	1020	rBV	2507767	3996943	63.36%	7.199%
11	10.216	1359	1367	1380	rBV	1842316	3142262	49.81%	5.659%
12	11.514	1601	1610	1626	rBV	2528223	4484548	71.09%	8.077%
13	13.079	1895	1903	1923	rVB	2019555	3866268	61.29%	6.963%
14	14.430	2147	2156	2169	rBV2	2565277	4900515	77.68%	8.826%
15	14.927	2240	2249	2254	rBV2	51238	125212	1.98%	0.226%
16	15.189	2290	2298	2304	rVB	67335	119671	1.90%	0.216%
17	15.600	2366	2375	2389	rVV	783117	1517429	24.05%	2.733%
18	16.867	2605	2612	2620	rBV3	45454	87529	1.39%	0.158%
19	17.187	2664	2672	2680	rBV3	157016	324355	5.14%	0.584%
20	17.700	2759	2768	2778	rBV	3105468	6308514	100.00%	11.362%
21	18.731	2949	2961	2970	rBV3	112805	309430	4.90%	0.557%
22	18.816	2972	2977	2983	rVV	54355	100077	1.59%	0.180%
23	19.554	3107	3115	3136	rBV	428540	1204079	19.09%	2.169%
24	19.831	3157	3167	3181	rBV2	2680696	5521630	87.53%	9.945%
25	19.981	3190	3195	3205	rVB	43079	91787	1.45%	0.165%
26	20.852	3352	3358	3369	rBV9	47762	135048	2.14%	0.243%
27	20.985	3377	3383	3392	rVB4	76513	176282	2.79%	0.317%
28	21.477	3465	3475	3489	rBV	370461	1035335	16.41%	1.865%
29	23.005	3746	3761	3777	rBV2	1683332	5497208	87.14%	9.901%

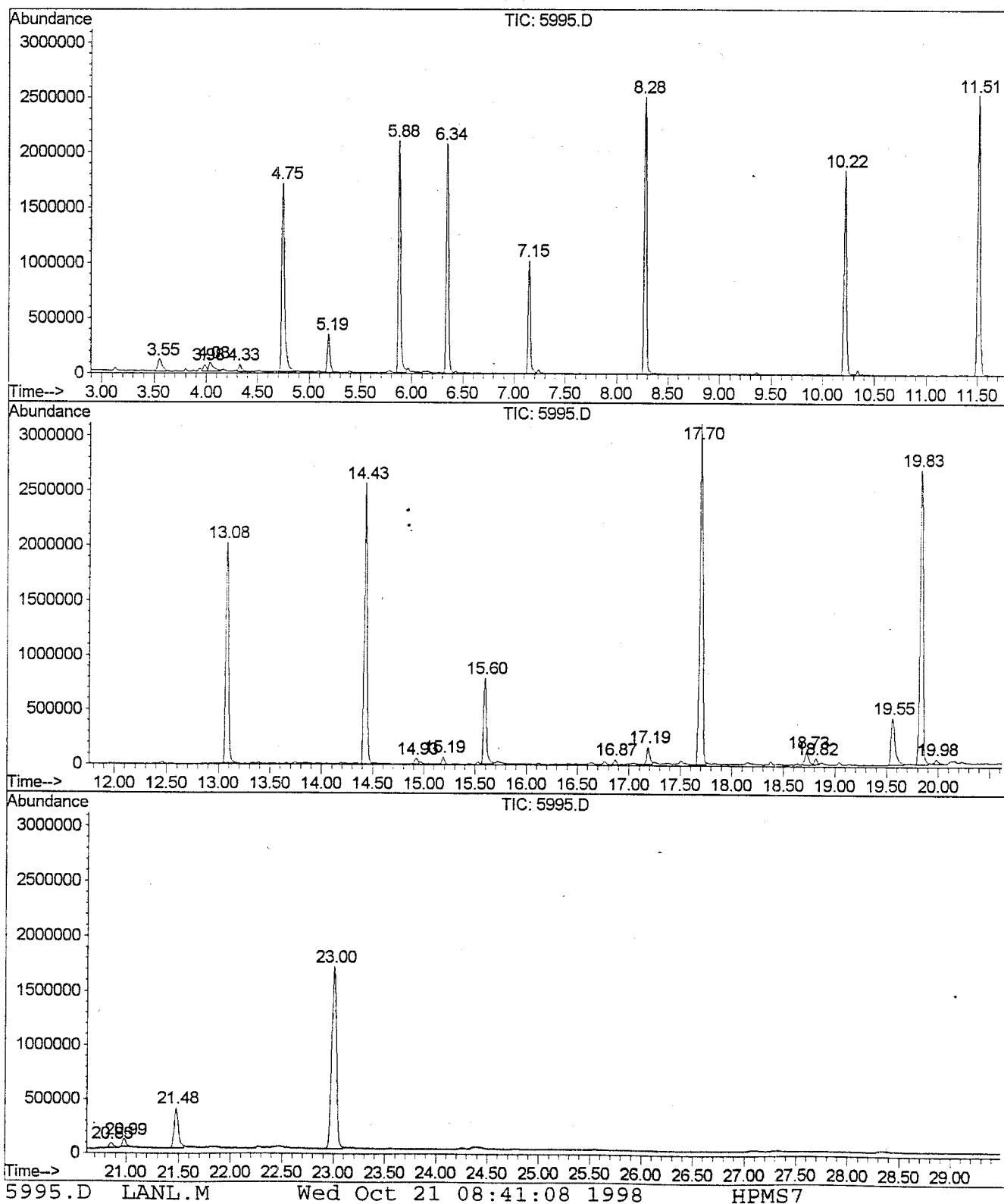
Sum of corrected areas: 55522350

5995.D LANL.M

Wed Oct 21 08:41:06 1998 HPMS7

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\101698\5995.D
 Operator : MLS
 Acquired : 16 Oct 1998 21:58 using AcqMethod BNA
 Instrument : HPMS 7
 Sample Name: 09-522-08 SOIL
 Misc Info : SOIL
 Vial Number: 18
 Quant File : LANL.RES (RTE Integrator)



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\101698\5995.D
Acq On : 16 Oct 1998 21:58
Sample : 09-522-08 SOIL
Misc : SOIL
MS Integration Params: LSCINT.P

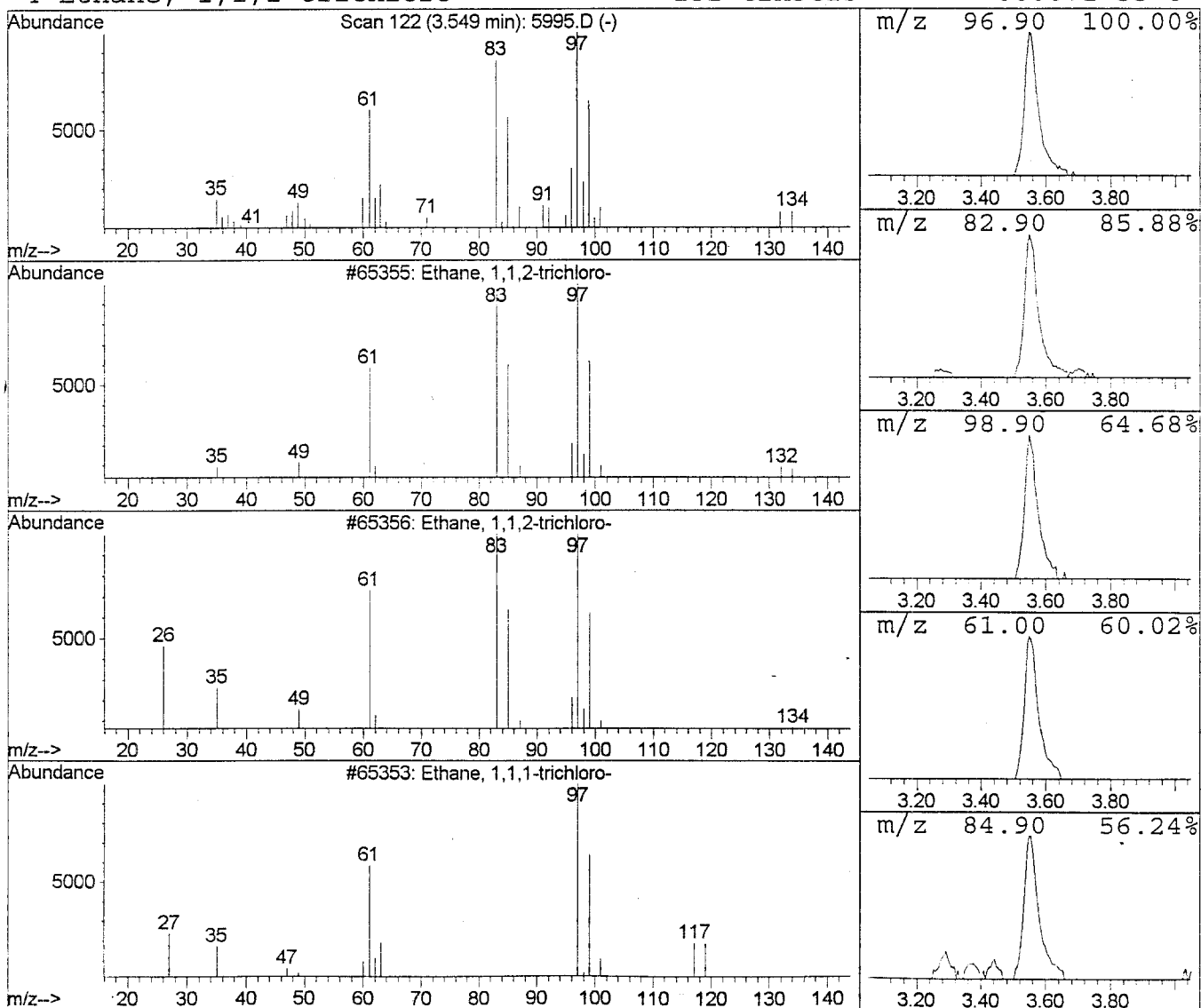
Vial: 18
Operator: MLS
Inst : HPMS 7
Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
Library : C:\DATABASE\NBS75K.L

Peak Number 1 Ethane, 1,1,2-trichloro- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.55	135.73 ug/L	325045	1,4-Dichlorobenzene-d4	6.35

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qua
1			Ethane, 1,1,2-trichloro-	132	C2H3Cl3	000079-00-5	96
2			Ethane, 1,1,2-trichloro-	132	C2H3Cl3	000079-00-5	94
3			Ethane, 1,1,1-trichloro-	132	C2H3Cl3	000071-55-6	43
4			Ethane, 1,1,1-trichloro-	132	C2H3Cl3	000071-55-6	43



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\101698\5995.D

Acq On : 16 Oct 1998 21:58

Sample : 09-522-08 SOIL

Misc : SOIL

MS Integration Params: LSCINT.P

Vial: 18

Operator: MLS

Inst : HPMS 7

Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

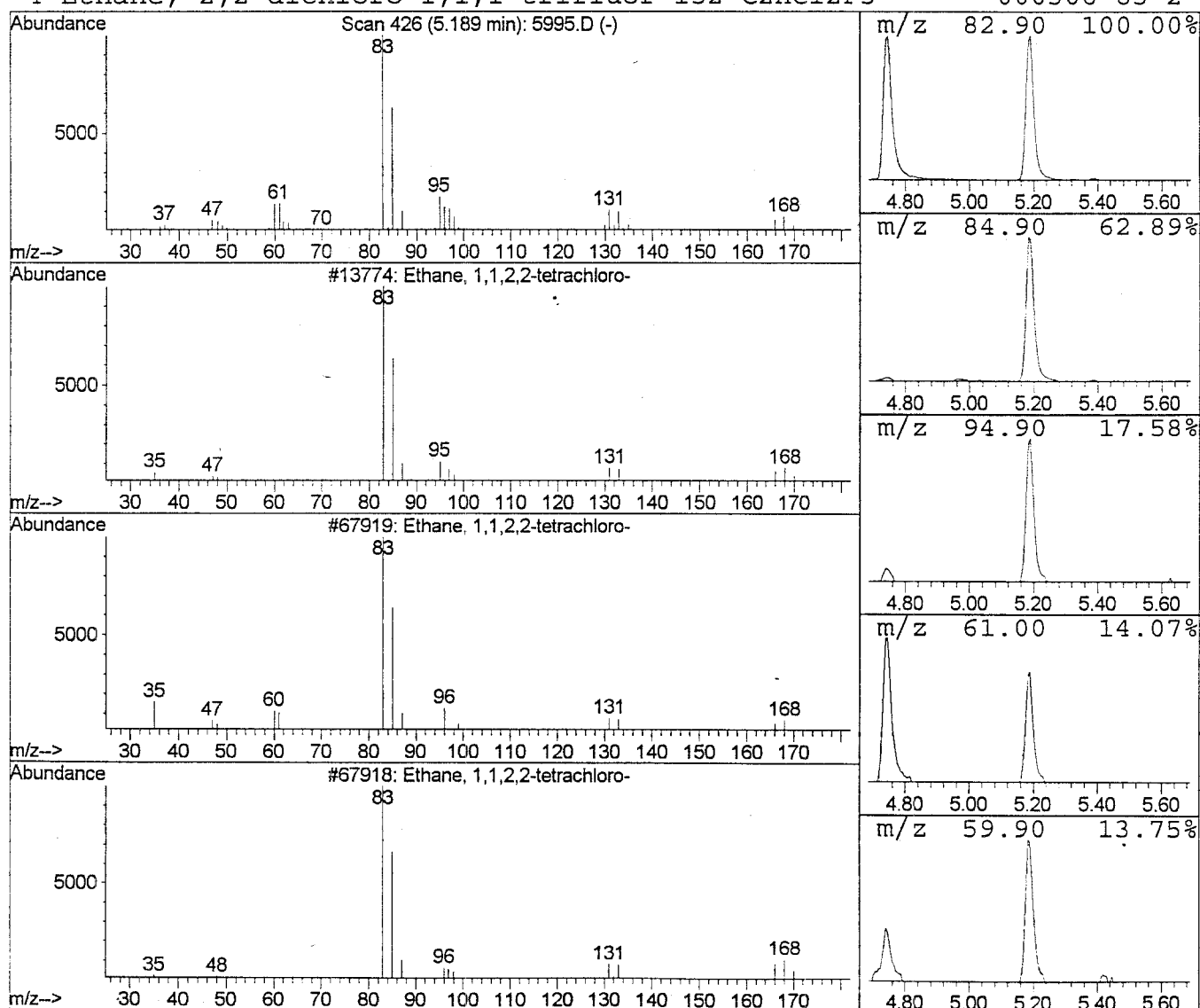
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Library : C:\DATABASE\NBS75K.L

Peak Number 2 Ethane, 1,1,2,2-tetrachloro- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.19	253.63 ug/L	607387	1,4-Dichlorobenzene-d4	6.35

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qua
1			Ethane, 1,1,2,2-tetrachloro-	166	C2H2Cl4	000079-34-5	93
2			Ethane, 1,1,2,2-tetrachloro-	166	C2H2Cl4	000079-34-5	93
3			Ethane, 1,1,2,2-tetrachloro-	166	C2H2Cl4	000079-34-5	87
4			Ethane, 2,2-dichloro-1,1,1-trifluor	152	C2HCl2F3	000306-83-2	59



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\101698\5995.D

Acq On : 16 Oct 1998 21:58

Sample : 09-522-08 SOIL

Misc : SOIL

MS Integration Params: LSCINT.P

Vial: 18

Operator: MLS

Inst : HPMS 7

Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

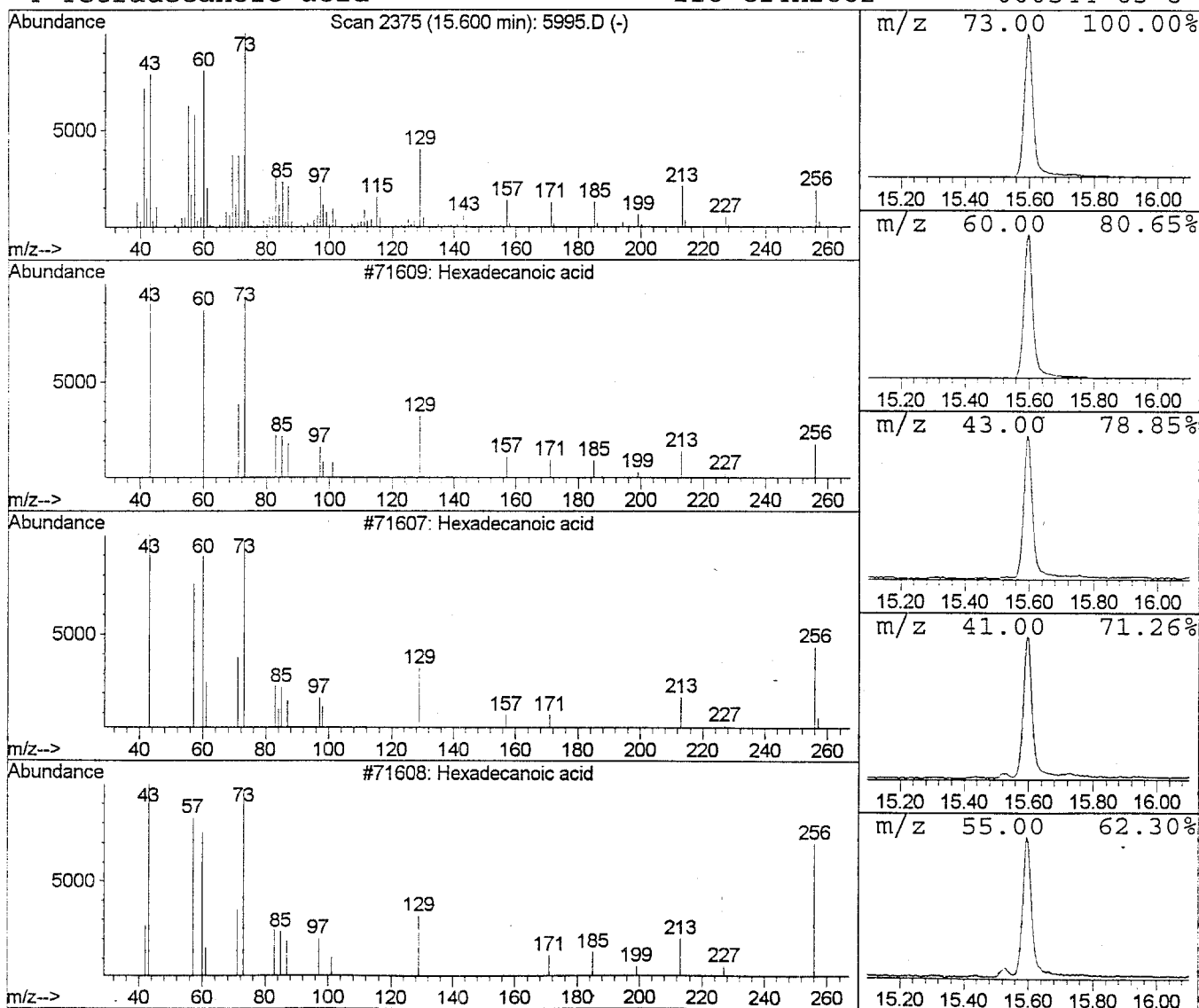
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Library : C:\DATABASE\NBS75K.L

Peak Number 3 Hexadecanoic acid Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.60	408.73 ug/L	1517430	Phenanthrene-d10	14.43

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qua
1	5	Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2		Hexadecanoic acid	256	C16H32O2	000057-10-3	98
3		Hexadecanoic acid	256	C16H32O2	000057-10-3	97
4		Tetradecanoic acid	228	C14H28O2	000544-63-8	95



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\101698\5995.D
Acq On : 16 Oct 1998 21:58
Sample : 09-522-08 SOIL
Misc : SOIL
MS Integration Params: LSCINT.P

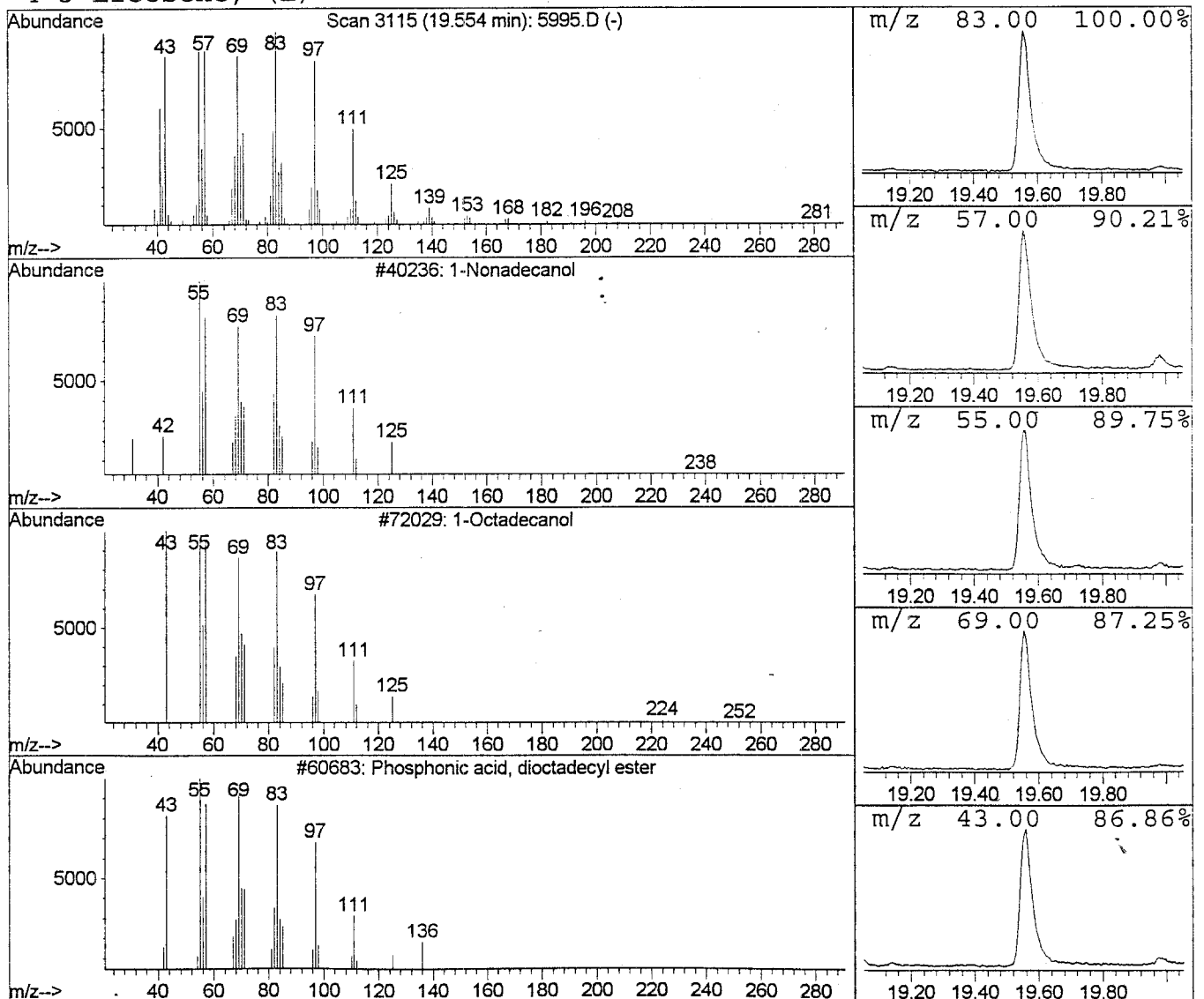
Vial: 18
Operator: MLS
Inst : HPMS 7
Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
Library : C:\DATABASE\NBS75K.L

Peak Number 4 1-Nonadecanol Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.55	287.85 ug/L	1204080	Chrysene-d12	19.83

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qua
1			1-Nonadecanol	284	C19H40O	001454-84-8	95
2			1-Octadecanol	270	C18H38O	000112-92-5	91
3			Phosphonic acid, dioctadecyl ester	587	C36H75O3P	019047-85-9	91
4			3-Eicosene, (E)-	280	C20H40	074685-33-9	90



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\101698\5995.D
Acq On : 16 Oct 1998 21:58
Sample : 09-522-08 SOIL
Misc : SOIL
MS Integration Params: LSCINT.P

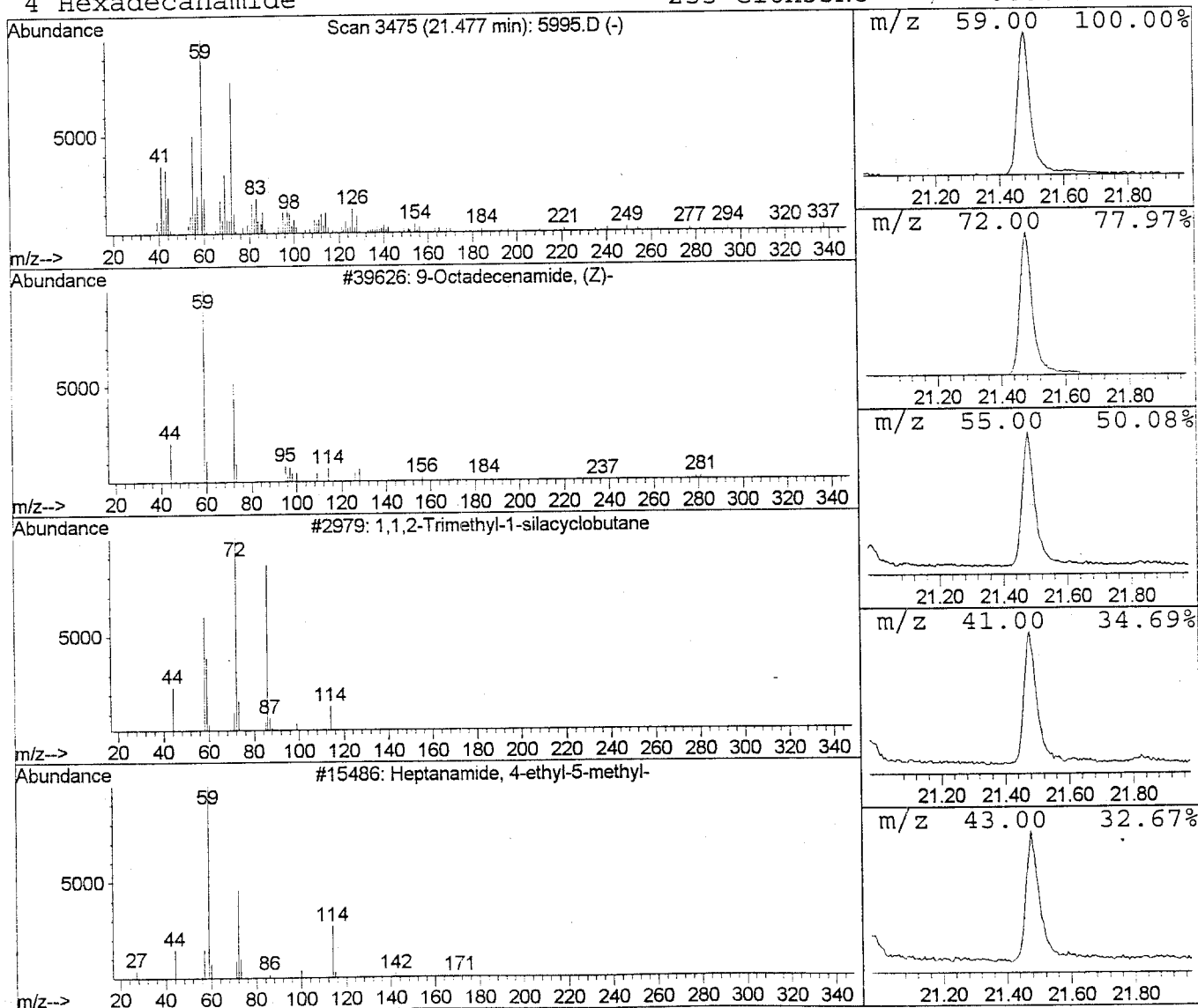
Vial: 18
Operator: MLS
Inst : HPMS 7
Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
Library : C:\DATABASE\NBS75K.L

Peak Number 5 9-Octadecenamide, (Z)- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.48	248.61 ug/L	1035340	Perylene-d12	23.00

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qua
1			9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	58
2			1,1,2-Trimethyl-1-silacyclobutane	114	C6H14Si	030681-90-4	43
3			Heptanamide, 4-ethyl-5-methyl-	171	C10H21NO	054789-40-1	43
4			Hexadecanamide	255	C16H33NO	000629-54-9	38



Tentatively Identified Compound (LSC) summary

Operator ID: MLS Date Acquired: 16 Oct 1998 21:58
 Data File: C:\HPCHEM\1\DATA\101698\5995.D
 Name: 09-522-08 SOIL
 Misc: SOIL
 Method: C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
 Title: M8270/625 LIST INITIAL CALIBRATION 10/13/98
 Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISCon
Ethane, 1,1,2-trichl	3.55	135.7	ug/L	325045	ISTD01	6.35	3161150	40.
Ethane, 1,1,2,2-tetr	5.19	253.6	ug/L	607387	ISTD01	6.35	3161150	40.
Hexadecanoic acid	15.60	408.7	ug/L	1517430	ISTD04	14.43	4900520	40.
1-Nonadecanol	19.55	287.8	ug/L	1204080	ISTD05	19.83	5521630	40.
9-Octadecenamide, (Z	21.48	248.6	ug/L	1035340	ISTD06	23.00	5497210	40.

5995.D LANL.M Wed Oct 21 08:41:18 1998 HPMS7

Data File : C:\HPCHEM\1\DATA\101698\5996.D
 Acq On : 16 Oct 1998 22:37
 Sample : 09-522-09 SOIL
 Misc : SOIL
 MS Integration Params: rteint.p
 Quant Time: Oct 20 14:13 1998

Vial: 19
 Operator: MLS
 Inst : HPMS 7
 Multiplr: 33.00

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
 Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
 Last Update : Sun Oct 18 11:51:56 1998
 Response via : Initial Calibration
 DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.35	152	565904	40.00	ug/L	0.00
19) Naphthalene-d8	8.28	136	2105639	40.00	ug/L	0.00
34) Acenaphthene-d10	11.51	164	1170780	40.00	ug/L	-0.01
56) Phenanthrene-d10	14.43	188	1994903	40.00	ug/L	-0.01
67) Chrysene-d12	19.84	240	2045198	40.00	ug/L	-0.01
76) Perylene-d12	23.01	264	2140986	40.00	ug/L	-0.02

System Monitoring Compounds

4) 2-Fluorophenol	4.75	112	1238620	56.94	ug/L	0.00
Spiked Amount	100.000	Range	25 - 121	Recovery	=	56.94%
6) Phenol-d5	5.88	99	1439764	60.25	ug/L	0.00
Spiked Amount	100.000	Range	24 - 113	Recovery	=	60.25%
20) Nitrobenzene-d5	7.15	82	647310	31.00	ug/L	0.00
Spiked Amount	50.000	Range	23 - 120	Recovery	=	62.00%
38) 2-Fluorobiphenyl	10.22	172	1340815	34.14	ug/L	-0.01
Spiked Amount	50.000	Range	30 - 115	Recovery	=	68.28%
55) 2,4,6-Tribromophenol	13.08	330	538586	83.26	ug/L	-0.01
Spiked Amount	100.000	Range	19 - 122	Recovery	=	83.26%
70) Terphenyl-d14	17.70	244	2443458	52.09	ug/L	0.00
Spiked Amount	50.000	Range	18 - 137	Recovery	=	104.18%

Target Compounds

					Qvalue
2) Pyridine	0.00	79	0	N.D.	
3) n-Nitrosodimethylamine	0.00	74	0	N.D.	
5) Aniline	5.93	93	3628	4.95 ug/L	# 1
7) Phenol	5.89	94	3078	3.85 ug/L	# 1
8) bis-(2-Chloroethyl)ether	6.00	93	1249	2.07 ug/L	# 1
9) 2-Chlorophenol	6.11	128	1968	3.04 ug/L	# 64
10) 1,3-Dichlorobenzene	6.36	146	3415	4.93 ug/L	# 1
11) 1,4-Dichlorobenzene	6.36	146	3415	4.87 ug/L	# 1
12) Benzyl Alcohol	0.00	108	0	N.D.	
13) 1,2-Dichlorobenzene	0.00	146	0	N.D.	
14) 2-Methylphenol	0.00	107	0	N.D.	
15) Bis(2-chloroisopropyl)ethe	0.00	45	0	N.D.	
16) 4-Methylphenol	6.94	107	176	0.26 ug/L	# 16
17) n-Nitroso-di-n-propylamine	0.00	70	0	N.D.	
18) Hexachloroethane	7.08	117	5469	20.73 ug/L	# 10
21) Nitrobenzene	7.14	77	2609	4.23 ug/L	# 17
22) Isophorone	7.51	82	373	0.36 ug/L	# 64
23) 2-Nitrophenol	0.00	139	0	N.D.	
24) 2,4-Dimethylphenol	0.00	122	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\101698\5996.D
 Acq On : 16 Oct 1998 22:37
 Sample : 09-522-09 SOIL
 Misc : SOIL
 MS Integration Params: rteint.p
 Quant Time: Oct 20 14:13 1998

Vial: 19
 Operator: MLS
 Inst : HPMS 7
 Multiplr: 33.00

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
 Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
 Last Update : Sun Oct 18 11:51:56 1998
 Response via : Initial Calibration
 DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25) bis(2-chloroethoxy)methane	7.95	93	162	0.25	ug/L #	49
26) Benzoic Acid	0.00	122	0	N.D.		
27) 2,4-Dichlorophenol	0.00	162	0	N.D.		
28) 1,2,4-Trichlorobenzene	8.21	180	629	1.14	ug/L #	87
29) Naphthalene	8.31	128	355	0.22	ug/L #	68
30) 4-Chloroaniline	0.00	127	0	N.D.		
31) Hexachlorobutadiene	0.00	225	0	N.D.		
32) 4-chloro-3methylphenol	9.36	107	532	1.09	ug/L #	16
33) 2-Methylnaphthalene	0.00	142	0	N.D.		
35) Hexachlorocyclopentadiene	0.00	237	0	N.D.		
36) 2,4,6-Trichlorophenol	0.00	196	0	N.D.		
37) 2,4,5-Trichlorophenol	0.00	196	0	N.D.		
39) 2-Chloronaphthalene	0.00	162	0	N.D.		
40) 2-Nitroaniline	0.00	65	0	N.D.		
41) Dimethylphthalate	0.00	163	0	N.D.		
42) Acenaphthylene	0.00	152	0	N.D.		
43) 2,6-Dinitrotoluene	0.00	165	0	N.D.		
44) 3-Nitroaniline	0.00	138	0	N.D.		
45) Acenaphthene	11.51	154	3595	3.59	ug/L #	7
46) 2,4-Dinitrophenol	0.00	184	0	N.D.		
47) 4-Nitrophenol	0.00	65	0	N.D.		
48) Dibenzofuran	0.00	168	0	N.D.		
49) 2,4-Dinitrotoluene	0.00	165	0	N.D.		
50) Diethylphthalate	12.44	149	3570	3.11	ug/L #	58
51) Fluorene	0.00	166	0	N.D.		
52) 4-Chlorophenyl-phenylether	0.00	204	0	N.D.		
53) 4-Nitroaniline	0.00	138	0	N.D.		
54) 1,2-Diphenylhydrazine	12.92	77	1432	1.23	ug/L #	67
57) 4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.		
58) n-Nitrosodiphenylamine	0.00	169	0	N.D.		
59) 4-Bromophenyl-phenyl ether	0.00	248	0	N.D.		
60) Hexachlorobenzene	0.00	284	0	N.D.		
61) Pentachlorophenol	0.00	266	0	N.D.		
62) Phenanthrene	14.43	178	189	0.11	ug/L #	1
63) Anthracene	0.00	178	0	N.D.		
64) Carbazole	0.00	167	0	N.D.		
65) Di-n-butylphthalate	15.73	149	7292	3.92	ug/L #	78
66) Fluoranthene	0.00	202	0	N.D.		
68) Benzidine	0.00	184	0	N.D.		
69) Pyrene	0.00	202	0	N.D.		
71) Butylbenzylphthalate	18.76	149	6395	7.18	ug/L #	1

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\101698\5996.D
Acq On : 16 Oct 1998 22:37
Sample : 09-522-09 SOIL
Misc : SOIL
MS Integration Params: rteint.p
Quant Time: Oct 20 14:13 1998

Vial: 19
Operator: MLS
Inst : HPMS 7
Multiplr: 33.00

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
Last Update : Sun Oct 18 11:51:56 1998
Response via : Initial Calibration
DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
72) Benzo(a)anthracene	19.84	228	4945	2.43	ug/L #	53
73) 3,3'-Dichlorobenzidine	0.00	252	0	N.D.		
74) Chrysene	19.84	228	4945	3.51	ug/L #	51
75) Bis(2-ethylhexyl)phthalate	19.98	149	21851	17.27	ug/L #	95
77) Di-n-octylphthalate	21.19	149	1795	0.77	ug/L #	1
78) Benzo(b)fluoranthene	0.00	252	0	N.D.		
79) Benzo(k)fluoranthene	0.00	252	0	N.D.		
80) Benzo(a)pyrene	0.00	252	0	N.D.		
81) Indeno(1,2,3-cd)pyrene	0.00	276	0	N.D.		
82) Dibenz(a,h)anthracene	0.00	278	0	N.D.		
83) Benzo(g,h,i)perylene	0.00	276	0	N.D.		

(#) = qualifier out of range (m) = manual integration

5996.D LANL.M

Tue Oct 20 14:13:37 1998

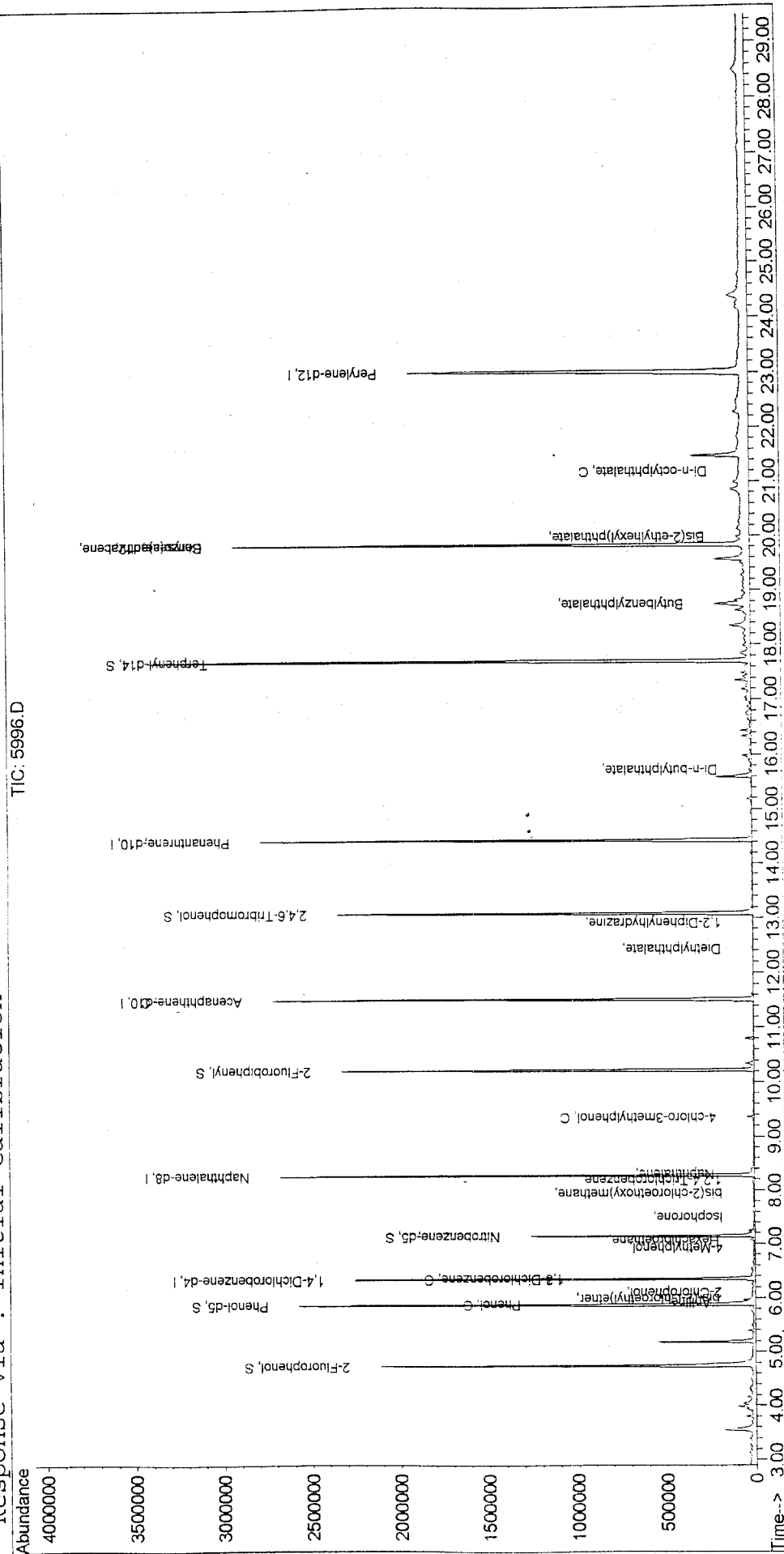
HPMS7

Page 3

Quantitation Report

Data File : C:\HPCHEM\1\DATA\101698\5996.D
 Acq On : 16 Oct 1998 22:37
 Sample : 09-522-09 SOIL
 Misc : SOIL
 MS Integration Params: rteint.p
 Quant Time: Oct 20 14:13 1998
 Vial: 19
 Operator: MLS
 Inst : HPMS 7
 Multiplr: 33.00
 Quant Results File: LANL.RES

Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
 Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
 Last Update : Sun Oct 18 11:51:56 1998
 Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\101698\5996.D
 Acq On : 16 Oct 1998 22:37
 Sample : 09-522-09 SOIL
 Misc : SOIL
 MS Integration Params: LSCINT.P

Vial: 19
 Operator: MLS
 Inst : HPMS-7
 Multiplr: 33.00

Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
 Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
 Smoothing : OFF Filtering: 5
 Sampling : 1 Min Area: 1 % of largest Peak
 Start Thrs: 0.2 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

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

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	3.555	113	123	142	rVB4	161329	516345	7.48%	0.862%
2	3.804	162	169	175	rVB	42962	72301	1.05%	0.121%
3	3.988	197	203	206	rVV	77980	170101	2.46%	0.284%
4	4.040	207	211	221	rVB2	42129	91733	1.33%	0.153%
5	4.745	334	343	367	rBV	2095115	4011299	58.13%	6.699%
6	5.189	419	426	440	rBV	529113	918363	13.31%	1.534%
7	5.878	549	555	568	rBV	2564802	3840405	55.65%	6.413%
8	5.963	568	571	580	rVB2	50963	85680	1.24%	0.143%
9	6.343	636	642	655	rBV	2243721	3417525	49.52%	5.707%
10	7.149	786	793	807	rBV	1253049	1927830	27.94%	3.219%
11	8.277	997	1004	1017	rBV	2672573	4247811	61.56%	7.094%
12	10.216	1359	1367	1384	rBV	2322639	3944597	57.16%	6.587%
13	10.798	1469	1476	1481	rBV3	48692	80320	1.16%	0.134%
14	11.514	1601	1610	1625	rBV	2711937	4812407	69.74%	8.037%
15	13.085	1895	1904	1922	rBV	2341149	4439141	64.33%	7.413%
16	14.431	2147	2156	2171	rBV2	2776759	5235585	75.87%	8.743%
17	15.590	2363	2373	2388	rBV3	203970	501049	7.26%	0.837%
18	15.980	2441	2446	2455	rVB5	47738	88817	1.29%	0.148%
19	16.333	2506	2512	2519	rVB4	53184	108311	1.57%	0.181%
20	16.434	2522	2531	2537	rBV3	57148	107358	1.56%	0.179%
21	17.182	2665	2671	2677	rBV6	36812	72890	1.06%	0.122%
22	17.353	2694	2703	2710	rBV7	74612	168272	2.44%	0.281%
23	17.481	2722	2727	2737	rVB6	35580	71711	1.04%	0.120%
24	17.700	2758	2768	2783	rBV	3390995	6900821	100.00%	11.524%
25	18.347	2874	2889	2906	rBV9	89649	328741	4.76%	0.549%
26	18.630	2936	2942	2952	rVB3	52178	123903	1.80%	0.207%
27	18.747	2952	2964	2973	rBV8	167110	555930	8.06%	0.928%
28	19.565	3110	3117	3128	rBV3	156181	412621	5.98%	0.689%
29	19.837	3157	3168	3185	rBV2	2871815	5966535	86.46%	9.964%
30	21.477	3465	3475	3492	rBV2	276425	808216	11.71%	1.350%
31	23.010	3747	3762	3780	rBV2	1863452	5854938	84.84%	9.778%

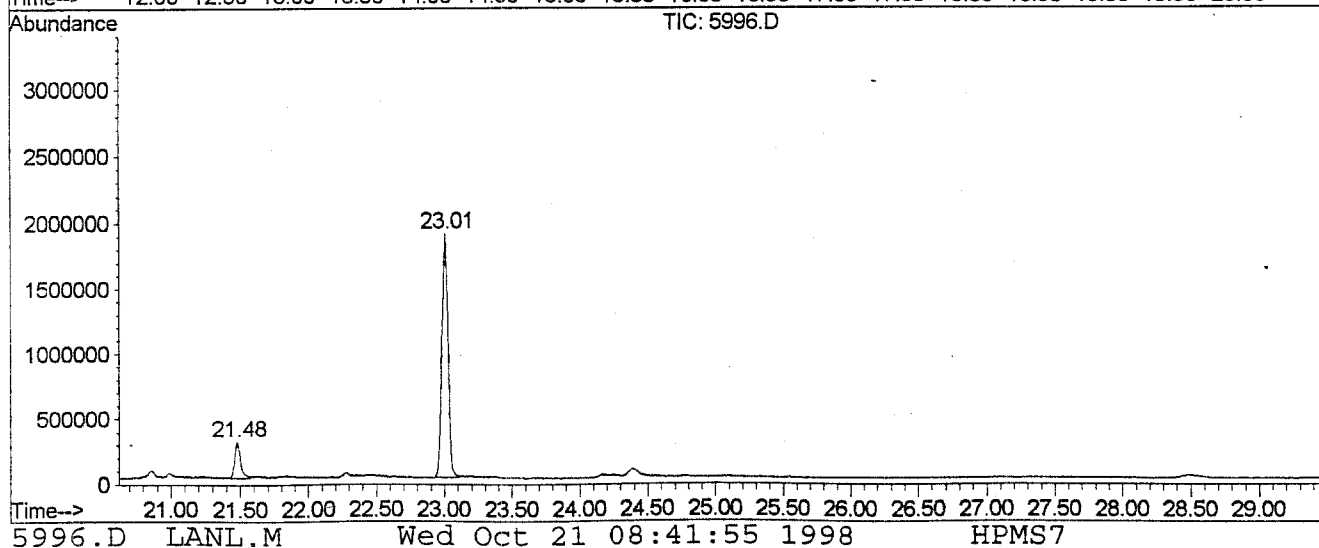
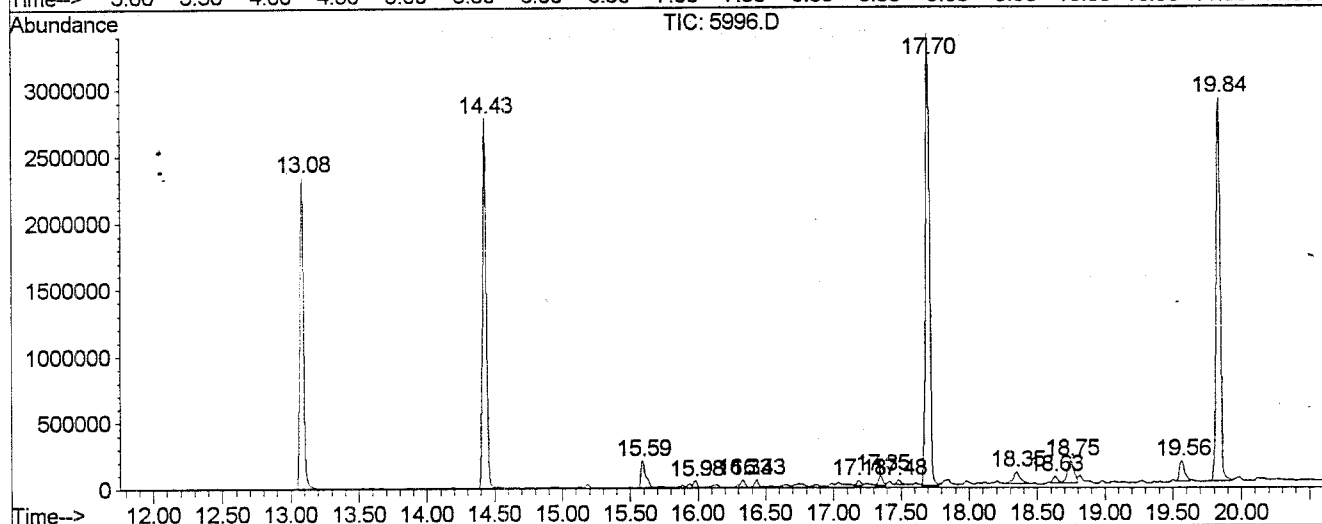
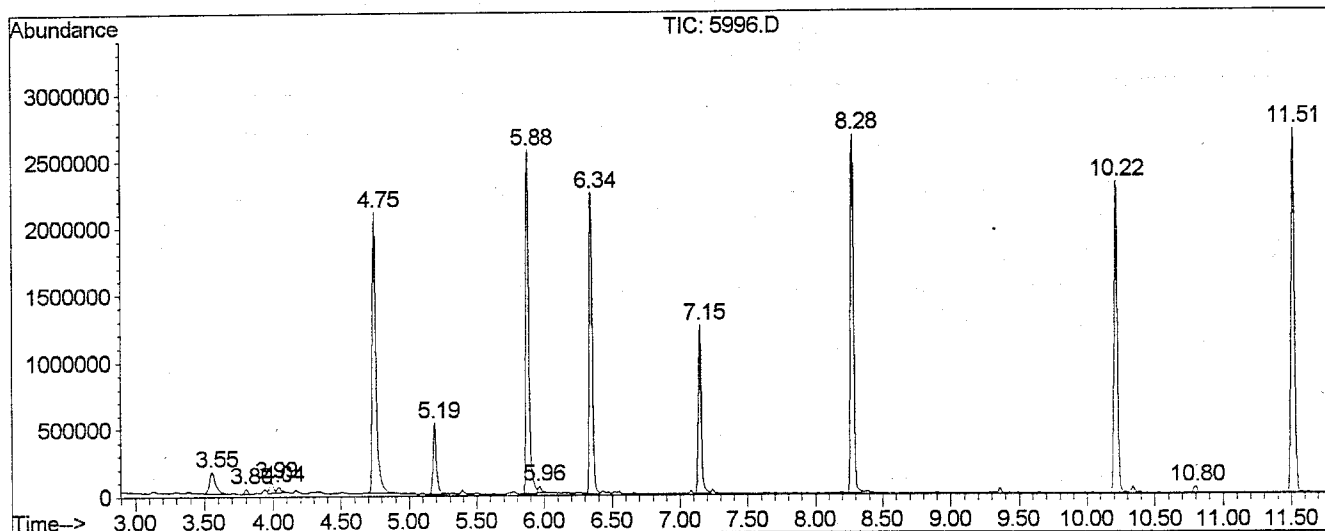
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5996.D LANL.M

Wed Oct 21 08:41:54 1998 HPMS7

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\101698\5996.D
 Operator : MLS
 Acquired : 16 Oct 1998 22:37 using AcqMethod BNA
 Instrument : HPMS 7
 Sample Name: 09-522-09 SOIL
 Misc Info : SOIL
 Vial Number: 19
 Quant File : LANL.RES (RTE Integrator)



5996.D LANL.M Wed Oct 21 08:41:55 1998 HPMS7

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\101698\5996.D
Acq On : 16 Oct 1998 22:37
Sample : 09-522-09 SOIL
Misc : SOIL
MS Integration Params: LSCINT.P

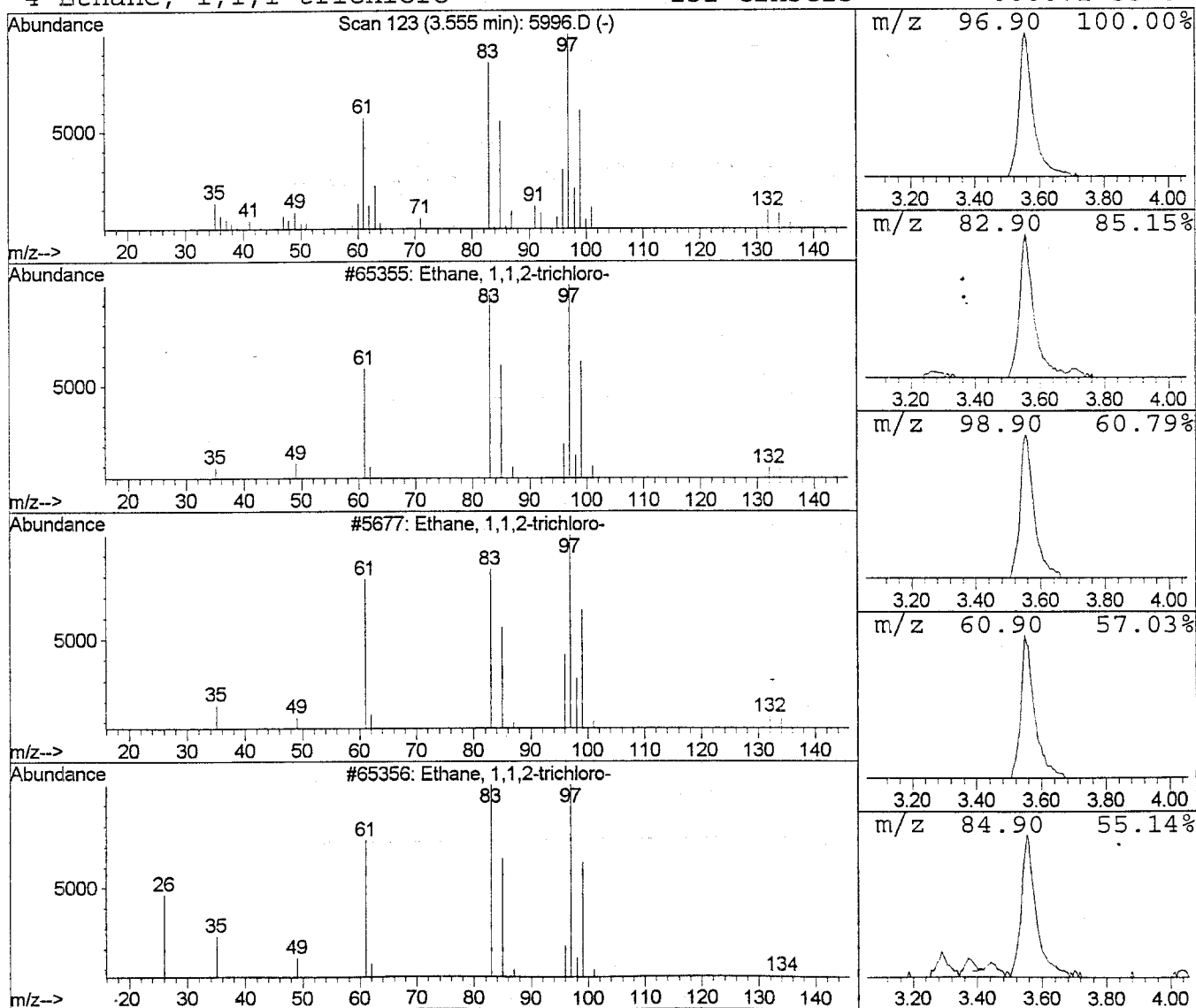
Vial: 19
Operator: MLS
Inst : HPMS 7
Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
Library : C:\DATABASE\NBS75K.L

Peak Number 1 Ethane, 1,1,2-trichloro- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.55	199.44 ug/L	516345	1,4-Dichlorobenzene-d4	6.35

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qua
1			Ethane, 1,1,2-trichloro-	132	C2H3Cl3	000079-00-5	98
2			Ethane, 1,1,2-trichloro-	132	C2H3Cl3	000079-00-5	96
3			Ethane, 1,1,2-trichloro-	132	C2H3Cl3	000079-00-5	96
4			Ethane, 1,1,1-trichloro-	132	C2H3Cl3	000071-55-6	46



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\101698\5996.D
Acq On : 16 Oct 1998 22:37
Sample : 09-522-09 SOIL
Misc : SOIL
MS Integration Params: LSCINT.P

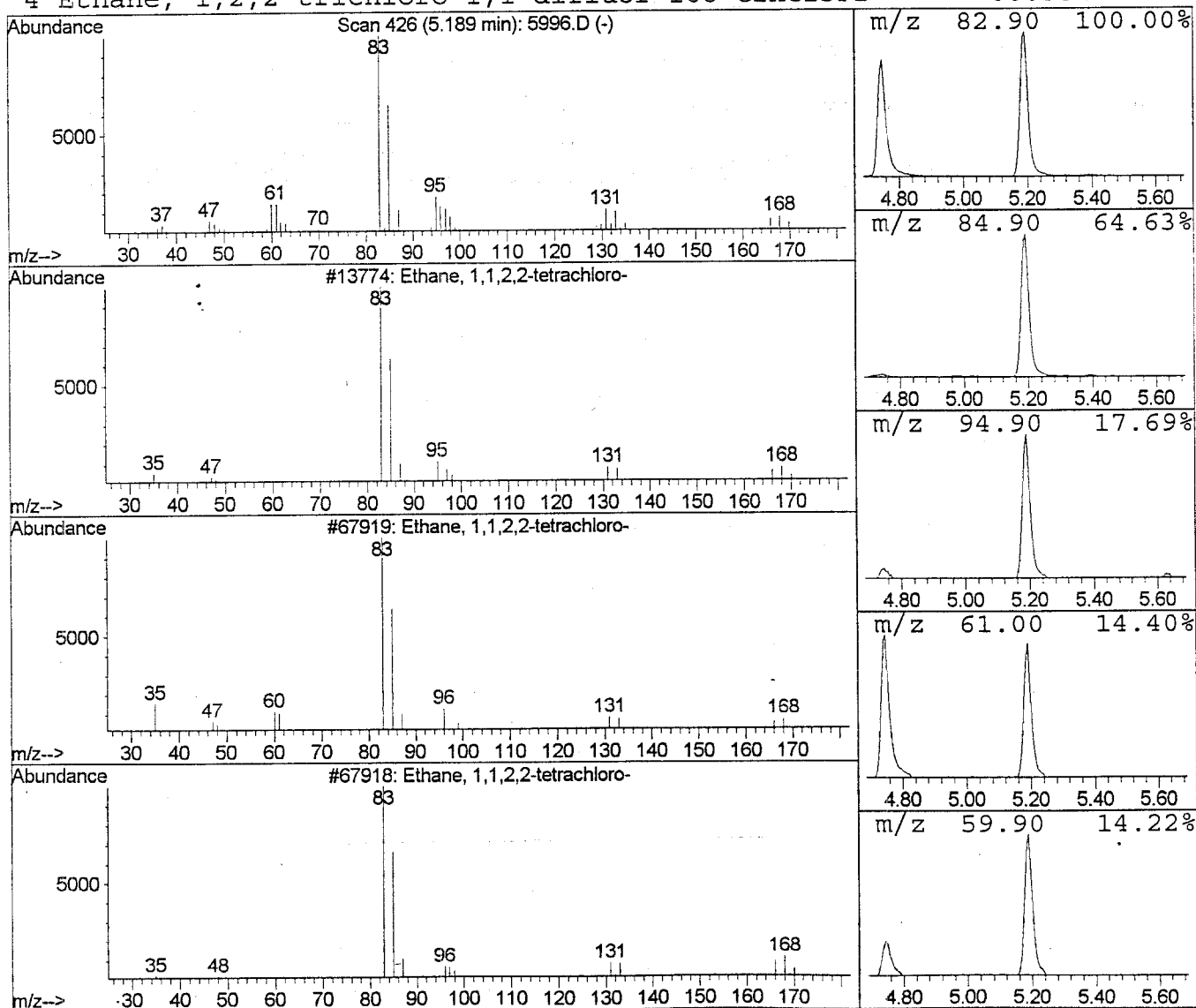
Vial: 19
Operator: MLS
Inst : HPMS 7
Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
Library : C:\DATABASE\NBS75K.L

Peak Number 2 Ethane, 1,1,2,2-tetrachloro- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.19	354.71 ug/L	918363	1,4-Dichlorobenzene-d4	6.35

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qua
1			Ethane, 1,1,2,2-tetrachloro-	166	C2H2Cl4	000079-34-5	94
2			Ethane, 1,1,2,2-tetrachloro-	166	C2H2Cl4	000079-34-5	93
3			Ethane, 1,1,2,2-tetrachloro-	166	C2H2Cl4	000079-34-5	90
4			Ethane, 1,2,2-trichloro-1,1-difluor	168	C2HCl3F2	000354-21-2	70



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\101698\5996.D
Acq On : 16 Oct 1998 22:37
Sample : 09-522-09 SOIL
Misc : SOIL
MS Integration Params: LSCINT.P

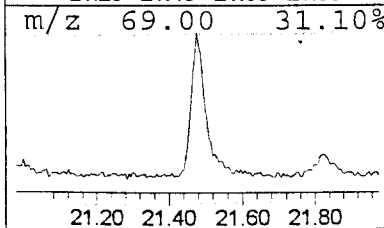
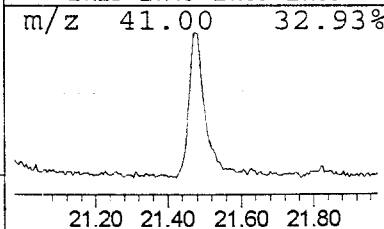
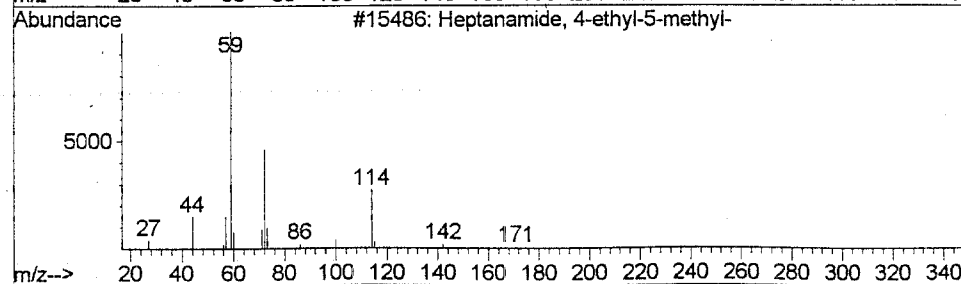
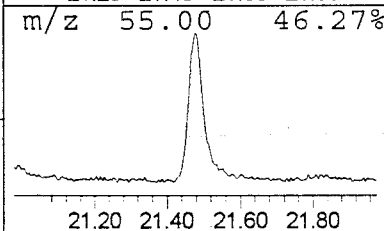
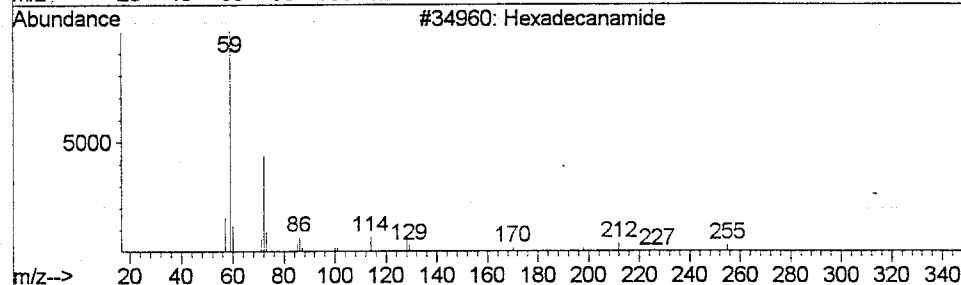
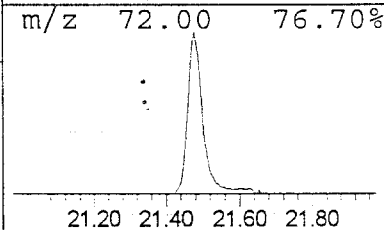
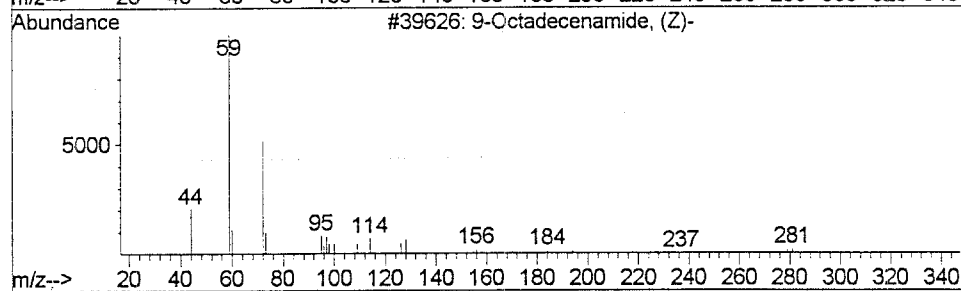
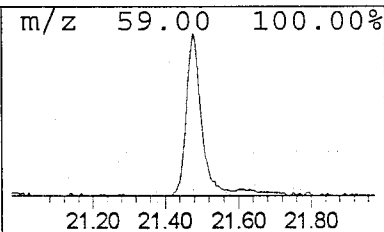
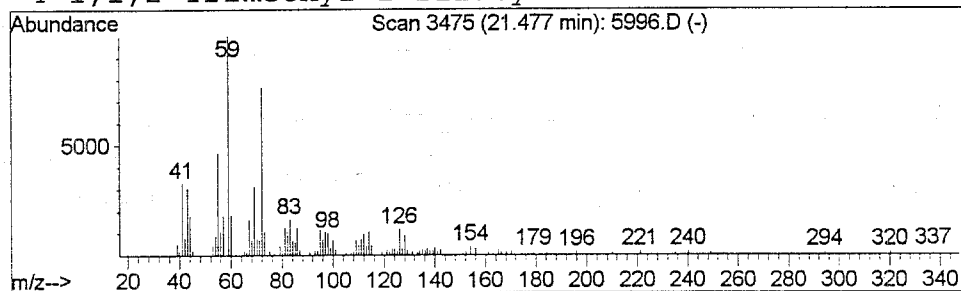
Vial: 19
Operator: MLS
Inst : HPMS 7
Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
Library : C:\DATABASE\NBS75K.L

Peak Number 3 9-Octadecenamide, (Z)- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.48	182.21 ug/L	808216	Perylene-d12	23.01

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qua
1			9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	58
2			Hexadecanamide	255	C16H33NO	000629-54-9	47
3			Heptanamide, 4-ethyl-5-methyl-	171	C10H21NO	054789-40-1	43
4			1,1,2-Trimethyl-1-silacyclobutane	114	C6H14Si	030681-90-4	43



Tentatively Identified Compound (LSC) summary

Operator ID: MLS Date Acquired: 16 Oct 1998 22:37
 Data File: C:\HPCHEM\1\DATA\101698\5996.D
 Name: 09-522-09 SOIL
 Misc: SOIL
 Method: C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
 Title: M8270/625 LIST INITIAL CALIBRATION 10/13/98
 Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISCon
Ethane, 1,1,2-trichl	3.55	199.4	ug/L	516345	ISTD01	6.35	3417530	40.
Ethane, 1,1,2,2-tetr	5.19	354.7	ug/L	918363	ISTD01	6.35	3417530	40.
9-Octadecenamide, (Z	21.48	182.2	ug/L	808216	ISTD06	23.01	5854940	40.

5996.D LANL.M Wed Oct 21 08:41:58 1998 HPMS7

Semivolatiles

Standards Data

- Initial calibration data summary form
- Chromatograms and quantitation reports for all standards
- Continuing calibration data summary form
- Chromatogram and quantitation report for standard
- Internal Standard Area Summary

Response Factor Report HPMS 7

Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
 Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
 Last Update : Sun Oct 18 11:08:28 1998
 Response via : Initial Calibration

Calibration Files

4 =5901.D 20 =5903.D 50 =5900.D
 80 =5904.D 100 =5905.D 120 =5906.D

	Compound	4	20	50	80	100	120	Avg	%R
1) I	1,4-Dichlorobenzene-d	-----ISTD-----							
2)	Pyridine	1.697	1.735	1.684	1.713	1.685	1.633	1.691	2.0
3)	n-Nitrosodimethylam	0.979	1.015	0.991	1.003	0.992	0.953	0.989	2.1
4) S	2-Fluorophenol	1.566	1.631	1.545	1.540	1.517	1.427	1.538	4.3
5)	Aniline	1.702	1.805	1.772	1.688	1.683	1.609	1.710	4.0
6) S	Phenol-d5	1.980	1.874	1.686	1.578	1.531	1.486	1.689	11.7
7) C	Phenol	2.180	2.109	1.895	1.737	1.670	1.604	1.866	12.7
8)	bis-(2-Chloroethyl)	1.591	1.546	1.421	1.370	1.298	1.230	1.409	9.9
9)	2-Chlorophenol	1.655	1.627	1.513	1.469	1.428	1.380	1.512	7.2
10)	1,3-Dichlorobenzene	1.842	1.730	1.586	1.540	1.509	1.486	1.616	8.7
11) C	1,4-Dichlorobenzene	1.845	1.744	1.602	1.556	1.533	1.537	1.636	7.9
12)	Benzyl Alcohol	1.015	1.034	0.977	0.939	0.912	0.877	0.959	6.3
13)	1,2-Dichlorobenzene	1.739	1.639	1.506	1.461	1.425	1.411	1.530	8.5
14)	2-Methylphenol	1.267	1.222	1.100	1.039	1.007	0.968	1.101	10.9
15)	Bis(2-chloroisoprop	1.751	1.691	1.597	1.488	1.437	1.353	1.553	9.8
16)	4-Methylphenol	1.806	1.766	1.602	1.513	1.449	1.412	1.591	10.3
17) P	n-Nitroso-di-n-prop	1.134	1.067	1.019	0.974	0.952	0.924	1.012	7.7
18)	Hexachloroethane	0.702	0.669	0.614	0.588	0.572	0.549	0.615	9.6
19) I	Naphthalene-d8	-----ISTD-----							
20) S	Nitrobenzene-d5	0.456	0.438	0.399	0.377	0.362	0.347	0.397	10.8
21)	Nitrobenzene	0.456	0.441	0.394	0.360	0.343	0.323	0.386	13.9
22)	Isophorone	0.762	0.720	0.653	0.615	0.590	0.573	0.652	11.5
23) C	2-Nitrophenol	0.254	0.253	0.216	0.208	0.203	0.197	0.222	11.2
24)	2,4-Dimethylphenol	0.374	0.347	0.312	0.298	0.290	0.288	0.318	11.0
25)	bis(2-chloroethoxy)	0.483	0.455	0.409	0.375	0.359	0.348	0.405	13.4
26)	Benzoic Acid	0.124	0.215	0.234	0.254	0.254	0.266	0.224	23.4
27) C	2,4-Dichlorophenol	0.337	0.328	0.304	0.296	0.288	0.292	0.308	6.5
28)	1,2,4-Trichlorobenz	0.389	0.368	0.338	0.331	0.325	0.330	0.347	7.4
29)	Naphthalene	1.287	1.157	1.024	0.929	0.897	0.871	1.027	16.0
30)	4-Chloroaniline	0.392	0.334	0.310	0.359	0.373	0.368	0.356	8.3
31) C	Hexachlorobutadiene	0.217	0.205	0.193	0.197	0.196	0.201	0.202	4.2
32) C	4-chloro-3methylphe	0.340	0.338	0.308	0.293	0.281	0.276	0.306	9.1
33)	2-Methylnaphthalene	0.819	0.747	0.666	0.633	0.623	0.617	0.684	11.9
34) I	Acenaphthene-d10	-----ISTD-----							
35) P	Hexachlorocyclopent	0.186	0.306	0.321	0.347	0.349	0.355	0.311	20.5
36) C	2,4,6-Trichlorophen	0.449	0.441	0.422	0.418	0.411	0.417	0.426	3.5
37)	2,4,5-Trichlorophen	0.480	0.479	0.451	0.451	0.439	0.443	0.457	3.8
38) S	2-Fluorobiphenyl	1.583	1.426	1.308	1.261	1.235	1.238	1.342	10.2
39)	2-Chloronaphthalene	1.370	1.280	1.166	1.117	1.090	1.092	1.186	9.6
40)	2-Nitroaniline	0.400	0.399	0.381	0.366	0.358	0.345	0.375	6.0
41)	Dimethylphthalate	1.545	1.404	1.271	1.214	1.189	1.194	1.303	10.9

(#) = Out of Range

LANL.M

Sun Oct 18 11:52:06 1998

HPMS7

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Response Factor Report HPMS 7

Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
 Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
 Last Update : Sun Oct 18 11:08:28 1998
 Response via : Initial Calibration

Calibration Files

4 =5901.D 20 =5903.D 50 =5900.D
 80 =5904.D 100 =5905.D 120 =5906.D

	Compound	4	20	50	80	100	120	Avg	%R
42)	Acenaphthylene	2.263	2.070	1.871	1.713	1.617	1.538	1.846	15.1
43)	2,6-Dinitrotoluene	0.335	0.336	0.316	0.307	0.295	0.286	0.312	6.5
44)	3-Nitroaniline		0.234	0.177	0.219	0.236	0.274	0.228	15.3
45) C	Acenaphthene	1.370	1.211	1.098	1.043	1.029	1.032	1.130	12.0
46) P	2,4-Dinitrophenol		0.145	0.181	0.212	0.211	0.225	0.195	16.6
47) P	4-Nitrophenol	0.214	0.237	0.243	0.239	0.232	0.238	0.234	4.4
48)	Dibenzofuran	1.960	1.789	1.610	1.534	1.494	1.483	1.645	11.6
49)	2,4-Dinitrotoluene	0.417	0.437	0.422	0.413	0.398	0.397	0.414	3.6
50)	Diethylphthalate	1.547	1.408	1.302	1.214	1.157	1.141	1.295	12.2
51)	Fluorene	1.542	1.373	1.249	1.358	1.358	1.342	1.371	6.9
52)	4-Chlorophenyl-phen	0.768	0.692	0.659	0.735	0.735	0.728	0.720	5.3
53)	4-Nitroaniline	0.303	0.279	0.231	0.212	0.213	0.247	0.248	14.7
54)	1,2-Diphenylhydrazin	1.582	1.483	1.357	1.221	1.157	1.104	1.317	14.4
55) S	2,4,6-Tribromopheno	0.190	0.204	0.207	0.232	0.237	0.256	0.221	11.1
56) I	Phenanthrene-d10	-----ISTD-----							
57)	4,6-Dinitro-2-methy		0.148	0.155	0.166	0.164	0.167	0.160	5.2
58) C	n-Nitrosodiphenylam	0.649	0.598	0.535	0.504	0.492	0.485	0.544	12.1
59)	4-Bromophenyl-pheny	0.239	0.242	0.233	0.241	0.241	0.251	0.241	2.3
60)	Hexachlorobenzene	0.271	0.267	0.262	0.282	0.286	0.300	0.278	5.0
61) C	Pentachlorophenol	0.132	0.163	0.176	0.184	0.180	0.192	0.171	12.5
62)	Phenanthrene	1.408	1.278	1.138	1.087	1.052	1.061	1.171	12.2
63)	Anthracene	1.389	1.297	1.175	1.104	1.075	1.083	1.187	10.8
64)	Carbazole	1.199	1.070	0.927	0.784	0.728	0.682	0.898	22.7
65)	Di-n-butylphthalate	1.442	1.374	1.259	1.148	1.095	1.067	1.231	12.4
66) C	Fluoranthene	1.442	1.345	1.250	1.196	1.167	1.194	1.266	8.4
67) I	Chrysene-d12	-----ISTD-----							
68)	Benzidine	0.224	0.034	0.018	0.055	0.078	0.144	0.092	84.9
69)	Pyrene	1.530	1.400	1.293	1.251	1.284	1.200	1.326	9.0
70) S	Terphenyl-d14	0.924	0.908	0.878	0.916	0.960	0.919	0.917	2.8
71)	Butylbenzylphthalat	0.678	0.621	0.581	0.538	0.534	0.498	0.575	11.4
72)	Benzo(a)anthracene	1.412	1.325	1.277	1.278	1.278	1.303	1.312	3.9
73)	3,3'-Dichlorobenzid		0.217	0.202	0.204	0.210	0.254	0.217	9.8
74)	Chrysene	0.995	0.928	0.903	0.881	0.877	0.873	0.910	5.1
75)	Bis(2-ethylhexyl)ph	0.987	0.888	0.816	0.756	0.738	0.713	0.817	12.8
76) I	Perylene-d12	-----ISTD-----							
77) C	Di-n-octylphthalate	1.726	1.590	1.462	1.322	1.289	1.195	1.430	14.0
78)	Benzo(b)fluoranthene	1.392	1.396	1.392	1.460	1.380	1.410	1.405	2.0
79)	Benzo(k)fluoranthene	1.389	1.315	1.300	1.254	1.306	1.410	1.329	4.4
80) C	Benzo(a)pyrene	1.299	1.245	1.234	1.243	1.240	1.225	1.248	2.1
81)	Indeno(1,2,3-cd)pyr	1.390	1.370	1.372	1.459	1.451	1.473	1.419	3.3
82)	Dibenz(a,h)anthracene	0.933	0.929	0.940	1.002	1.009	1.028	0.973	4.5

(#) = Out of Range

LANL.M

Sun Oct 18 11:52:10 1998

HPMS7

Page 2

Response Factor Report HPMS 7

Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
 Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
 Last Update : Sun Oct 18 11:08:28 1998
 Response via : Initial Calibration

Calibration Files

4	=5901.D	20	=5903.D	50	=5900.D
80	=5904.D	100	=5905.D	120	=5906.D

	Compound	4	20	50	80	100	120	Avg	%R
83)	Benzo(g,h,i)perylene	1.243	1.209	1.194	1.247	1.246	1.262	1.233	2.1

(#) = Out of Range
 LANL.M

Sun Oct 18 11:52:10 1998

HPMS7

Page 3

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Data File : C:\HPCHEM\1\DATA\101398\5900.D

Vial: 2

Acq On : 13 Oct 1998 12:57 pm

Operator: MLS

Sample : 50PPM BNA STD S38-11

Inst : HPMS 7

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Oct 17 15:26 1998

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Wed Oct 14 09:28:55 1998

Response via : Initial Calibration

DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.34	152	480731	40.00	ug/L	0.00
19) Naphthalene-d8	8.28	136	1871771	40.00	ug/L	0.00
34) Acenaphthene-d10	11.52	164	1008465	40.00	ug/L	0.00
56) Phenanthrene-d10	14.44	188	1702156	40.00	ug/L	0.00
67) Chrysene-d12	19.85	240	1744759	40.00	ug/L	0.00
76) Perylene-d12	23.03	264	1686089	40.00	ug/L	0.00

System Monitoring Compounds

4) 2-Fluorophenol	4.74	112	928206	50.44	ug/L	0.00
Spiked Amount	100.000	Range	21 - 100	Recovery	=	50.44%
6) Phenol-d5	5.88	99	1012954	49.88	ug/L	0.00
Spiked Amount	100.000	Range	10 - 94	Recovery	=	49.88%
20) Nitrobenzene-d5	7.15	82	934259	50.41	ug/L	0.00
Spiked Amount	50.000	Range	35 - 114	Recovery	=	100.82%
38) 2-Fluorobiphenyl	10.23	172	1648453	48.57	ug/L	0.00
Spiked Amount	50.000	Range	43 - 116	Recovery	=	97.14%
55) 2,4,6-Tribromophenol	13.10	330	261399	46.70	ug/L	0.00
Spiked Amount	100.000	Range	10 - 123	Recovery	=	46.70%
70) Terphenyl-d14	17.71	244	1914196	47.77	ug/L	0.00
Spiked Amount	50.000	Range	33 - 141	Recovery	=	95.54%

Target Compounds

Qvalue

2) Pyridine	3.25	79	1011923	50.37	ug/L	100
3) n-Nitrosodimethylamine	3.21	74	595499	50.46	ug/L	100
5) Aniline	5.94	93	1064731	52.11	ug/L	# 97
7) Phenol	5.90	94	1138690	50.76	ug/L	100
8) bis-(2-Chloroethyl)ether	5.99	93	853955	50.66	ug/L	100
9) 2-Chlorophenol	6.11	128	908957	50.04	ug/L	100
10) 1,3-Dichlorobenzene	6.30	146	952869	49.04	ug/L	100
11) 1,4-Dichlorobenzene	6.36	146	962817	48.76	ug/L	100
12) Benzyl Alcohol	6.54	108	587035	50.96	ug/L	100
13) 1,2-Dichlorobenzene	6.63	146	904949	49.09	ug/L	100
14) 2-Methylphenol	6.71	107	660776	50.01	ug/L	100
15) Bis(2-chloroisopropyl)ethe	6.75	45	959520	51.54	ug/L	100
16) 4-Methylphenol	6.91	107	962894	50.25	ug/L	100
17) n-Nitroso-di-n-propylamine	6.95	70	612457	50.48	ug/L	100
18) Hexachloroethane	7.07	117	368730	49.95	ug/L	100
21) Nitrobenzene	7.18	77	922926	50.90	ug/L	100
22) Isophorone	7.53	82	1526977	49.98	ug/L	100
23) 2-Nitrophenol	7.67	139	505724	48.56	ug/L	100
24) 2,4-Dimethylphenol	7.73	122	730576	48.96	ug/L	100

(#)=qualifier out of range (m)=manual integration

5900.D LANL.M

Sat Oct 17 15:27:07 1998

HPMS7

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Data File : C:\HPCHEM\1\DATA\101398\5900.D

Vial: 2

Acq On : 13 Oct 1998 12:57 pm

Operator: MLS

Sample : 50PPM BNA STD S38-11

Inst : HPMS 7

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Oct 17 15:26 1998

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Wed Oct 14 09:28:55 1998

Response via : Initial Calibration

DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25) bis(2-chloroethoxy)methane	7.87	93	956605	50.37	ug/L	100
26) Benzoic Acid	7.92	122	546741	45.17	ug/L	100
27) 2,4-Dichlorophenol	8.07	162	712328	49.45	ug/L	100
28) 1,2,4-Trichlorobenzene	8.21	180	790213	48.51	ug/L	100
29) Naphthalene	8.31	128	2395419	57.94	ug/L	100
30) 4-Chloroaniline	8.42	127	724268	43.61	ug/L	100
31) Hexachlorobutadiene	8.62	225	451915	47.85	ug/L	100
32) 4-chloro-3methylphenol	9.27	107	719751	50.40	ug/L	100
33) 2-Methylnaphthalene	9.52	142	1557892	48.42	ug/L	100
35) Hexachlorocyclopentadiene	9.94	237	404662	46.60	ug/L	100
36) 2,4,6-Trichlorophenol	10.09	196	532164	49.35	ug/L	100
37) 2,4,5-Trichlorophenol	10.17	196	569093	49.28	ug/L	100
39) 2-Chloronaphthalene	10.42	162	1469831	48.91	ug/L	100
40) 2-Nitroaniline	10.65	65	479854	50.90	ug/L	100
41) Dimethylphthalate	11.07	163	1602041	48.53	ug/L	100
42) Acenaphthylene	11.23	152	2358913	51.22	ug/L	100
43) 2,6-Dinitrotoluene	11.18	165	398925	50.76	ug/L	100
44) 3-Nitroaniline	11.46	138	223345	45.20	ug/L	100
45) Acenaphthene	11.59	154	1383601	48.23	ug/L	100
46) 2,4-Dinitrophenol	11.65	184	227670	41.73	ug/L	100
47) 4-Nitrophenol	11.82	65	306395	51.76	ug/L	100
48) Dibenzofuran	11.89	168	2029455	48.71	ug/L	100
49) 2,4-Dinitrotoluene	11.95	165	532513	51.01	ug/L	100
50) Diethylphthalate	12.45	149	1641210	50.11	ug/L	100
51) Fluorene	12.58	166	1575011	45.41	ug/L	100
52) 4-Chlorophenyl-phenylether	12.57	204	830991	45.72	ug/L	100
53) 4-Nitroaniline	12.66	138	291807	45.60	ug/L	99
54) 1,2-Diphenylhydrazine	12.89	77	1711166	51.92	ug/L	100
57) 4,6-Dinitro-2-methylphenol	12.76	198	330755	47.48	ug/L	100
58) n-Nitrosodiphenylamine	12.82	169	1139344	48.68	ug/L	100
59) 4-Bromophenyl-phenyl ether	13.54	248	496025	48.22	ug/L	100
60) Hexachlorobenzene	13.84	284	557278	47.02	ug/L	100
61) Pentachlorophenol	14.21	266	373998	51.60	ug/L	100
62) Phenanthrene	14.49	178	2422161	48.36	ug/L	100
63) Anthracene	14.58	178	2499180	49.22	ug/L	100
64) Carbazole	14.91	167	1971797	54.16	ug/L	100
65) Di-n-butylphthalate	15.73	149	2677823	51.10	ug/L	100
66) Fluoranthene	16.91	202	2659369	49.18	ug/L	100
68) Benzidine	17.15	184	38802	48.19	ug/L	100
69) Pyrene	17.36	202	2819651	48.60	ug/L	100
71) Butylbenzylphthalate	18.77	149	1267012	50.46	ug/L	100

(#)=qualifier out of range (m)=manual integration

5900.D LANL.M

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HPMS7

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Data File : C:\HPCHEM\1\DATA\101398\5900.D

Vial: 2

Acq On : 13 Oct 1998 12:57 pm

Operator: MLS

Sample : 50PPM BNA STD S38-11

Inst : HPMS 7

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Oct 17 15:26 1998

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Wed Oct 14 09:28:55 1998

Response via : Initial Calibration

DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
72) Benzo(a)anthracene	19.82	228	2784982	48.53	ug/L	100
73) 3,3'-Dichlorobenzidine	19.79	252	441026	52.94	ug/L	100
74) Chrysene	19.90	228	1970225	49.57	ug/L	100
75) Bis(2-ethylhexyl)phthalate	19.99	149	1779882	49.88	ug/L	100
77) Di-n-octylphthalate	21.19	149	3080756	51.04	ug/L	100
78) Benzo(b)fluoranthene	22.06	252	2934173	49.34	ug/L	100
79) Benzo(k)fluoranthene	22.12	252	2739975	48.77	ug/L	100
80) Benzo(a)pyrene	22.87	252	2600938	49.53	ug/L	100
81) Indeno(1,2,3-cd)pyrene	26.61	276	2891440	48.37	ug/L	100
82) Dibenz(a,h)anthracene	26.67	278	1980281	48.33	ug/L	100
83) Benzo(g,h,i)perylene	27.67	276	2515440	48.37	ug/L	100

(#) = qualifier out of range (m) = manual integration

5900.D LANL.M

Sat Oct 17 15:27:24 1998

HPMS7

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Data File : C:\HPCHEM\1\DATA\101398\5900.D
Acq On    : 13 Oct 1998 12:57 pm
Sample    : 50PPM BNA STD S38-11
Misc     :
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Vial: 2
Operator: MLS
Inst : HPMS 7
Multiplr: 1.00

MS Integration Params: rteint.p

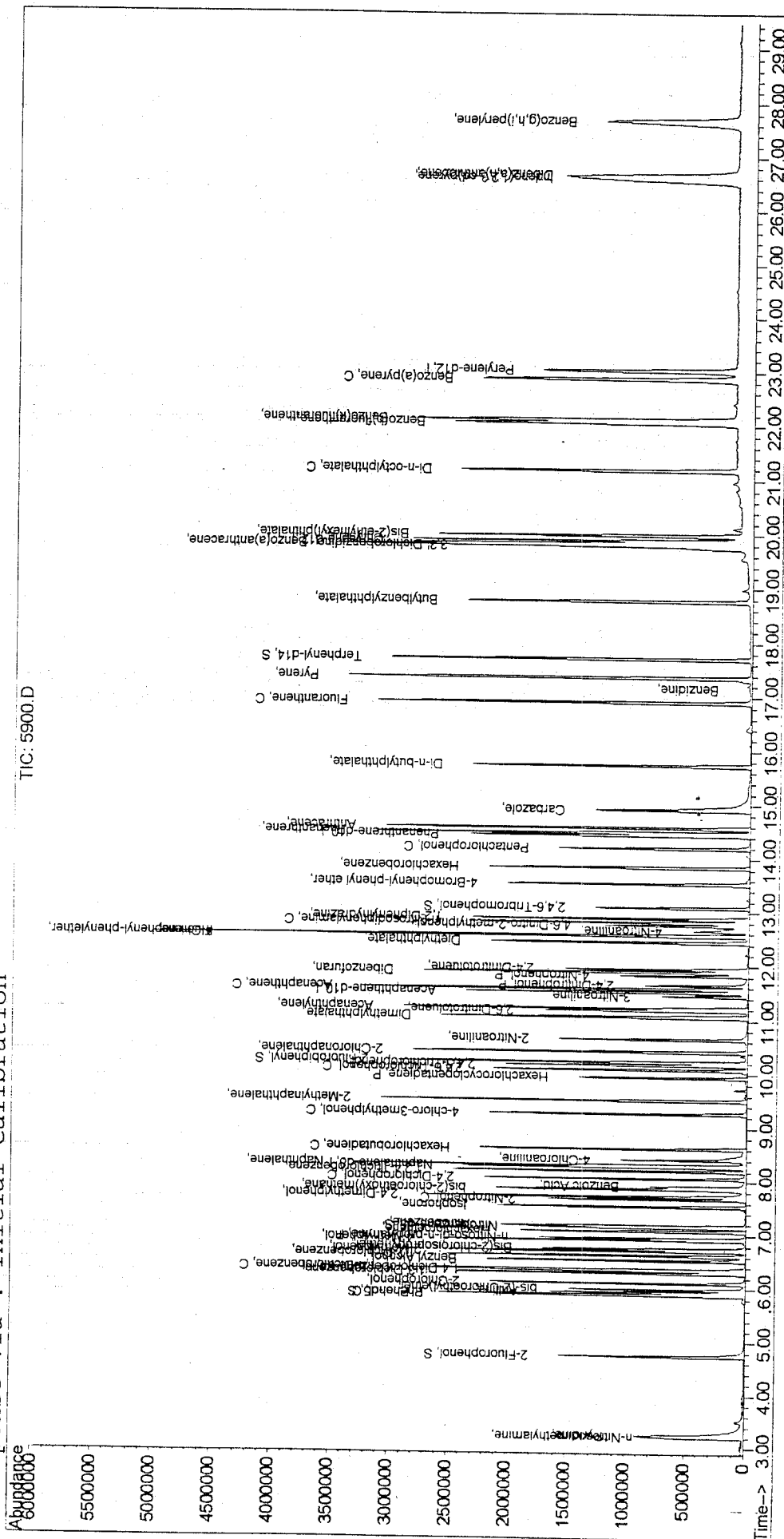
Quant Time: Oct 17 15:26 1998

Quant Results File: LANL.RES

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Method      : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
Title       : M8270/625 LIST INITIAL CALIBRATION 10/13/98
Last Update : Wed Oct 14 09:28:55 1998
Response via : Initial Calibration

```



Data File : C:\HPCHEM\1\DATA\101398\5901.D

Vial: 3

Acq On : 13 Oct 1998 1:36 pm

Operator: MLS

Sample : 4PPM BNA STD S38-11

Inst : HPMS 7

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Oct 17 15:34 1998

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Sat Oct 17 15:33:29 1998

Response via : Initial Calibration

DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.34	152	594062	40.00	ug/L	0.00
19) Naphthalene-d8	8.28	136	2221707	40.00	ug/L	0.00
34) Acenaphthene-d10	11.52	164	1193066	40.00	ug/L	0.00
56) Phenanthrene-d10	14.44	188	2024770	40.00	ug/L	0.00
67) Chrysene-d12	19.84	240	2015064	40.00	ug/L	0.00
76) Perylene-d12	23.02	264	1942580	40.00	ug/L	0.00

System Monitoring Compounds

4) 2-Fluorophenol	4.75	112	93024	4.06	ug/L	0.00
Spiked Amount	100.000	Range	21 - 100	Recovery	=	4.06%#
6) Phenol-d5	5.88	99	117608	4.70	ug/L	0.00
Spiked Amount	100.000	Range	10 - 94	Recovery	=	4.70%#
20) Nitrobenzene-d5	7.14	82	101348	4.57	ug/L	0.00
Spiked Amount	50.000	Range	35 - 114	Recovery	=	9.14%#
38) 2-Fluorobiphenyl	10.22	172	188867	4.84	ug/L	0.00
Spiked Amount	50.000	Range	43 - 116	Recovery	=	9.68%#
55) 2,4,6-Tribromophenol	13.09	330	22630	3.66	ug/L	0.00
Spiked Amount	100.000	Range	10 - 123	Recovery	=	3.66%#
70) Terphenyl-d14	17.70	244	186125	4.21	ug/L	0.00
Spiked Amount	50.000	Range	33 - 141	Recovery	=	8.42%#

Target Compounds

						Qvalue
2) Pyridine	3.26	79	100840	4.03	ug/L	99
3) n-Nitrosodimethylamine	3.22	74	58169	3.95	ug/L	98
5) Aniline	5.94	93	101101	3.84	ug/L	98
7) Phenol	5.90	94	129510	4.60	ug/L	97
8) bis-(2-Chloroethyl) ether	5.99	93	94488	4.48	ug/L	98
9) 2-Chlorophenol	6.11	128	98317	4.38	ug/L	99
10) 1,3-Dichlorobenzene	6.29	146	109435	4.65	ug/L	99
11) 1,4-Dichlorobenzene	6.36	146	109590	4.61	ug/L	95
12) Benzyl Alcohol	6.53	108	60272	4.15	ug/L	99
13) 1,2-Dichlorobenzene	6.63	146	103304	4.62	ug/L	98
14) 2-Methylphenol	6.71	107	75282	4.61	ug/L	98
15) Bis(2-chloroisopropyl) ethe	6.74	45	103993	4.39	ug/L	98
16) 4-Methylphenol	6.91	107	107265	4.51	ug/L	99
17) n-Nitroso-di-n-propylamine	6.94	70	67368	4.45	ug/L	99
18) Hexachloroethane	7.07	117	41685	4.57	ug/L	95
21) Nitrobenzene	7.17	77	101388	4.63	ug/L	98
22) Isophorone	7.53	82	169286	4.67	ug/L	99
23) 2-Nitrophenol	7.67	139	56411	4.70	ug/L	92
24) 2,4-Dimethylphenol	7.72	122	83144	4.79	ug/L	99

(#)=qualifier out of range (m)=manual integration

5901.D LANL.M

Sat Oct 17 15:34:43 1998

HPMS7

Page 1

Data File : C:\HPCHEM\1\DATA\101398\5901.D

Acq On : 13 Oct 1998 1:36 pm

Sample : 4PPM BNA STD S38-11

Misc :

MS Integration Params: rteint.p

Quant Time: Oct 17 15:34 1998

Vial: 3

Operator: MLS

Inst : HPMS 7

Multiplr: 1.00

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Sat Oct 17 15:33:29 1998

Response via : Initial Calibration

DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25) bis(2-chloroethoxy)methane	7.86	93	107332	4.73	ug/L	99
26) Benzoic Acid	7.83	122	27506	2.12	ug/L	94
27) 2,4-Dichlorophenol	8.07	162	74831	4.43	ug/L	99
28) 1,2,4-Trichlorobenzene	8.21	180	86490	4.61	ug/L	99
29) Naphthalene	8.31	128	285922	5.03	ug/L	99
30) 4-Chloroaniline	8.41	127	87147	5.07	ug/L	97
31) Hexachlorobutadiene	8.62	225	48182	4.49	ug/L	99
32) 4-chloro-3methylphenol	9.27	107	75635	4.43	ug/L	99
33) 2-Methylnaphthalene	9.52	142	182015	4.92	ug/L	98
35) Hexachlorocyclopentadiene	9.94	237	22205	2.32	ug/L	97
36) 2,4,6-Trichlorophenol	10.09	196	53565	4.25	ug/L	99
37) 2,4,5-Trichlorophenol	10.18	196	57215	4.25	ug/L	99
39) 2-Chloronaphthalene	10.41	162	163448	4.70	ug/L	100
40) 2-Nitroaniline	10.64	65	47705	4.20	ug/L	97
41) Dimethylphthalate	11.05	163	184284	4.86	ug/L	99
42) Acenaphthylene	11.22	152	269965	4.84	ug/L	99
43) 2,6-Dinitrotoluene	11.18	165	39920	4.23	ug/L	96
44) 3-Nitroaniline	11.44	138	40881	7.74	ug/L	97
45) Acenaphthene	11.58	154	163406	4.99	ug/L	98
46) 2,4-Dinitrophenol	11.66	184	4897	0.91	ug/L #	63
47) 4-Nitrophenol	11.83	65	25508	3.52	ug/L #	83
48) Dibenzofuran	11.89	168	233788	4.87	ug/L	98
49) 2,4-Dinitrotoluene	11.94	165	49764	3.95	ug/L	96
50) Diethylphthalate	12.44	149	184621	4.75	ug/L	99
51) Fluorene	12.57	166	184012	4.94	ug/L	99
52) 4-Chlorophenyl-phenylether	12.57	204	91613	4.66	ug/L	97
53) 4-Nitroaniline	12.64	138	36092	5.23	ug/L #	93
54) 1,2-Diphenylhydrazine	12.88	77	188785	4.66	ug/L	97
57) 4,6-Dinitro-2-methylphenol	12.75	198	16700	2.12	ug/L	94
58) n-Nitrosodiphenylamine	12.81	169	131406	4.85	ug/L	99
59) 4-Bromophenyl-phenyl ether	13.54	248	48468	4.11	ug/L	97
60) Hexachlorobenzene	13.84	284	54835	4.14	ug/L	94
61) Pentachlorophenol	14.20	266	26706	3.00	ug/L	95
62) Phenanthrene	14.48	178	285179	4.95	ug/L	98
63) Anthracene	14.57	178	281205	4.73	ug/L	99
64) Carbazole	14.90	167	242760	5.17	ug/L	98
65) Di-n-butylphthalate	15.73	149	291998	4.58	ug/L	99
66) Fluoranthene	16.90	202	291905	4.61	ug/L	99
68) Benzidine	17.17	184	45201	50.43	ug/L	100
69) Pyrene	17.36	202	308316	4.73	ug/L	98
71) Butylbenzylphthalate	18.76	149	136690	4.67	ug/L	97

(#) = qualifier out of range (m) = manual integration

5901.D LANL.M

Sat Oct 17 15:34:51 1998

HPMS7

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Data File : C:\HPCHEM\1\DATA\101398\5901.D

Vial: 3

Acq On : 13 Oct 1998 1:36 pm

Operator: MLS

Sample : 4PPM BNA STD S38-11

Inst : HPMS 7

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Oct 17 15:34 1998

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Sat Oct 17 15:33:29 1998

Response via : Initial Calibration

DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
72) Benzo(a)anthracene	19.80	228	284447	4.42	ug/L	100
73) 3,3'-Dichlorobenzidine	19.78	252	91163	8.95	ug/L	98
74) Chrysene	19.89	228	200495	4.41	ug/L	99
75) Bis(2-ethylhexyl)phthalate	19.99	149	198864	4.84	ug/L	99
77) Di-n-octylphthalate	21.18	149	335201	4.72	ug/L	98
78) Benzo(b)fluoranthene	22.04	252	270459	4.00	ug/L	98
79) Benzo(k)fluoranthene	22.10	252	269846	4.27	ug/L	99
80) Benzo(a)pyrene	22.86	252	252378	4.21	ug/L	97
81) Indeno(1,2,3-cd)pyrene	26.58	276	270045	4.05	ug/L	96
82) Dibenz(a,h)anthracene	26.63	278	181298	3.97	ug/L #	95
83) Benzo(g,h,i)perylene	27.63	276	241495	4.17	ug/L #	66

(#) = qualifier out of range (m) = manual integration

5901.D LANL.M

Sat Oct 17 15:34:53 1998

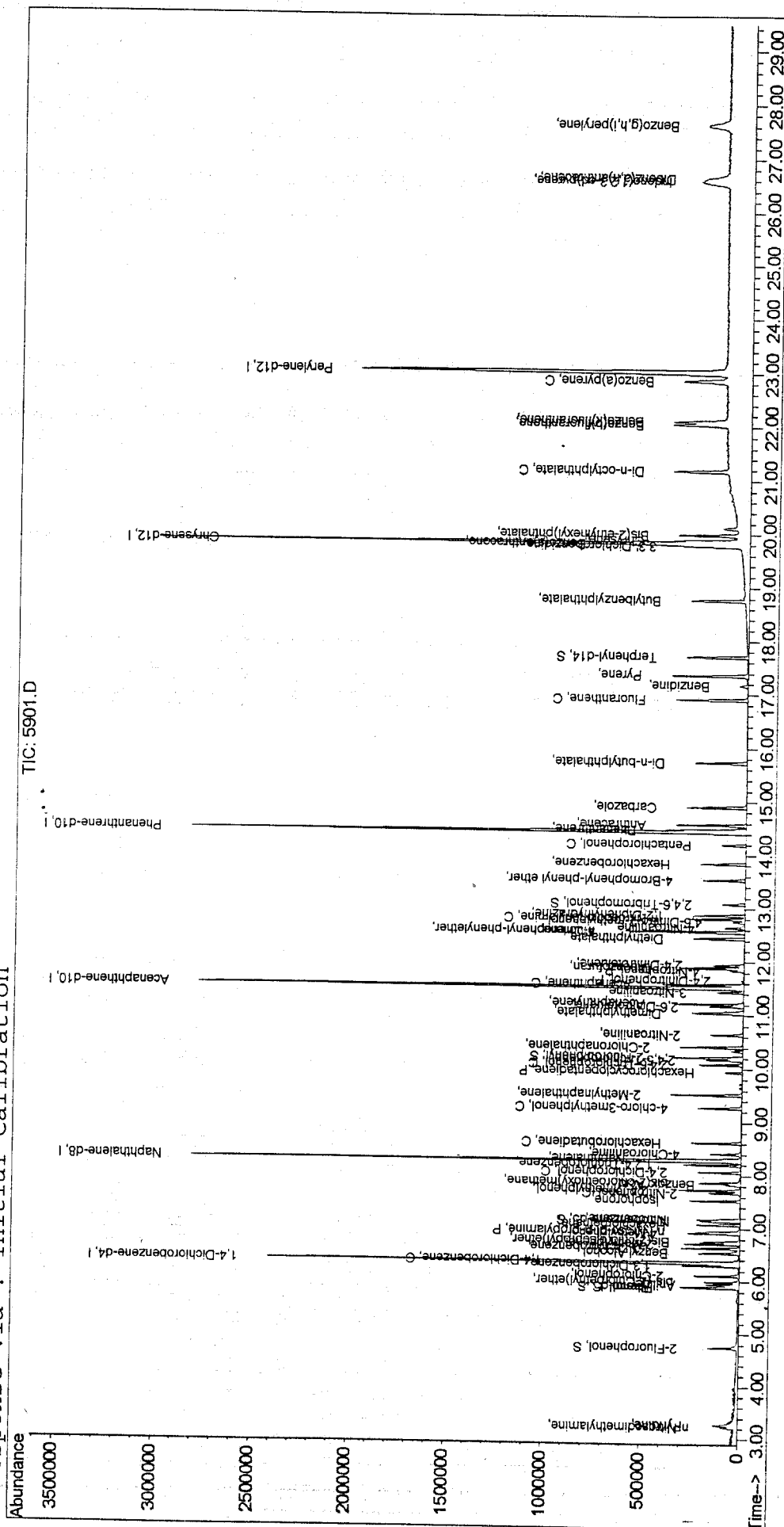
HPMS7

Page 3

Quantitation Report

Data File : C:\HPCHEM\1\DATA\101398\5901.D
 Acq On : 13 Oct 1998 1:36 pm
 Sample : 4PPM BNA STD S38-11
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Oct 17 15:34 1998
 Vial: 3
 Operator: MLS
 Inst : HPMS 7
 Multiplr: 1.00
 Quant Results File: LANL.RES

Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
 Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
 Last Update : Sat Oct 17 15:33:42 1998
 Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\101398\5903.D

Vial: 5

Acq On : 13 Oct 1998 2:53 pm

Operator: MLS

Sample : 20PPM BNA STD S38-11

Inst : HPMS 7

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Oct 17 15:35 1998

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Sat Oct 17 15:33:42 1998

Response via : Initial Calibration

DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.34	152	578980	40.00	ug/L	0.00
19) Naphthalene-d8	8.28	136	2203083	40.00	ug/L	0.00
34) Acenaphthene-d10	11.52	164	1192537	40.00	ug/L	0.00
56) Phenanthrene-d10	14.44	188	2004179	40.00	ug/L	0.00
67) Chrysene-d12	19.84	240	2019965	40.00	ug/L	0.00
76) Perylene-d12	23.02	264	1943372	40.00	ug/L	0.00

System Monitoring Compounds

4) 2-Fluorophenol	4.74	112	472016	21.11	ug/L	0.00
Spiked Amount	100.000	Range	21 - 100	Recovery	=	21.11%
6) Phenol-d5	5.88	99	542626	22.24	ug/L	0.00
Spiked Amount	100.000	Range	10 - 94	Recovery	=	22.24%
20) Nitrobenzene-d5	7.15	82	482689	21.95	ug/L	0.00
Spiked Amount	50.000	Range	35 - 114	Recovery	=	43.90%
38) 2-Fluorobiphenyl	10.22	172	850129	21.81	ug/L	0.00
Spiked Amount	50.000	Range	43 - 116	Recovery	=	43.62%
55) 2,4,6-Tribromophenol	13.09	330	121751	19.69	ug/L	0.00
Spiked Amount	100.000	Range	10 - 123	Recovery	=	19.69%
70) Terphenyl-d14	17.71	244	917086	20.69	ug/L	0.00
Spiked Amount	50.000	Range	33 - 141	Recovery	=	41.38%

Target Compounds

						Qvalue
2) Pyridine	3.25	79	502217	20.60	ug/L	99
3) n-Nitrosodimethylamine	3.22	74	293901	20.49	ug/L	100
5) Aniline	5.94	93	522558	20.38	ug/L	# 97
7) Phenol	5.90	94	610414	22.25	ug/L	99
8) bis-(2-Chloroethyl)ether	5.99	93	447492	21.75	ug/L	98
9) 2-Chlorophenol	6.10	128	471112	21.52	ug/L	99
10) 1,3-Dichlorobenzene	6.30	146	500800	21.82	ug/L	100
11) 1,4-Dichlorobenzene	6.37	146	505010	21.78	ug/L	100
12) Benzyl Alcohol	6.53	108	299408	21.17	ug/L	100
13) 1,2-Dichlorobenzene	6.63	146	474411	21.76	ug/L	99
14) 2-Methylphenol	6.71	107	353793	22.23	ug/L	97
15) Bis(2-chloroisopropyl)ethe	6.75	45	489522	21.18	ug/L	98
16) 4-Methylphenol	6.91	107	511239	22.04	ug/L	99
17) n-Nitroso-di-n-propylamine	6.94	70	308761	20.93	ug/L	100
18) Hexachloroethane	7.08	117	193693	21.81	ug/L	98
21) Nitrobenzene	7.17	77	485287	22.34	ug/L	99
22) Isophorone	7.53	82	792922	22.06	ug/L	99
23) 2-Nitrophenol	7.67	139	278230	23.37	ug/L	95
24) 2,4-Dimethylphenol	7.72	122	382782	22.26	ug/L	99

(#)=qualifier out of range (m)=manual integration

5903.D LANL.M

Sat Oct 17 15:36:02 1998

HPMS7

Page 1

Data File : C:\HPCHEM\1\DATA\101398\5903.D

Acq On : 13 Oct 1998 2:53 pm

Sample : 20PPM BNA STD S38-11

Misc :

MS Integration Params: rteint.p

Quant Time: Oct 17 15:35 1998

Vial: 5

Operator: MLS

Inst : HPMS 7

Multiplr: 1.00

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Sat Oct 17 15:33:42 1998

Response via : Initial Calibration

DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25) bis(2-chloroethoxy)methane	7.86	93	500788	22.24	ug/L	99
26) Benzoic Acid	7.87	122	236484	18.37	ug/L	99
27) 2,4-Dichlorophenol	8.06	162	361367	21.55	ug/L	99
28) 1,2,4-Trichlorobenzene	8.21	180	404878	21.77	ug/L	99
29) Naphthalene	8.31	128	1274393	22.60	ug/L	100
30) 4-Chloroaniline	8.41	127	368219	21.60	ug/L	100
31) Hexachlorobutadiene	8.62	225	225416	21.19	ug/L	99
32) 4-chloro-3methylphenol	9.27	107	371963	21.95	ug/L	99
33) 2-Methylnaphthalene	9.52	142	823240	22.45	ug/L	100
35) Hexachlorocyclopentadiene	9.94	237	182274	19.05	ug/L	99
36) 2,4,6-Trichlorophenol	10.08	196	262795	20.88	ug/L	99
37) 2,4,5-Trichlorophenol	10.17	196	285600	21.22	ug/L	99
39) 2-Chloronaphthalene	10.41	162	763401	21.96	ug/L	100
40) 2-Nitroaniline	10.64	65	238161	20.99	ug/L	100
41) Dimethylphthalate	11.06	163	837423	22.10	ug/L	100
42) Acenaphthylene	11.22	152	1234385	22.13	ug/L	100
43) 2,6-Dinitrotoluene	11.18	165	200056	21.20	ug/L	99
44) 3-Nitroaniline	11.45	138	139816	26.47	ug/L	99
45) Acenaphthene	11.58	154	722000	22.06	ug/L	100
46) 2,4-Dinitrophenol	11.65	184	86310	16.03	ug/L	95
47) 4-Nitrophenol	11.82	65	141504	19.53	ug/L	96
48) Dibenzofuran	11.89	168	1066892	22.23	ug/L	99
49) 2,4-Dinitrotoluene	11.94	165	260632	20.69	ug/L	98
50) Diethylphthalate	12.44	149	839782	21.64	ug/L	99
51) Fluorene	12.57	166	818866	21.98	ug/L	99
52) 4-Chlorophenyl-phenylether	12.57	204	412463	20.99	ug/L	98
53) 4-Nitroaniline	12.65	138	166581	24.14	ug/L	97
54) 1,2-Diphenylhydrazine	12.88	77	884469	21.85	ug/L	99
57) 4,6-Dinitro-2-methylphenol	12.75	198	148054	19.01	ug/L	99
58) n-Nitrosodiphenylamine	12.81	169	599525	22.35	ug/L	100
59) 4-Bromophenyl-phenyl ether	13.53	248	242915	20.80	ug/L	98
60) Hexachlorobenzene	13.84	284	267967	20.42	ug/L	98
61) Pentachlorophenol	14.20	266	163721	18.59	ug/L	99
62) Phenanthrene	14.49	178	1280589	22.45	ug/L	99
63) Anthracene	14.57	178	1299485	22.08	ug/L	99
64) Carbazole	14.91	167	1072157	23.09	ug/L	100
65) Di-n-butylphthalate	15.73	149	1376775	21.83	ug/L	100
66) Fluoranthene	16.91	202	1347450	21.52	ug/L	100
68) Benzidine	17.17	184	34436	38.33	ug/L	100
69) Pyrene	17.36	202	1414193	21.66	ug/L	99
71) Butylbenzylphthalate	18.77	149	626790	21.37	ug/L	99

(#)=qualifier out of range (m)=manual integration

5903.D LANL.M

Sat Oct 17 15:36:10 1998

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Data File : C:\HPCHEM\1\DATA\101398\5903.D

Vial: 5

Acq On : 13 Oct 1998 2:53 pm

Operator: MLS

Sample : 20PPM BNA STD S38-11

Inst : HPMS 7

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Oct 17 15:35 1998

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Sat Oct 17 15:33:42 1998

Response via : Initial Calibration

DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
72) Benzo(a)anthracene	19.81	228	1338132	20.75 ug/L	99
73) 3,3'-Dichlorobenzidine	19.78	252	219180	21.46 ug/L	98
74) Chrysene	19.89	228	937636	20.55 ug/L	99
75) Bis(2-ethylhexyl)phthalate	19.99	149	897253	21.77 ug/L	99
77) Di-n-octylphthalate	21.18	149	1544741	21.75 ug/L	100
78) Benzo(b)fluoranthene	22.05	252	1356225	20.05 ug/L	98
79) Benzo(k)fluoranthene	22.10	252	1278040	20.23 ug/L	99
80) Benzo(a)pyrene	22.86	252	1209801	20.18 ug/L	99
81) Indeno(1,2,3-cd)pyrene	26.57	276	1331039	19.97 ug/L	98
82) Dibenz(a,h)anthracene	26.63	278	902288	19.77 ug/L	98
83) Benzo(g,h,i)perylene	27.64	276	1175204	20.27 ug/L	99

(#) = qualifier out of range (m) = manual integration

5903.D LANL.M

Sat Oct 17 15:36:13 1998

HPMS7

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Quantitation Report

Data File : C:\HPCHEM\1\DATA\101398\5903.D
Acq On : 13 Oct 1998 2:53 pm
Sample : 20PPM BNA STD S38-11
Misc :
MS Integration Params: rteint.p
Quant Time: Oct 17 15:35 1998

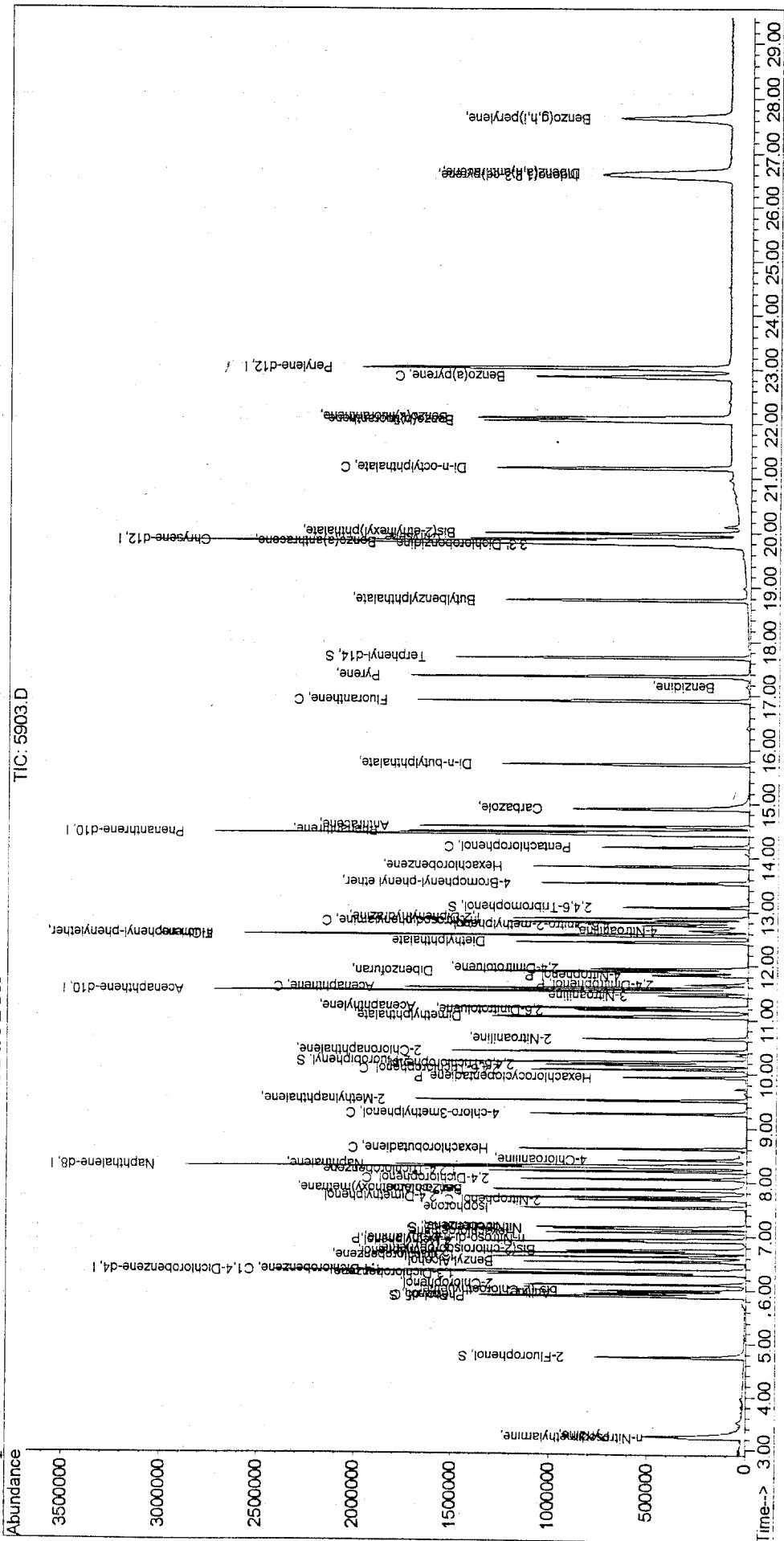
Vial:	5
Operator:	MLS
Inst :	HPMS 7
Multiplr:	1.00

Quant Results File: LANL.RES

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Method      : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
Title       : M8270/625 LIST INITIAL CALIBRATION 10/13/98
Last Update : Sat Oct 17 15:33:42 1998
Response via : Initial Calibration

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Data File : C:\HPCHEM\1\DATA\101398\5904.D

Vial: 6

Acq On : 13 Oct 1998 3:31 pm

Operator: MLS

Sample : 80PPM BNA STD S38-11

Inst : HPMS 7

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Oct 17 15:37 1998

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Sat Oct 17 15:33:42 1998

Response via : Initial Calibration

DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.34	152	562607	40.00	ug/L	0.00
19) Naphthalene-d8	8.28	136	2200302	40.00	ug/L	0.00
34) Acenaphthene-d10	11.52	164	1183972	40.00	ug/L	0.00
56) Phenanthrene-d10	14.45	188	2003858	40.00	ug/L	0.00
67) Chrysene-d12	19.85	240	2023232	40.00	ug/L	0.00
76) Perylene-d12	23.03	264	1958200	40.00	ug/L	0.00

System Monitoring Compounds

4) 2-Fluorophenol	4.75	112	1732600	79.75	ug/L	0.00
Spiked Amount	100.000	Range	21 - 100	Recovery	=	79.75%
6) Phenol-d5	5.89	99	1775788	74.90	ug/L	0.00
Spiked Amount	100.000	Range	10 - 94	Recovery	=	74.90%
20) Nitrobenzene-d5	7.15	82	1658218	75.49	ug/L	0.00
Spiked Amount	50.000	Range	35 - 114	Recovery	=	150.98%#
38) 2-Fluorobiphenyl	10.23	172	2986072	77.15	ug/L	0.00
Spiked Amount	50.000	Range	43 - 116	Recovery	=	154.30%#
55) 2,4,6-Tribromophenol	13.10	330	549653	89.55	ug/L	0.00
Spiked Amount	100.000	Range	10 - 123	Recovery	=	89.55%
70) Terphenyl-d14	17.72	244	3708445	83.53	ug/L	0.01
Spiked Amount	50.000	Range	33 - 141	Recovery	=	167.06%#

Target Compounds

						Qvalue
2) Pyridine	3.25	79	1927764	81.39	ug/L	100
3) n-Nitrosodimethylamine	3.23	74	1128346	80.95	ug/L	99
5) Aniline	5.94	93	1899647	76.23	ug/L	# 97
7) Phenol	5.90	94	1954900	73.35	ug/L	97
8) bis-(2-Chloroethyl) ether	6.00	93	1541940	77.14	ug/L	100
9) 2-Chlorophenol	6.11	128	1653210	77.71	ug/L	99
10) 1,3-Dichlorobenzene	6.30	146	1732847	77.70	ug/L	100
11) 1,4-Dichlorobenzene	6.37	146	1750443	77.67	ug/L	99
12) Benzyl Alcohol	6.54	108	1056283	76.87	ug/L	100
13) 1,2-Dichlorobenzene	6.63	146	1643612	77.60	ug/L	99
14) 2-Methylphenol	6.71	107	1169583	75.62	ug/L	99
15) Bis(2-chloroisopropyl) ethe	6.75	45	1674032	74.54	ug/L	98
16) 4-Methylphenol	6.92	107	1702777	75.55	ug/L	98
17) n-Nitroso-di-n-propylamine	6.96	70	1095493	76.42	ug/L	99
18) Hexachloroethane	7.08	117	661431	76.64	ug/L	95
21) Nitrobenzene	7.19	77	1585782	73.08	ug/L	98
22) Isophorone	7.54	82	2706884	75.40	ug/L	99
23) 2-Nitrophenol	7.68	139	916749	77.10	ug/L	99
24) 2,4-Dimethylphenol	7.73	122	1313214	76.46	ug/L	99

(#)=qualifier out of range (m)=manual integration

5904.D LANL.M

Sat Oct 17 15:37:23 1998

HPMS7

-Page 1

Data File : C:\HPCHEM\1\DATA\101398\5904.D

Vial: 6

Acq On : 13 Oct 1998 3:31 pm

Operator: MLS

Sample : 80PPM BNA STD S38-11

Inst : HPMS 7

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Oct 17 15:37 1998

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Sat Oct 17 15:33:42 1998

Response via : Initial Calibration

DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25) bis(2-chloroethoxy)methane	7.87	93	1651285	73.42	ug/L	100
26) Benzoic Acid	7.96	122	1116821	86.88	ug/L	99
27) 2,4-Dichlorophenol	8.07	162	1301437	77.71	ug/L	99
28) 1,2,4-Trichlorobenzene	8.21	180	1458074	78.48	ug/L	99
29) Naphthalene	8.32	128	4086022	72.55	ug/L	99
30) 4-Chloroaniline	8.42	127	1581241	92.86	ug/L	99
31) Hexachlorobutadiene	8.62	225	868208	81.72	ug/L	100
32) 4-chloro-3methylphenol	9.27	107	1287458	76.08	ug/L	99
33) 2-Methylnaphthalene	9.53	142	2783957	76.01	ug/L	99
35) Hexachlorocyclopentadiene	9.94	237	822839	86.60	ug/L	99
36) 2,4,6-Trichlorophenol	10.09	196	990615	79.28	ug/L	100
37) 2,4,5-Trichlorophenol	10.17	196	1069112	80.01	ug/L	99
39) 2-Chloronaphthalene	10.42	162	2645683	76.66	ug/L	100
40) 2-Nitroaniline	10.66	65	866597	76.91	ug/L	97
41) Dimethylphthalate	11.08	163	2875247	76.43	ug/L	99
42) Acenaphthylene	11.23	152	4056155	73.23	ug/L	99
43) 2,6-Dinitrotoluene	11.19	165	727891	77.71	ug/L	98
44) 3-Nitroaniline	11.47	138	517529	98.68	ug/L	100
45) Acenaphthene	11.59	154	2470796	76.05	ug/L	99
46) 2,4-Dinitrophenol	11.66	184	502222	93.95	ug/L	96
47) 4-Nitrophenol	11.83	65	565655	78.62	ug/L	96
48) Dibenzofuran	11.90	168	3633380	76.25	ug/L	100
49) 2,4-Dinitrotoluene	11.96	165	978401	78.25	ug/L	98
50) Diethylphthalate	12.46	149	2875789	74.62	ug/L	99
51) Fluorene	12.58	166	3216004	86.96	ug/L	100
52) 4-Chlorophenyl-phenylether	12.58	204	1741385	89.25	ug/L	98
53) 4-Nitroaniline	12.67	138	503095	73.42	ug/L	98
54) 1,2-Diphenylhydrazine	12.89	77	2890252	71.93	ug/L	98
57) 4,6-Dinitro-2-methylphenol	12.77	198	667104	85.66	ug/L	95
58) n-Nitrosodiphenylamine	12.83	169	2020775	75.33	ug/L	99
59) 4-Bromophenyl-phenyl ether	13.54	248	967259	82.82	ug/L	97
60) Hexachlorobenzene	13.85	284	1130773	86.18	ug/L	95
61) Pentachlorophenol	14.21	266	738871	83.91	ug/L	99
62) Phenanthrene	14.49	178	4357724	76.41	ug/L	99
63) Anthracene	14.59	178	4424630	75.19	ug/L	99
64) Carbazole	14.92	167	3141010	67.66	ug/L	99
65) Di-n-butylphthalate	15.74	149	4600423	72.97	ug/L	100
66) Fluoranthene	16.92	202	4794106	76.57	ug/L	99
68) Benزيدine	17.17	184	222664	247.43	ug/L	100
69) Pyrene	17.37	202	5061296	77.40	ug/L	99
71) Butylbenzylphthalate	18.77	149	2176441	74.07	ug/L	97

(#)=qualifier out of range (m)=manual integration

5904.D LANL.M

Sat Oct 17 15:37:31 1998

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Data File : C:\HPCHEM\1\DATA\101398\5904.D

Acq On : 13 Oct 1998 3:31 pm

Sample : 80PPM BNA STD S38-11

Misc :

MS Integration Params: rteint.p

Quant Time: Oct 17 15:37 1998

Vial: 6

Operator: MLS

Inst : HPMS 7

Multiplr: 1.00

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Sat Oct 17 15:33:42 1998

Response via : Initial Calibration

DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
72) Benzo(a)anthracene	19.82	228	5169721	80.04	ug/L	99
73) 3,3'-Dichlorobenzidine	19.80	252	824170	80.58	ug/L	99
74) Chrysene	19.91	228	3565994	78.04	ug/L	99
75) Bis(2-ethylhexyl)phthalate	20.00	149	3059473	74.12	ug/L	99
77) Di-n-octylphthalate	21.19	149	5177357	72.35	ug/L	100
78) Benzo(b)fluoranthene	22.08	252	5717439	83.89	ug/L	97
79) Benzo(k)fluoranthene	22.14	252	4909794	77.15	ug/L	98
80) Benzo(a)pyrene	22.89	252	4868425	80.58	ug/L	99
81) Indeno(1,2,3-cd)pyrene	26.64	276	5712781	85.06	ug/L	97
82) Dibenz(a,h)anthracene	26.71	278	3924768	85.33	ug/L	97
83) Benzo(g,h,i)perylene	27.72	276	4884538	83.60	ug/L	98

(#) = qualifier out of range (m) = manual integration

5904.D LANL.M

Sat Oct 17 15:37:33 1998

HPMS7

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Quantitation Report

Data File : C:\HPCHEM\1\DATA\101398\5904.D
Acq On : 13 Oct 1998 3:31 pm
Sample : 80PPM BNA STD S38-11
Misc :
MS Integration Params: rteint.p
Quant Time: Oct 17 15:37 1998

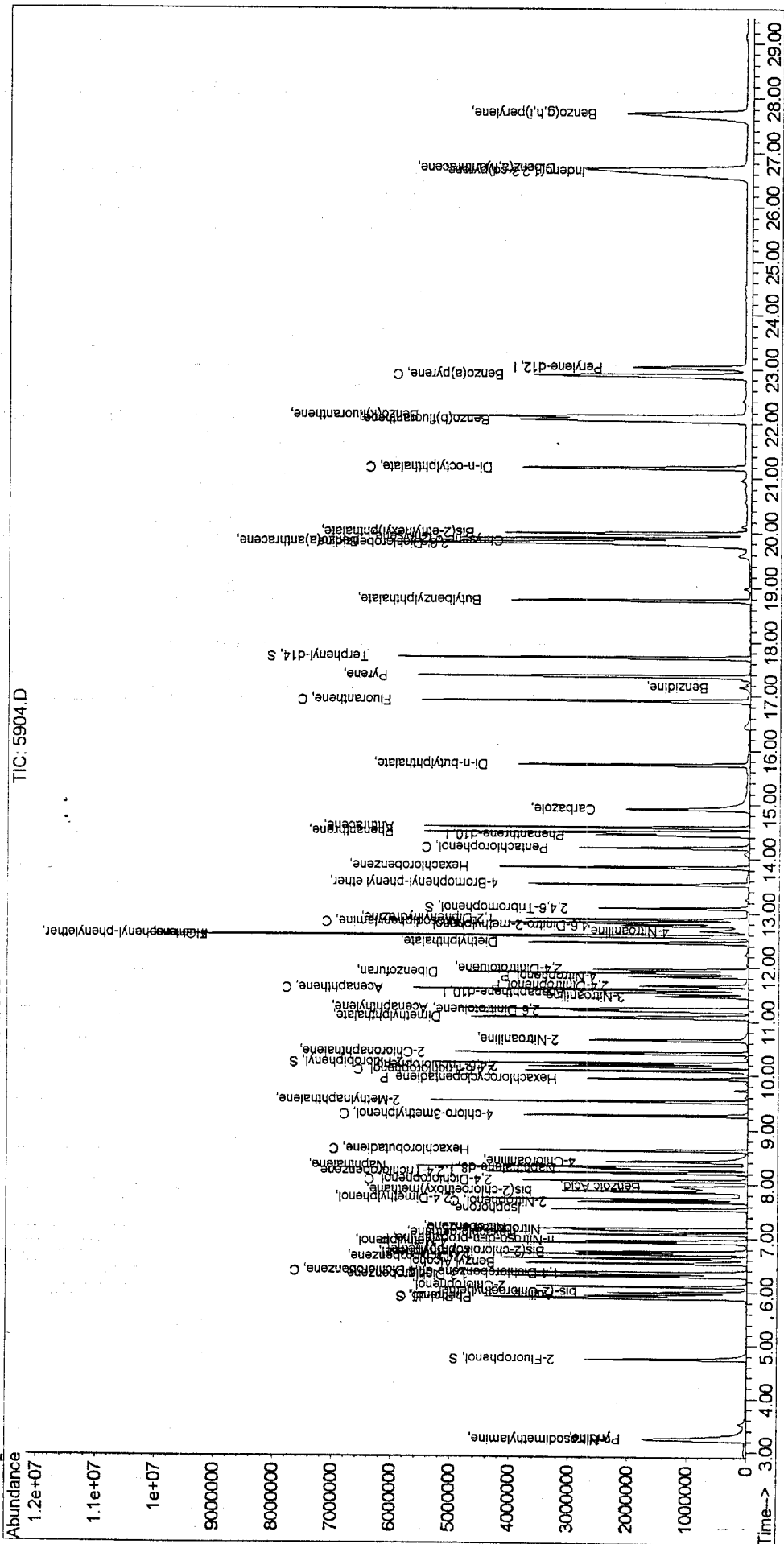
Vial: 6
Operator: MLS
Inst : HPMS 7
Multiplr: 1.00

Quant Results File: LANL.RES

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Method      : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
Title       : M8270/625 LIST INITIAL CALIBRATION 10/13/98
Last Update : Sat Oct 17 15:33:42 1998
Response via : Initial Calibration

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Data File : C:\HPCHEM\1\DATA\101398\5905.D

Vial: 7

Acq On : 13 Oct 1998 4:10 pm

Operator: MLS

Sample : 100PPM BNA STD S38-11

Inst : HPMS 7

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Oct 17 15:38 1998

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Sat Oct 17 15:33:42 1998

Response via : Initial Calibration

DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-Dichlorobenzene-d4	6.35	152	536594	40.00	ug/L	0.00
19) Naphthalene-d8	8.29	136	2113962	40.00	ug/L	0.00
34) Acenaphthene-d10	11.53	164	1142733	40.00	ug/L	0.00
56) Phenanthrene-d10	14.45	188	1929712	40.00	ug/L	0.00
67) Chrysene-d12	19.85	240	1839368	40.00	ug/L	0.00
76) Perylene-d12	23.03	264	1750700	40.00	ug/L	0.00

System Monitoring Compounds

4) 2-Fluorophenol	4.75	112	2035462	98.23	ug/L	0.00
Spiked Amount	100.000	Range	21 - 100	Recovery	=	98.23%
6) Phenol-d5	5.89	99	2053940	90.83	ug/L	0.00
Spiked Amount	100.000	Range	10 - 94	Recovery	=	90.83%
20) Nitrobenzene-d5	7.16	82	1914671	90.73	ug/L	0.01
Spiked Amount	50.000	Range	35 - 114	Recovery	=	181.46%#
38) 2-Fluorobiphenyl	10.23	172	3529098	94.47	ug/L	0.00
Spiked Amount	50.000	Range	43 - 116	Recovery	=	188.94%#
55) 2,4,6-Tribromophenol	13.10	330	676682	114.23	ug/L	0.00
Spiked Amount	100.000	Range	10 - 123	Recovery	=	114.23%
70) Terphenyl-d14	17.72	244	4412962	109.34	ug/L	0.01
Spiked Amount	50.000	Range	33 - 141	Recovery	=	218.68%#

Target Compounds

						Qvalue
2) Pyridine	3.25	79	2260682	100.07	ug/L	99
3) n-Nitrosodimethylamine	3.22	74	1330136	100.06	ug/L	99
5) Aniline	5.94	93	2257863	94.99	ug/L #	95
7) Phenol	5.91	94	2240765	88.15	ug/L	95
8) bis-(2-Chloroethyl) ether	6.00	93	1741114	91.33	ug/L	98
9) 2-Chlorophenol	6.11	128	1915047	94.38	ug/L	99
10) 1,3-Dichlorobenzene	6.30	146	2024594	95.18	ug/L	100
11) 1,4-Dichlorobenzene	6.37	146	2055889	95.65	ug/L	99
12) Benzyl Alcohol	6.55	108	1223094	93.33	ug/L	99
13) 1,2-Dichlorobenzene	6.63	146	1911491	94.62	ug/L	100
14) 2-Methylphenol	6.72	107	1350685	91.56	ug/L	99
15) Bis(2-chloroisopropyl) ethe	6.75	45	1927090	89.97	ug/L	98
16) 4-Methylphenol	6.92	107	1943945	90.43	ug/L	99
17) n-Nitroso-di-n-propylamine	6.96	70	1276458	93.36	ug/L	100
18) Hexachloroethane	7.08	117	766820	93.16	ug/L	93
21) Nitrobenzene	7.19	77	1814152	87.02	ug/L	98
22) Isophorone	7.55	82	3118114	90.40	ug/L	98
23) 2-Nitrophenol	7.68	139	1073710	93.99	ug/L	99
24) 2,4-Dimethylphenol	7.73	122	1530252	92.73	ug/L	100

(#)=qualifier out of range (m)=manual integration

5905.D LANL.M

Sat Oct 17 15:38:44 1998

HPMS7

Page 1

Data File : C:\HPCHEM\1\DATA\101398\5905.D

Vial: 7

Acq On : 13 Oct 1998 4:10 pm

Operator: MLS

Sample : 100PPM BNA STD S38-11

Inst : HPMS 7

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Oct 17 15:38 1998

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Sat Oct 17 15:33:42 1998

Response via : Initial Calibration

DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25) bis(2-chloroethoxy)methane	7.88	93	1897936	87.84	ug/L	99
26) Benzoic Acid	7.98	122	1344280	108.85	ug/L	99
27) 2,4-Dichlorophenol	8.07	162	1524144	94.73	ug/L	99
28) 1,2,4-Trichlorobenzene	8.21	180	1718143	96.26	ug/L	99
29) Naphthalene	8.32	128	4739275	87.59	ug/L	98
30) 4-Chloroaniline	8.42	127	1973690	120.64	ug/L	99
31) Hexachlorobutadiene	8.62	225	1037827	101.67	ug/L	100
32) 4-chloro-3methylphenol	9.27	107	1483803	91.27	ug/L	99
33) 2-Methylnaphthalene	9.53	142	3294729	93.63	ug/L	99
35) Hexachlorocyclopentadiene	9.94	237	998183	108.84	ug/L	99
36) 2,4,6-Trichlorophenol	10.09	196	1173044	97.26	ug/L	100
37) 2,4,5-Trichlorophenol	10.18	196	1252814	97.14	ug/L	100
39) 2-Chloronaphthalene	10.43	162	3114754	93.51	ug/L	99
40) 2-Nitroaniline	10.66	65	1022034	93.98	ug/L	98
41) Dimethylphthalate	11.08	163	3396368	93.55	ug/L	99
42) Acenaphthylene	11.24	152	4620467	86.43	ug/L	98
43) 2,6-Dinitrotoluene	11.20	165	842549	93.19	ug/L	96
44) 3-Nitroaniline	11.47	138	674689	133.29	ug/L	97
45) Acenaphthene	11.59	154	2938639	93.72	ug/L	99
46) 2,4-Dinitrophenol	11.66	184	602904	116.85	ug/L	95
47) 4-Nitrophenol	11.83	65	662326	95.38	ug/L	95
48) Dibenzofuran	11.90	168	4269173	92.82	ug/L	100
49) 2,4-Dinitrotoluene	11.96	165	1136778	94.20	ug/L	97
50) Diethylphthalate	12.46	149	3306486	88.90	ug/L	99
51) Fluorene	12.59	166	3879910	108.70	ug/L	100
52) 4-Chlorophenyl-phenylether	12.58	204	2100950	111.56	ug/L	98
53) 4-Nitroaniline	12.68	138	609719	92.20	ug/L	97
54) 1,2-Diphenylhydrazine	12.90	77	3304399	85.21	ug/L	96
57) 4,6-Dinitro-2-methylphenol	12.78	198	792617	105.69	ug/L	95
58) n-Nitrosodiphenylamine	12.83	169	2375467	91.95	ug/L	100
59) 4-Bromophenyl-phenyl ether	13.54	248	1164766	103.56	ug/L	96
60) Hexachlorobenzene	13.85	284	1377489	109.02	ug/L	93
61) Pentachlorophenol	14.21	266	867300	102.28	ug/L	99
62) Phenanthrene	14.50	178	5076540	92.44	ug/L	99
63) Anthracene	14.59	178	5186690	91.53	ug/L	98
64) Carbazole	14.92	167	3513109	78.58	ug/L	99
65) Di-n-butylphthalate	15.74	149	5283002	87.01	ug/L	100
66) Fluoranthene	16.92	202	5630252	93.37	ug/L	98
68) Benzidine	17.17	184	356837	436.17	ug/L	100
69) Pyrene	17.37	202	5905052	99.33	ug/L	98
71) Butylbenzylphthalate	18.77	149	2457278	91.98	ug/L	97

(#)=qualifier out of range (m)=manual integration

5905.D LANL.M

Sat Oct 17 15:38:52 1998

HPMS7

Page 2

Data File : C:\HPCHEM\1\DATA\101398\5905.D

Vial: 7

Acq On : 13 Oct 1998 4:10 pm

Operator: MLS

Sample : 100PPM BNA STD S38-11

Inst : HPMS 7

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Oct 17 15:38 1998

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Sat Oct 17 15:33:42 1998

Response via : Initial Calibration

DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
72) Benzo(a)anthracene	19.83	228	5878600	100.11	ug/L	98
73) 3,3'-Dichlorobenzidine	19.79	252	964329	103.70	ug/L	98
74) Chrysene	19.91	228	4032751	97.08	ug/L	98
75) Bis(2-ethylhexyl)phthalate	20.00	149	3395538	90.48	ug/L	99
77) Di-n-octylphthalate	21.19	149	5639928	88.16	ug/L	100
78) Benzo(b)fluoranthene	22.09	252	6040489	99.13	ug/L	98
79) Benzo(k)fluoranthene	22.14	252	5716070	100.46	ug/L	98
80) Benzo(a)pyrene	22.89	252	5425446	100.45	ug/L	98
81) Indeno(1,2,3-cd)pyrene	26.65	276	6352626	105.80	ug/L	97
82) Dibenz(a,h)anthracene	26.71	278	4414933	107.36	ug/L	97
83) Benzo(g,h,i)perylene	27.73	276	5453573	104.40	ug/L	97

(#) = qualifier out of range (m) = manual integration

5905.D LANL.M

Sat Oct 17 15:38:54 1998

HPMS7

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Quantitation Report

Data File : C:\HPCHEM\1\DATA\101398\5905.D
Acq On : 13 Oct 1998 4:10 pm
Sample : 100PPM BNA STD S38-11
Misc :
MS Integration Params: rteint.p
Quant Time: Oct 17 15:38 1998

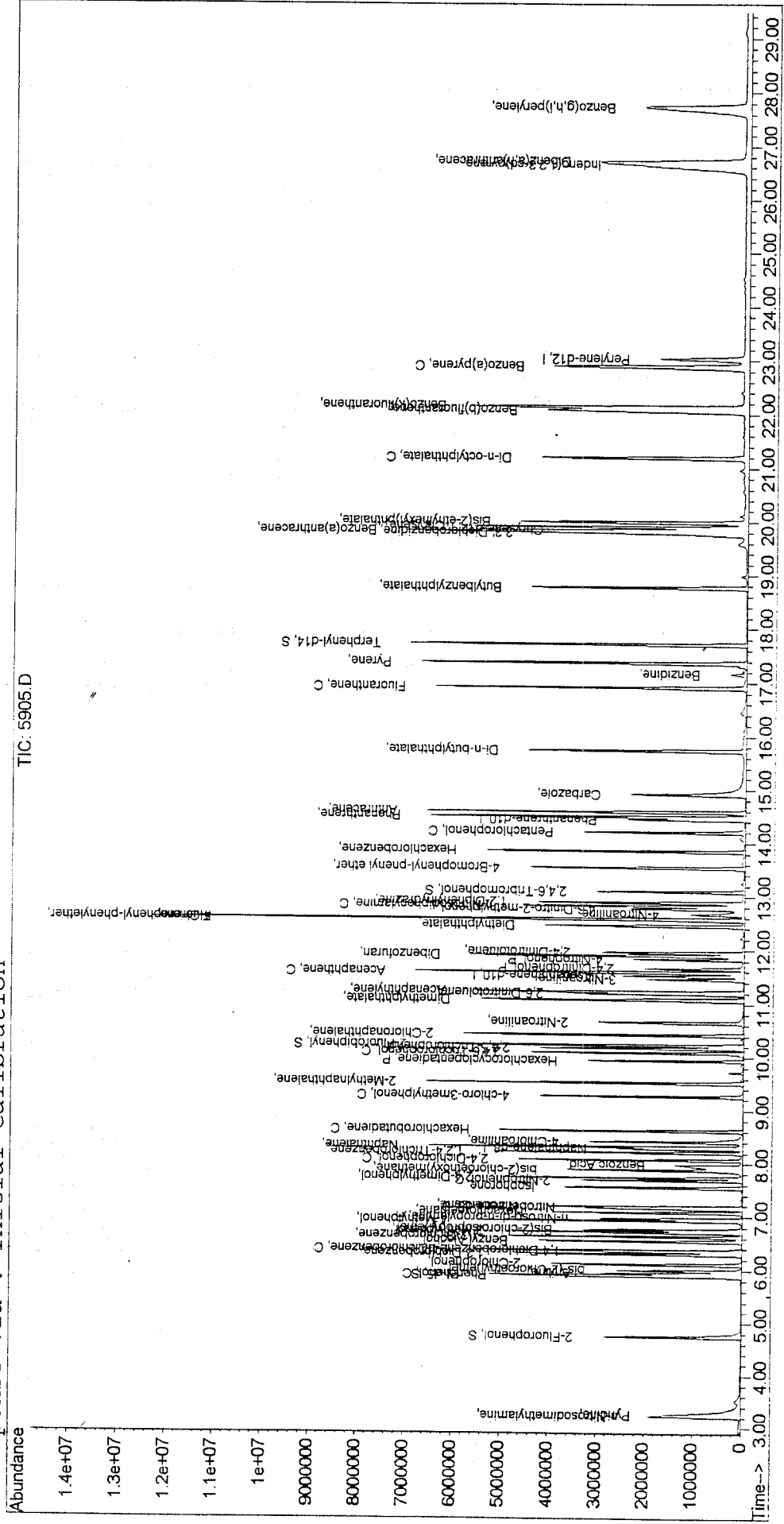
Vial: 7
Operator: MLS
Inst : HPMS 7
Multiplr: 1.00

Quant Results File: LANL.RES

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Method      : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
Title       : M8270/625 LIST INITIAL CALIBRATION 10/13/98
Last Update : Sat Oct 17 15:33:42 1998
Response via : Initial Calibration

```



Data File : C:\HPCHEM\1\DATA\101398\5906.D

Vial: 8

Acq On : 13 Oct 1998 4:48 pm

Operator: MLS

Sample : 120PPM BNA STD S38-11

Inst : HPMS 7

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Oct 17 15:41 1998

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Sat Oct 17 15:33:42 1998

Response via : Initial Calibration

DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.35	152	561119	40.00	ug/L	0.00
19) Naphthalene-d8	8.29	136	2204037	40.00	ug/L	0.00
34) Acenaphthene-d10	11.53	164	1197109	40.00	ug/L	0.00
56) Phenanthrene-d10	14.45	188	2025153	40.00	ug/L	0.00
67) Chrysene-d12	19.86	240	2109593	40.00	ug/L	0.02
76) Perylene-d12	23.04	264	2081376	40.00	ug/L	0.02

System Monitoring Compounds

4) 2-Fluorophenol	4.75	112	2402966	110.90	ug/L	0.00
Spiked Amount	100.000	Range	21 - 100	Recovery	=	110.90%#
6) Phenol-d5	5.89	99	2501812	105.80	ug/L	0.01
Spiked Amount	100.000	Range	10 - 94	Recovery	=	105.80%#
20) Nitrobenzene-d5	7.17	82	2295434	104.33	ug/L	0.02
Spiked Amount	50.000	Range	35 - 114	Recovery	=	208.66%#
38) 2-Fluorobiphenyl	10.24	172	4444785	113.57	ug/L	0.01
Spiked Amount	50.000	Range	43 - 116	Recovery	=	227.14%#
55) 2,4,6-Tribromophenol	13.11	330	918652	148.03	ug/L	0.01
Spiked Amount	100.000	Range	10 - 123	Recovery	=	148.03%#
70) Terphenyl-d14	17.72	244	5814437	125.61	ug/L	0.02
Spiked Amount	50.000	Range	33 - 141	Recovery	=	251.22%#

Target Compounds

						Qvalue
2) Pyridine	3.26	79	2748352	116.34	ug/L	99
3) n-Nitrosodimethylamine	3.22	74	1603659	115.36	ug/L	99
5) Aniline	5.94	93	2709293	109.00	ug/L	96
7) Phenol	5.91	94	2699291	101.55	ug/L	92
8) bis-(2-Chloroethyl)ether	6.00	93	2070269	103.85	ug/L	98
9) 2-Chlorophenol	6.11	128	2322389	109.45	ug/L	99
10) 1,3-Dichlorobenzene	6.31	146	2501776	112.47	ug/L	99
11) 1,4-Dichlorobenzene	6.37	146	2587400	115.12	ug/L	99
12) Benzyl Alcohol	6.55	108	1476612	107.75	ug/L	100
13) 1,2-Dichlorobenzene	6.63	146	2375003	112.42	ug/L	99
14) 2-Methylphenol	6.72	107	1629836	105.66	ug/L	99
15) Bis(2-chloroisopropyl)ethe	6.75	45	2277800	101.69	ug/L	98
16) 4-Methylphenol	6.93	107	2377581	105.77	ug/L	99
17) n-Nitroso-di-n-propylamine	6.97	70	1556127	108.84	ug/L	99
18) Hexachloroethane	7.08	117	923904	107.33	ug/L	89
21) Nitrobenzene	7.19	77	2134746	98.22	ug/L	96
22) Isophorone	7.56	82	3787533	105.32	ug/L	98
23) 2-Nitrophenol	7.69	139	1304473	109.53	ug/L	99
24) 2,4-Dimethylphenol	7.74	122	1901298	110.51	ug/L	99

(#)=qualifier out of range (m)=manual integration

5906.D LANL.M

Sat Oct 17 15:42:30 1998

HPMS7

Page 1

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Data File : C:\HPCHEM\1\DATA\101398\5906.D

Vial: 8

Acq On : 13 Oct 1998 4:48 pm

Operator: MLS

Sample : 120PPM BNA STD S38-11

Inst : HPMS 7

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Oct 17 15:41 1998

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Sat Oct 17 15:33:42 1998

Response via : Initial Calibration

DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25) bis(2-chloroethoxy)methane	7.88	93	2298296	102.02	ug/L	99
26) Benzoic Acid	8.00	122	1757772	136.52	ug/L	98
27) 2,4-Dichlorophenol	8.08	162	1929195	115.00	ug/L	98
28) 1,2,4-Trichlorobenzene	8.22	180	2182453	117.27	ug/L	99
29) Naphthalene	8.32	128	5762263	102.14	ug/L	97
30) 4-Chloroaniline	8.42	127	2433832	142.69	ug/L	99
31) Hexachlorobutadiene	8.62	225	1330264	124.99	ug/L	99
32) 4-chloro-3methylphenol	9.28	107	1824516	107.64	ug/L	98
33) 2-Methylnaphthalene	9.53	142	4081190	111.24	ug/L	98
35) Hexachlorocyclopentadiene	9.95	237	1275829	132.80	ug/L	99
36) 2,4,6-Trichlorophenol	10.10	196	1497690	118.54	ug/L	100
37) 2,4,5-Trichlorophenol	10.18	196	1592130	117.84	ug/L	99
39) 2-Chloronaphthalene	10.43	162	3923115	112.42	ug/L	99
40) 2-Nitroaniline	10.67	65	1237735	108.65	ug/L	97
41) Dimethylphthalate	11.09	163	4287920	112.74	ug/L	99
42) Acenaphthylene	11.24	152	5525137	98.66	ug/L	97
43) 2,6-Dinitrotoluene	11.21	165	1026956	108.43	ug/L	95
44) 3-Nitroaniline	11.48	138	984722	185.71	ug/L	100
45) Acenaphthene	11.60	154	3706542	112.84	ug/L	99
46) 2,4-Dinitrophenol	11.67	184	809803	149.82	ug/L	95
47) 4-Nitrophenol	11.85	65	854624	117.49	ug/L	97
48) Dibenzofuran	11.91	168	5326643	110.55	ug/L	99
49) 2,4-Dinitrotoluene	11.97	165	1426338	112.82	ug/L	95
50) Diethylphthalate	12.48	149	4097038	105.15	ug/L	98
51) Fluorene	12.59	166	4819300	128.88	ug/L	100
52) 4-Chlorophenyl-phenylether	12.58	204	2613947	132.49	ug/L	98
53) 4-Nitroaniline	12.69	138	886889	128.02	ug/L	96
54) 1,2-Diphenylhydrazine	12.90	77	3964201	97.58	ug/L	95
57) 4,6-Dinitro-2-methylphenol	12.80	198	1017171	129.24	ug/L	95
58) n-Nitrosodiphenylamine	12.84	169	2948612	108.76	ug/L	94
59) 4-Bromophenyl-phenyl ether	13.55	248	1523672	129.09	ug/L	95
60) Hexachlorobenzene	13.86	284	1825316	137.65	ug/L	91
61) Pentachlorophenol	14.22	266	1165275	130.94	ug/L	99
62) Phenanthrene	14.51	178	6445833	111.84	ug/L	98
63) Anthracene	14.60	178	6580799	110.66	ug/L	97
64) Carbazole	14.92	167	4145615	88.36	ug/L	99
65) Di-n-butylphthalate	15.74	149	6482063	101.73	ug/L	99
66) Fluoranthene	16.93	202	7252106	114.60	ug/L	97
68) Benzidine	17.18	184	913624	973.69	ug/L	100
69) Pyrene	17.38	202	7592450	111.35	ug/L	97
71) Butylbenzylphthalate	18.78	149	3149421	102.79	ug/L	95

(#)=qualifier out of range (m)=manual integration

5906.D LANL.M

Sat Oct 17 15:42:38 1998

HPMS7

Page 2

Data File : C:\HPCHEM\1\DATA\101398\5906.D

Acq On : 13 Oct 1998 4:48 pm

Sample : 120PPM BNA STD S38-11

Misc :

MS Integration Params: rteint.p

Quant Time: Oct 17 15:41 1998

Vial: 8

Operator: MLS

Inst : HPMS 7

Multiplr: 1.00

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Sat Oct 17 15:33:42 1998

Response via : Initial Calibration

DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
72) Benzo(a)anthracene	19.83	228	8248959	122.49	ug/L	97
73) 3,3'-Dichlorobenzidine	19.80	252	1610055	150.97	ug/L #	98
74) Chrysene	19.92	228	5526790	116.00	ug/L	98
75) Bis(2-ethylhexyl)phthalate	20.00	149	4514810	104.90	ug/L #	97
77) Di-n-octylphthalate	21.20	149	7459632	98.08	ug/L	100
78) Benzo(b)fluoranthene	22.10	252	8802671	121.51	ug/L	96
79) Benzo(k)fluoranthene	22.10	252	8802671	130.13	ug/L	97
80) Benzo(a)pyrene	22.91	252	7649142	119.12	ug/L	98
81) Indeno(1,2,3-cd)pyrene	26.68	276	9199791	128.87	ug/L #	68
82) Dibenzo(a,h)anthracene	26.75	278	6419047	131.29	ug/L #	95
83) Benzo(g,h,i)perylene	27.78	276	7877649m	126.85	ug/L	

(#) = qualifier out of range (m) = manual integration

5906.D LANL.M

Sat Oct 17 15:42:40 1998

HPMS7

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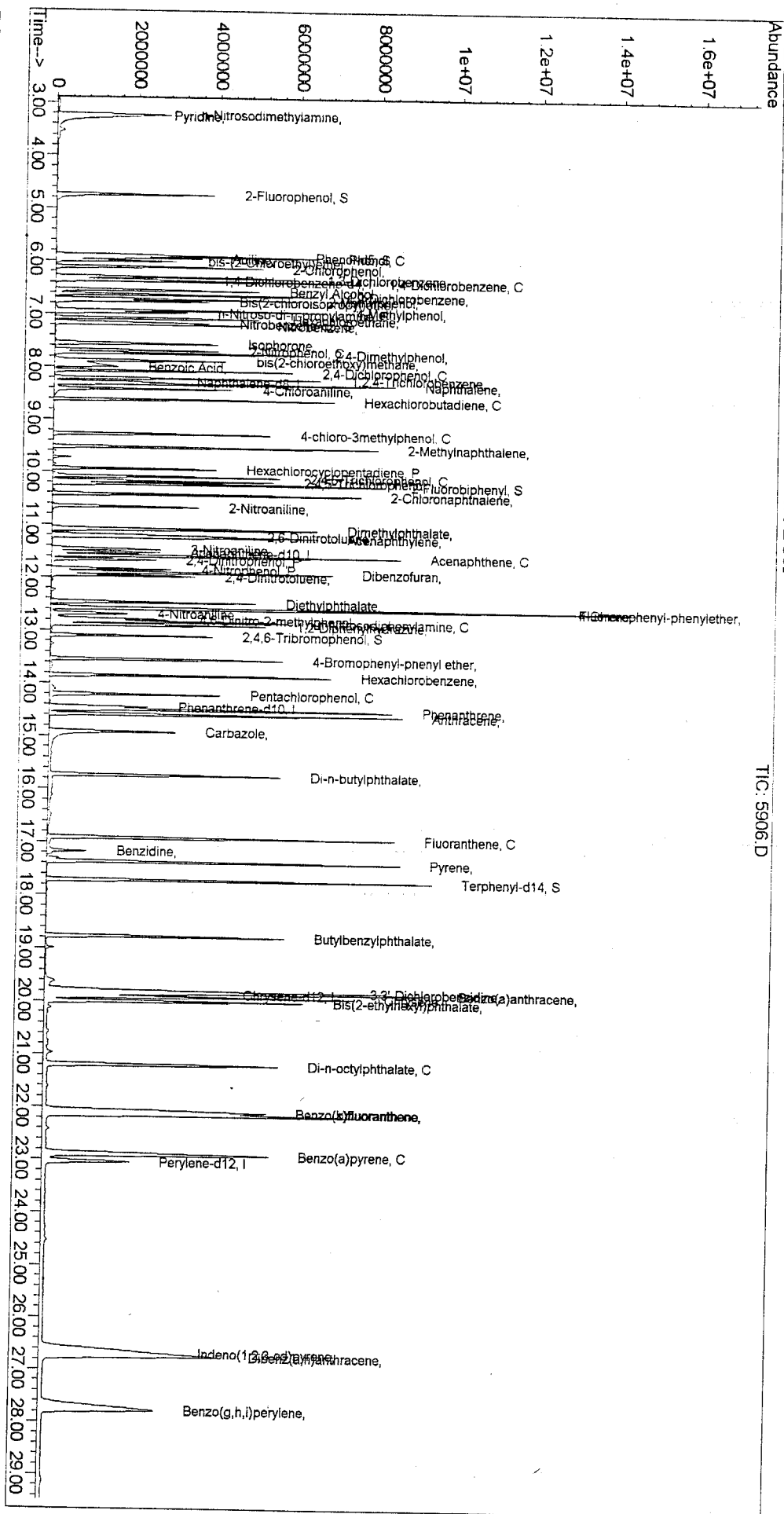
Quantitation Report

Data File : C:\HPCHEM\1\DATA\101398\5906.D
 Acq On : 13 Oct 1998 4:48 pm
 Sample : 120PPM BNA STD S38-11
 Misc :
 MS Integration Params: rteint.p
 Quant Time: Oct 17 15:41 1998

Vial: 8
 Operator: MLS
 Inst : HPMS 7
 Multiplr: 1.00

Quant Results File: LANL.RES

Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
 Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
 Last Update : Sat Oct 17 15:33:42 1998
 Response via : Initial Calibration



TIC: 5906.D

5906.D LANL.M

Sat Oct 17 15:43:01 1998

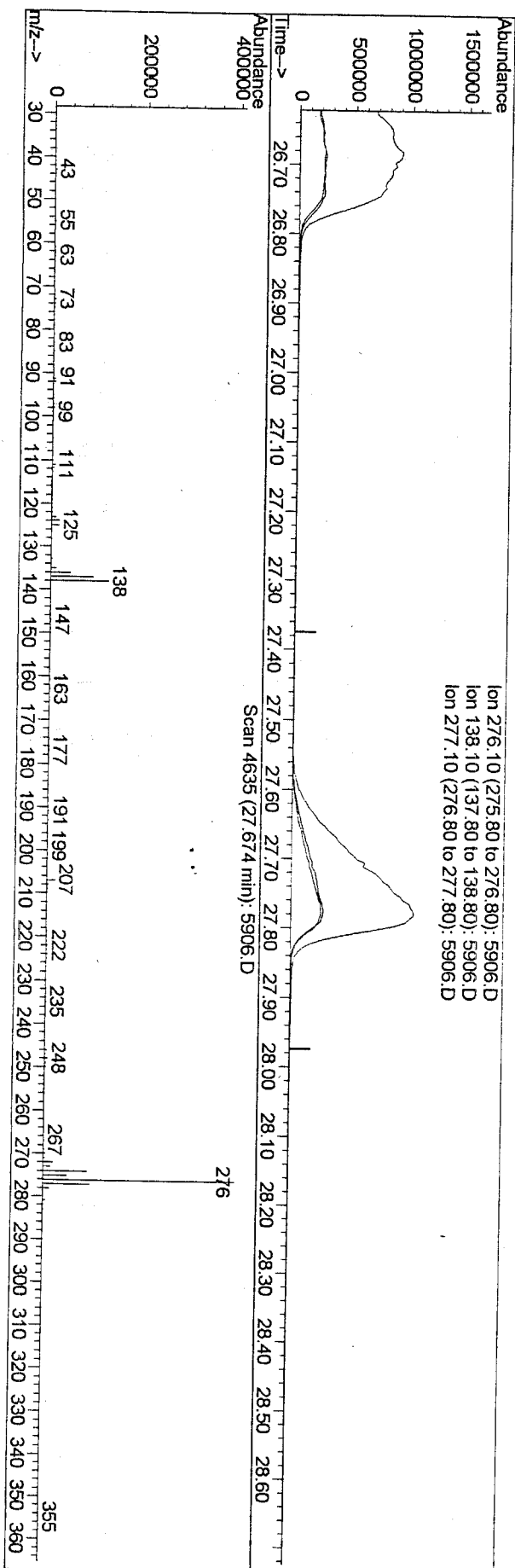
HPMS7

Quantitation Report

Data File : C:\HPCHEM\1\DATA\101398\5906.D
 Acq On : 13 Oct 1998 4:48 pm
 Sample : 120PPM BNA STD S38-11
 Misc :
 Quant Results File: temp.res

Vial: 8
 Operator: MLS
 Inst : HPMS 7
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
 Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
 Last Update : Sat Oct 17 15:33:42 1998
 Response via : Single Level Calibration



(83) Benzo(g,h,i)perylene
 27.67min 0.00ug/L
 response 0

Ion	Exp%	Act%
276.10	100	0.00
138.10	30.90	0.00#
277.10	24.10	0.00#
0.00	0.00	0.00

TIC: 5906.D

Quantitation Report

Data File : C:\HPCHEM\1\DATA\101398\5906.D

Vial: 8

Acq On : 13 Oct 1998 4:48 pm

Operator: MLS

Sample : 120PPM BNA STD S38-11

Inst : HPMS 7

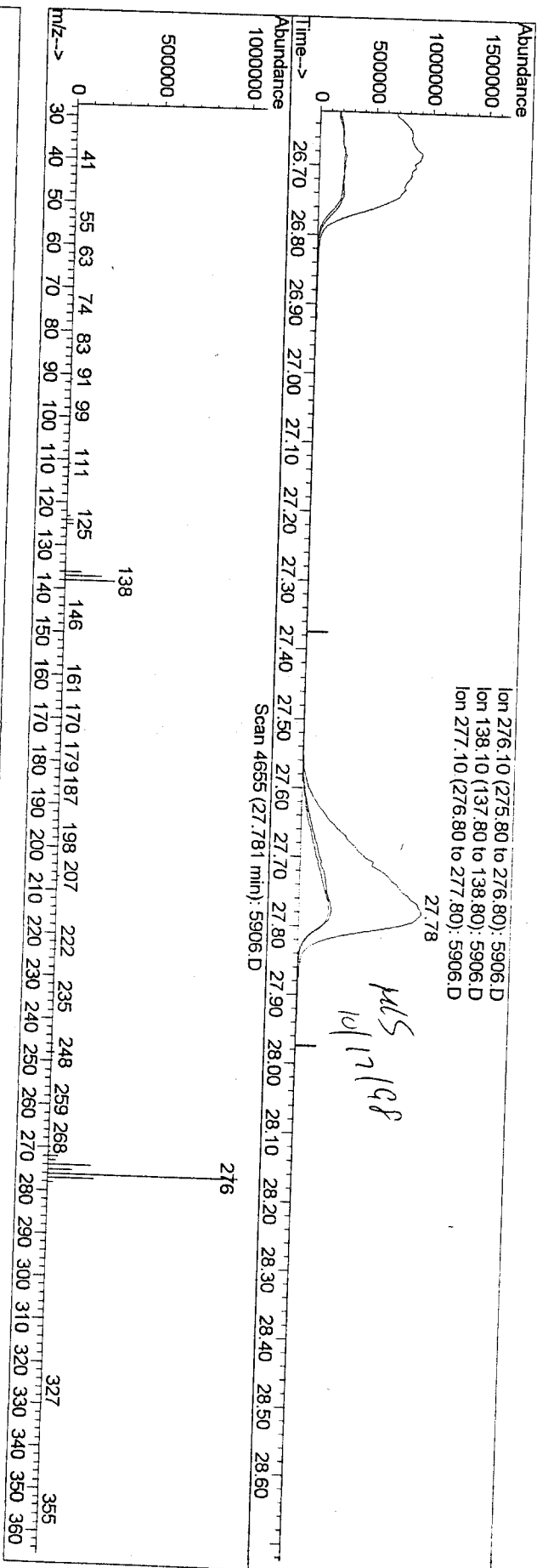
Multiplr: 1.00

Method

Title : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Last Update : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Response via : Single Level Calibration



(83) Benzo(g,h,i)perylene
27.78min 126.85ug/L m
response 7877649

Ion	Exp%	Act%
276.10	100	100
138.10	30.90	0.00#
277.10	24.10	0.00#
0.00	0.00	0.00

5906.D LANL.M

Sat Oct 17 15:41:55 1998

HPMS7

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\101698\5979.D

Acq On : 16 Oct 1998 10:33

Sample : 50PPM BNA STD S38-11

Misc :

MS Integration Params: rteint.p

Vial: 2

Operator: MLS

Inst : HPMS 7

Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Sun Oct 18 11:51:56 1998

Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	134	0.00
2	Pyridine	1.691	1.653	2.2	132	0.00
3	n-Nitrosodimethylamine	0.989	0.956	3.3	130	0.02
4 S	2-Fluorophenol	1.538	1.539	-0.1	134	0.00
5	Aniline	1.710	1.727	-1.0	131	0.00
6 S	Phenol-d5	1.689	1.668	1.2	133	0.00
7 C	Phenol	1.866	1.838	1.5	130	0.00
8	bis-(2-Chloroethyl) ether	1.409	1.404	0.4	133	0.00
9	2-Chlorophenol	1.512	1.516	-0.3	135	0.00
10	1,3-Dichlorobenzene	1.616	1.587	1.8	135	0.00
11 C	1,4-Dichlorobenzene	1.636	1.588	2.9	133	0.00
12	Benzyl Alcohol	0.959	0.951	0.8	131	0.00
13	1,2-Dichlorobenzene	1.530	1.508	1.4	135	0.00
14	2-Methylphenol	1.101	1.065	3.3	130	0.00
15	Bis(2-chloroisopropyl) ether	1.553	1.549	0.3	130	0.00
16	4-Methylphenol	1.591	1.609	-1.1	135	0.00
17 P	n-Nitroso-di-n-propylamine	1.012	1.008	0.4	133	0.00
18	Hexachloroethane	0.615	0.618	-0.5	135	0.00
19 I	Naphthalene-d8	1.000	1.000	0.0	134	0.00
20 S	Nitrobenzene-d5	0.397	0.399	-0.5	134	0.00
21	Nitrobenzene	0.386	0.389	-0.8	132	0.00
22	Isophorone	0.652	0.651	0.2	134	0.00
23 C	2-Nitrophenol	0.222	0.219	1.4	136	0.00
24	2,4-Dimethylphenol	0.318	0.299	6.0	129	0.00
25	bis(2-chloroethoxy) methane	0.405	0.405	0.0	133	0.00
26	Benzoic Acid	0.224	0.250	-11.6	144	0.00
27 C	2,4-Dichlorophenol	0.308	0.316	-2.6	139	0.00
28	1,2,4-Trichlorobenzene	0.347	0.342	1.4	136	0.00
29	Naphthalene	1.027	0.995	3.1	130	0.00
30	4-Chloroaniline	0.356	0.386	-8.4	167	0.00
31 C	Hexachlorobutadiene	0.202	0.202	0.0	140	0.00
32 C	4-chloro-3methylphenol	0.306	0.325	-6.2	142	-0.01
33	2-Methylnaphthalene	0.684	0.668	2.3	135	0.00
34 I	Acenaphthene-d10	1.000	1.000	0.0	137	0.00
35 P	Hexachlorocyclopentadiene	0.311	0.347	-11.6	148	0.00
36 C	2,4,6-Trichlorophenol	0.426	0.427	-0.2	139	0.00
37	2,4,5-Trichlorophenol	0.457	0.465	-1.8	142	-0.01
38 S	2-Fluorobiphenyl	1.342	1.277	4.8	134	0.00
39	2-Chloronaphthalene	1.186	1.144	3.5	135	0.00

(#) = Out of Range

5979.D LANL.M

Tue Oct 20 14:04:03 1998

HPMS7

Page 1343

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\101698\5979.D

Acq On : 16 Oct 1998 10:33

Sample : 50PPM BNA STD S38-11

Misc :

MS Integration Params: rteint.p

Vial: 2

Operator: MLS

Inst : HPMS 7

Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Sun Oct 18 11:51:56 1998

Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 40% Max. Rel. Area : 500%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40	2-Nitroaniline	0.375	0.383	-2.1	138	0.00
41	Dimethylphthalate	1.303	1.263	3.1	137	0.00
42	Acenaphthylene	1.846	1.857	-0.6	136	0.00
43	2,6-Dinitrotoluene	0.312	0.322	-3.2	140	0.00
44	3-Nitroaniline	0.228	0.254	-11.4	197	0.00
45 C	Acenaphthene	1.130	1.091	3.5	137	0.00
46 P	2,4-Dinitrophenol	0.195	0.202	-3.6	154	0.00
47 P	4-Nitrophenol	0.234	0.264	-12.8	149	-0.01
48	Dibenzofuran	1.645	1.612	2.0	138	0.00
49	2,4-Dinitrotoluene	0.414	0.428	-3.4	139	0.00
50	Diethylphthalate	1.295	1.291	0.3	136	0.00
51	Fluorene	1.371	1.249	8.9	137	0.00
52	4-Chlorophenyl-phenylether	0.720	0.669	7.1	139	0.00
53	4-Nitroaniline	0.248	0.249	-0.4	148	0.00
54	1,2-Diphenylhydrazine	1.317	1.322	-0.4	134	0.00
55 S	2,4,6-Tribromophenol	0.221	0.219	0.9	145	0.00
56 I	Phenanthrene-d10	1.000	1.000	0.0	140	0.00
57	4,6-Dinitro-2-methylphenol	0.160	0.162	-1.3	146	0.00
58 C	n-Nitrosodiphenylamine	0.544	0.553	-1.7	145	0.00
59	4-Bromophenyl-phenyl ether	0.241	0.238	1.2	143	0.00
60	Hexachlorobenzene	0.278	0.268	3.6	144	0.00
61 C	Pentachlorophenol	0.171	0.174	-1.8	139	-0.01
62	Phenanthrene	1.171	1.113	5.0	137	0.00
63	Anthracene	1.187	1.129	4.9	135	0.00
64	Carbazole	0.898	0.749	16.6	113	-0.01
65	Di-n-butylphthalate	1.231	1.221	0.8	136	0.00
66 C	Fluoranthene	1.266	1.221	3.6	137	0.00
67 I	Chrysene-d12	1.000	1.000	0.0	136	0.00
68	Benzidine	0.092	0.024#	73.9#	187	0.00
69	Pyrene	1.326	1.293	2.5	136	0.00
70 S	Terphenyl-d14	0.917	0.905	1.3	140	0.00
71	Butylbenzylphthalate	0.575	0.574	0.2	135	0.00
72	Benzo(a)anthracene	1.312	1.249	4.8	133	0.00
73	3,3'-Dichlorobenzidine	0.217	0.271	-24.9	182	0.00
74	Chrysene	0.910	0.899	1.2	135	0.00
75	Bis(2-ethylhexyl)phthalate	0.817	0.796	2.6	133	0.00
76 I	Perylene-d12	1.000	1.000	0.0	132	-0.01
77 C	Di-n-octylphthalate	1.430	1.452	-1.5	131	0.00

(#) = Out of Range

5979.D LANL.M

Tue Oct 20 14:04:07 1998

HPMS7

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Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\101698\5979.D

Acq On : 16 Oct 1998 10:33

Sample : 50PPM BNA STD S38-11

Misc :

MS Integration Params: rteint.p

Vial: 2

Operator: MLS

Inst : HPMS 7

Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Sun Oct 18 11:51:56 1998

Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 40% Max. Rel. Area : 500%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
78	Benzo(b)fluoranthene	1.405	1.438	-2.3	136	-0.01
79	Benzo(k)fluoranthene	1.329	1.275	4.1	130	-0.01
80 C	Benzo(a)pyrene	1.248	1.239	0.7	133	0.00
81	Indeno(1,2,3-cd)pyrene	1.419	1.368	3.6	132	-0.01
82	Dibenz(a,h)anthracene	0.973	0.941	3.3	132	-0.02
83	Benzo(g,h,i)perylene	1.233	1.182	4.1	131	0.00

(#) = Out of Range

5979.D LANL.M

SPCC's out = 0

CCC's out = 0

Tue Oct 20 14:04:08 1998

HPMS7

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Data File : C:\HPCHEM\1\DATA\101698\5979.D

Acq On : 16 Oct 1998 10:33

Sample : 50PPM BNA STD S38-11

Misc :

MS Integration Params: rteint.p

Quant Time: Oct 20 13:59 1998

Vial: 2

Operator: MLS

Inst : HPMS 7

Multiplr: 1.00

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Sun Oct 18 11:51:56 1998

Response via : Initial Calibration

DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-Dichlorobenzene-d4	6.34	152	646304	40.00	ug/L	0.00
19) Naphthalene-d8	8.28	136	2512486	40.00	ug/L	0.00
34) Acenaphthene-d10	11.52	164	1386551	40.00	ug/L	0.00
56) Phenanthrene-d10	14.44	188	2387408	40.00	ug/L	0.00
67) Chrysene-d12	19.85	240	2375713	40.00	ug/L	0.00
76) Perylene-d12	23.02	264	2228077	40.00	ug/L	-0.01

System Monitoring Compounds

4) 2-Fluorophenol	4.75	112	1243664	50.06	ug/L	0.00
Spiked Amount	100.000	Range	21 - 100	Recovery	=	50.06%
6) Phenol-d5	5.88	99	1347211	49.36	ug/L	0.00
Spiked Amount	100.000	Range	10 - 94	Recovery	=	49.36%
20) Nitrobenzene-d5	7.15	82	1253912	50.33	ug/L	0.00
Spiked Amount	50.000	Range	35 - 114	Recovery	=	100.66%
38) 2-Fluorobiphenyl	10.22	172	2213997	47.60	ug/L	0.00
Spiked Amount	50.000	Range	43 - 116	Recovery	=	95.20%
55) 2,4,6-Tribromophenol	13.09	330	379455	49.53	ug/L	0.00
Spiked Amount	100.000	Range	10 - 123	Recovery	=	49.53%
70) Terphenyl-d14	17.70	244	2688611	49.35	ug/L	0.00
Spiked Amount	50.000	Range	33 - 141	Recovery	=	98.70%

Target Compounds

						Qvalue
2) Pyridine	3.25	79	1335575	48.88	ug/L	99
3) n-Nitrosodimethylamine	3.23	74	772663	48.37	ug/L	99
5) Aniline	5.94	93	1394814	50.48	ug/L	100
7) Phenol	5.89	94	1484576	49.24	ug/L	99
8) bis-(2-Chloroethyl) ether	6.00	93	1134454	49.82	ug/L	99
9) 2-Chlorophenol	6.11	128	1224850	50.14	ug/L	99
10) 1,3-Dichlorobenzene	6.30	146	1282128	49.12	ug/L	100
11) 1,4-Dichlorobenzene	6.37	146	1282637	48.52	ug/L	100
12) Benzyl Alcohol	6.54	108	768468	49.60	ug/L	96
13) 1,2-Dichlorobenzene	6.63	146	1218032	49.27	ug/L	100
14) 2-Methylphenol	6.71	107	860193	48.37	ug/L	97
15) Bis(2-chloroisopropyl) ethe	6.75	45	1251508	49.89	ug/L	97
16) 4-Methylphenol	6.91	107	1299592	50.54	ug/L	99
17) n-Nitroso-di-n-propylamine	6.95	70	814126	49.81	ug/L	100
18) Hexachloroethane	7.07	117	499192	50.20	ug/L	97
21) Nitrobenzene	7.18	77	1221657	50.35	ug/L	99
22) Isophorone	7.53	82	2043221	49.89	ug/L	99
23) 2-Nitrophenol	7.67	139	688676	49.41	ug/L	99
24) 2,4-Dimethylphenol	7.72	122	939577	47.00	ug/L	97

(#)=qualifier out of range (m)=manual integration

5979.D LANL.M

Tue Oct 20 13:59:44 1998

HPMS7

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Data File : C:\HPCHEM\1\DATA\101698\5979.D

Acq On : 16 Oct 1998 10:33

Sample : 50PPM BNA STD S38-11

Misc :

MS Integration Params: rteint.p

Quant Time: Oct 20 13:59 1998

Vial: 2

Operator: MLS

Inst : HPMS 7

Multiplr: 1.00

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Sun Oct 18 11:51:56 1998

Response via : Initial Calibration

DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25) bis(2-chloroethoxy)methane	7.87	93	1272470	50.05	ug/L	99
26) Benzoic Acid	7.92	122	784620	55.68	ug/L	97
27) 2,4-Dichlorophenol	8.06	162	992435	51.38	ug/L	99
28) 1,2,4-Trichlorobenzene	8.21	180	1075366	49.36	ug/L	99
29) Naphthalene	8.31	128	3125307	48.43	ug/L	99
30) 4-Chloroaniline	8.41	127	1211427	54.15	ug/L	99
31) Hexachlorobutadiene	8.62	225	633023	49.99	ug/L	100
32) 4-chloro-3methylphenol	9.26	107	1019432	53.07	ug/L	100
33) 2-Methylnaphthalene	9.52	142	2098454	48.82	ug/L	100
35) Hexachlorocyclopentadiene	9.94	237	600878	55.77	ug/L	100
36) 2,4,6-Trichlorophenol	10.08	196	739961	50.07	ug/L	100
37) 2,4,5-Trichlorophenol	10.16	196	805531	50.82	ug/L	100
39) 2-Chloronaphthalene	10.41	162	1982389	48.22	ug/L	100
40) 2-Nitroaniline	10.65	65	663041	51.05	ug/L	98
41) Dimethylphthalate	11.06	163	2188628	48.46	ug/L	100
42) Acenaphthylene	11.22	152	3218197	50.31	ug/L	99
43) 2,6-Dinitrotoluene	11.18	165	558350	51.55	ug/L	99
44) 3-Nitroaniline	11.45	138	439542	55.59	ug/L	99
45) Acenaphthene	11.58	154	1891443	48.27	ug/L	100
46) 2,4-Dinitrophenol	11.65	184	349740	51.80	ug/L	97
47) 4-Nitrophenol	11.81	65	457340	56.43	ug/L	94
48) Dibenzofuran	11.89	168	2793157	48.98	ug/L	98
49) 2,4-Dinitrotoluene	11.95	165	742368	51.71	ug/L	99
50) Diethylphthalate	12.45	149	2237800	49.85	ug/L	100
51) Fluorene	12.57	166	2165343	45.58	ug/L	100
52) 4-Chlorophenyl-phenylether	12.57	204	1158697	46.45	ug/L	99
53) 4-Nitroaniline	12.66	138	431277	50.23	ug/L	96
54) 1,2-Diphenylhydrazine	12.88	77	2290729	50.16	ug/L	98
57) 4,6-Dinitro-2-methylphenol	12.76	198	483853	50.58	ug/L	97
58) n-Nitrosodiphenylamine	12.82	169	1649257	50.78	ug/L	99
59) 4-Bromophenyl-phenyl ether	13.53	248	709313	49.23	ug/L	98
60) Hexachlorobenzene	13.84	284	800077	48.21	ug/L	98
61) Pentachlorophenol	14.20	266	520062	50.91	ug/L	100
62) Phenanthrene	14.48	178	3321830	47.53	ug/L	100
63) Anthracene	14.58	178	3369622	47.56	ug/L	99
64) Carbazole	14.90	167	2233908	41.66	ug/L	99
65) Di-n-butylphthalate	15.73	149	3643536	49.60	ug/L	100
66) Fluoranthene	16.90	202	3642585	48.23	ug/L	99
68) Benzdine	17.16	184	72579	13.25	ug/L	100
69) Pyrene	17.36	202	3839872	48.75	ug/L	100
71) Butylbenzylphthalate	18.76	149	1705350	49.94	ug/L	99

(#) = qualifier out of range (m) = manual integration

5979.D LANL.M

Tue Oct 20 13:59:45 1998

HPMS7

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Data File : C:\HPCHEM\1\DATA\101698\5979.D

Acq On : 16 Oct 1998 10:33

Sample : 50PPM BNA STD S38-11

Misc :

MS Integration Params: rteint.p

Quant Time: Oct 20 13:59 1998

Vial: 2

Operator: MLS

Inst : HPMS 7

Multiplr: 1.00

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Sun Oct 18 11:51:56 1998

Response via : Initial Calibration

DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
72) Benzo(a)anthracene	19.81	228	3709146	47.59	ug/L	99
73) 3,3'-Dichlorobenzidine	19.78	252	803995	62.27	ug/L	99
74) Chrysene	19.90	228	2669220	49.40	ug/L	99
75) Bis(2-ethylhexyl)phthalate	19.99	149	2365006	48.77	ug/L	99
77) Di-n-octylphthalate	21.18	149	4044747	50.77	ug/L	100
78) Benzo(b)fluoranthene	22.05	252	4004222	51.17	ug/L	98
79) Benzo(k)fluoranthene	22.11	252	3552322	47.99	ug/L	99
80) Benzo(a)pyrene	22.87	252	3449375	49.63	ug/L	99
81) Indeno(1,2,3-cd)pyrene	26.60	276	3808825	48.18	ug/L	99
82) Dibenz(a,h)anthracene	26.65	278	2620593	48.33	ug/L	99
83) Benzo(g,h,i)perylene	27.67	276	3291786	47.91	ug/L	99

(#) = qualifier out of range (m) = manual integration

5979.D LANL.M

Tue Oct 20 13:59:46 1998

HPMS7

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Quantitation Report

Data File : C:\HPCHEM\1\DATA\101698\5979.D
Acq On : 16 Oct 1998 10:33
Sample : 50PPM BNA STD S38-11
Misc :

Vial: 2
Operator: MLS
Inst : HPMS 7
Multiplr: 1.00

MS Integration Params: rteint.p

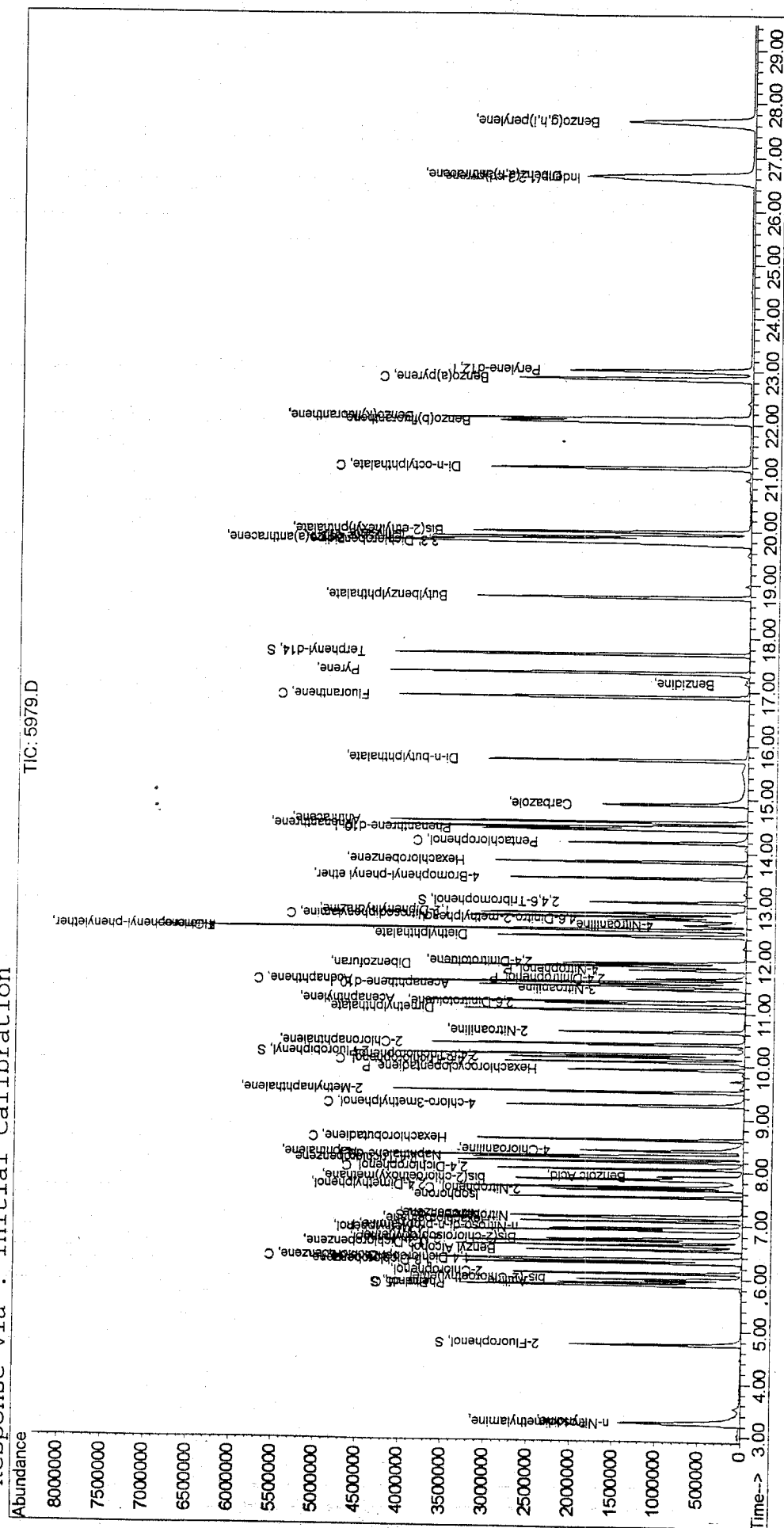
Quant Time: Oct 20 13:59 1998

Quant Results File: LANL.RES

```

Method      : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
Title       : M8270/625 LIST INITIAL CALIBRATION 10/13/98
Last Update : Sun Oct 18 11:51:56 1998
Response via : Initial Calibration

```



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\101698\5987.D

Acq On : 16 Oct 1998 16:49

Sample : 50PPM BNA STD S38-11

Misc : SOIL

MS Integration Params: rteint.p

Vial: 10

Operator: MLS

Inst : HPMS 7

Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Sun Oct 18 11:51:56 1998

Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 40% Max. Rel. Area : 500%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	138	0.00
2	Pyridine	1.691	1.652	2.3	135	0.01
3	n-Nitrosodimethylamine	0.989	0.960	2.9	133	0.03
4 S	2-Fluorophenol	1.538	1.519	1.2	135	0.00
5	Aniline	1.710	1.590	7.0	123	0.00
6 S	Phenol-d5	1.689	1.630	3.5	133	0.00
7 C	Phenol	1.866	1.794	3.9	130	0.00
8	bis-(2-Chloroethyl) ether	1.409	1.397	0.9	135	0.00
9	2-Chlorophenol	1.512	1.489	1.5	135	0.00
10	1,3-Dichlorobenzene	1.616	1.574	2.6	137	0.00
11 C	1,4-Dichlorobenzene	1.636	1.558	4.8	134	0.00
12	Benzyl Alcohol	0.959	0.959	0.0	135	0.00
13	1,2-Dichlorobenzene	1.530	1.502	1.8	137	0.00
14	2-Methylphenol	1.101	1.068	3.0	134	0.00
15	Bis(2-chloroisopropyl) ether	1.553	1.555	-0.1	134	0.00
16	4-Methylphenol	1.591	1.561	1.9	134	0.00
17 P	n-Nitroso-di-n-propylamine	1.012	1.009	0.3	136	0.00
18	Hexachloroethane	0.615	0.611	0.7	137	0.00
19 I	Naphthalene-d8	1.000	1.000	0.0	135	0.00
20 S	Nitrobenzene-d5	0.397	0.401	-1.0	136	0.00
21	Nitrobenzene	0.386	0.393	-1.8	135	0.00
22	Isophorone	0.652	0.654	-0.3	136	0.00
23 C	2-Nitrophenol	0.222	0.219	1.4	137	0.00
24	2,4-Dimethylphenol	0.318	0.306	3.8	132	0.00
25	bis(2-chloroethoxy) methane	0.405	0.404	0.2	134	0.00
26	Benzoic Acid	0.224	0.246	-9.8	143	0.00
27 C	2,4-Dichlorophenol	0.308	0.313	-1.6	139	0.00
28	1,2,4-Trichlorobenzene	0.347	0.347	0.0	139	0.00
29	Naphthalene	1.027	1.000	2.6	132	0.00
30	4-Chloroaniline	0.356	0.343	3.7	150	0.00
31 C	Hexachlorobutadiene	0.202	0.203	-0.5	142	0.00
32 C	4-chloro-3methylphenol	0.306	0.317	-3.6	139	-0.01
33	2-Methylnaphthalene	0.684	0.671	1.9	136	0.00
34 I	Acenaphthene-d10	1.000	1.000	0.0	139	0.00
35 P	Hexachlorocyclopentadiene	0.311	0.370	-19.0	160	0.00
36 C	2,4,6-Trichlorophenol	0.426	0.429	-0.7	142	0.00
37	2,4,5-Trichlorophenol	0.457	0.462	-1.1	143	-0.01
38 S	2-Fluorobiphenyl	1.342	1.291	3.8	138	0.00
39	2-Chloronaphthalene	1.186	1.148	3.2	137	0.00

(#) = Out of Range

5987.D LANL.M

Tue Oct 20 14:06:26 1998

HPMS7

Page 1

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Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\101698\5987.D
 Acq On : 16 Oct 1998 16:49
 Sample : 50PPM BNA STD S38-11
 Misc : SOIL
 MS Integration Params: rteint.p

Vial: 10
 Operator: MLS
 Inst : HPMS 7
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
 Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
 Last Update : Sun Oct 18 11:51:56 1998
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 40% Max. Rel. Area : 500%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40	2-Nitroaniline	0.375	0.385	-2.7	141	0.00
41	Dimethylphthalate	1.303	1.267	2.8	139	0.00
42	Acenaphthylene	1.846	1.850	-0.2	138	0.00
43	2,6-Dinitrotoluene	0.312	0.325	-4.2	143	0.00
44	3-Nitroaniline	0.228	0.221	3.1	174	0.00
45 C	Acenaphthene	1.130	1.077	4.7	137	0.00
46 P	2,4-Dinitrophenol	0.195	0.205	-5.1	159	0.00
47 P	4-Nitrophenol	0.234	0.256	-9.4	147	0.00
48	Dibenzofuran	1.645	1.602	2.6	139	0.00
49	2,4-Dinitrotoluene	0.414	0.433	-4.6	143	0.00
50	Diethylphthalate	1.295	1.291	0.3	138	0.00
51	Fluorene	1.371	1.267	7.6	141	0.00
52	4-Chlorophenyl-phenylether	0.720	0.673	6.5	142	0.00
53	4-Nitroaniline	0.248	0.253	-2.0	152	0.00
54	1,2-Diphenylhydrazine	1.317	1.331	-1.1	137	0.00
55 S	2,4,6-Tribromophenol	0.221	0.221	0.0	148	0.00
56 I	Phenanthrene-d10	1.000	1.000	0.0	142	0.00
57	4,6-Dinitro-2-methylphenol	0.160	0.167	-4.4	153	0.00
58 C	n-Nitrosodiphenylamine	0.544	0.549	-0.9	146	0.00
59	4-Bromophenyl-phenyl ether	0.241	0.238	1.2	145	0.00
60	Hexachlorobenzene	0.278	0.264	5.0	143	0.00
61 C	Pentachlorophenol	0.171	0.187	-9.4	151	-0.01
62	Phenanthrene	1.171	1.110	5.2	139	0.00
63	Anthracene	1.187	1.139	4.0	138	0.00
64	Carbazole	0.898	0.765	14.8	117	0.00
65	Di-n-butylphthalate	1.231	1.214	1.4	137	0.00
66 C	Fluoranthene	1.266	1.232	2.7	140	0.00
67 I	Chrysene-d12	1.000	1.000	0.0	139	0.00
68	Benzidine	0.092	0.020#	78.3#	156	0.01
69	Pyrene	1.326	1.288	2.9	138	0.00
70 S	Terphenyl-d14	0.917	0.904	1.4	143	0.00
71	Butylbenzylphthalate	0.575	0.571	0.7	137	0.00
72	Benzo(a)anthracene	1.312	1.257	4.2	137	0.00
73	3,3'-Dichlorobenzidine	0.217	0.226	-4.1	155	0.00
74	Chrysene	0.910	0.900	1.1	139	0.00
75	Bis(2-ethylhexyl)phthalate	0.817	0.799	2.2	136	0.00
76 I	Perylene-d12	1.000	1.000	0.0	143	0.00
77 C	Di-n-octylphthalate	1.430	1.390	2.8	136	0.00

(#) = Out of Range

5987.D LANL.M

Tue Oct 20 14:06:30 1998

HPMS7

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Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\101698\5987.D

Acq On : 16 Oct 1998 16:49

Sample : 50PPM BNA STD S38-11

Misc : SOIL

MS Integration Params: rteint.p

Vial: 10

Operator: MLS

Inst : HPMS 7

Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Sun Oct 18 11:51:56 1998

Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 40% Max. Rel. Area : 500%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
78	Benzo(b)fluoranthene	1.405	1.381	1.7	141	-0.01
79	Benzo(k)fluoranthene	1.329	1.277	3.9	140	0.00
80 C	Benzo(a)pyrene	1.248	1.227	1.7	142	0.00
81	Indeno(1,2,3-cd)pyrene	1.419	1.421	-0.1	148	-0.01
82	Dibenz(a,h)anthracene	0.973	0.978	-0.5	148	-0.01
83	Benzo(g,h,i)perylene	1.233	1.226	0.6	146	0.00

(#) = Out of Range
5987.D LANL.M

SPCC's out = 0 CCC's out = 0

Tue Oct 20 14:06:31 1998 HPMS7

Page 3 352

Data File : C:\HPCHEM\1\DATA\101698\5987.D

Acq On : 16 Oct 1998 16:49

Sample : 50PPM BNA STD S38-11

Misc : SOIL

MS Integration Params: rteint.p

Quant Time: Oct 20 14:05 1998

Vial: 10

Operator: MLS

Inst : HPMS 7

Multiplr: 1.00

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Sun Oct 18 11:51:56 1998

Response via : Initial Calibration

DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.35	152	661599	40.00	ug/L	0.00
19) Naphthalene-d8	8.28	136	2532654	40.00	ug/L	0.00
34) Acenaphthene-d10	11.52	164	1405430	40.00	ug/L	0.00
56) Phenanthrene-d10	14.44	188	2417735	40.00	ug/L	0.00
67) Chrysene-d12	19.84	240	2424553	40.00	ug/L	0.00
76) Perylene-d12	23.02	264	2402887	40.00	ug/L	0.00

System Monitoring Compounds

4) 2-Fluorophenol	4.75	112	1256211	49.39	ug/L	0.00
Spiked Amount 100.000	Range 25 - 121		Recovery =	49.39%		
6) Phenol-d5	5.88	99	1348316	48.26	ug/L	0.00
Spiked Amount 100.000	Range 24 - 113		Recovery =	48.26%		
20) Nitrobenzene-d5	7.15	82	1270911	50.60	ug/L	0.00
Spiked Amount 50.000	Range 23 - 120		Recovery =	101.20%		
38) 2-Fluorobiphenyl	10.22	172	2267853	48.11	ug/L	0.00
Spiked Amount 50.000	Range 30 - 115		Recovery =	96.22%		
55) 2,4,6-Tribromophenol	13.09	330	387554	49.91	ug/L	0.00
Spiked Amount 100.000	Range 19 - 122		Recovery =	49.91%		
70) Terphenyl-d14	17.70	244	2740473	49.28	ug/L	0.00
Spiked Amount 50.000	Range 18 - 137		Recovery =	98.56%		

Target Compounds

						Qvalue
2) Pyridine	3.26	79	1365965	48.83	ug/L	99
3) n-Nitrosodimethylamine	3.24	74	794061	48.56	ug/L	99
5) Aniline	5.94	93	1314707	46.49	ug/L	99
7) Phenol	5.90	94	1483677	48.08	ug/L	97
8) bis-(2-Chloroethyl) ether	6.00	93	1155112	49.56	ug/L	99
9) 2-Chlorophenol	6.11	128	1231436	49.24	ug/L	99
10) 1,3-Dichlorobenzene	6.30	146	1301987	48.73	ug/L	99
11) 1,4-Dichlorobenzene	6.37	146	1288188	47.60	ug/L	99
12) Benzyl Alcohol	6.54	108	793128	50.01	ug/L	98
13) 1,2-Dichlorobenzene	6.63	146	1242352	49.09	ug/L	99
14) 2-Methylphenol	6.71	107	883608	48.54	ug/L	99
15) Bis(2-chloroisopropyl) ethe	6.75	45	1285859	50.07	ug/L	99
16) 4-Methylphenol	6.91	107	1291110	49.05	ug/L	99
17) n-Nitroso-di-n-propylamine	6.95	70	834490	49.88	ug/L	100
18) Hexachloroethane	7.08	117	505057	49.62	ug/L	97
21) Nitrobenzene	7.18	77	1243198	50.83	ug/L	99
22) Isophorone	7.53	82	2069271	50.12	ug/L	99
23) 2-Nitrophenol	7.68	139	691981	49.25	ug/L	98
24) 2,4-Dimethylphenol	7.72	122	967613	48.02	ug/L	100

(#) = qualifier out of range (m) = manual integration

5987.D LANL.M

Tue Oct 20 14:05:36 1998

HPMS7

Page 1

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Data File : C:\HPCHEM\1\DATA\101698\5987.D

Vial: 10

Acq On : 16 Oct 1998 16:49

Operator: MLS

Sample : 50PPM BNA STD S38-11

Inst : HPMS 7

Misc : SOIL

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Oct 20 14:05 1998

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Sun Oct 18 11:51:56 1998

Response via : Initial Calibration

DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25) bis(2-chloroethoxy)methane	7.86	93	1279796	49.94	ug/L	100
26) Benzoic Acid	7.92	122	779467	54.87	ug/L	99
27) 2,4-Dichlorophenol	8.06	162	992480	50.97	ug/L	99
28) 1,2,4-Trichlorobenzene	8.21	180	1097636	49.98	ug/L	100
29) Naphthalene	8.31	128	3165265	48.66	ug/L	100
30) 4-Chloroaniline	8.42	127	1086978	48.20	ug/L	99
31) Hexachlorobutadiene	8.62	225	641170	50.23	ug/L	100
32) 4-chloro-3methylphenol	9.26	107	1003746	51.84	ug/L	100
33) 2-Methylnaphthalene	9.52	142	2124401	49.03	ug/L	100
35) Hexachlorocyclopentadiene	9.94	237	649220	59.45	ug/L	100
36) 2,4,6-Trichlorophenol	10.08	196	754173	50.35	ug/L	100
37) 2,4,5-Trichlorophenol	10.16	196	811727	50.53	ug/L	100
39) 2-Chloronaphthalene	10.42	162	2016379	48.39	ug/L	100
40) 2-Nitroaniline	10.65	65	675518	51.31	ug/L	98
41) Dimethylphthalate	11.06	163	2224979	48.61	ug/L	100
42) Acenaphthylene	11.23	152	3250386	50.13	ug/L	99
43) 2,6-Dinitrotoluene	11.18	165	571078	52.02	ug/L	98
44) 3-Nitroaniline	11.45	138	388461	48.47	ug/L	99
45) Acenaphthene	11.58	154	1892623	47.65	ug/L	100
46) 2,4-Dinitrophenol	11.65	184	360896	52.73	ug/L	96
47) 4-Nitrophenol	11.82	65	450585	54.85	ug/L	96
48) Dibenzofuran	11.89	168	2815041	48.70	ug/L	100
49) 2,4-Dinitrotoluene	11.95	165	760778	52.28	ug/L	99
50) Diethylphthalate	12.45	149	2268560	49.85	ug/L	100
51) Fluorene	12.57	166	2226196	46.23	ug/L	100
52) 4-Chlorophenyl-phenylether	12.57	204	1182572	46.77	ug/L	99
53) 4-Nitroaniline	12.66	138	443896	51.00	ug/L	96
54) 1,2-Diphenylhydrazine	12.88	77	2338834	50.53	ug/L	99
57) 4,6-Dinitro-2-methylphenol	12.76	198	504688	52.10	ug/L	97
58) n-Nitrosodiphenylamine	12.82	169	1658707	50.43	ug/L	100
59) 4-Bromophenyl-phenyl ether	13.53	248	718457	49.24	ug/L	99
60) Hexachlorobenzene	13.84	284	798273	47.50	ug/L	99
61) Pentachlorophenol	14.20	266	566228	54.73	ug/L	99
62) Phenanthrene	14.48	178	3355361	47.41	ug/L	100
63) Anthracene	14.57	178	3441160	47.96	ug/L	100
64) Carbazole	14.91	167	2313398	42.61	ug/L	100
65) Di-n-butylphthalate	15.73	149	3669851	49.33	ug/L	100
66) Fluoranthene	16.91	202	3723735	48.68	ug/L	99
68) Benzidine	17.16	184	60648	10.85	ug/L	100
69) Pyrene	17.36	202	3902286	48.54	ug/L	100
71) Butylbenzylphthalate	18.76	149	1731062	49.67	ug/L	99

(#) = qualifier out of range (m) = manual integration

5987.D LANL.M

Tue Oct 20 14:05:38 1998

HPMS7

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Data File : C:\HPCHEM\1\DATA\101698\5987.D

Acq On : 16 Oct 1998 16:49

Sample : 50PPM BNA STD S38-11

Misc : SOIL

MS Integration Params: rteint.p

Quant Time: Oct 20 14:05 1998

Vial: 10

Operator: MLS

Inst : HPMS 7

Multiplr: 1.00

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Sun Oct 18 11:51:56 1998

Response via : Initial Calibration

DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
72) Benzo(a)anthracene	19.82	228	3810940	47.92	ug/L	99
73) 3,3'-Dichlorobenzidine	19.78	252	684520	51.95	ug/L	99
74) Chrysene	19.90	228	2728801	49.49	ug/L	99
75) Bis(2-ethylhexyl)phthalate	19.99	149	2420076	48.90	ug/L	99
77) Di-n-octylphthalate	21.18	149	4175961	48.60	ug/L	100
78) Benzo(b)fluoranthene	22.05	252	4146904	49.13	ug/L	99
79) Benzo(k)fluoranthene	22.12	252	3836455	48.06	ug/L	99
80) Benzo(a)pyrene	22.87	252	3685095	49.17	ug/L	99
81) Indeno(1,2,3-cd)pyrene	26.60	276	4269308	50.08	ug/L	99
82) Dibenzo(a,h)anthracene	26.66	278	2936321	50.22	ug/L	99
83) Benzo(g,h,i)perylene	27.67	276	3683762	49.71	ug/L	99

(#) = qualifier out of range (m) = manual integration

5987.D LANL.M

Tue Oct 20 14:05:38 1998

HPMS7

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Data File : C:\HPCHEM\1\DATA\101698\5987.D
Acq On : 16 Oct 1998 16:49
Sample : 50PPM BNA STD S38-11
Misc : SOIL
MMS Integration Params: rteint.p
Quant Time: Oct 20 14:05 1998

Vial: 10
Operator: MLS
Inst : HPMS 7
Multiplr: 1.00

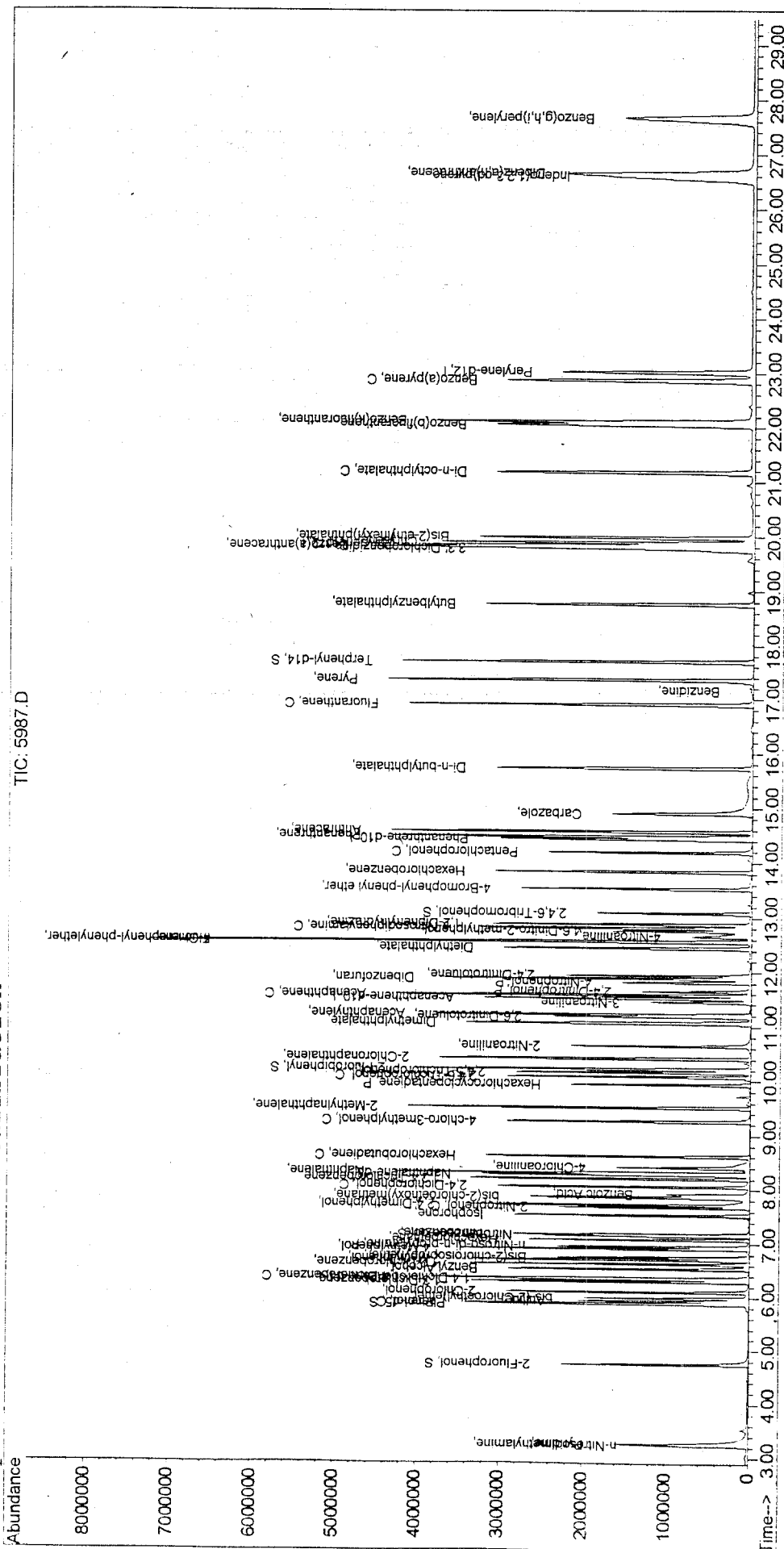
MS Integration Params: rteint.p

Quant Results File: LANL.RES

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Method      : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
Title       : M8270/625 LIST INITIAL CALIBRATION 10/13/98
Last Update : Sun Oct 18 11:51:56 1998
Response via : Initial Calibration

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GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\101698\5978.D

Tune Time : 16 Oct 1998 10:12

Daily Calibration File : C:\HPCHEM\1\DATA\101698\5979.D

2FP PHL NBZ FBP

DCB
646304NPT
2512490ANT
1386550

TBP TPH

PHN
2387410CRY
2375710PRY
2228080

File	Sample	Surrogate Recovery %				Internal Standard Responses		
5980.D	BLK 9/29/9	44	48	47	49	522252	1941269	1068519
		47	103			1835154	1833635	1879257
5981.D	LCS 9/29/9	46	50	50	57	493974	1893027	1045576
		69	99			1781381	1831472	1952681
5982.D	09-519-01	15*	18*	16*	20*	500781	1871512	1032649
		17*	25			1769365	1751183	1844611
5983.D	09-519-01M	12*	15*	14*	17*	499796	1884431	1043128
		17*	24			1768381	1816540	1958272
5984.D	09-519-01M	13*	16*	15*	19*	509764	1912658	1048811
		19*	25			1803846	1841097	1970586
5985.D	09-519-02S	45	50	49	53	574895	2123634	1176442
		58	91			2013634	2073062	2214644

t - fails 12hr time check * - fails criteria

Created: Tue Oct 20 14:29:23 1998 HPMS 7

GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\101698\5986.D

Tune Time : 16 Oct 1998 16:29

Daily Calibration File : C:\HPCHEM\1\DATA\101698\5987.D

2FP PHL NBZ FBP

DCB
661599NPT
2532650ANT
1405430

TBP TPH

PHN
2417740CRY
2424550PRY
2402890

File	Sample	Surrogate Recovery %				Internal Standard Responses		
5988.D	09-522-01	58 84	66 109	65	76	534255 1856896	1990181 1883595	1100639 1954367
5989.D	09-522-02	43 57	47 85	48	51	554103 1917943	2049483 1939372	1134085 2064240
5990.D	09-522-03	59 79	63 104	65	71	528991 1856785	1972629 1877076	1094041 1947810
5991.D	09-522-04	67 83	70 105	75	79	533211 1878190	1965634 1908269	1094570 1992365
5992.D	09-522-05	57 77	59 104	63	65	526025 1863146	1958738 1892504	1097179 1993987
5993.D	09-522-06	61 79	66 104	69	75	544962 1883985	1977555 1912780	1115803 2025569
5994.D	09-522-07	61 78	64 100	68	72	582865 2054572	2167095 2097930	1199848 2235472
5995.D	09-522-08	51 76	54 106	54	58	524944 1862421	1973887 1894901	1093408 1994131
5996.D	09-522-09	57 83	60 104	62	68	565904 1994903	2105639 2045198	1170780 2140986
5997.D	09-541-01	5* 13*	8* 19	5*	9*	525520 1871102	1941695 1900094	1102431 2038385
5998.D	09-541-02	36 74	45 92	39	57	563231 1989347	2067579 2062175	1152849 2176407
5999.D	09-541-03	36 71	41 90	39	46	547763 1981850	2047517 2054698	1150332 2138681
6000.D	09-541-04	12* 18*	13* 28	13*	15*	554039 1967549	2048186 2017198	1154844 2093147
6001.D	09-541-05	11* 19	12* 29	11*	13*	525754 1883171	1965770 1956896	1101425 1990086
6002.D	09-541-06	37 76	42 104	39	44	557951 1984973	2075963 2050367	1167295 2061867
6003.D	09-541-07	10* 17*	11* 26	11*	12*	548634 1930913	2021103 1978021	1131961 1940390

6004.D	09-541-08	35	38	38	41	595456	2202519	1237789
		67	89			2127184	2199929	2076913

6005.D	09-541-09	9*	10*	10*	12*	538688	2023923	1139974
		16*	24			1924839	2032014	1878310

t - fails 12hr time check * - fails criteria

Created: Tue Oct 20 14:35:55 1998 HPMS 7

Semivolatiles

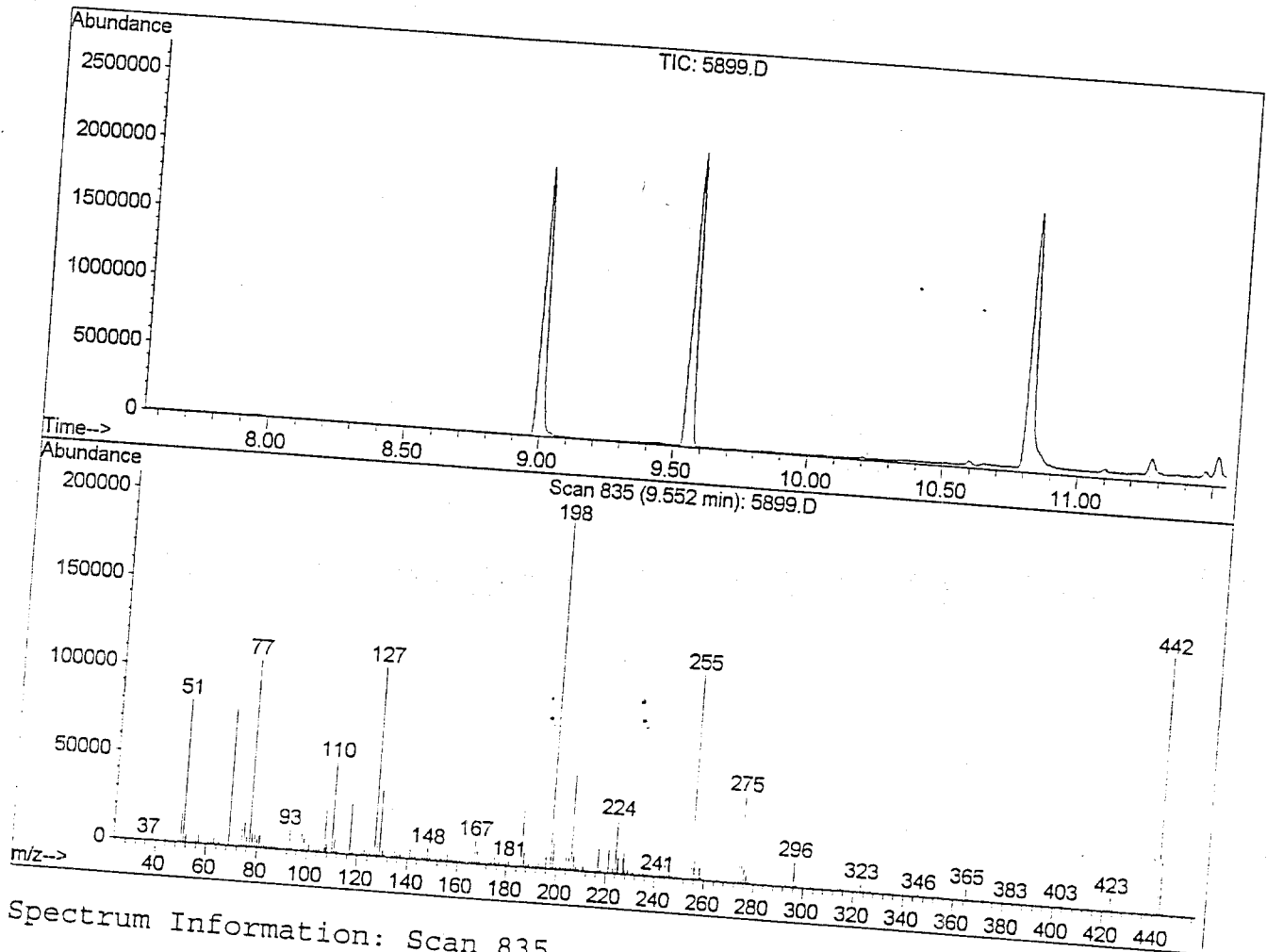
Raw QC Data

- GC/MS Instrument Performance Check (DFTPP)
- Tailing and breakdown data
- Blank chromatogram and quantitation report
- Laboratory Control Sample chromatogram and quantitation report
- Matrix Spike/Matrix Spike Duplicate chromatograms and quantitation reports (if not reported as samples)
- Instrument runlogs
- Extraction bench sheets

DFTPP

Data File : C:\HPCHEM\1\DATA\101398\5899.D
 Acq On : 13 Oct 1998 12:37 pm
 Sample : 50PPM DFTPP S37-32
 Misc :
 MS Integration Params: rteint.p
 Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
 Title : DFTPP

Vial: 1
 Operator: MLS
 Inst : HPMS
 Multiplr: 1.00



Spectrum Information: Scan 835

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	40.7	80816	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	38.7	76944	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	53.7	106728	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	198592	PASS
199	198	5	9	7.3	14505	PASS
275	198	10	30	24.6	48920	PASS
365	198	1	100	3.1	6228	PASS
441	443	0.01	100	68.6	20120	PASS
442	198	40	100	72.9	144832	PASS
443	442	17	23	20.2	29312	PASS

5899.D DFTPP.M

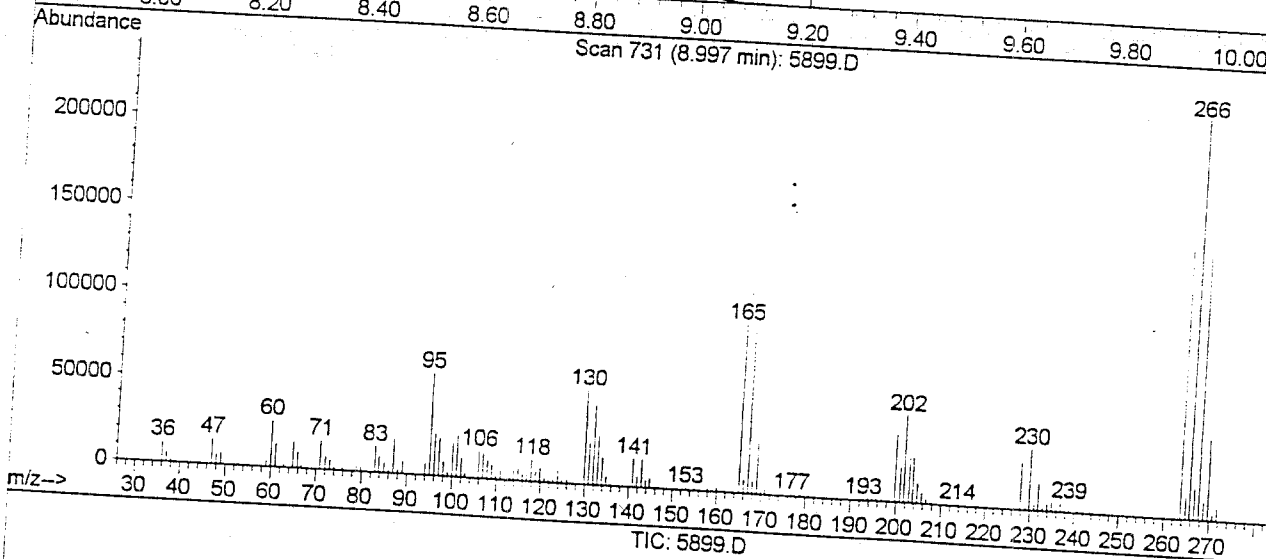
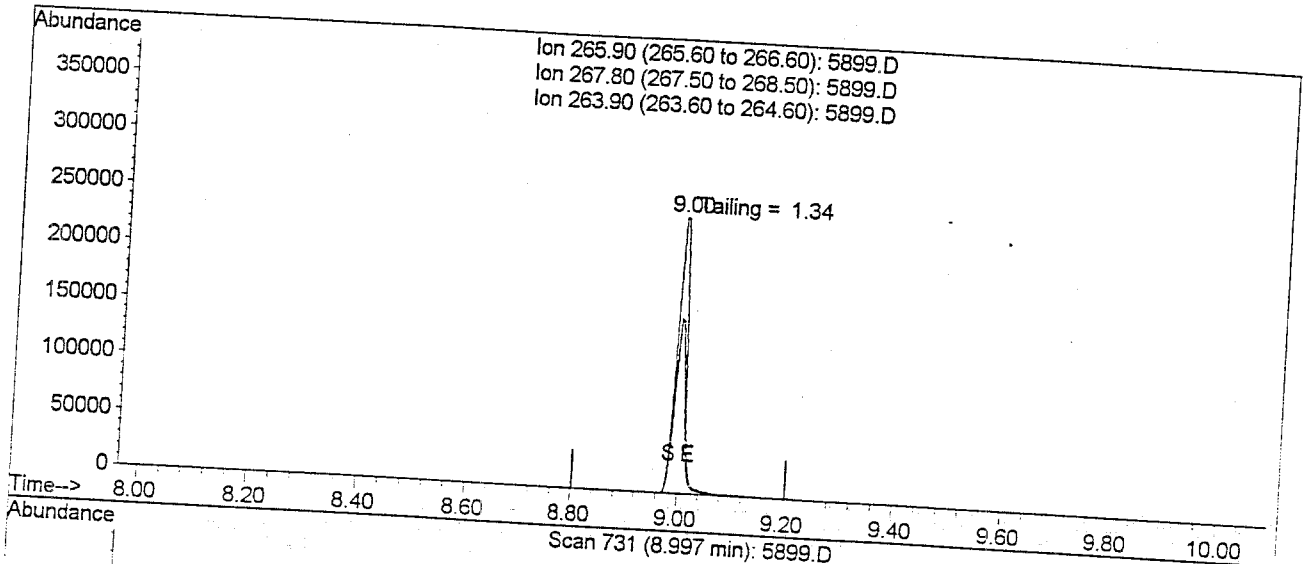
Tue Oct 13 13:19:04 1998 HPMS7

Quantitation Report

Data File : C:\HPCHEM\1\DATA\101398\5899.D
 Acq On : 13 Oct 1998 12:37 pm
 Sample : 50PPM DFTPP S37-32
 Misc :
 Quantitation Parameters: 50 to 99.98.p

Vial: 1
 Operator: MLS
 Inst : HPMS
 Multiplr: 1.00
 Quant Results File: temp.

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
 Title : DFTPP
 Last Update : Tue Oct 13 10:10:48 1998
 Response via : Single Level Calibration



(1) PENTACHLOROPHENOL

9.00min 70.34

response 324854

Ion	Exp%	Act%
265.90	100	100
267.80	0.00	62.85#
263.90	0.00	62.70#
0.00	0.00	0.00

5899.D DFTPP.M

Tue Oct 13 13:19:18 1998

HPMS7

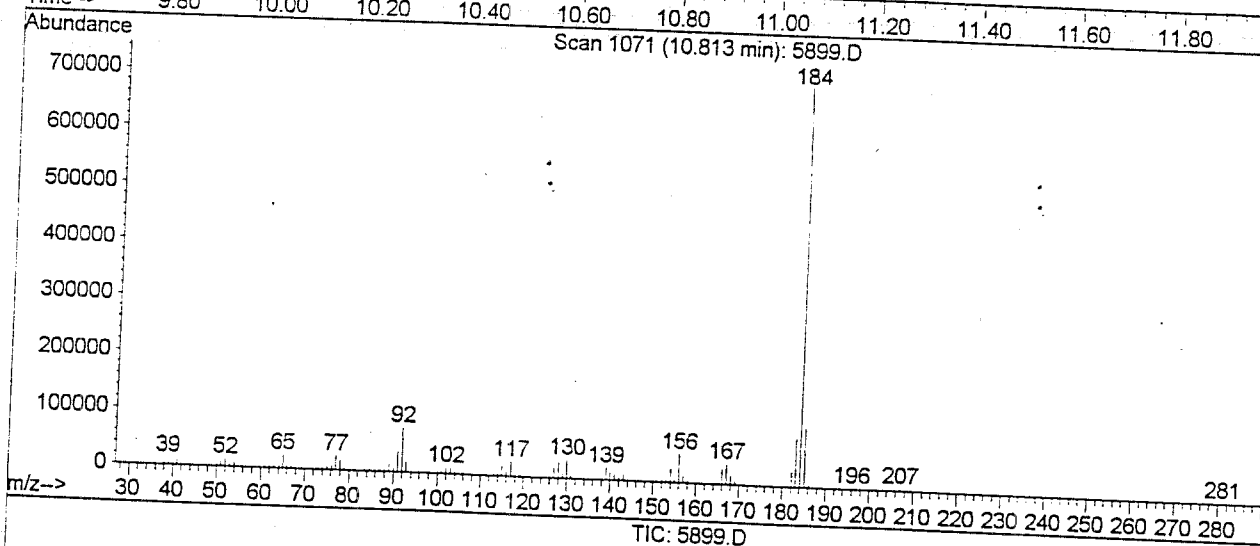
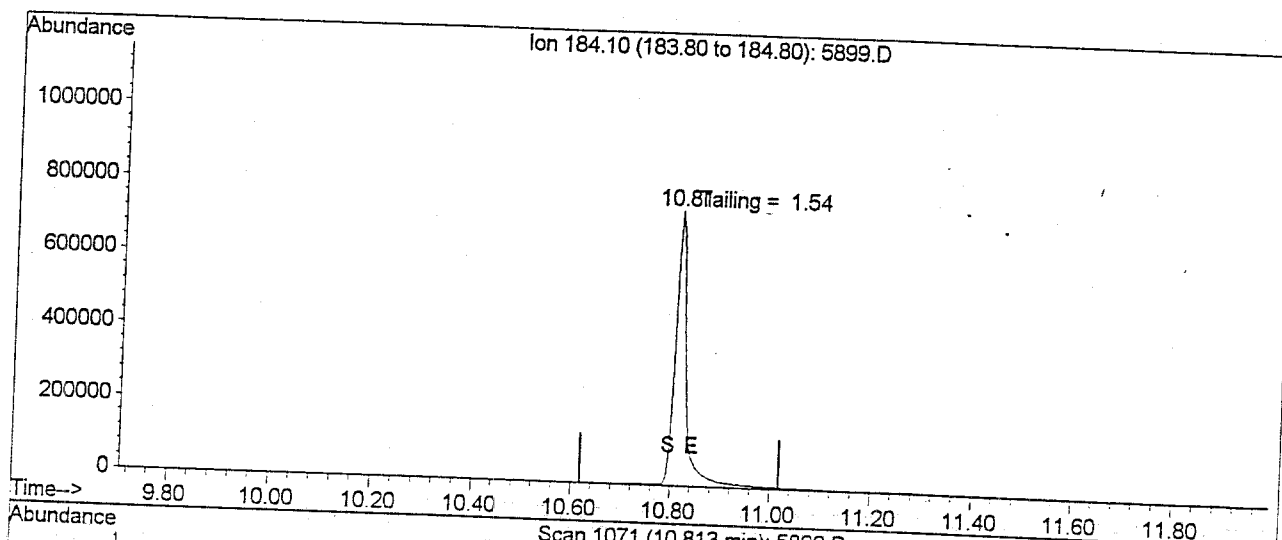
361

Quantitation Report

Data File : C:\HPCHEM\1\DATA\101398\5899.D
 Acq On : 13 Oct 1998 12:37 pm
 Sample : 50PPM DFTPP S37-32
 Misc :
 Quantitation Parameters: 50 to 1000 p

Vial: 1
 Operator: MLS
 Inst : HPMS 7
 Multiplr: 1.00
 Quant Results File: temp.r

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
 Title : DFTPP
 Last Update : Tue Oct 13 10:10:48 1998
 Response via : Single Level Calibration



(2) BENZIDINE

10.81min 54.23

response 1221113

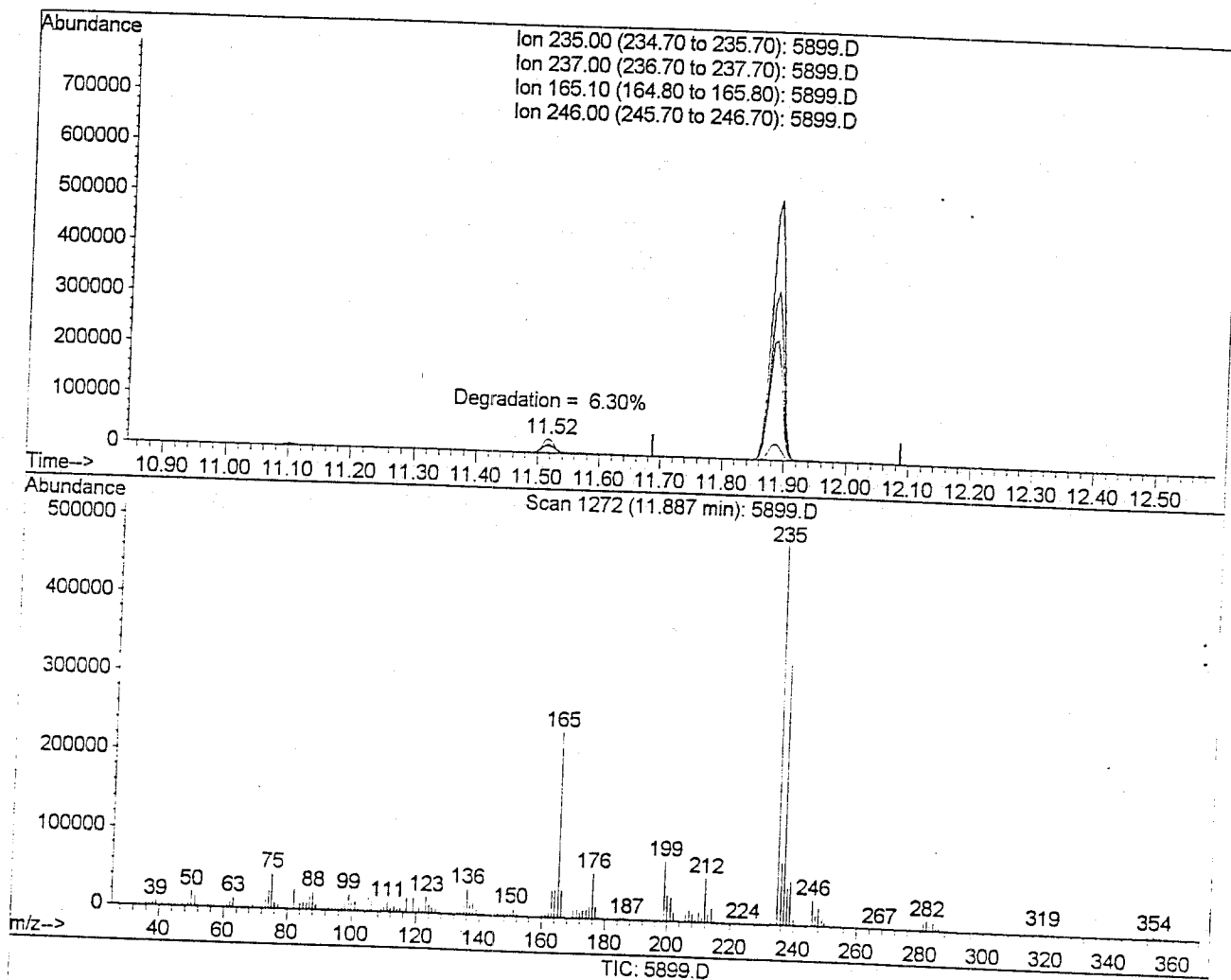
Ion	Exp%	Act%
184.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\HPCHEM\1\DATA\101398\5899.D
 Acq On : 13 Oct 1998 12:37 pm
 Sample : 50PPM DFTPP S37-32
 Misc :
 Quantitation Parameters: 50 to 998.p

Vial: 1
 Operator: MLS
 Inst : HPMS 7
 Multiplr: 1.00
 Quant Results File: temp.re

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
 Title : DFTPP
 Last Update : Tue Oct 13 10:10:48 1998
 Response via : Single Level Calibration



(3) DDT

11.89min 61.95

response 723745

Ion	Exp%	Act%
235.00	100	100
237.00	0.00	64.12#
165.10	0.10	47.05#
246.00	0.00	6.39#

DFTPP

Data File : C:\HPCHEM\1\DATA\101698\5978.D

Acq On : 16 Oct 1998 10:12 am

Sample : 50PPM DFTPP S37-32

Misc :

MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)

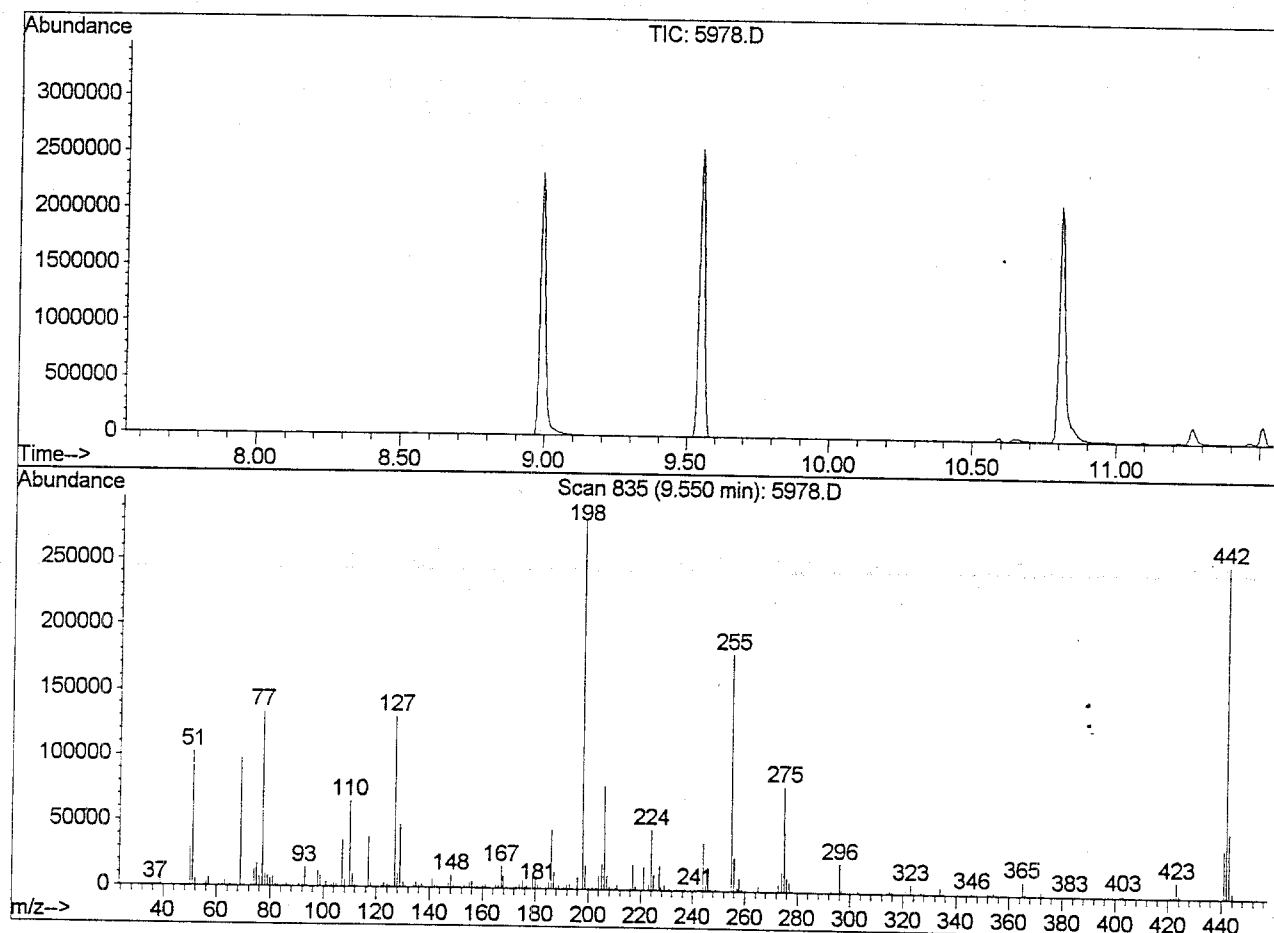
Title : DFTPP

Vial: 1

Operator: MLS

Inst : HPMS 7

Multiplr: 1.00



Spectrum Information: Scan 835

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	36.2	102632	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	34.5	97712	PASS
70	69	0.00	2	0.6	581	PASS
127	198	40	60	46.1	130560	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	283328	PASS
199	198	5	9	6.5	18304	PASS
275	198	10	30	28.4	80592	PASS
365	198	1	100	3.7	10502	PASS
441	443	0.01	100	74.5	36976	PASS
442	198	40	100	89.3	252992	PASS
443	442	17	23	19.6	49640	PASS

5978.D DFTPP.M

Fri Oct 16 10:33:13 1998 HPMS7

Quantitation Report

Data File : C:\HPCHEM\1\DATA\101698\5978.D

Vial: 1

Acq On : 16 Oct 1998 10:12 am

Operator: MLS

Sample : 50PPM DFTPP S37-32

Inst : HPMS 7

Misc :

Multiplr: 1.00

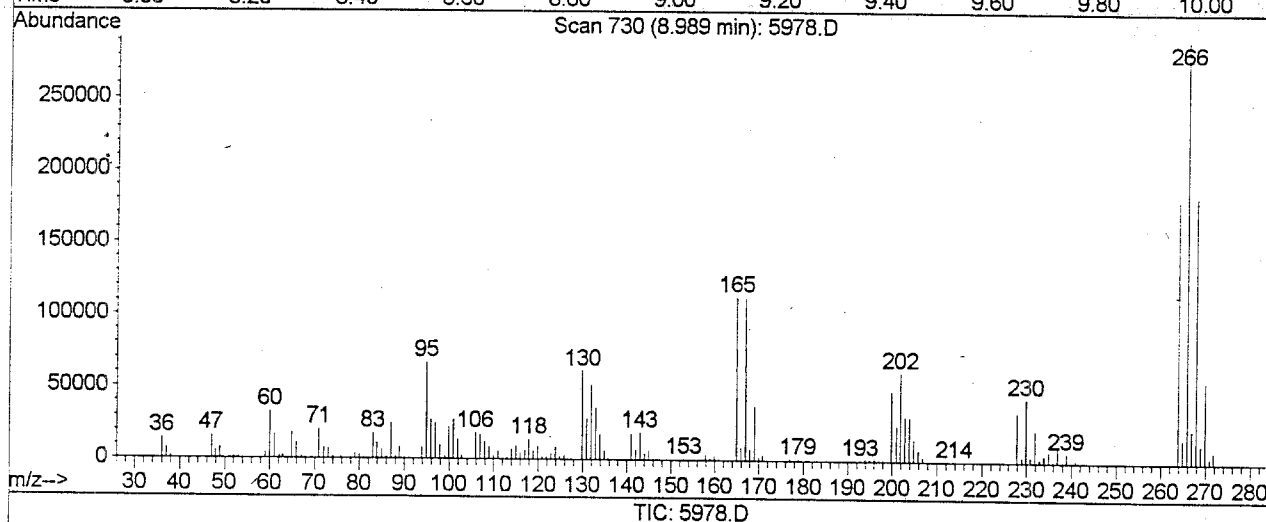
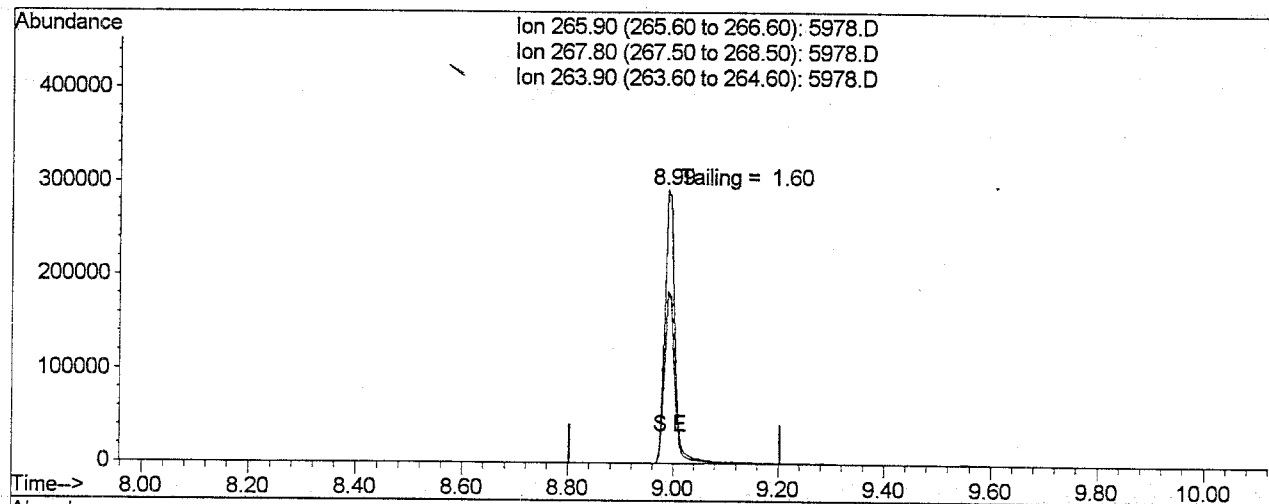
Quant Results File: temp.re

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)

Title : DFTPP

Last Update : Tue Oct 13 10:10:48 1998

Response via : Single Level Calibration



(1) PENTACHLOROPHENOL

8.99min 86.06

response 397489

Ion	Exp%	Act%
265.90	100	100
267.80	0.00	63.31#
263.90	0.00	62.64#
0.00	0.00	0.00

Quantitation Report

Data File : C:\HPCHEM\1\DATA\101698\5978.D

Vial: 1

Acq On : 16 Oct 1998 10:12 am

Operator: MLS

Sample : 50PPM DFTPP S37-32

Inst : HPMS 7

Misc :

Multiplr: 1.00

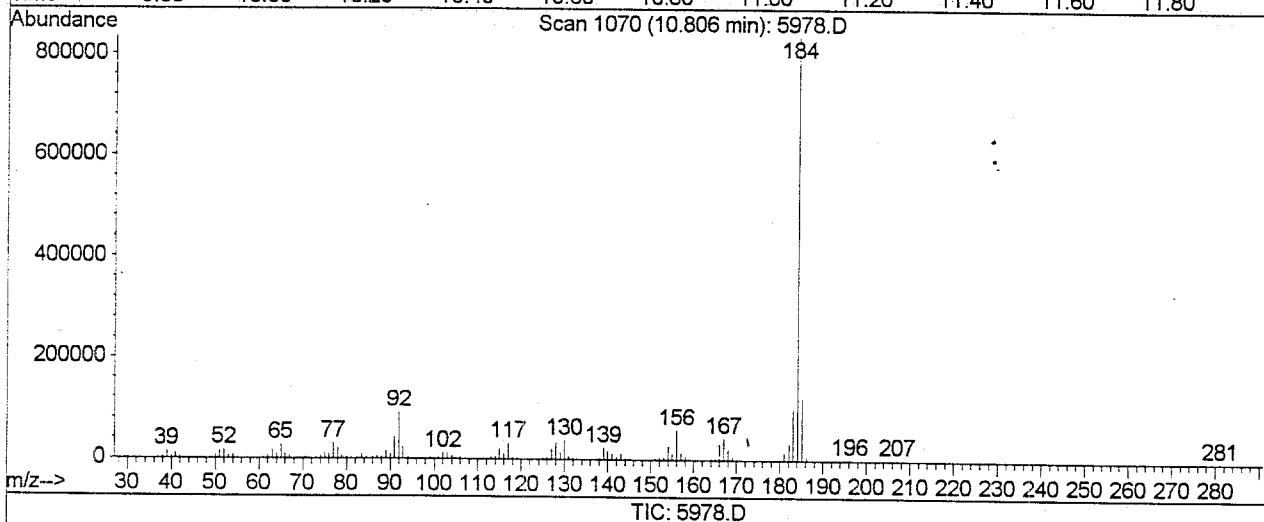
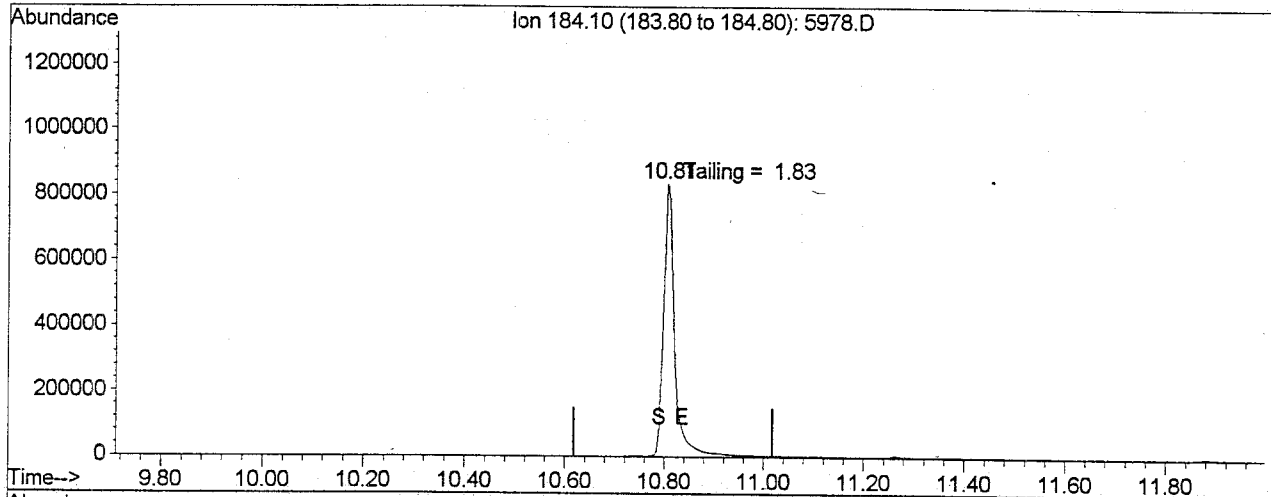
Quant Results File: temp.re

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)

Title : DFTPP

Last Update : Tue Oct 13 10:10:48 1998

Response via : Single Level Calibration



(2) BENZIDINE

10.81min 59.67

response 1343610

Ion	Exp%	Act%
184.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\HPCHEM\1\DATA\101698\5978.D

Vial: 1

Acq On : 16 Oct 1998 10:12 am

Operator: MLS

Sample : 50PPM DFTPP S37-32

Inst : HPMS 7

Misc :

Multiplr: 1.00

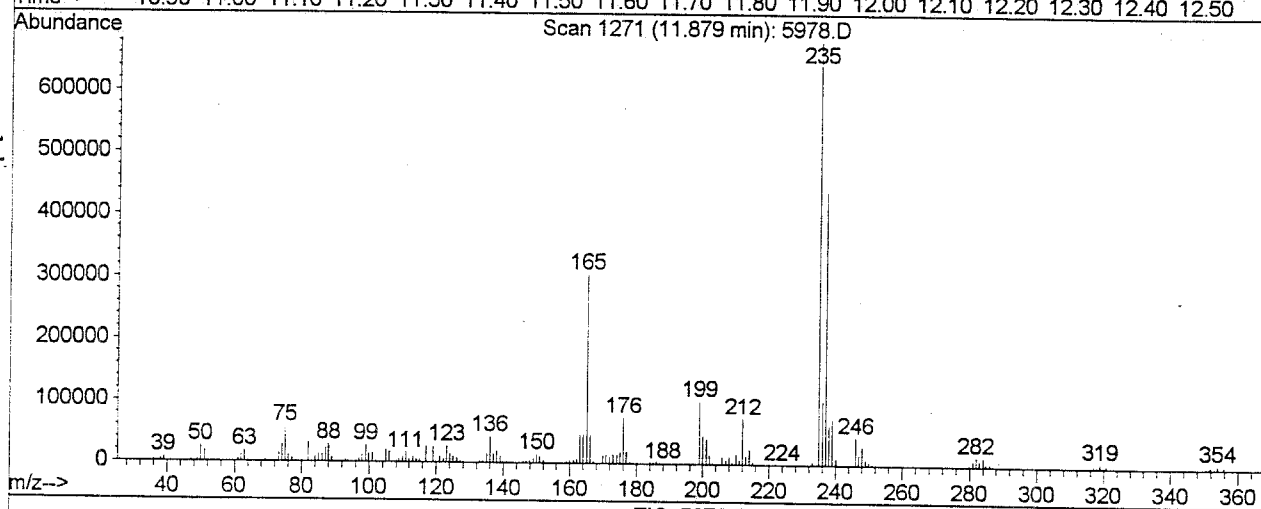
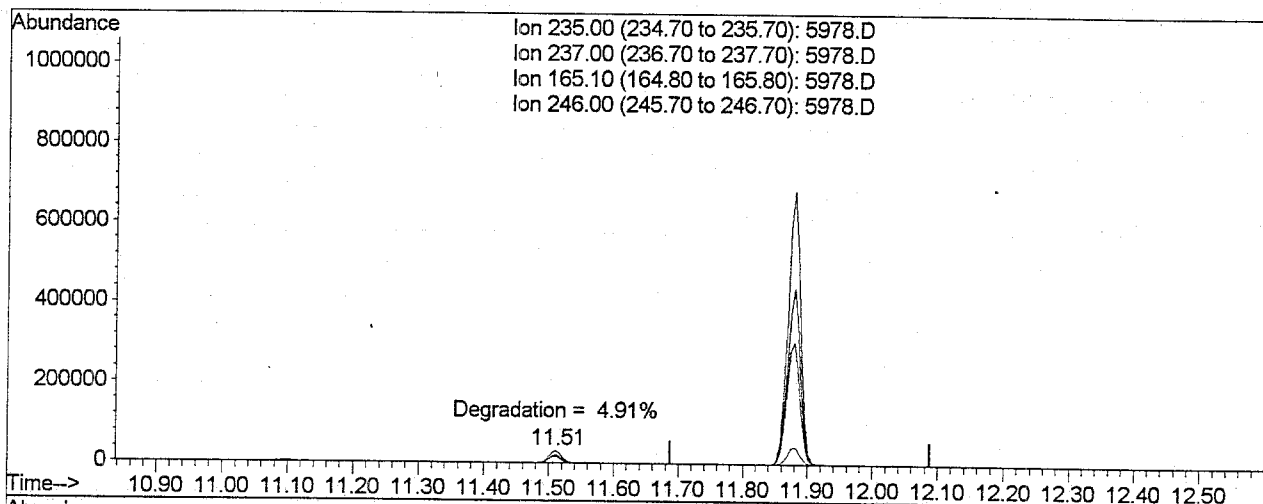
Quant Results File: temp.re

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)

Title : DFTPP

Last Update : Tue Oct 13 10:10:48 1998

Response via : Single Level Calibration



TIC: 5978.D

(3) DDT

11.88min 78.54

response 917541

Ion	Exp%	Act%
235.00	100	100
237.00	0.00	64.65#
165.10	0.10	47.31#
246.00	0.00	6.62#

DFTPP

Data File : C:\HPCHEM\1\DATA\101698\5986.D

Acq On : 16 Oct 1998 4:29 pm

Sample : 50PPM DFTPP S37-32

Misc : SOIL

MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)

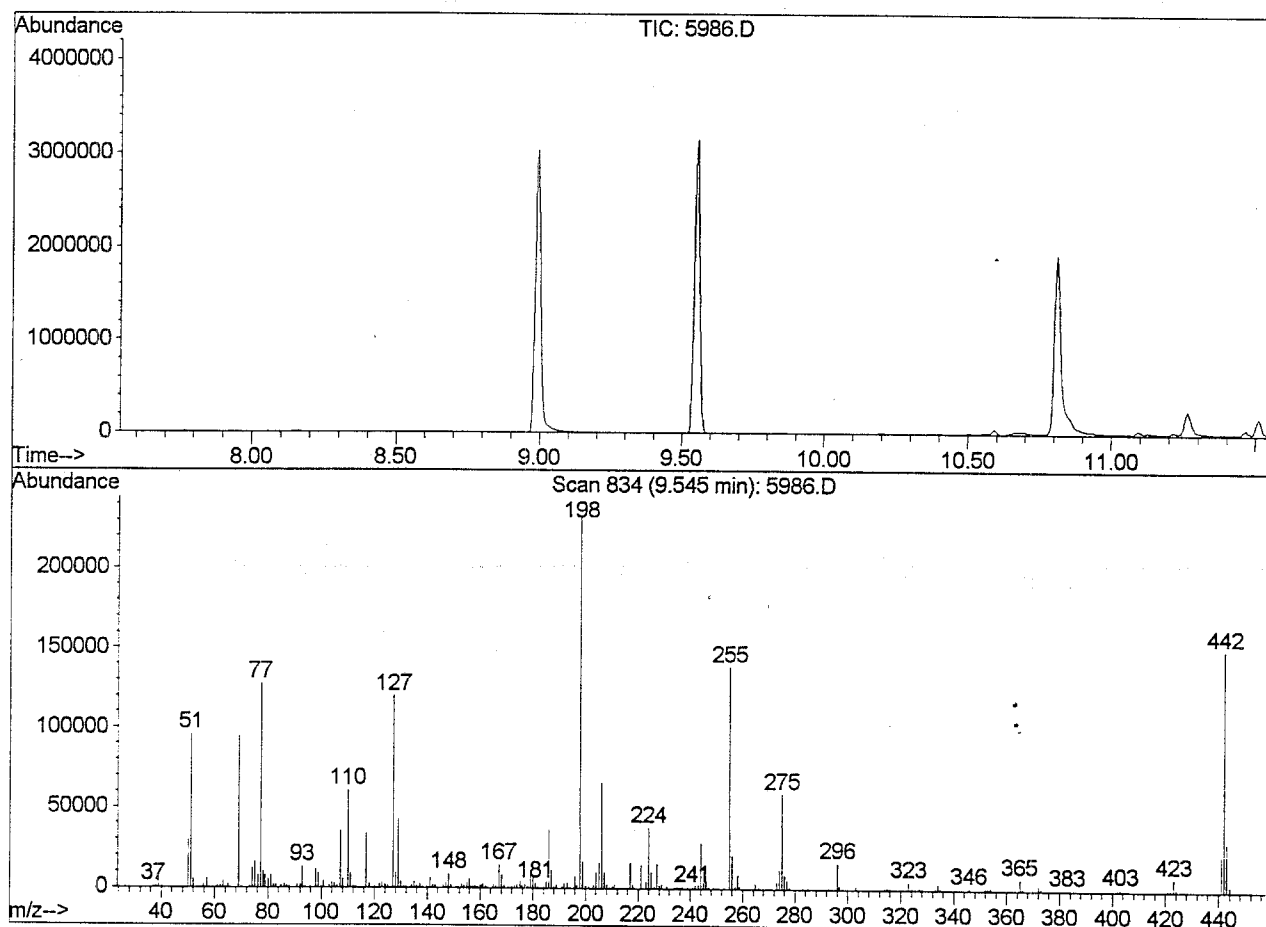
Title : DFTPP

Vial: 9

Operator: MLS

Inst : HPMS 7

Multiplr: 33.00



Spectrum Information: Scan 834

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.0	95360	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	40.5	94224	PASS
70	69	0.00	2	0.8	767	PASS
127	198	40	60	51.4	119776	PASS
197	198	0.00	1	0.9	2031	PASS
198	198	100	100	100.0	232832	PASS
199	198	5	9	7.1	16624	PASS
275	198	10	30	25.3	58912	PASS
365	198	1	100	2.9	6764	PASS
441	443	0.01	100	72.1	21624	PASS
442	198	40	100	64.3	149632	PASS
443	442	17	23	20.0	29976	PASS

5986.D DFTPP.M

Fri Oct 16 16:43:23 1998 HPMS7

Quantitation Report

Data File : C:\HPCHEM\1\DATA\101698\5986.D

Acq On : 16 Oct 1998 4:29 pm

Sample : 50PPM DFTPP S37-32

Misc : SOIL

Quantitation Parameters: 4rt2128.p

Vial: 9

Operator: MLS

Inst : HPMS 7

Multiplr: 33.00

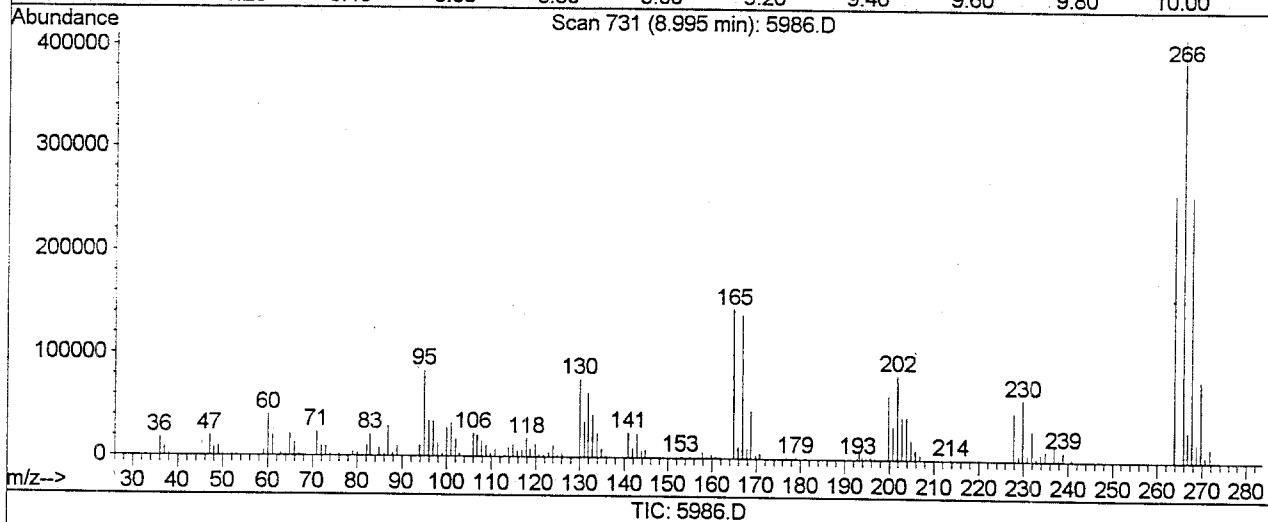
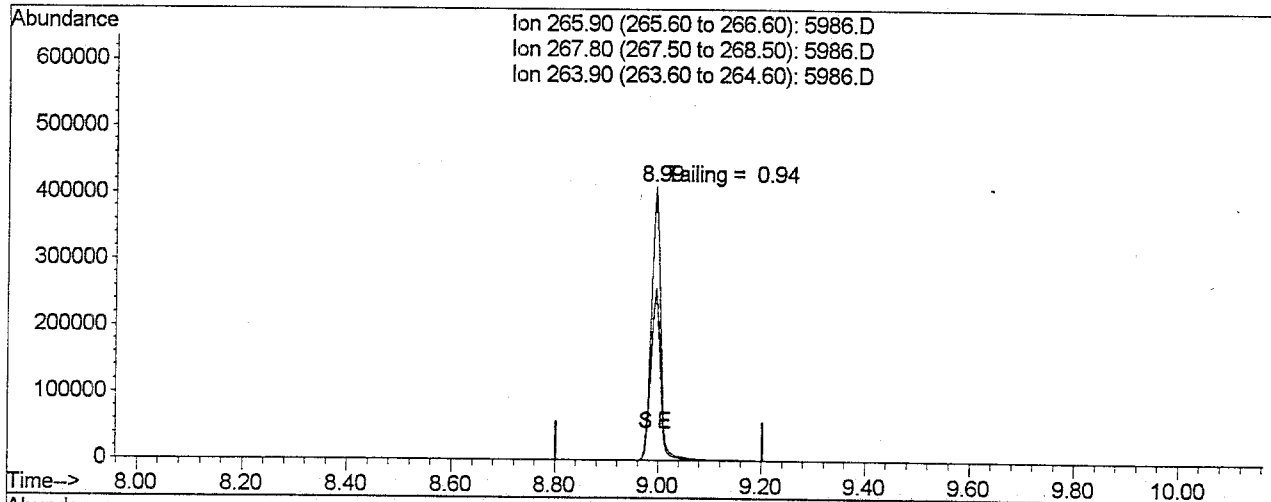
Quant Results File: temp.re

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)

Title : DFTPP

Last Update : Tue Oct 13 10:10:48 1998

Response via : Single Level Calibration



(1) PENTACHLOROPHENOL

8.99min 3839.43

response 537345

Ion	Exp%	Act%
265.90	100	100
267.80	0.00	63.44#
263.90	0.00	62.34#
0.00	0.00	0.00

Quantitation Report

Data File : C:\HPCHEM\1\DATA\101698\5986.D

Vial: 9

Acq On : 16 Oct 1998 4:29 pm

Operator: MLS

Sample : 50PPM DFTPP S37-32

Inst : HPMS 7

Misc : SOIL

Multiplr: 33.00

Quantitation Parameters: 411218.p

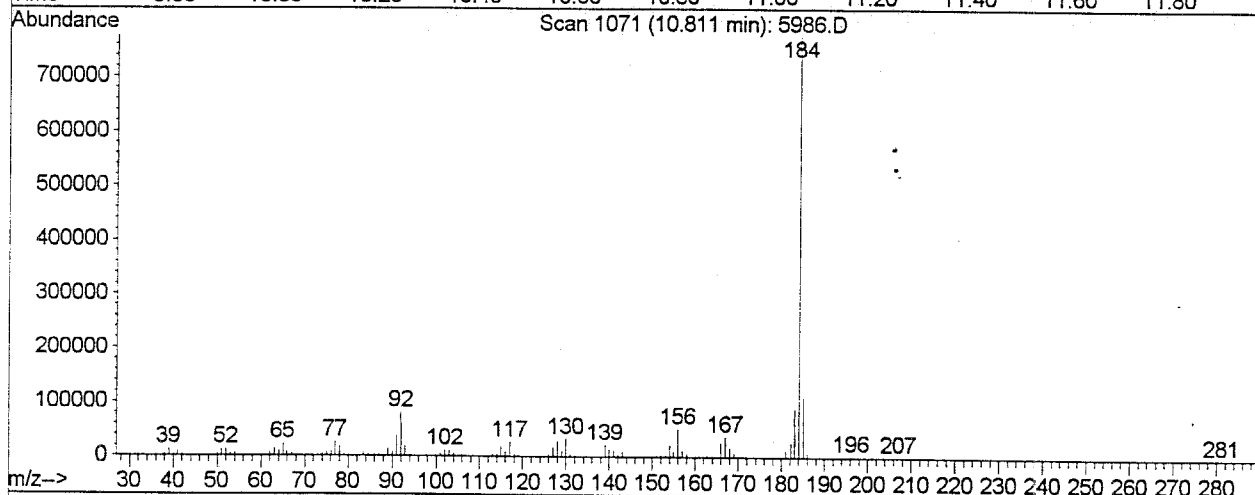
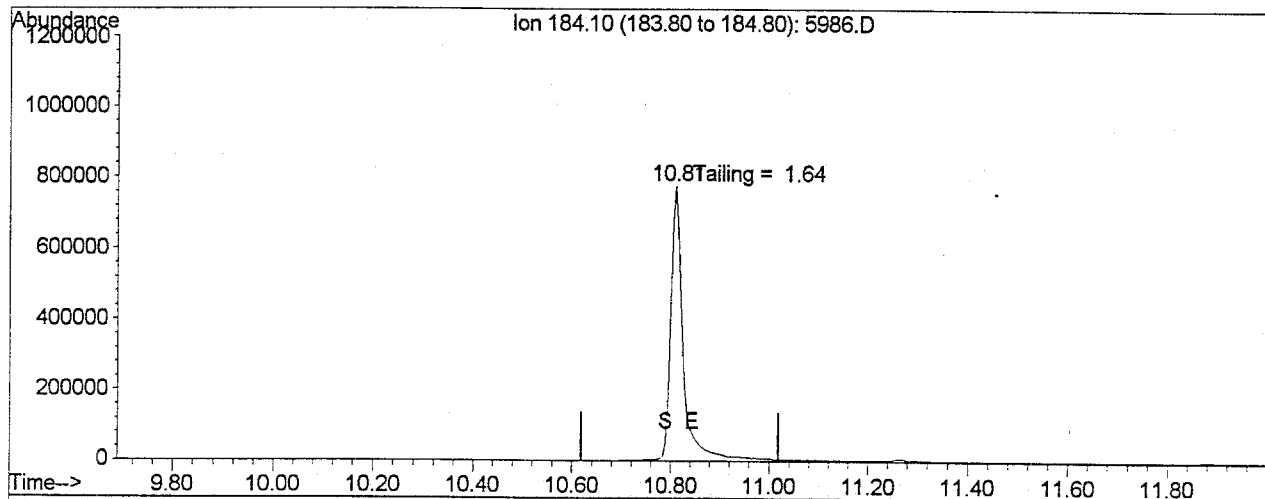
Quant Results File: temp.re

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)

Title : DFTPP

Last Update : Tue Oct 13 10:10:48 1998

Response via : Single Level Calibration



TIC: 5986.D

(2) BENZIDINE

10.81min 2024.50

response 1381407

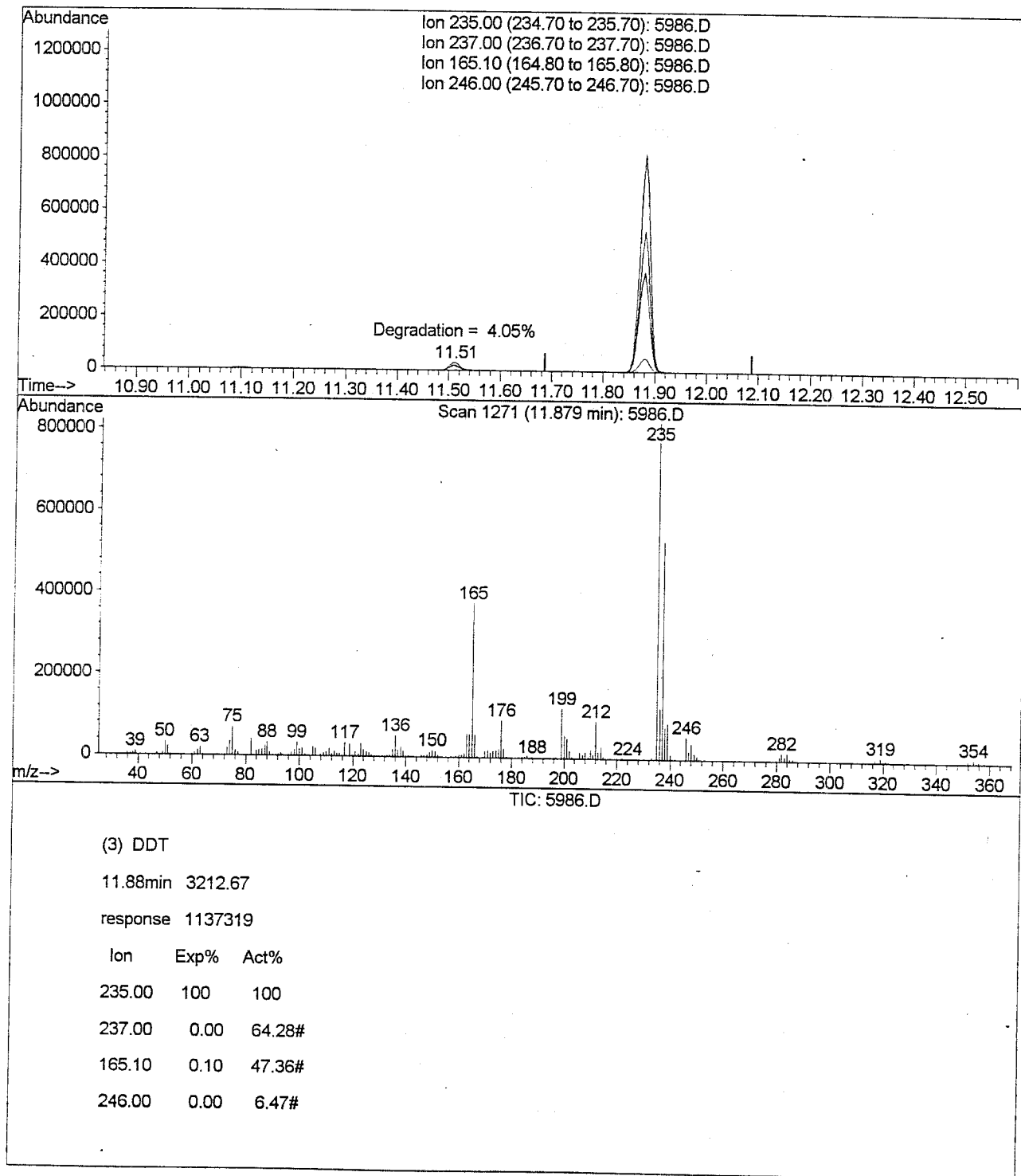
Ion	Exp%	Act%
184.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report

Data File : C:\HPCHEM\1\DATA\101698\5986.D
 Acq On : 16 Oct 1998 4:29 pm
 Sample : 50PPM DFTPP S37-32
 Misc : SOIL
 MSauntEgmatIontPaamS:4rtt008.p

Vial: 9
 Operator: MLS
 Inst : HPMS 7
 Multiplr: 33.00
 Quant Results File: temp.re

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
 Title : DFTPP
 Last Update : Tue Oct 13 10:10:48 1998
 Response via : Single Level Calibration



Data File : C:\HPCHEM\1\DATA\101698\5980.D

Acq On : 16 Oct 1998 11:13

Sample : BLK 9/29/98 V101P64 SOIL

Misc : SOIL

MS Integration Params: rteint.p

Quant Time: Oct 20 14:08 1998

Vial: 3

Operator: MLS

Inst : HPMS 7

Multiplr: 33.00

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Sun Oct 18 11:51:56 1998

Response via : Initial Calibration

DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.34	152	522252	40.00	ug/L	0.00
19) Naphthalene-d8	8.27	136	1941269	40.00	ug/L	0.00
34) Acenaphthene-d10	11.52	164	1068519	40.00	ug/L	0.00
56) Phenanthrene-d10	14.43	188	1835154	40.00	ug/L	-0.02
67) Chrysene-d12	19.83	240	1833635	40.00	ug/L	-0.02
76) Perylene-d12	23.00	264	1879257	40.00	ug/L	-0.03

System Monitoring Compounds

4) 2-Fluorophenol	4.74	112	889822	44.32	ug/L	0.00
Spiked Amount	100.000	Range	25 - 121	Recovery	=	44.32%
6) Phenol-d5	5.87	99	1053414	47.76	ug/L	0.00
Spiked Amount	100.000	Range	24 - 113	Recovery	=	47.76%
20) Nitrobenzene-d5	7.15	82	453300	23.55	ug/L	0.00
Spiked Amount	50.000	Range	23 - 120	Recovery	=	47.10%
38) 2-Fluorobiphenyl	10.22	172	883944	24.66	ug/L	0.00
Spiked Amount	50.000	Range	30 - 115	Recovery	=	49.32%
55) 2,4,6-Tribromophenol	13.08	330	275994	46.75	ug/L	-0.02
Spiked Amount	100.000	Range	19 - 122	Recovery	=	46.75%
70) Terphenyl-d14	17.70	244	2170524	51.61	ug/L	0.00
Spiked Amount	50.000	Range	18 - 137	Recovery	=	103.22%

Target Compounds

					Qvalue
2) Pyridine	0.00	79	0	N.D.	
3) n-Nitrosodimethylamine	0.00	74	0	N.D.	
5) Aniline	0.00	93	0	N.D.	
7) Phenol	5.88	94	1590	2.15 ug/L #	1
8) bis-(2-Chloroethyl) ether	0.00	93	0	N.D.	
9) 2-Chlorophenol	6.10	128	1437	2.40 ug/L #	81
10) 1,3-Dichlorobenzene	6.30	146	172	0.27 ug/L #	25
11) 1,4-Dichlorobenzene	6.37	146	1677	2.59 ug/L #	1
12) Benzyl Alcohol	0.00	108	0	N.D.	
13) 1,2-Dichlorobenzene	0.00	146	0	N.D.	
14) 2-Methylphenol	0.00	107	0	N.D.	
15) Bis(2-chloroisopropyl) ethe	0.00	45	0	N.D.	
16) 4-Methylphenol	0.00	107	0	N.D.	
17) n-Nitroso-di-n-propylamine	0.00	70	0	N.D.	
18) Hexachloroethane	0.00	117	0	N.D.	
21) Nitrobenzene	7.14	77	1577	2.78 ug/L #	37
22) Isophorone	7.54	82	918	0.96 ug/L #	64
23) 2-Nitrophenol	0.00	139	0	N.D.	
24) 2,4-Dimethylphenol	0.00	122	0	N.D.	

(#) = qualifier out of range (m) = manual integration

5980.D LANL.M

Tue Oct 20 14:08:19 1998

HPMS7

Data File : C:\HPCHEM\1\DATA\101698\5980.D
 Acq On : 16 Oct 1998 11:13
 Sample : BLK 9/29/98 V101P64 SOIL
 Misc : SOIL
 MS Integration Params: rteint.p
 Quant Time: Oct 20 14:08 1998

Vial: 3
 Operator: MLS
 Inst : HPMS 7
 Multiplr: 33.00

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
 Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
 Last Update : Sun Oct 18 11:51:56 1998
 Response via : Initial Calibration
 DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25) bis(2-chloroethoxy)methane	0.00	93	0	N.D.	
26) Benzoic Acid	0.00	122	0	N.D.	
27) 2,4-Dichlorophenol	0.00	162	0	N.D.	
28) 1,2,4-Trichlorobenzene	8.20	180	162	0.32 ug/L #	67
29) Naphthalene	8.30	128	870	0.58 ug/L #	68
30) 4-Chloroaniline	0.00	127	0	N.D.	
31) Hexachlorobutadiene	0.00	225	0	N.D.	
32) 4-chloro-3methylphenol	0.00	107	0	N.D.	
33) 2-Methylnaphthalene	0.00	142	0	N.D.	
35) Hexachlorocyclopentadiene	0.00	237	0	N.D.	
36) 2,4,6-Trichlorophenol	0.00	196	0	N.D.	
37) 2,4,5-Trichlorophenol	0.00	196	0	N.D.	
39) 2-Chloronaphthalene	0.00	162	0	N.D.	
40) 2-Nitroaniline	0.00	65	0	N.D.	
41) Dimethylphthalate	0.00	163	0	N.D.	
42) Acenaphthylene	0.00	152	0	N.D.	
43) 2,6-Dinitrotoluene	0.00	165	0	N.D.	
44) 3-Nitroaniline	0.00	138	0	N.D.	
45) Acenaphthene	11.51	154	3301	3.61 ug/L #	7
46) 2,4-Dinitrophenol	0.00	184	0	N.D.	
47) 4-Nitrophenol	0.00	65	0	N.D.	
48) Dibenzofuran	0.00	168	0	N.D.	
49) 2,4-Dinitrotoluene	0.00	165	0	N.D.	
50) Diethylphthalate	12.43	149	2598	2.48 ug/L #	58
51) Fluorene	0.00	166	0	N.D.	
52) 4-Chlorophenyl-phenylether	0.00	204	0	N.D.	
53) 4-Nitroaniline	0.00	138	0	N.D.	
54) 1,2-Diphenylhydrazine	12.93	77	1137	1.07 ug/L #	78
57) 4,6-Dinitro-2-methylphenol	0.00	198	0	N.D.	
58) n-Nitrosodiphenylamine	0.00	169	0	N.D.	
59) 4-Bromophenyl-phenyl ether	0.00	248	0	N.D.	
60) Hexachlorobenzene	0.00	284	0	N.D.	
61) Pentachlorophenol	0.00	266	0	N.D.	
62) Phenanthrene	14.47	178	893	0.55 ug/L #	1
63) Anthracene	0.00	178	0	N.D.	
64) Carbazole	14.92	167	180	0.14 ug/L #	63
65) Di-n-butylphthalate	15.72	149	12270	7.17 ug/L #	88
66) Fluoranthene	16.91	202	756	0.43 ug/L #	62
68) Benzidine	0.00	184	0	N.D.	
69) Pyrene	17.35	202	737	0.40 ug/L #	56
71) Butylbenzylphthalate	18.75	149	2311	2.89 ug/L #	37

(#) = qualifier out of range (m) = manual integration

5980.D LANL.M

Tue Oct 20 14:08:21 1998

HPMS7

Page 2

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Data File : C:\HPCHEM\1\DATA\101698\5980.D

Acq On : 16 Oct 1998 11:13

Sample : BLK 9/29/98 V101P64 SOIL

Misc : SOIL

MS Integration Params: rteint.p

Quant Time: Oct 20 14:08 1998

Vial: 3

Operator: MLS

Inst : HPMS 7

Multiplr: 33.00

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Sun Oct 18 11:51:56 1998

Response via : Initial Calibration

DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
72) Benzo(a)anthracene	19.83	228	5648	3.10	ug/L #	64
73) 3,3'-Dichlorobenzidine	19.78	252	187	0.62	ug/L #	1
74) Chrysene	19.89	228	1681	1.33	ug/L #	50
75) Bis(2-ethylhexyl)phthalate	19.98	149	13984	12.33	ug/L #	95
77) Di-n-octylphthalate	21.18	149	834	0.41	ug/L #	6
78) Benzo(b)fluoranthene	22.04	252	1606	0.80	ug/L #	74
79) Benzo(k)fluoranthene	22.11	252	2314	1.22	ug/L #	71
80) Benzo(a)pyrene	22.85	252	1515	0.85	ug/L #	53
81) Indeno(1,2,3-cd)pyrene	26.62	276	1344	0.67	ug/L #	57
82) Dibenz(a,h)anthracene	26.68	278	373	0.27	ug/L #	53
83) Benzo(g,h,i)perylene	27.64	276	2406	1.37	ug/L #	47

(#) = qualifier out of range (m) = manual integration

5980.D LANL.M

Tue Oct 20 14:08:21 1998

HPMS7

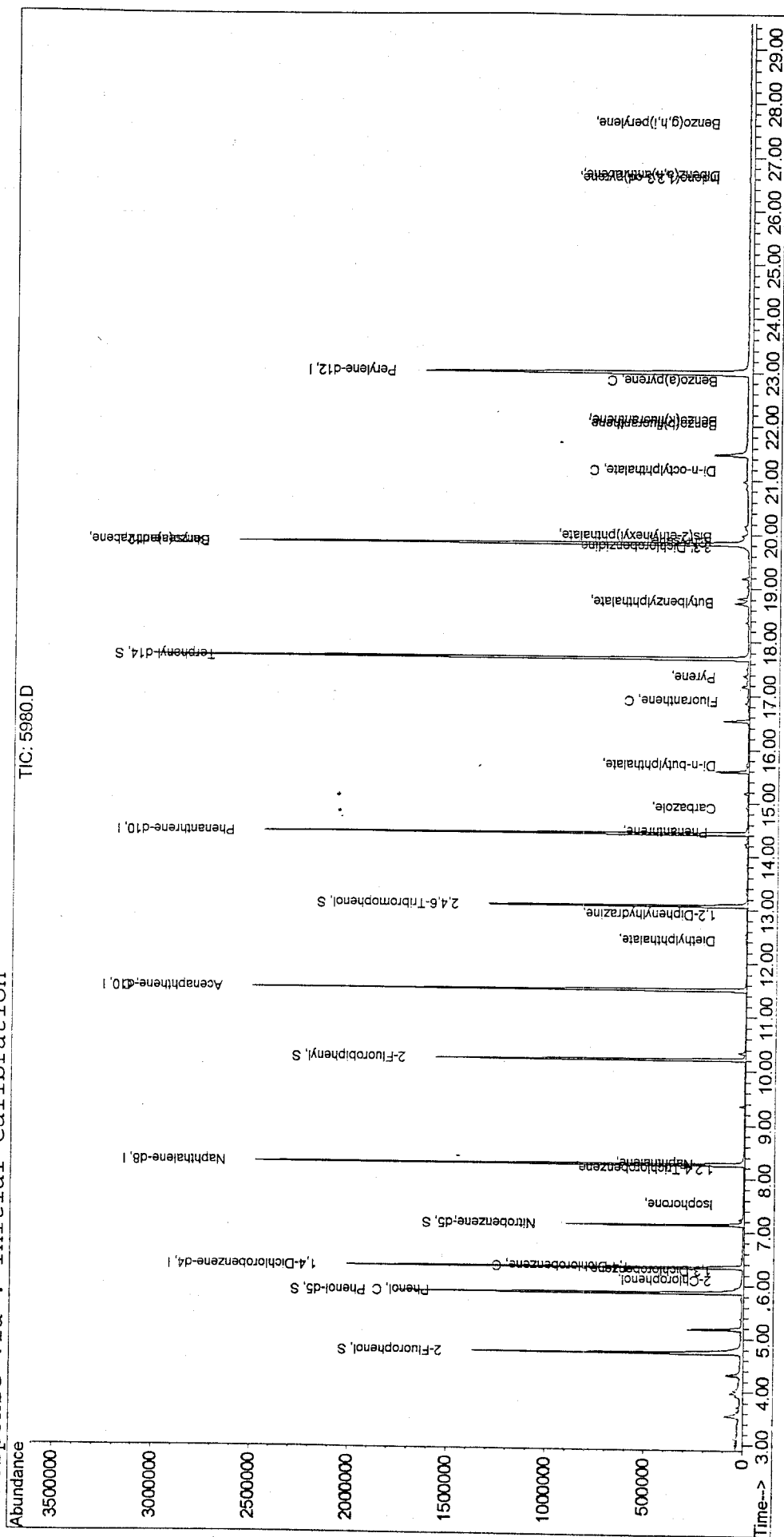
Page 3

Quantitation Report

Data File : C:\HPCHEM\1\DATA\101698\5980.D
 Acq On : 16 Oct 1998 11:13
 Sample : BLK 9/29/98 V101P64 SOIL
 Misc : SOIL
 MS Integration Params: rteint.p
 Quant Time: Oct 20 14:08 1998

Vial: 3
 Operator: MLS
 Inst : HPMS 7
 Multiplr: 33.00
 Quant Results File: LANL.RES

Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
 Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
 Last Update : Sun Oct 18 11:51:56 1998
 Response via : Initial Calibration



374A

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\101698\5980.D

Acq On : 16 Oct 1998 11:13

Sample : BLK 9/29/98 V101P64 SOIL

Misc : SOIL

MS Integration Params: LSCINT.P

Vial: 3

Operator: MLS

Inst : HPMS 7

Multiplr: 33.00

Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Smoothing : OFF

Filtering: 5

Sampling : 1

Min Area: 1 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	3.549	112	122	131	rBV4	71793	234328	3.93%	0.493%
2	4.036	206	210	228	rVB2	34105	88026	1.47%	0.185%
3	4.325	258	264	278	rVB	68164	157905	2.65%	0.332%
4	4.741	333	342	370	rBV	1354350	2889228	48.40%	6.082%
5	5.185	418	425	438	rBV	270001	482627	8.08%	1.016%
6	5.874	548	554	568	rBV	1746660	2748513	46.04%	5.786%
7	6.339	635	641	656	rBV	1996338	3146519	52.71%	6.624%
8	7.145	785	792	805	rBV	891993	1318606	22.09%	2.776%
9	8.272	995	1003	1019	rBV	2470713	3901830	65.36%	8.214%
10	10.217	1358	1367	1384	rBV	1561960	2605100	43.64%	5.484%
11	11.515	1600	1610	1626	rBV	2500362	4405494	73.80%	9.274%
12	13.080	1895	1903	1918	rBV	1301723	2409436	40.36%	5.072%
13	14.427	2145	2155	2170	rBV2	2446671	4827425	80.86%	10.162%
14	15.591	2364	2373	2388	rBV	163067	310602	5.20%	0.654%
15	16.537	2542	2550	2558	rVB	125431	250587	4.20%	0.528%
16	17.178	2662	2670	2677	rBV6	33729	78380	1.31%	0.165%
17	17.701	2757	2768	2783	rBV	3000965	5969778	100.00%	12.567%
18	18.727	2950	2960	2971	rBV6	68289	191463	3.21%	0.403%
19	18.812	2971	2976	2984	rVV3	51031	93616	1.57%	0.197%
20	19.186	3039	3046	3054	rVB2	38546	74132	1.24%	0.156%
21	19.827	3139	3166	3189	rBV2	2578713	5707526	95.61%	12.015%
22	21.473	3464	3474	3491	rBV	164155	483019	8.09%	1.017%
23	23.001	3745	3760	3777	rBV2	1623654	5128905	85.91%	10.797%

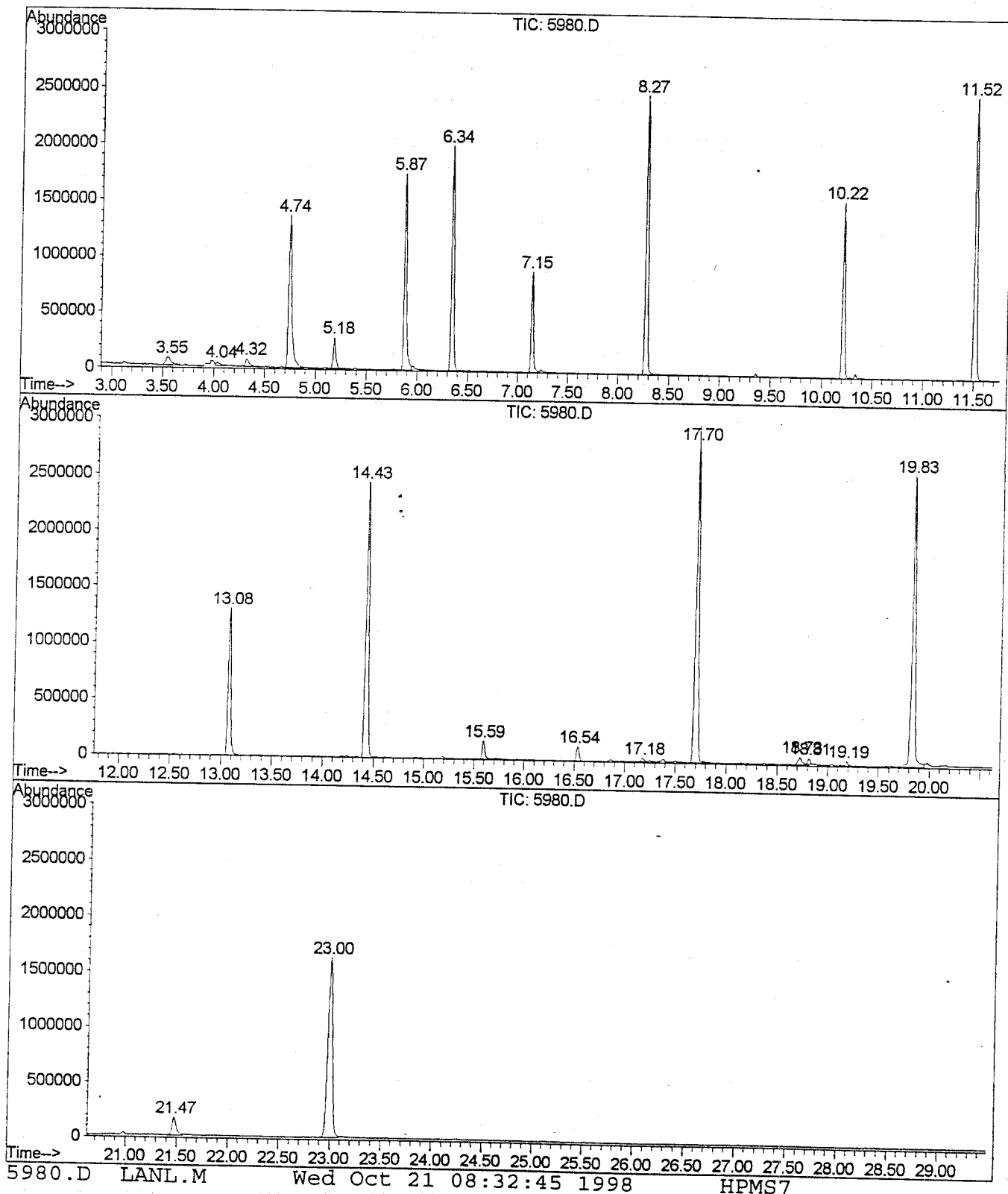
Sum of corrected areas: 47503045

5980.D LANL.M

Wed Oct 21 08:32:44 1998 HPMS7

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\101698\5980.D
 Operator : MLS
 Acquired : 16 Oct 1998 11:13 using AcqMethod BNA
 Instrument : HPMS 7
 Sample Name: BLK 9/29/98 V101P64 SOIL
 Misc Info : SOIL
 Vial Number: 3
 Quant File : LANL.RES (RTE Integrator)



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\101698\5980.D
Acq On : 16 Oct 1998 11:13
Sample : BLK 9/29/98 V101P64 SOIL
Misc : SOIL
MS Integration Params: LSCINT.P

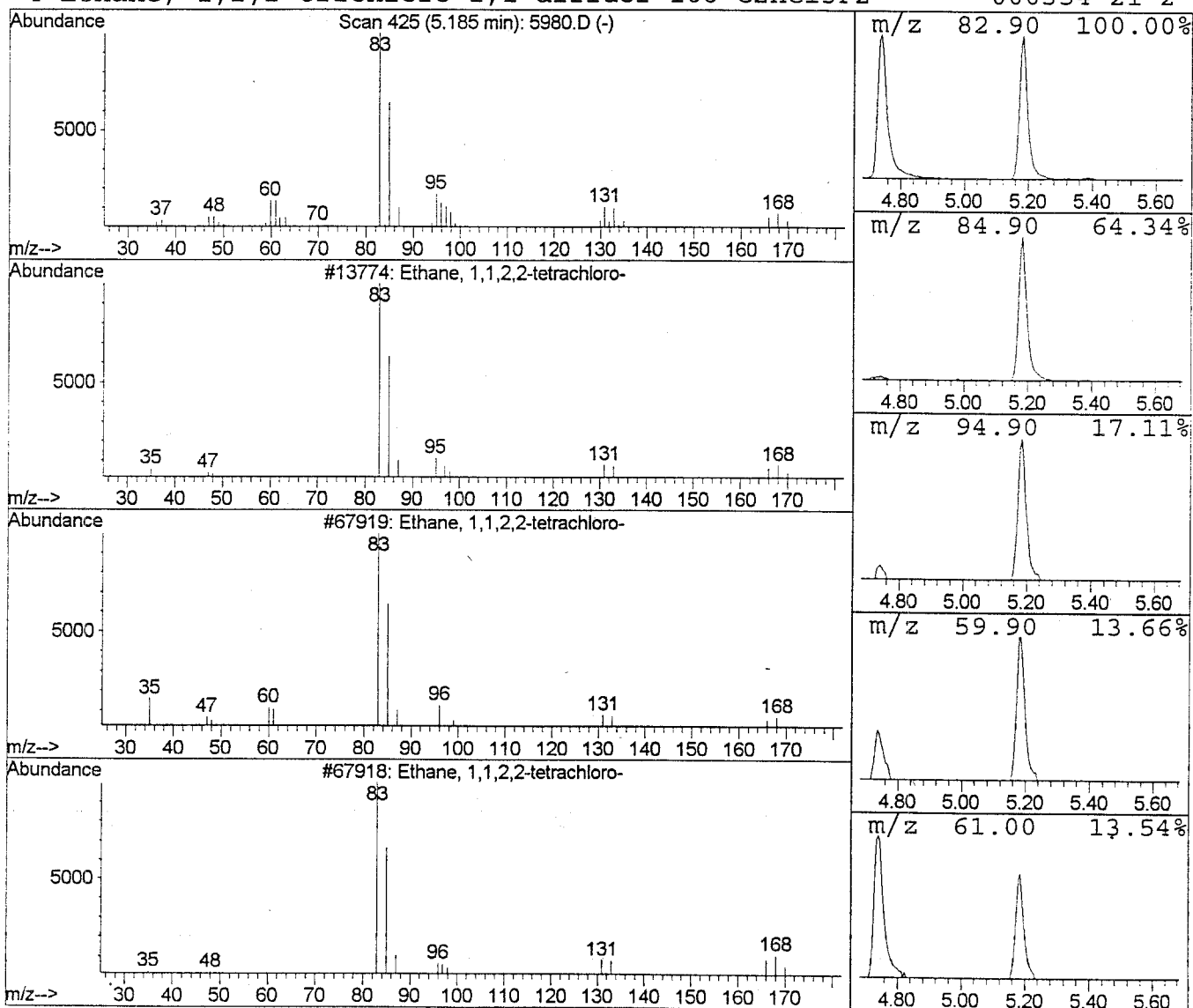
Vial: 3
Operator: MLS
Inst : HPMS 7
Multiplr: 33.00

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98
Library : C:\DATABASE\NBS75K.L

Peak Number 1 Ethane, 1,1,2,2-tetrachloro- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.18	202.47 ug/L	482627	1,4-Dichlorobenzene-d4	6.34

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qua
1	5	Ethane, 1,1,2,2-tetrachloro-	166	C2H2Cl4	000079-34-5	94
2		Ethane, 1,1,2,2-tetrachloro-	166	C2H2Cl4	000079-34-5	91
3		Ethane, 1,1,2,2-tetrachloro-	166	C2H2Cl4	000079-34-5	90
4		Ethane, 1,2,2-trichloro-1,1-difluor	168	C2HCl3F2	000354-21-2	62



Tentatively Identified Compound (LSC) summary

Operator ID: MLS Date Acquired: 16 Oct 1998 11:13
 Data File: C:\HPCHEM\1\DATA\101698\5980.D
 Name: BLK 9/29/98 V101P64 SOIL
 Misc: SOIL
 Method: C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
 Title: M8270/625 LIST INITIAL CALIBRATION 10/13/98
 Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISCon
Ethane, 1,1,2,2-tetr	5.18	202.5	ug/L	482627	ISTD01	6.34	3146520	40.
5980.D LANL.M	Wed Oct 21 08:32:47 1998				HPMS7			

Data File : C:\HPCHEM\1\DATA\101698\5981.D

Vial: 4

Acq On : 16 Oct 1998 11:51

Operator: MLS

Sample : LCS 9/29/98 V101P64 SOIL

Inst : HPMS 7

Misc : SOIL

Multiplr: 33.00

MS Integration Params: rteint.p

Quant Time: Oct 20 14:08 1998

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Sun Oct 18 11:51:56 1998

Response via : Initial Calibration

DataAcq Meth : BNA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.34	152	493974	40.00	ug/L	0.00
19) Naphthalene-d8	8.27	136	1893027	40.00	ug/L	-0.01
34) Acenaphthene-d10	11.51	164	1045576	40.00	ug/L	-0.01
56) Phenanthrene-d10	14.43	188	1781381	40.00	ug/L	-0.01
67) Chrysene-d12	19.84	240	1831472	40.00	ug/L	-0.01
76) Perylene-d12	23.01	264	1952681	40.00	ug/L	-0.02

System Monitoring Compounds

4) 2-Fluorophenol	4.74	112	871908	45.92	ug/L	0.00
Spiked Amount	100.000	Range	25 - 121	Recovery	=	45.92%
6) Phenol-d5	5.87	99	1040922	49.90	ug/L	-0.01
Spiked Amount	100.000	Range	24 - 113	Recovery	=	49.90%
20) Nitrobenzene-d5	7.14	82	473545	25.23	ug/L	0.00
Spiked Amount	50.000	Range	23 - 120	Recovery	=	50.46%
38) 2-Fluorobiphenyl	10.22	172	998439	28.47	ug/L	-0.01
Spiked Amount	50.000	Range	30 - 115	Recovery	=	56.94%
55) 2,4,6-Tribromophenol	13.09	330	397267	68.77	ug/L	-0.01
Spiked Amount	100.000	Range	19 - 122	Recovery	=	68.77%
70) Terphenyl-d14	17.70	244	2088888	49.73	ug/L	0.00
Spiked Amount	50.000	Range	18 - 137	Recovery	=	99.46%

Target Compounds

						Qvalue
2) Pyridine	3.26	79	113211	178.88	ug/L	98
3) n-Nitrosodimethylamine	3.23	74	272180	735.61	ug/L	97
5) Aniline	5.93	93	361239	564.53	ug/L	96
7) Phenol	5.89	94	591252	846.79	ug/L	96
8) bis-(2-Chloroethyl)ether	5.99	93	426468	808.66	ug/L	99
9) 2-Chlorophenol	6.10	128	455562	805.18	ug/L	99
10) 1,3-Dichlorobenzene	6.30	146	477097	789.15	ug/L	100
11) 1,4-Dichlorobenzene	6.36	146	489204	798.99	ug/L	99
12) Benzyl Alcohol	6.53	108	280294	781.11	ug/L	96
13) 1,2-Dichlorobenzene	6.63	146	470526	821.78	ug/L	98
14) 2-Methylphenol	6.70	107	356087	864.58	ug/L	96
15) Bis(2-chloroisopropyl)ethe	6.74	45	464674	799.75	ug/L	96
16) 4-Methylphenol	6.90	107	536102	900.16	ug/L	100
17) n-Nitroso-di-n-propylamine	6.94	70	315196	832.65	ug/L	99
18) Hexachloroethane	7.08	117	190027	825.08	ug/L	99
21) Nitrobenzene	7.17	77	480635	867.56	ug/L	100
22) Isophorone	7.52	82	951397	1017.40	ug/L	100
23) 2-Nitrophenol	7.67	139	272068	854.93	ug/L	97
24) 2,4-Dimethylphenol	7.72	122	431901	946.31	ug/L	99

(#)=qualifier out of range (m)=manual integration

5981.D LANL.M

Tue Oct 20 14:08:42 1998

HPMS7

Page 1

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Data File : C:\HPCHEM\1\DATA\101698\5981.D

Acq On : 16 Oct 1998 11:51

Sample : LCS 9/29/98 V101P64 SOIL

Misc : SOIL

MS Integration Params: rteint.p

Quant Time: Oct 20 14:08 1998

Vial: 4

Operator: MLS

Inst : HPMS 7

Multiplr: 33.00

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Sun Oct 18 11:51:56 1998

Response via : Initial Calibration

DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25) bis(2-chloroethoxy)methane	7.86	93	508503	876.03	ug/L	99
26) Benzoic Acid	7.86	122	249818	776.42	ug/L	94
27) 2,4-Dichlorophenol	8.06	162	398571	903.70	ug/L	99
28) 1,2,4-Trichlorobenzene	8.20	180	406720	817.66	ug/L	99
29) Naphthalene	8.30	128	1298991	881.62	ug/L	99
30) 4-Chloroaniline	8.41	127	476335	932.58	ug/L	99
31) Hexachlorobutadiene	8.61	225	239248	827.57	ug/L	99
32) 4-chloro-3methylphenol	9.25	107	463911	1057.71	ug/L	100
33) 2-Methylnaphthalene	9.51	142	879668	896.39	ug/L	100
35) Hexachlorocyclopentadiene	9.94	237	200690	815.13	ug/L	99
36) 2,4,6-Trichlorophenol	10.08	196	325312	963.38	ug/L	99
37) 2,4,5-Trichlorophenol	10.16	196	365972	1010.50	ug/L	98
39) 2-Chloronaphthalene	10.41	162	866887	922.75	ug/L	99
40) 2-Nitroaniline	10.64	65	320806	1080.83	ug/L	97
41) Dimethylphthalate	11.05	163	1191748	1154.82	ug/L	100
42) Acenaphthylene	11.22	152	1511611	1034.06	ug/L	100
43) 2,6-Dinitrotoluene	11.17	165	282742	1142.34	ug/L	99
44) 3-Nitroaniline	11.43	138	320770	1775.24	ug/L	99
45) Acenaphthene	11.57	154	871184	972.99	ug/L	100
46) 2,4-Dinitrophenol	11.64	184	165807	1074.59	ug/L	97
47) 4-Nitrophenol	11.81	65	275966	1490.08	ug/L	94
48) Dibenzofuran	11.88	168	1359137	1043.00	ug/L	98
49) 2,4-Dinitrotoluene	11.94	165	444429	1354.76	ug/L	99
50) Diethylphthalate	12.44	149	1336750	1303.08	ug/L	100
51) Fluorene	12.57	166	1071537	987.03	ug/L	99
52) 4-Chlorophenyl-phenylether	12.56	204	537503	943.02	ug/L	98
53) 4-Nitroaniline	12.65	138	318454	1623.06	ug/L	94
54) 1,2-Diphenylhydrazine	12.88	77	1257273	1204.87	ug/L	99
57) 4,6-Dinitro-2-methylphenol	12.75	198	299709	1385.65	ug/L	97
58) n-Nitrosodiphenylamine	12.81	169	961965	1310.04	ug/L	99
59) 4-Bromophenyl-phenyl ether	13.53	248	327690	1005.81	ug/L	98
60) Hexachlorobenzene	13.84	284	434069	1156.81	ug/L	97
61) Pentachlorophenol	14.19	266	313708	1358.08	ug/L	100
62) Phenanthrene	14.48	178	2085459	1319.78	ug/L	100
63) Anthracene	14.57	178	2128341	1328.54	ug/L	100
64) Carbazole	14.90	167	2041240	1683.76	ug/L	100
65) Di-n-butylphthalate	15.73	149	2572244	1548.67	ug/L	100
66) Fluoranthene	16.90	202	2533363	1483.35	ug/L	100
68) Benzidine	0.00	184	0	N.D.		
69) Pyrene	17.35	202	2629204	1428.76	ug/L	100
71) Butylbenzylphthalate	18.76	149	1247613	1563.93	ug/L	99

(#) = qualifier out of range (m) = manual integration

5981.D LANL.M

Tue Oct 20 14:08:43 1998

HPMS7

Page 2

Data File : C:\HPCHEM\1\DATA\101698\5981.D

Acq On : 16 Oct 1998 11:51

Sample : LCS 9/29/98 V101P64 SOIL

Misc : SOIL

MS Integration Params: rteint.p

Quant Time: Oct 20 14:08 1998

Vial: 4

Operator: MLS

Inst : HPMS 7

Multiplr: 33.00

Quant Results File: LANL.RES

Quant Method : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)

Title : M8270/625 LIST INITIAL CALIBRATION 10/13/98

Last Update : Sun Oct 18 11:51:56 1998

Response via : Initial Calibration

DataAcq Meth : BNA

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
72) Benzo(a)anthracene	19.81	228	2538949	1394.59	ug/L	100
73) 3,3'-Dichlorobenzidine	19.77	252	595056	1972.72	ug/L	99
74) Chrysene	19.89	228	2469371	1956.40	ug/L	99
75) Bis(2-ethylhexyl)phthalate	19.98	149	1719674	1517.89	ug/L	99
77) Di-n-octylphthalate	21.18	149	2832663	1338.71	ug/L	100
78) Benzo(b)fluoranthene	22.04	252	2511021	1208.15	ug/L	99
79) Benzo(k)fluoranthene	22.10	252	2561037	1302.69	ug/L	100
80) Benzo(a)pyrene	22.86	252	2302462	1247.49	ug/L	99
81) Indeno(1,2,3-cd)pyrene	26.57	276	2541692	1210.64	ug/L	99
82) Dibenz(a,h)anthracene	26.63	278	2115828	1469.39	ug/L	100
83) Benzo(g,h,i)perylene	27.64	276	2179039	1194.18	ug/L	100

(#) = qualifier out of range (m) = manual integration

5981.D LANL.M

Tue Oct 20 14:08:44 1998

HPMS7

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Quantitation Report

Data File : C:\HPCHEM\1\DATA\101698\5981.D
Acq On : 16 Oct 1998 11:51
Sample : LCS 9/29/98 V101P64 SOIL
Misc : SOIL

Vial: 4
Operator: MLS
Inst : HPMS 7
Multiplr: 33.00

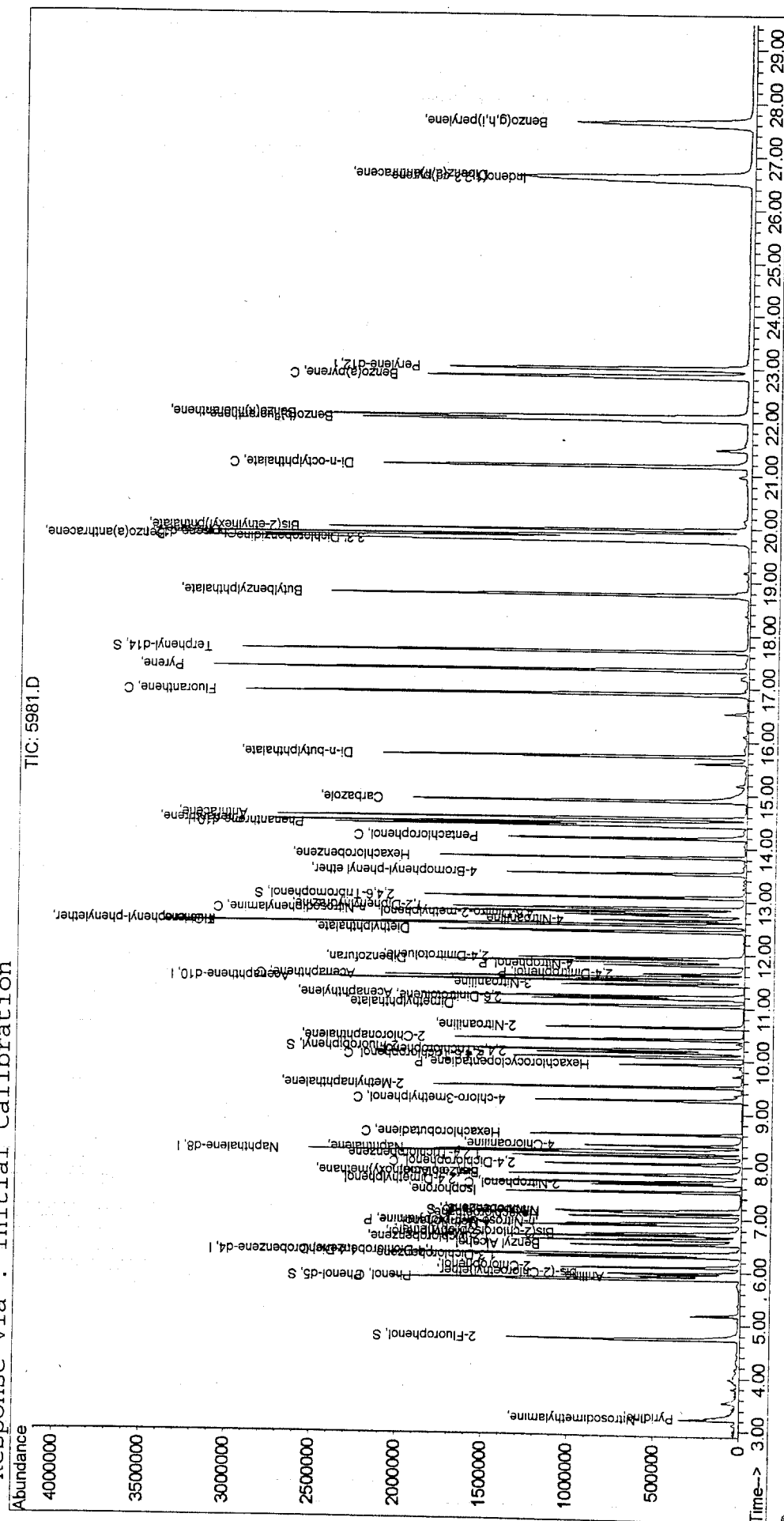
MS Integration Params: rreint.p
Quant Time: Oct 20 14:08 1998

Quant Results File: LANL.RES

```

Method      : C:\HPCHEM\1\METHODS\LANL.M (RTE Integrator)
Title       : M8270/625 LIST INITIAL CALIBRATION 10/13/98
Last Update : Sun Oct 18 11:51:56 1998
Response via : Initial Calibration

```



Pesticides

Sample Data

Target Compound List results - See section 1.0
(c) (laboratory report)

- Chromatograms and GC integration reports for each sample for both primary and confirmation columns

Data File : C:\HPCHEM\1\DATA\093098\403.D\ECD1A.CH Vial: 15
 Acq On : 9-30-98 21:45:15 Operator: ECL
 Sample : 09-522-01 Inst : GC/MS Ins
 Misc : SOIL Multiplr: 0.33
 IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\093098\403.D\ECD2B.CH Vial: 15
 Acq On : 9-30-98 22:10:02 Operator: ECL
 Sample : 09-522-01 Inst : GC/MS Ins
 Misc : SOIL Multiplr: 0.33
 IntFile : autoint2.e

Quant Time: Oct 1 8:39 1998 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
 Title : PEST
 Last Update : Tue Sep 22 08:33:05 1998
 Response via : Initial Calibration
 DataAcq Meth : 8081.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L

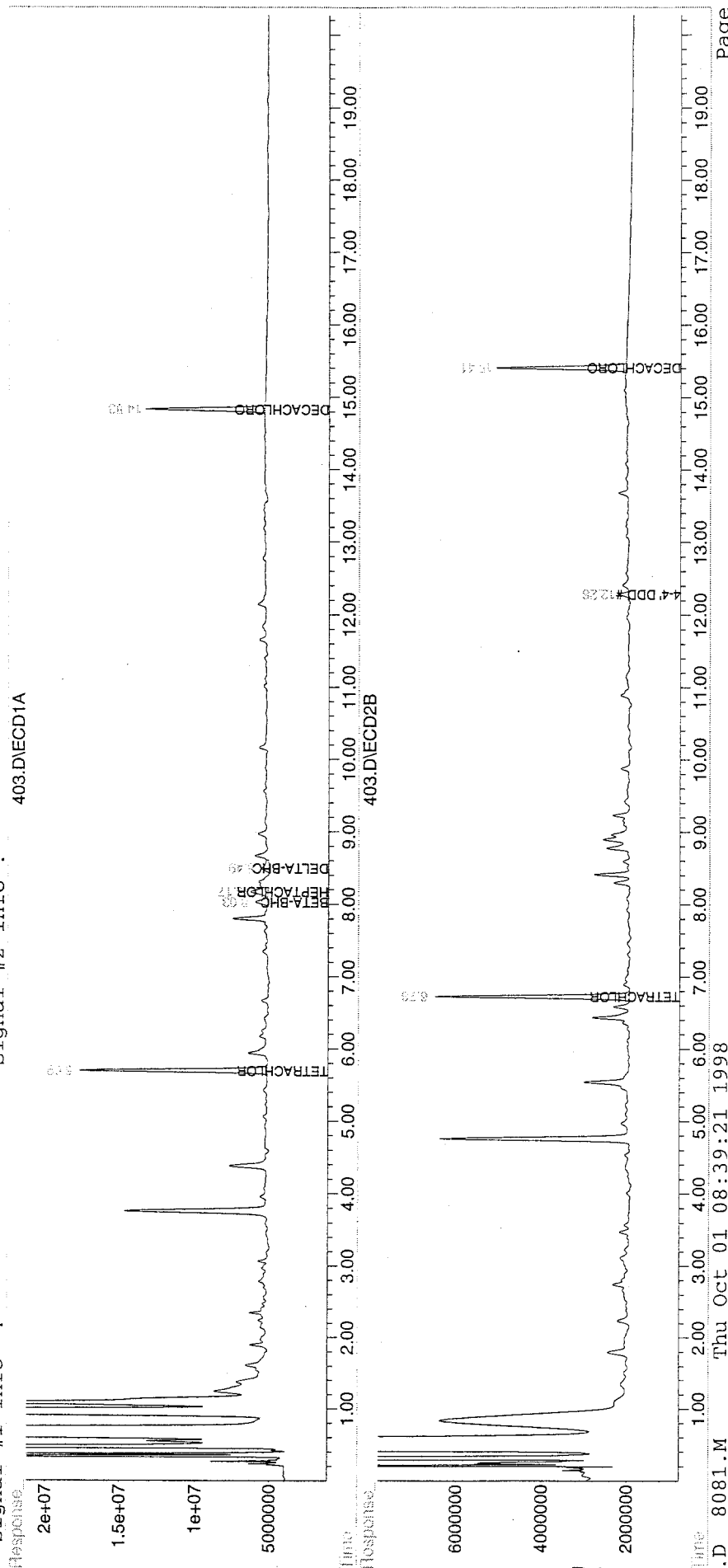
System Monitoring Compounds						
1) S TETRACHLORO-M-XY	5.70	6.73	342.6E6	128.1E6	10.717	10.558
Spiked Amount 20.000			Recovery	=	53.59%	52.79%
22) S DECACHLOROBIPHEN	14.83	15.41	225.6E6	87364086	15.806	14.871
Spiked Amount 20.000			Recovery	=	79.03%	74.36%
Target Compounds						
2) ALPHA-BHC	0.00	0.00	0	0	N.D.	N.D.
3) GAMMA-BHC	0.00	0.00	0	0	N.D.	N.D.
4) BETA-BHC	8.03	0.00	29451179	0	0.636	N.D. #
5) HEPTACHLOR	8.17	0.00	52465830	0	0.525	N.D. #
6) DELTA-BHC	8.49f	0.00	27726233	0	0.306	N.D. #
7) ALDRIN	0.00	0.00	0	0	N.D.	N.D.
8) HEPTACHLOR EPOXI	0.00	0.00	0	0	N.D.	N.D.
9) GAMMA CHLORDANE	0.00	0.00	0	0	N.D.	N.D.
10) ALPHA CHLORDANE	0.00	0.00	0	0	N.D.	N.D.
11) ENDOSULFAN I	0.00	0.00	0	0	N.D.	N.D.
12) 4-4' DDE	0.00	0.00	0	0	N.D.	N.D.
13) DIELDRIN	0.00	0.00	0	0	N.D.	N.D.
14) ENDRIN	0.00	0.00	0	0	N.D.	N.D.
15) 4-4' DDD	0.00	12.29	0	7529347	N.D.	0.307 #
16) ENDOSULFAN II	0.00	0.00	0	0	N.D.	N.D.
17) 4-4' DDT	0.00	0.00	0	0	N.D.	N.D.
18) ENDRIN ALDEHYDE	0.00	0.00	0	0	N.D.	N.D.
19) ENDOSULFAN SULFA	0.00	0.00	0	0	N.D.	N.D.
20) METHOXYCHLOR	0.00	0.00	0	0	N.D.	N.D.
21) ENDRIN KETONE	0.00	0.00	0	0	N.D.	N.D.

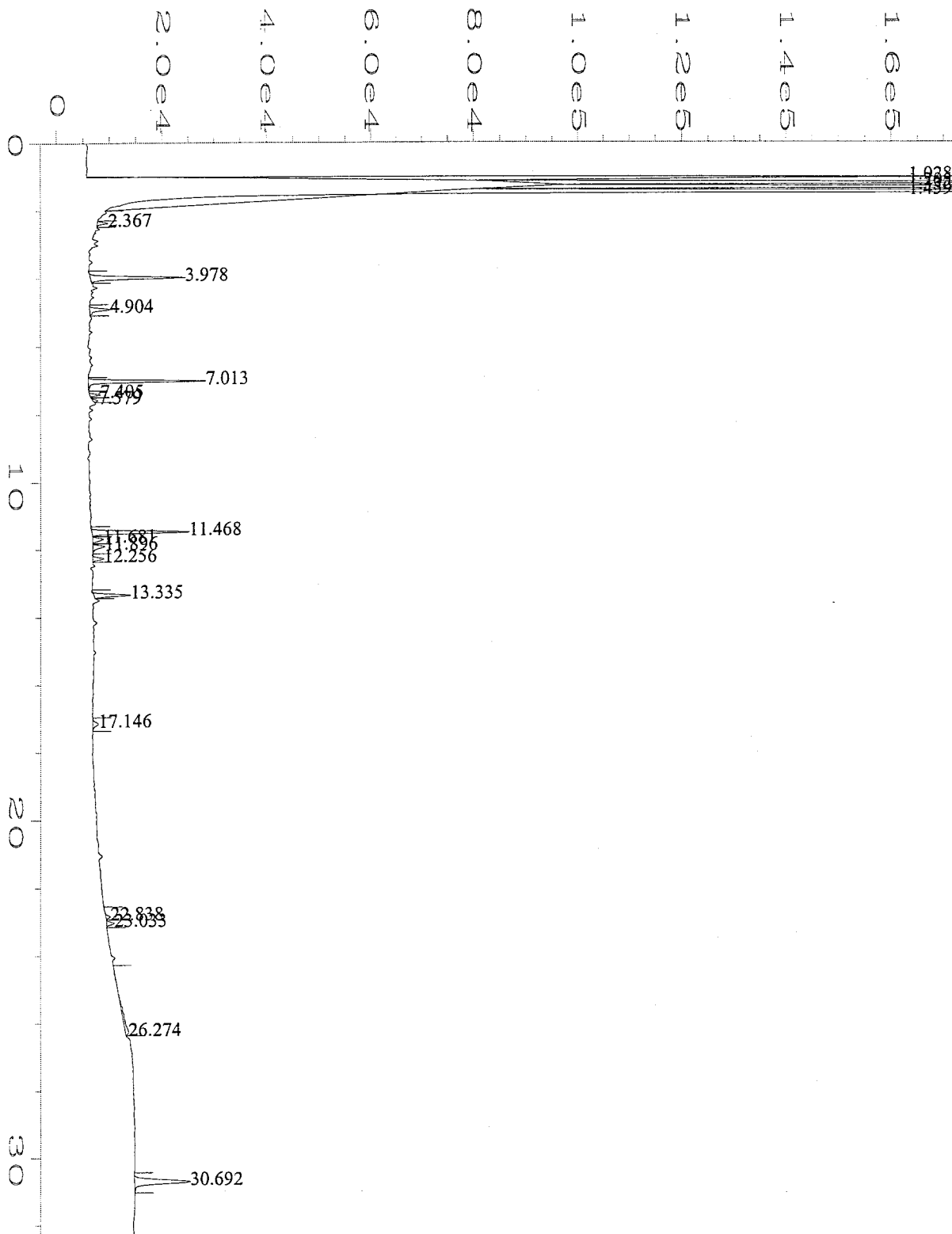
Data File : C:\HPCHEM\1\DATA\093098\403.D\ECD1A.CH Vial: 15
Acq On : 9-30-98 21:45:15 Operator: ECL
Sample : 09-522-01 Inst : GC/MS Ins
Misc : SOIL Multiplr: 0.33
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\093098\403.D\ECD2B.CH Vial: 15
Acq On : 9-30-98 22:10:02 Operator: ECL
Sample : 09-522-01 Inst : GC/MS Ins
Misc : SOIL Multiplr: 0.33
IntFile : autoint2.e
Quant Time: Oct 1 8:39 1998 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : PEST
Last Update : Tue Sep 22 08:33:05 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Data File Name	: C:\HPCHEM\1\DATA\093098\028F0101.D	Page Number	: 1
Operator	: ECL	Vial Number	: 28
Instrument	: HP4	Injection Number	: 1
Sample Name	: 09-522-01	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	1660F.MTH
Acquired on	: 01 Oct 98 05:31 AM	Analysis Method	: 1660F.MTH
Report Created on:	01 Oct 98 02:48 PM	Sample Amount	: 0
Last Recalib on	: 24 SEP 98 09:00 AM	ISTD Amount	:
Multiplier	: 0.33		

External Standard Report

```

Data File Name      : C:\HPCHEM\1\DATA\093098\028F0101.D
Operator            : ECL
Instrument           : HP4
Sample Name         : 09-522-01
Run Time Bar Code   :
Acquired on         : 01 Oct 98  05:31 AM
Report Created on   : 01 Oct 98  02:48 PM
Last Recalib on    : 24 SEP 98  09:00 AM
Multiplier          : 0.33

Page Number         : 1
Vial Number         : 28
Injection Number    : 1
Sequence Line       : 1
Instrument Method    : 1660F.MTH
Analysis Method     : 1660F.MTH
Sample Amount       : 0
ISTD Amount         :
  
```

Sig. 1 in C:\HPCHEM\1\DATA\093098\028F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
7.013	95886	BB	0.066	1	3.342	TETRACHLORO-M-XYL
9.360	* not found *			1		PCB1016 #1
10.886	* not found *			1		PCB1016 #2
11.979	* not found *			1		PCB1016 #3
12.256	9773	BB	0.079	1	4.533	PCB1016 #4
14.598	* not found *			1		PCB1016 #5
19.804	* not found *			1		PCB1260 #1
20.187	* not found *			1		PCB1260 #2
21.689	* not found *			1		PCB1260 #3
24.185	* not found *			1		PCB1260 #4
25.889	* not found *			1		PCB1260 #5
30.692	89551	BB	0.129	1	3.951	DECACHLOROBIPHENYL

Not all calibrated peaks were found

Data File : C:\HPCHEM\1\DATA\093098\406.D\ECD1A.CH Vial: 18
 Acq On : 9-30-98 22:59:49 Operator: ECL
 Sample : 09-522-02 Inst : GC/MS Ins
 Misc : SOIL Multiplr: 0.33
 IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\093098\406.D\ECD2B.CH Vial: 18
 Acq On : 9-30-98 23:24:34 Operator: ECL
 Sample : 09-522-02 Inst : GC/MS Ins
 Misc : SOIL Multiplr: 0.33
 IntFile : autoint2.e

Quant Time: Oct 1 8:40 1998 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
 Title : PEST
 Last Update : Tue Sep 22 08:33:05 1998
 Response via : Initial Calibration
 DataAcq Meth : 8081.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L

System Monitoring Compounds						
1) S TETRACHLORO-M-XY	5.69	6.73	457.8E6	170.5E6	14.322	14.052
Spiked Amount	20.000		Recovery	=	71.61%	70.26%
22) S DECACHLOROBIPHEN	14.83	15.41	272.9E6	109.4E6	19.128	18.617
Spiked Amount	20.000		Recovery	=	95.64%	93.09%
Target Compounds						
2) ALPHA-BHC	0.00	0.00	0	0	N.D.	N.D.
3) GAMMA-BHC	0.00	0.00	0	0	N.D.	N.D.
4) BETA-BHC	8.02	0.00	19134368	0	0.413	N.D. #
5) HEPTACHLOR	8.15f	0.00	31888601	0	0.319	N.D. #
6) DELTA-BHC	0.00	0.00	0	0	N.D.	N.D.
7) ALDRIN	0.00	0.00	0	0	N.D.	N.D.
8) HEPTACHLOR EPOXI	0.00	0.00	0	0	N.D.	N.D.
9) GAMMA CHLORDANE	0.00	0.00	0	0	N.D.	N.D.
10) ALPHA CHLORDANE	0.00	0.00	0	0	N.D.	N.D.
11) ENDOSULFAN I	0.00	0.00	0	0	N.D.	N.D.
12) 4-4' DDE	0.00	0.00	0	0	N.D.	N.D.
13) DIELDRIN	0.00	0.00	0	0	N.D.	N.D.
14) ENDRIN	0.00	0.00	0	0	N.D.	N.D.
15) 4-4' DDD	0.00	12.29	0	9107391	N.D.	0.371 #
16) ENDOSULFAN II	0.00	0.00	0	0	N.D.	N.D.
17) 4-4' DDT	0.00	0.00	0	0	N.D.	N.D.
18) ENDRIN ALDEHYDE	0.00	0.00	0	0	N.D.	N.D.
19) ENDOSULFAN SULFA	0.00	0.00	0	0	N.D.	N.D.
20) METHOXYCHLOR	0.00	0.00	0	0	N.D.	N.D.
21) ENDRIN KETONE	0.00	0.00	0	0	N.D.	N.D.

Quantitation Report

```

Data File      : C:\HPCHEM\1\DATA\093098\406.D\ECD1A.CH
Acq On        : 9-30-98 22:59:49
Sample        : 09-522-02
Misc          : SOIL
IntFile       : autoint1.e
              Vial: 18
              Operator: ECL
              Inst : GC/MS Ins
              Multiplr: 0.33

```

```

Data File      : C:\HPCHEM\1\DATA\093098\406.D\ECD2B.CH
Acq On        : 9-30-98 23:24:34
Sample        : 09-522-02
Misc          : SOIL
IntFile       : autoint2.e
              Vial: 18
              Operator: ECL
              Inst  : GC/MS
              Multiplr: 0.33

```

Quant Time: Oct 1 8:40 1998 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)

```

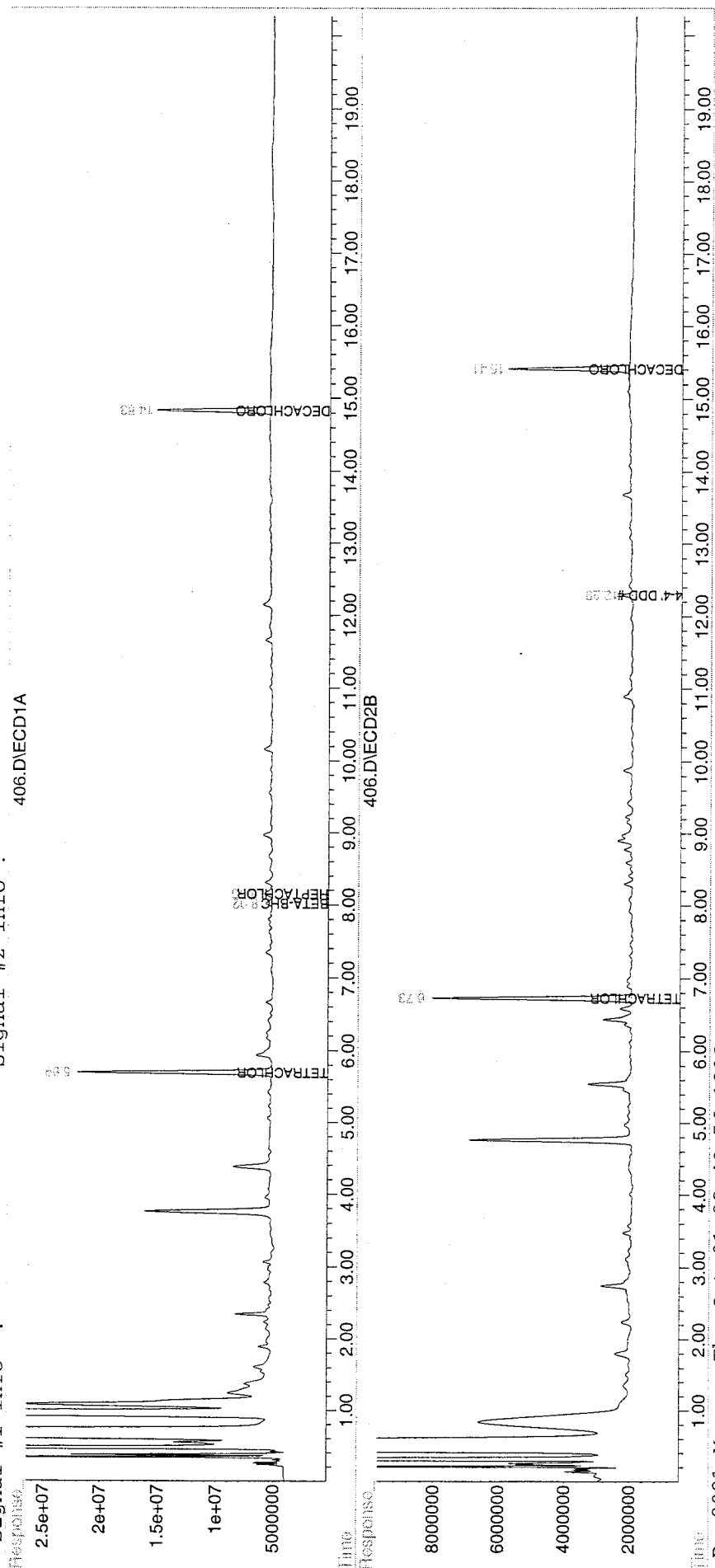
Title : PEST
Last Update : Tue Sep 22 08:33:05 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

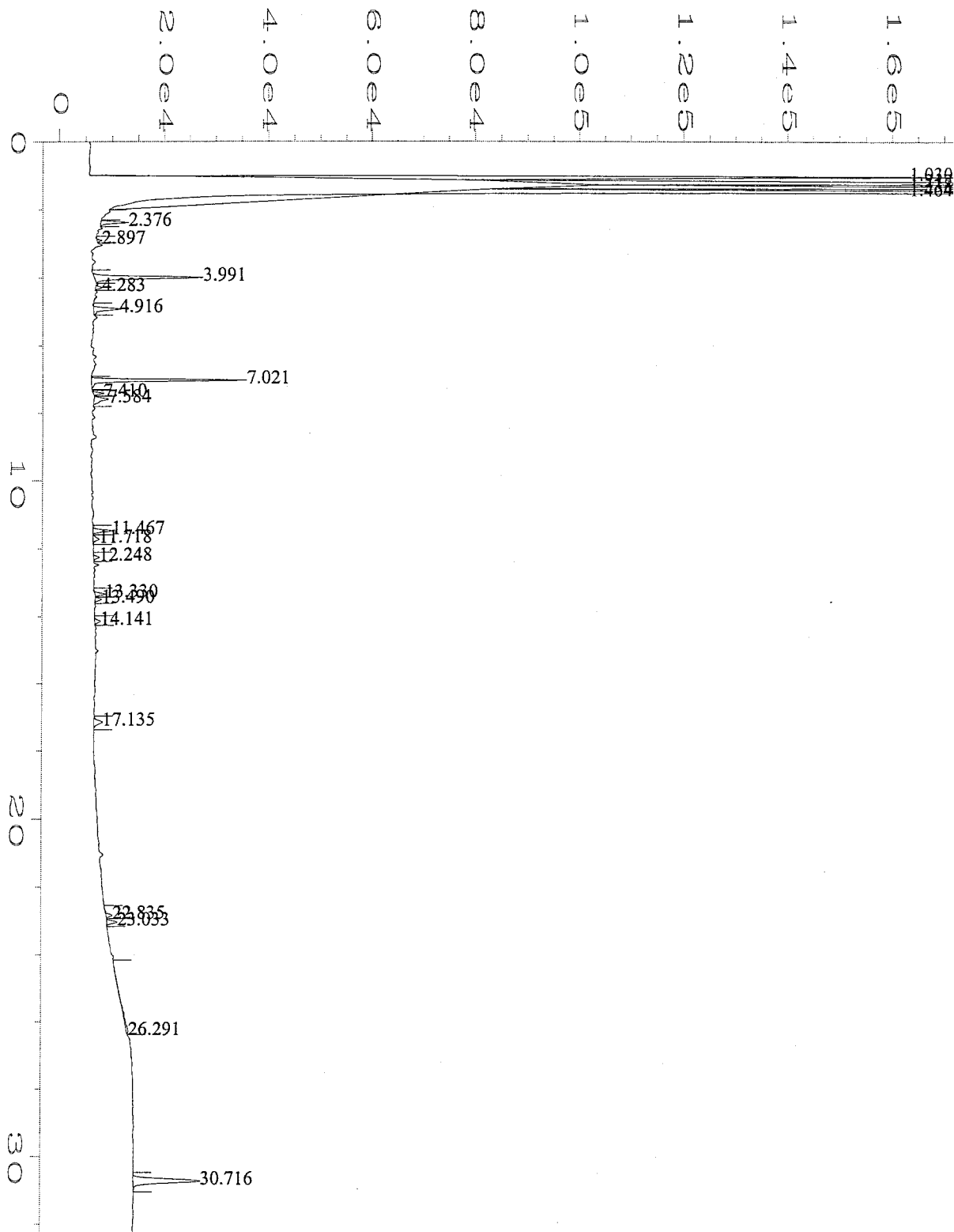
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```

Volume Inj.      :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info  : Signal #2 Info :

```





Data File Name	: C:\HPCHEM\1\DATA\093098\029F0101.D	Page Number	: 1
Operator	: ECL	Vial Number	: 29
Instrument	: HP4	Injection Number	: 1
Sample Name	: 09-522-02	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: 1660F.MTH
Acquired on	: 01 Oct 98 06:07 AM	Analysis Method	: 1660F.MTH
Report Created on:	01 Oct 98 03:10 PM	Sample Amount	: 0
Last Recalib on	: 24 SEP 98 09:00 AM	ISTD Amount	:
Multiplier	: 0.33		

External Standard Report

```

Data File Name      : C:\HPCHEM\1\DATA\093098\029F0101.D
Operator            : ECL
Instrument           : HP4
Sample Name         : 09-522-02
Run Time Bar Code   :
Acquired on         : 01 Oct 98 06:07 AM
Report Created on   : 01 Oct 98 03:10 PM
Last Recalib on    : 24 SEP 98 09:00 AM
Multiplier          : 0.33
Page Number         : 1
Vial Number         : 29
Injection Number    : 1
Sequence Line       : 1
Instrument Method    : 1660F.MTH
Analysis Method     : 1660F.MTH
Sample Amount       : 0
ISTD Amount         :
  
```

Sig. 1 in C:\HPCHEM\1\DATA\093098\029F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
7.021	127712	BB	0.066	1	4.452	TETRACHLORO-M-XYL
9.360	* not found *			1		PCB1016 #1
10.886	* not found *			1		PCB1016 #2
11.979	* not found *			1		PCB1016 #3
12.248	5172	BB	0.079	1	2.399	PCB1016 #4
14.598	* not found *			1		PCB1016 #5
19.804	* not found *			1		PCB1260 #1
20.187	* not found *			1		PCB1260 #2
21.689	* not found *			1		PCB1260 #3
24.185	* not found *			1		PCB1260 #4
25.889	* not found *			1		PCB1260 #5
30.716	108503	BB	0.131	1	4.788	DECACHLOROBIPHENYL

Not all calibrated peaks were found

Data File : C:\HPCHEM\1\DATA\093098\407.D\ECD1A.CH Vial: 19
 Acq On : 9-30-98 23:24:34 Operator: ECL
 Sample : 09-522-03 Inst : GC/MS Ins
 Misc : SOIL Multiplr: 0.33
 IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\093098\407.D\ECD2B.CH Vial: 19
 Acq On : 9-30-98 23:49:33 Operator: ECL
 Sample : 09-522-03 Inst : GC/MS Ins
 Misc : Multiplr: 0.33
 IntFile : autoint2.e

Quant Time: Oct 1 8:41 1998 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
 Title : PEST
 Last Update : Tue Sep 22 08:33:05 1998
 Response via : Initial Calibration
 DataAcq Meth : 8081.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L

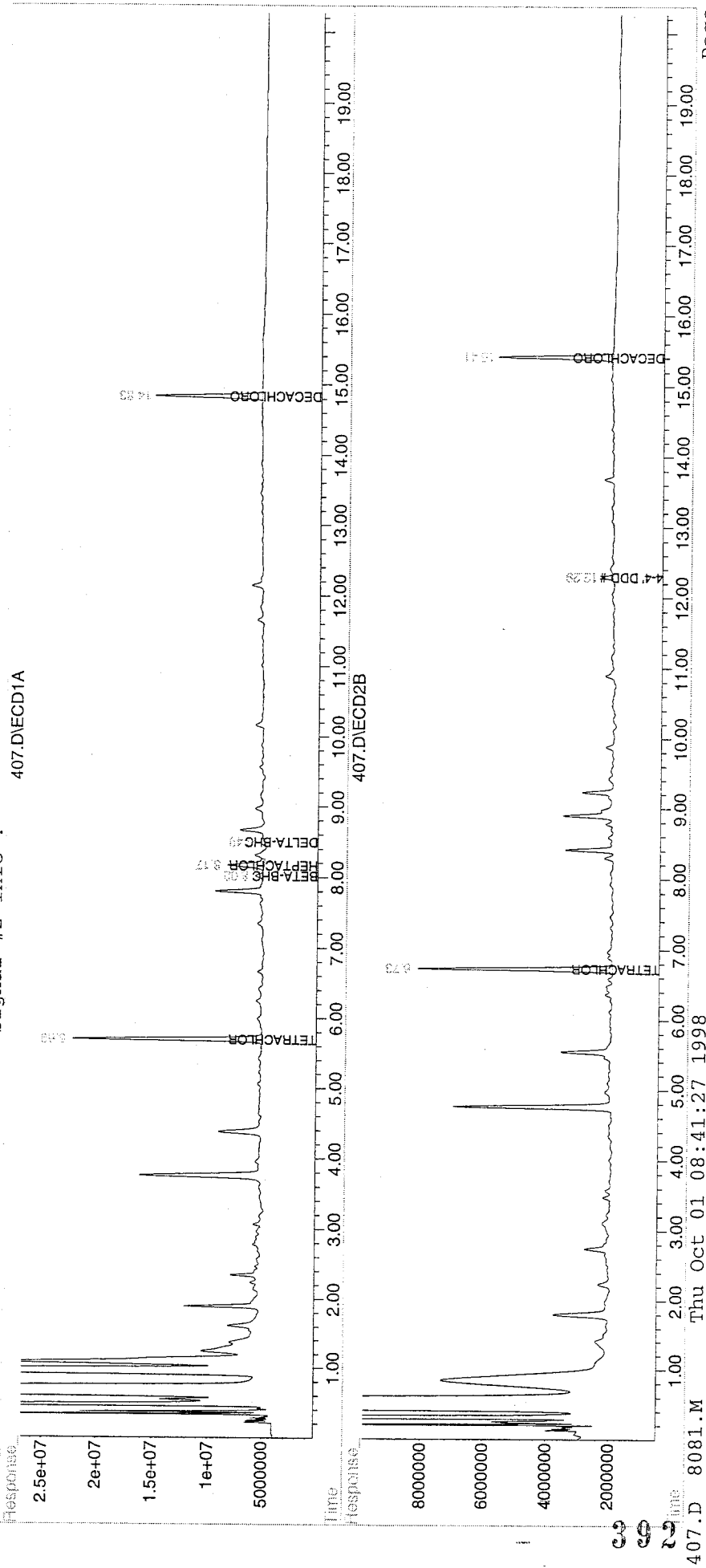
System Monitoring Compounds						
1) S TETRACHLORO-M-XY	5.69	6.73	466.7E6	174.6E6	14.601	14.388
Spiked Amount 20.000			Recovery	=	73.01%	71.94%
22) S DECACHLOROBIPHEN	14.83	15.41	275.2E6	109.2E6	19.286	18.592
Spiked Amount 20.000			Recovery	=	96.43%	92.96%
Target Compounds						
2) ALPHA-BHC	0.00	0.00	0	0	N.D.	N.D.
3) GAMMA-BHC	0.00	0.00	0	0	N.D.	N.D.
4) BETA-BHC	8.02	0.00	21827352	0	0.471	N.D. #
5) HEPTACHLOR	8.17	0.00	131.3E6	0	1.315	N.D. #
6) DELTA-BHC	8.50f	0.00	18192140	0	0.201	N.D. #
7) ALDRIN	0.00	0.00	0	0	N.D.	N.D.
8) HEPTACHLOR EPOXI	0.00	0.00	0	0	N.D.	N.D.
9) GAMMA CHLORDANE	0.00	0.00	0	0	N.D.	N.D.
10) ALPHA CHLORDANE	0.00	0.00	0	0	N.D.	N.D.
11) ENDOSULFAN I	0.00	0.00	0	0	N.D.	N.D.
12) 4-4' DDE	0.00	0.00	0	0	N.D.	N.D.
13) DIELDRLN	0.00	0.00	0	0	N.D.	N.D.
14) ENDRIN	0.00	0.00	0	0	N.D.	N.D.
15) 4-4' DDD	0.00	12.29	0	10188616	N.D.	0.416 #
16) ENDOSULFAN II	0.00	0.00	0	0	N.D.	N.D.
17) 4-4' DDT	0.00	0.00	0	0	N.D.	N.D.
18) ENDRIN ALDEHYDE	0.00	0.00	0	0	N.D.	N.D.
19) ENDOSULFAN SULFA	0.00	0.00	0	0	N.D.	N.D.
20) METHOXYCHLOR	0.00	0.00	0	0	N.D.	N.D.
21) ENDRIN KETONE	0.00	0.00	0	0	N.D.	N.D.

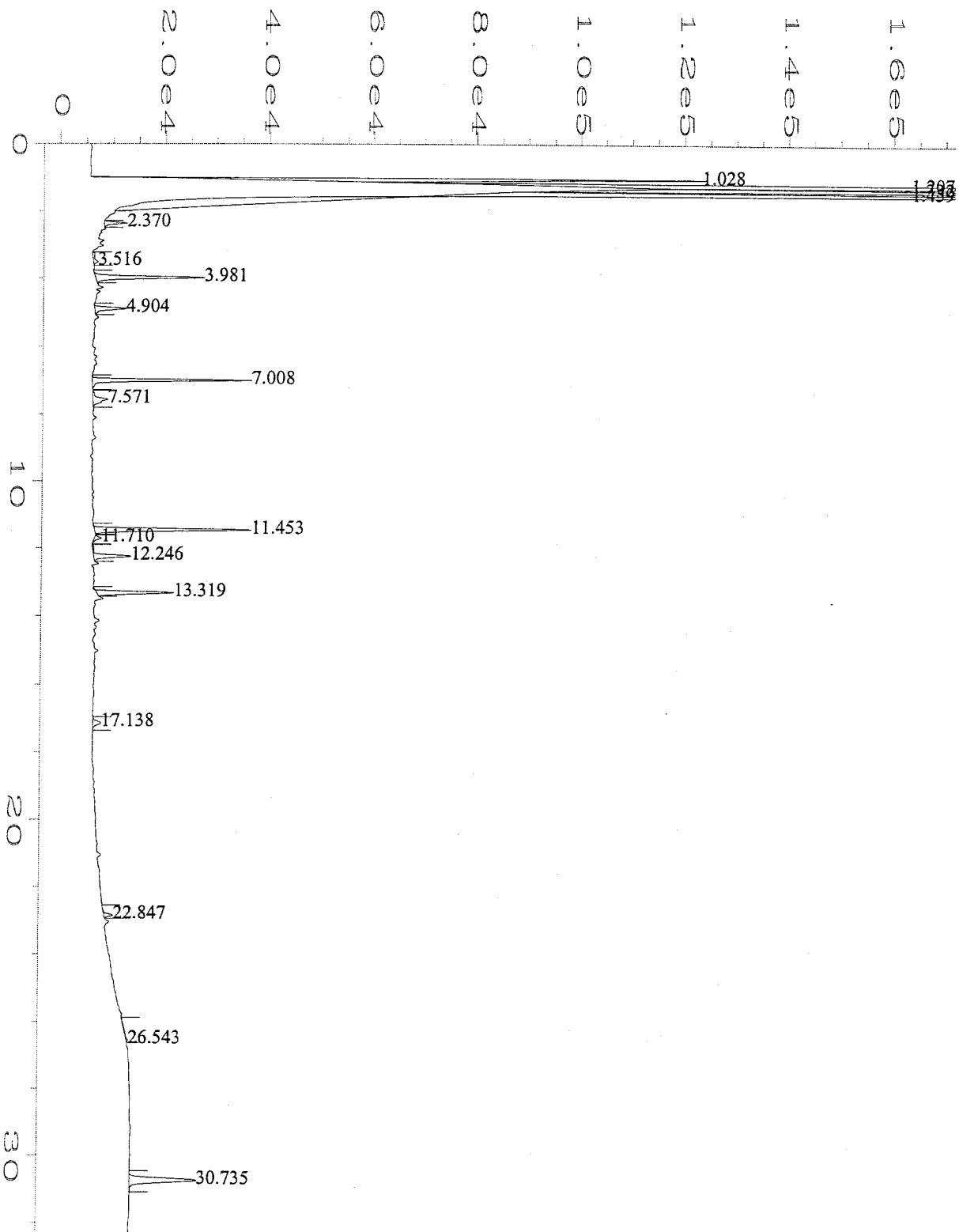
Data File : C:\HPCHEM\1\DATA\093098\407.D\ECD1A.CH Vial: 19
 Acq On : 9-30-98 23:24:34 Operator: ECL
 Sample : 09-522-03 Inst : GC/MS Ins
 Misc : SOIL Multiplr: 0.33
 IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\093098\407.D\ECD2B.CH Vial: 19
 Acq On : 9-30-98 23:49:33 Operator: ECL
 Sample : 09-522-03 Inst : GC/MS Ins
 Misc : Multiplr: 0.33
 IntFile : autoint2.e
 Quant Time: Oct 1 8:41 1998 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
 Title : PEST
 Last Update : Tue Sep 22 08:33:05 1998
 Response via : Multiple Level Calibration
 DataAcq Meth : 8081.M

Volume Inj. :
 Signal #1 Phase :
 Signal #1 Info :
 Signal #2 Phase :
 Signal #2 Info :





Data File Name	: C:\HPCHEM\1\DATA\093098\030F0101.D	Page Number	: 1
Operator	: ECL	Vial Number	: 30
Instrument	: HP4	Injection Number	: 1
Sample Name	: 09-522-03	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	1660F.MTH
Acquired on	: 01 Oct 98 06:42 AM	Analysis Method	: 1660F.MTH
Report Created on:	01 Oct 98 03:11 PM	Sample Amount	: 0
Last Recalib on	: 24 SEP 98 09:00 AM	ISTD Amount	:
Multiplier	: 0.33		

External Standard Report

```

Data File Name      : C:\HPCHEM\1\DATA\093098\030F0101.D
Operator            : ECL
Instrument           : HP4
Sample Name         : 09-522-03
Run Time Bar Code   :
Acquired on         : 01 Oct 98 06:42 AM
Report Created on   : 01 Oct 98 03:11 PM
Last Recalib on    : 24 SEP 98 09:00 AM
Multiplier          : 0.33

Page Number         : 1
Vial Number         : 30
Injection Number    : 1
Sequence Line       : 1
Instrument Method    : 1660F.MTH
Analysis Method     : 1660F.MTH
Sample Amount       : 0
ISTD Amount         :
  
```

Sig. 1 in C:\HPCHEM\1\DATA\093098\030F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
7.008	130014	BB	0.066	1	4.532	TETRACHLORO-M-XYL
9.360	* not found *			1		PCB1016 #1
10.886	* not found *			1		PCB1016 #2
11.979	* not found *			1		PCB1016 #3
12.246	40628	BB	0.089	1	18.845	PCB1016 #4
14.598	* not found *			1		PCB1016 #5
19.804	* not found *			1		PCB1260 #1
20.187	* not found *			1		PCB1260 #2
21.689	* not found *			1		PCB1260 #3
24.185	* not found *			1		PCB1260 #4
25.889	* not found *			1		PCB1260 #5
30.735	109819	BB	0.132	1	4.846	DECACHLOROBIPHENYL

Not all calibrated peaks were found

Data File : C:\HPCHEM\1\DATA\093098\411.D\ECD1A.CH Vial: 23
 Acq On : 10-1-98 1:03:58 Operator: ECL
 Sample : 09-522-04 Inst : GC/MS Ins
 Misc : SOIL Multiplr: 0.33
 IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\093098\411.D\ECD2B.CH Vial: 23
 Acq On : 10-1-98 1:28:41 Operator: ECL
 Sample : 09-522-04 Inst : GC/MS Ins
 Misc : SOIL Multiplr: 0.33
 IntFile : autoint2.e

Quant Time: Oct 1 8:41 1998 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
 Title : PEST
 Last Update : Tue Sep 22 08:33:05 1998
 Response via : Initial Calibration
 DataAcq Meth : 8081.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L

System Monitoring Compounds						
1) S TETRACHLORO-M-XY	5.69	6.73	462.1E6	177.0E6	14.456	14.580
Spiked Amount 20.000			Recovery	=	72.28%	72.90%
22) S DECACHLOROBIPHEN	14.83	15.41	281.8E6	113.5E6	19.745	19.318
Spiked Amount 20.000			Recovery	=	98.73%	96.59%
Target Compounds						
2) ALPHA-BHC	0.00	0.00	0	0	N.D.	N.D.
3) GAMMA-BHC	0.00	0.00	0	0	N.D.	N.D.
4) BETA-BHC	8.02	0.00	21413647	0	0.462	N.D. #
5) HEPTACHLOR	8.16f	0.00	50120253	0	0.502	N.D. #
6) DELTA-BHC	0.00	0.00	0	0	N.D.	N.D.
7) ALDRIN	0.00	0.00	0	0	N.D.	N.D.
8) HEPTACHLOR EPOXI	0.00	0.00	0	0	N.D.	N.D.
9) GAMMA CHLORDANE	0.00	0.00	0	0	N.D.	N.D.
10) ALPHA CHLORDANE	0.00	0.00	0	0	N.D.	N.D.
11) ENDOSULFAN I	0.00	0.00	0	0	N.D.	N.D.
12) 4-4' DDE	0.00	0.00	0	0	N.D.	N.D.
13) DIELDRIN	0.00	0.00	0	0	N.D.	N.D.
14) ENDRIN	0.00	0.00	0	0	N.D.	N.D.
15) 4-4' DDD	0.00	12.29	0	9537525	N.D.	0.389 #
16) ENDOSULFAN II	0.00	0.00	0	0	N.D.	N.D.
17) 4-4' DDT	0.00	0.00	0	0	N.D.	N.D.
18) ENDRIN ALDEHYDE	0.00	0.00	0	0	N.D.	N.D.
19) ENDOSULFAN SULFA	0.00	0.00	0	0	N.D.	N.D.
20) METHOXYCHLOR	0.00	0.00	0	0	N.D.	N.D.
21) ENDRIN KETONE	0.00	0.00	0	0	N.D.	N.D.

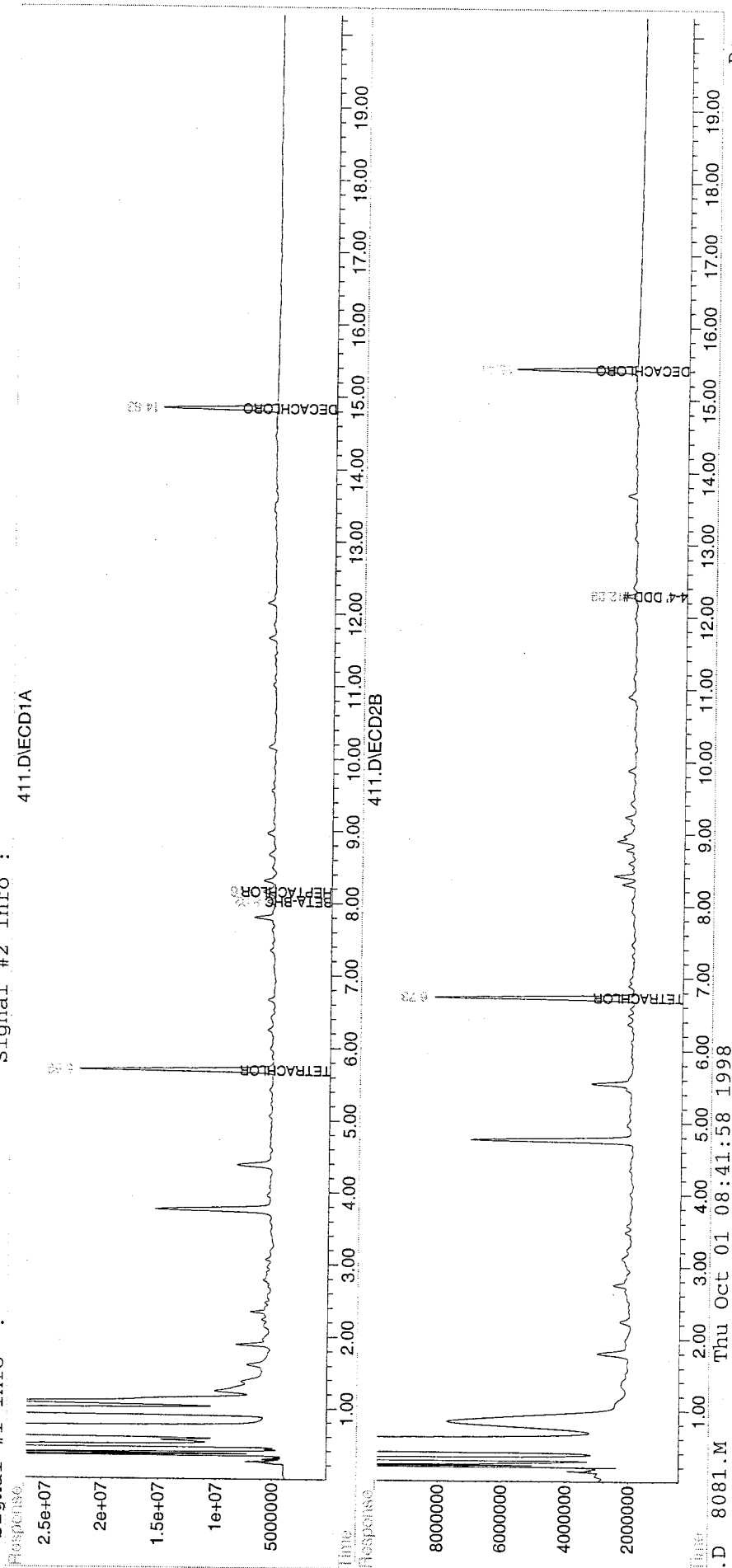
Quantitation Report

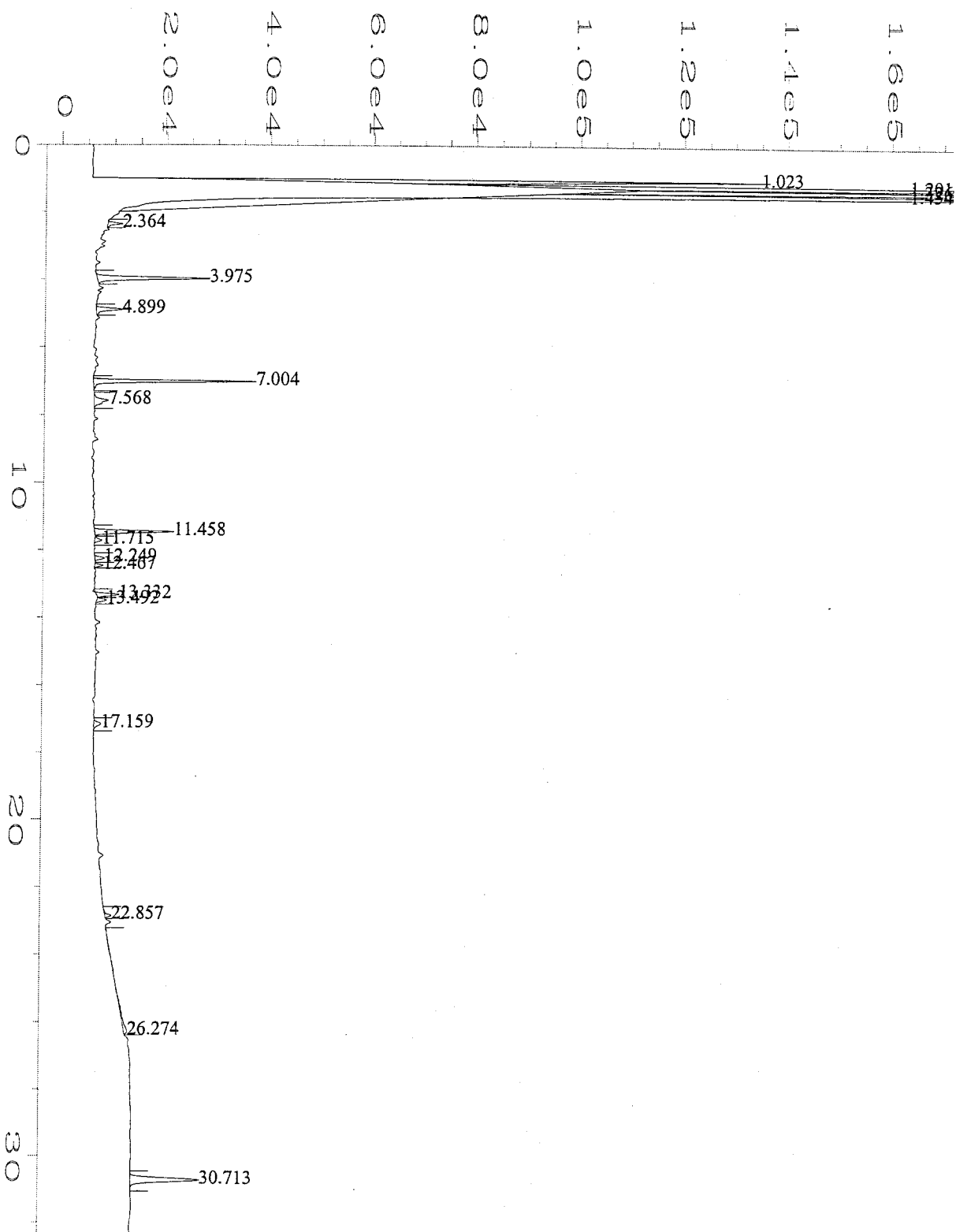
Data File : C:\HPCHEM\1\DATA\093098\411.D\ECD1A.CH
 Acq On : 10-1-98 1:03:58 Vial: 23
 Sample : 09-522-04 Operator: ECL
 Misc : SOIL Inst : GC/MS Ins
 IntFile : autoint1.e Multiplr: 0.33

Data File : C:\HPCHEM\1\DATA\093098\411.D\ECD2B.CH
 Acq On : 10-1-98 1:28:41 Vial: 23
 Sample : 09-522-04 Operator: ECL
 Misc : SOIL Inst : GC/MS Ins
 IntFile : autoint2.e Multiplr: 0.33
 Quant Time: Oct 1 8:41 1998 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
 Title : PEST
 Last Update : Tue Sep 22 08:33:05 1998
 Response via : Multiple Level Calibration
 DataAcq Meth : 8081.M

Volume Inj. :
 Signal #1 Phase :
 Signal #1 Info :
 Signal #2 Phase :
 Signal #2 Info :





Data File Name	: C:\HPCHEM\1\DATA\093098\031F0101.D	Page Number	: 1
Operator	: ECL	Vial Number	: 31
Instrument	: HP4	Injection Number	: 1
Sample Name	: 09-522-04	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	1660F.MTH
Acquired on	: 01 Oct 98 07:18 AM	Analysis Method	: 1660F.MTH
Report Created on:	01 Oct 98 03:11 PM	Sample Amount	: 0
Last Recalib on	: 24 SEP 98 09:00 AM	ISTD Amount	:
Multiplier	: 0.33		

External Standard Report

```

Data File Name      : C:\HPCHEM\1\DATA\093098\031F0101.D
Operator           : ECL
Instrument          : HP4
Sample Name        : 09-522-04
Run Time Bar Code  :
Acquired on        : 01 Oct 98  07:18 AM
Report Created on   : 01 Oct 98  03:11 PM
Last Recalib on    : 24 SEP 98  09:00 AM
Multiplier         : 0.33

Page Number        : 1
Vial Number        : 31
Injection Number    : 1
Sequence Line      : 1
Instrument Method    : 1660F.MTH
Analysis Method     : 1660F.MTH
Sample Amount       : 0
ISTD Amount         :
  
```

Sig. 1 in C:\HPCHEM\1\DATA\093098\031F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
7.004	133384	BB	0.066	1	4.649	TETRACHLORO-M-XYL
9.360	* not found *			1		PCB1016 #1
10.886	* not found *			1		PCB1016 #2
11.979	* not found *			1		PCB1016 #3
12.249	9308	BB	0.084	1	4.317	PCB1016 #4
14.598	* not found *			1		PCB1016 #5
19.804	* not found *			1		PCB1260 #1
20.187	* not found *			1		PCB1260 #2
21.689	* not found *			1		PCB1260 #3
24.185	* not found *			1		PCB1260 #4
25.889	* not found *			1		PCB1260 #5
30.713	112004	BB	0.132	1	4.942	DECACHLOROBIPHENYL

Not all calibrated peaks were found

Data File : C:\HPCHEM\1\DATA\093098\412.D\ECD1A.CH
 Acq On : 10-1-98 1:28:41
 Sample : 09-522-05
 Misc : SOIL
 IntFile : autoint1.e

Vial: 24
 Operator: ECL
 Inst : GC/MS Ins
 Multiplr: 0.33

Data File : C:\HPCHEM\1\DATA\093098\412.D\ECD2B.CH
 Acq On : 10-1-98 1:53:21
 Sample : 09-522-04
 Misc : SOIL
 IntFile : autoint2.e

Vial: 24
 Operator: ECL
 Inst : GC/MS Ins
 Multiplr: 0.33

Quant Time: Oct 1 8:42 1998 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
 Title : PEST
 Last Update : Tue Sep 22 08:33:05 1998
 Response via : Initial Calibration
 DataAcq Meth : 8081.M

Volume Inj. :
 Signal #1 Phase :
 Signal #1 Info :
 Signal #2 Phase:
 Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L

System Monitoring Compounds						
1) S TETRACHLORO-M-XY	5.69	6.73	484.8E6	187.0E6	15.165	15.411
Spiked Amount	20.000		Recovery	=	75.83%	77.05%
2) S DECACHLOROBIPHEN	14.83	15.41	312.0E6	123.1E6	21.866	20.949
Spiked Amount	20.000		Recovery	=	109.33%	104.75%
Target Compounds						
2) ALPHA-BHC	0.00	0.00	0	0	N.D.	N.D.
3) GAMMA-BHC	0.00	0.00	0	0	N.D.	N.D.
4) BETA-BHC	8.02	0.00	14886977	0	0.321	N.D. #
5) HEPTACHLOR	8.15f	0.00	37129771	0	0.372	N.D. #
6) DELTA-BHC	0.00	0.00	0	0	N.D.	N.D.
7) ALDRIN	0.00	0.00	0	0	N.D.	N.D.
8) HEPTACHLOR EPOXI	0.00	0.00	0	0	N.D.	N.D.
9) GAMMA CHLORDANE	0.00	0.00	0	0	N.D.	N.D.
0) ALPHA CHLORDANE	0.00	0.00	0	0	N.D.	N.D.
1) ENDOSULFAN I	0.00	0.00	0	0	N.D.	N.D.
2) 4-4' DDE	0.00	0.00	0	0	N.D.	N.D.
3) DIELDRIN	0.00	0.00	0	0	N.D.	N.D.
4) ENDRIN	0.00	0.00	0	0	N.D.	N.D.
5) 4-4' DDD	0.00	12.29	0	8129934	N.D.	0.332 #
6) ENDOSULFAN II	0.00	0.00	0	0	N.D.	N.D.
7) 4-4' DDT	0.00	0.00	0	0	N.D.	N.D.
8) ENDRIN ALDEHYDE	0.00	0.00	0	0	N.D.	N.D.
9) ENDOSULFAN SULFA	0.00	0.00	0	0	N.D.	N.D.
0) METHOXYCHLOR	0.00	0.00	0	0	N.D.	N.D.
1) ENDRIN KETONE	0.00	0.00	0	0	N.D.	N.D.

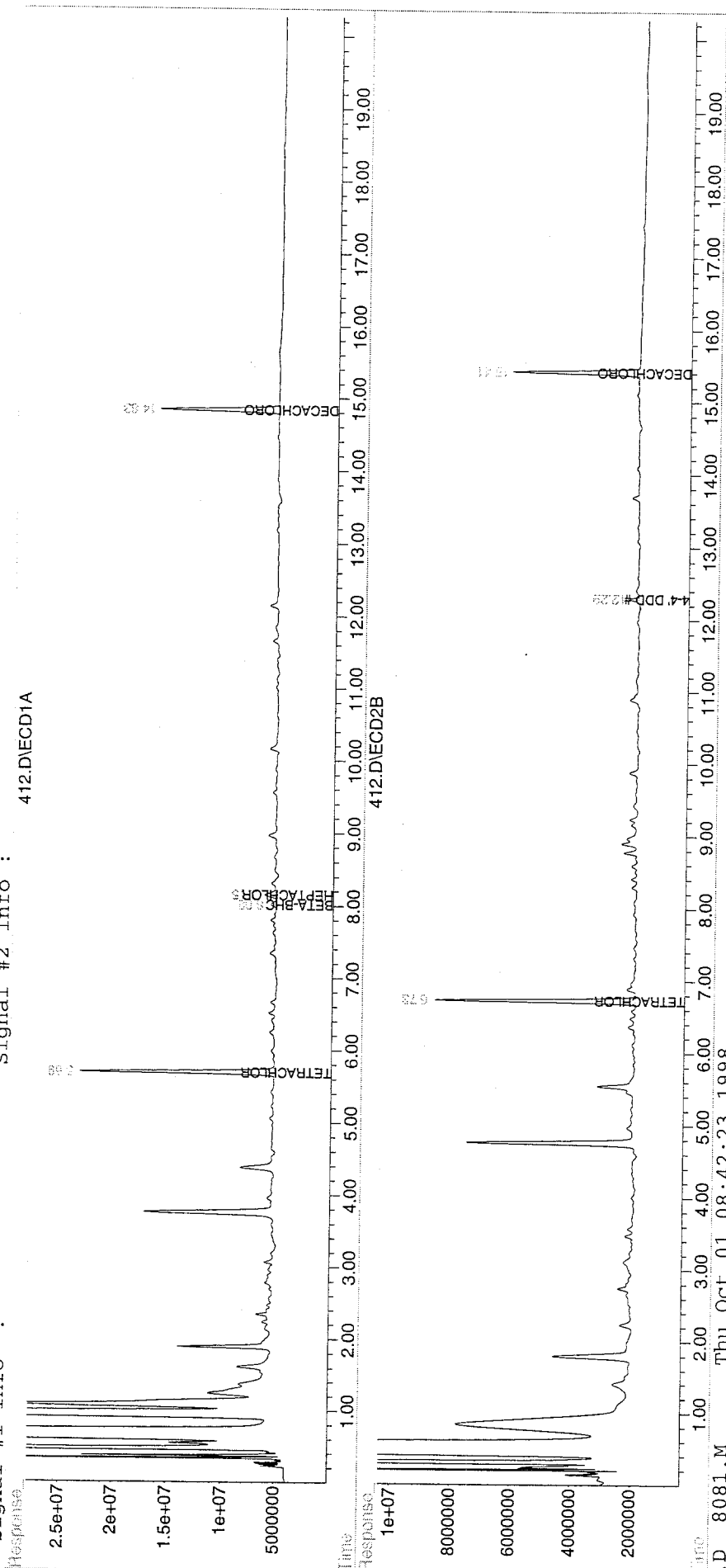
Data File : C:\HPCHEM\1\DATA\093098\412.D\ECD1A.CH
 Acq On : 10-1-98 1:28:41
 Sample : 09-522-05
 Misc : SOIL
 IntFile : autoint1.e
 Vial: 24
 Operator: ECL
 Inst : GC/MS Ins
 Multiplr: 0.33

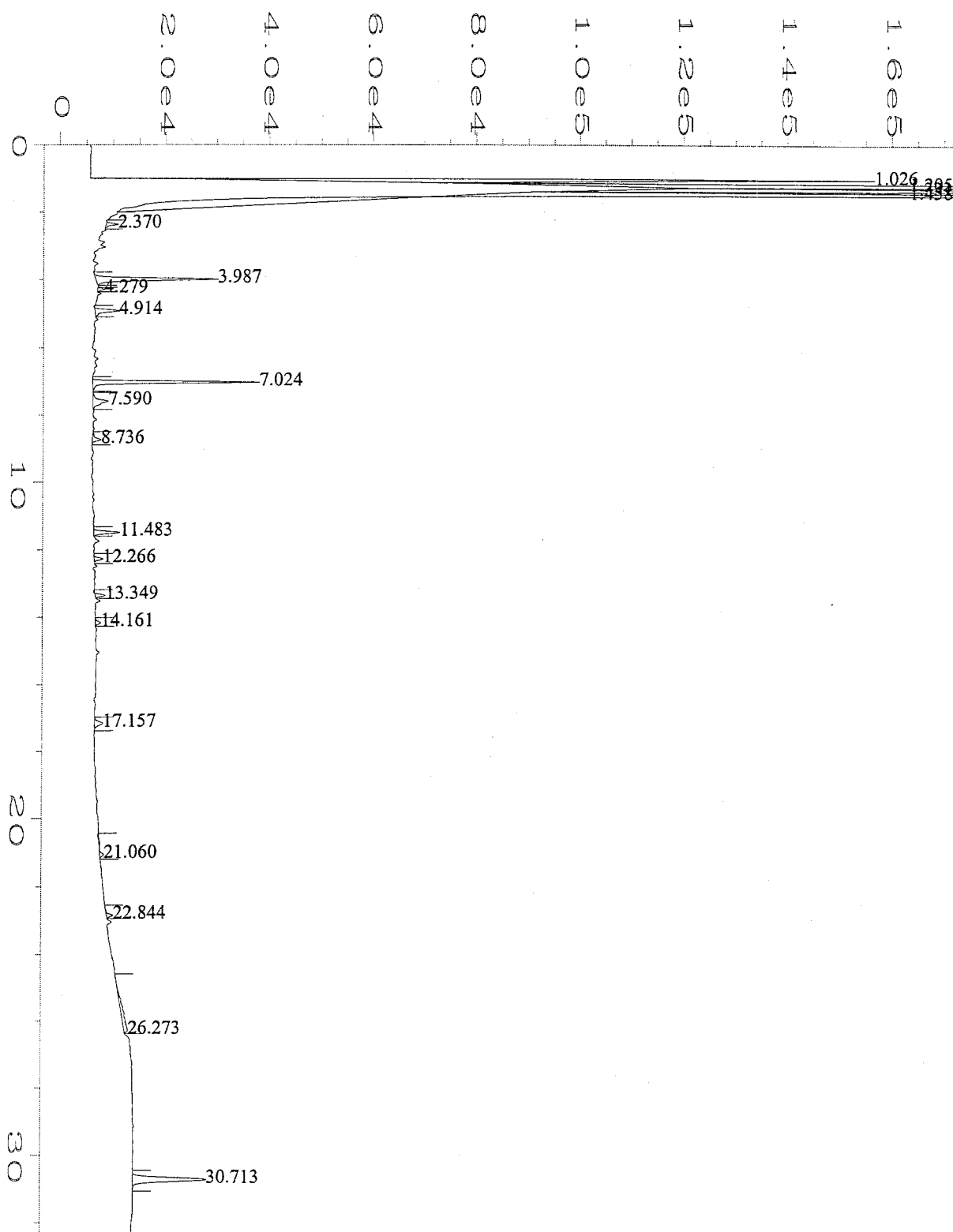
Data File : C:\HPCHEM\1\DATA\093098\412.D\ECD2B.CH
 Acq On : 10-1-98 1:53:21
 Sample : 09-522-04
 Misc : SOIL
 IntFile : autoint2.e
 Vial: 24
 Operator: ECL
 Inst : GC/MS Ins
 Multiplr: 0.33

Quant Time: Oct 1 8:42 1998 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
 Title : PEST
 Last Update : Tue Sep 22 08:33:05 1998
 Response via : Multiple Level Calibration
 DataAcq Meth : 8081.M

Volume Inj. :
 Signal #1 Phase :
 Signal #1 Info :
 Signal #2 Phase :
 Signal #2 Info :





Data File Name	: C:\HPCHEM\1\DATA\093098\032F0101.D	Page Number	: 1
Operator	: ECL	Vial Number	: 32
Instrument	: HP4	Injection Number	: 1
Sample Name	: 09-522-05	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	1660F.MTH
Acquired on	: 01 Oct 98 07:54 AM	Analysis Method	: 1660F.MTH
Report Created on:	01 Oct 98 03:11 PM	Sample Amount	: 0
Last Recalib on	: 24 SEP 98 09:00 AM	ISTD Amount	:
Multiplier	: 0.33		

External Standard Report

```

Data File Name      : C:\HPCHEM\1\DATA\093098\032F0101.D
Operator           : ECL
Instrument          : HP4
Sample Name        : 09-522-05
Run Time Bar Code  :
Acquired on        : 01 Oct 98 07:54 AM
Report Created on  : 01 Oct 98 03:11 PM
Last Recalib on   : 24 SEP 98 09:00 AM
Multiplier         : 0.33
Page Number        : 1
Vial Number        : 32
Injection Number   : 1
Sequence Line      : 1
Instrument Method   : 1660F.MTH
Analysis Method    : 1660F.MTH
Sample Amount      : 0
ISTD Amount        :
  
```

Sig. 1 in C:\HPCHEM\1\DATA\093098\032F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
7.024	137438	BB	0.067	1	4.791	TETRACHLORO-M-XYL
9.360	* not found *			1		PCB1016 #1
10.886	* not found *			1		PCB1016 #2
11.979	* not found *			1		PCB1016 #3
12.266	8132	BB	0.081	1	3.772	PCB1016 #4
14.598	* not found *			1		PCB1016 #5
19.804	* not found *			1		PCB1260 #1
20.187	* not found *			1		PCB1260 #2
21.689	* not found *			1		PCB1260 #3
24.185	* not found *			1		PCB1260 #4
25.889	* not found *			1		PCB1260 #5
30.713	121167	BB	0.133	1	5.347	DECACHLOROBIPHENYL

Not all calibrated peaks were found

Data File : C:\HPCHEM\1\DATA\093098\413.D\ECD1A.CH Vial: 25
 Acq On : 10-1-98 1:53:21 Operator: ECL
 Sample : 09-522-06 Inst : GC/MS Ins
 Misc : SOIL Multiplr: 0.33
 IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\093098\413.D\ECD2B.CH Vial: 25
 Acq On : 10-1-98 2:18:17 Operator: ECL
 Sample : 09-522-06 Inst : GC/MS Ins
 Misc : SOIL Multiplr: 0.33
 IntFile : autoint2.e

Quant Time: Oct 1 8:42 1998 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
 Title : PEST
 Last Update : Tue Sep 22 08:33:05 1998
 Response via : Initial Calibration
 DataAcq Meth : 8081.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L

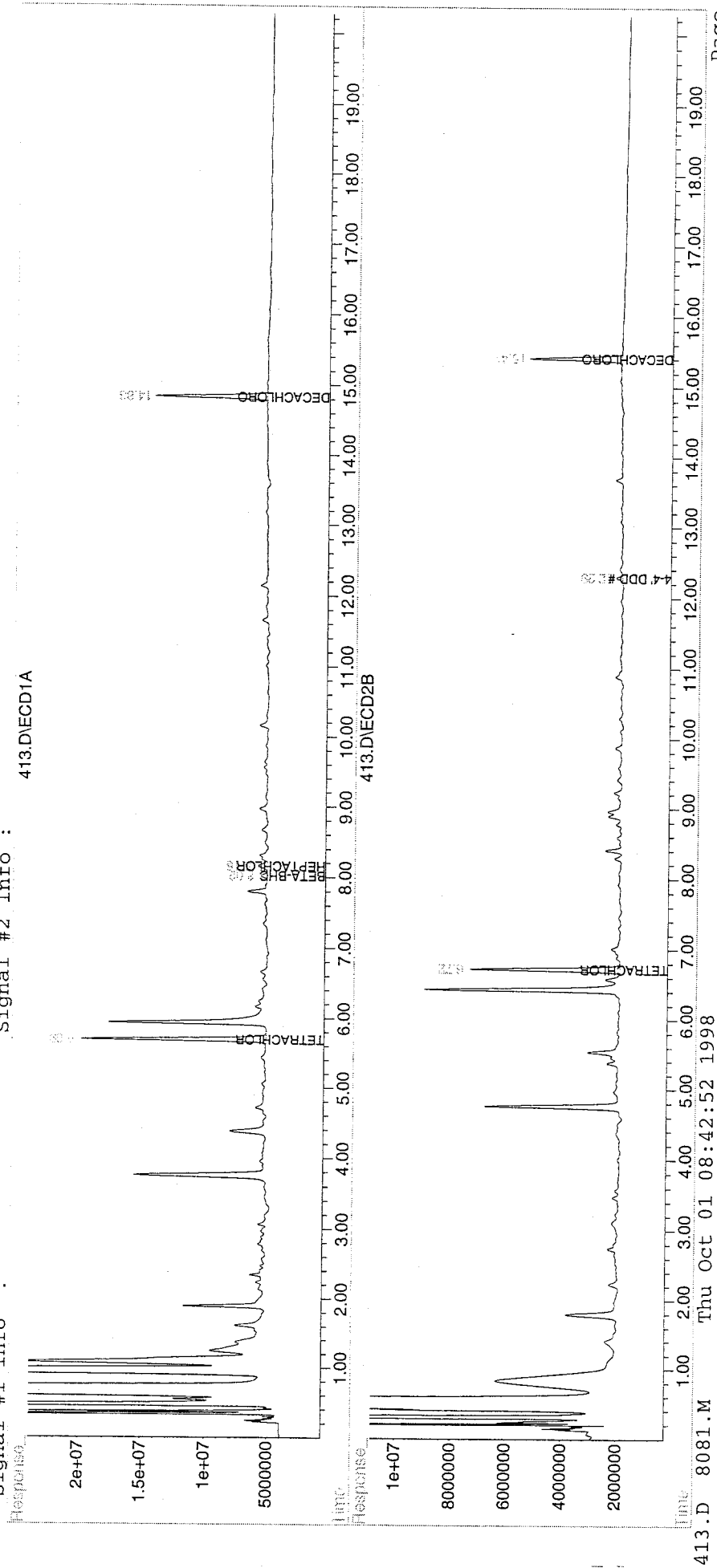
System Monitoring Compounds						
1) S TETRACHLORO-M-XY	5.69	6.72	401.4E6	154.0E6	12.559	12.688
Spiked Amount	20.000		Recovery	=	62.80%	63.44%
22) S DECACHLOROBIPHEN	14.83	15.41	249.4E6	99608227	17.477	16.955
Spiked Amount	20.000		Recovery	=	87.39%	84.77%
Target Compounds						
2) ALPHA-BHC	0.00	0.00	0	0	N.D.	N.D.
3) GAMMA-BHC	0.00	0.00	0	0	N.D.	N.D.
4) BETA-BHC	8.02	0.00	16415788	0	0.354	N.D. #
5) HEPTACHLOR	8.16f	0.00	31547842	0	0.316	N.D. #
6) DELTA-BHC	0.00	0.00	0	0	N.D.	N.D.
7) ALDRIN	0.00	0.00	0	0	N.D.	N.D.
8) HEPTACHLOR EPOXI	0.00	0.00	0	0	N.D.	N.D.
9) GAMMA CHLORDANE	0.00	0.00	0	0	N.D.	N.D.
10) ALPHA CHLORDANE	0.00	0.00	0	0	N.D.	N.D.
11) ENDOSULFAN I	0.00	0.00	0	0	N.D.	N.D.
12) 4-4' DDE	0.00	0.00	0	0	N.D.	N.D.
13) DIELDRIN	0.00	0.00	0	0	N.D.	N.D.
14) ENDRIN	0.00	0.00	0	0	N.D.	N.D.
15) 4-4' DDD	0.00	12.29	0	6789552	N.D.	0.277 #
16) ENDOSULFAN II	0.00	0.00	0	0	N.D.	N.D.
17) 4-4' DDT	0.00	0.00	0	0	N.D.	N.D.
18) ENDRIN ALDEHYDE	0.00	0.00	0	0	N.D.	N.D.
19) ENDOSULFAN SULFA	0.00	0.00	0	0	N.D.	N.D.
20) METHOXYCHLOR	0.00	0.00	0	0	N.D.	N.D.
21) ENDRIN KETONE	0.00	0.00	0	0	N.D.	N.D.

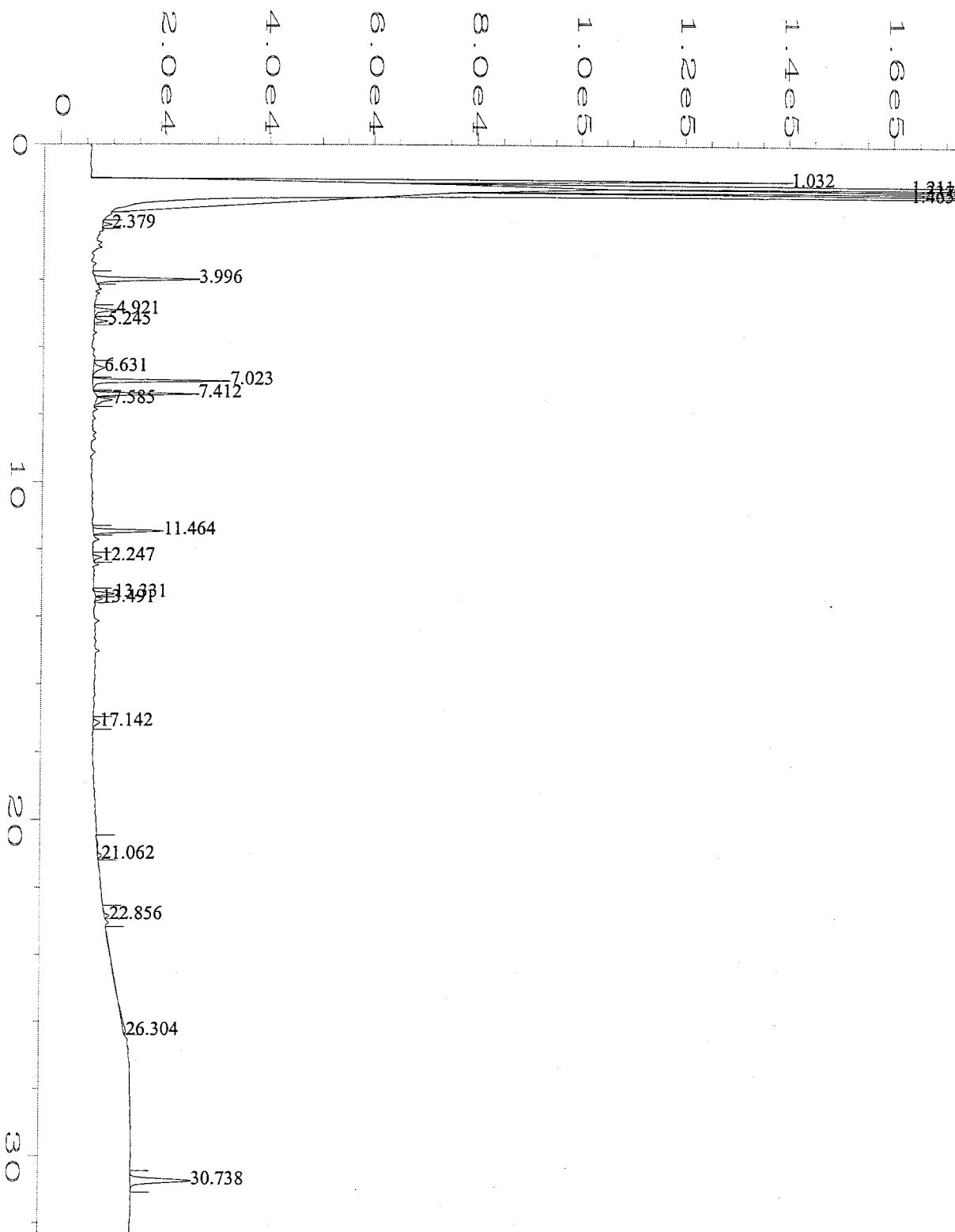
Vial: 25
Operator: ECL
Inst : GC/MS Ins
Multiplr: 0.33

Vial: 25
Operator: ECL
Inst : GC/MS Ins
Multiplr: 0.33

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)

: Volume Inj.	:
: Signal #1 Phase :	: Signal #2 Phase:
: Signal #1 Info :	: Signal #2 Info :





Data File Name	: C:\HPCHEM\1\DATA\093098\033F0101.D	Page Number	: 1
Operator	: ECL	Vial Number	: 33
Instrument	: HP4	Injection Number	: 1
Sample Name	: 09-522-06	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: 1660F.MTH
Acquired on	: 01 Oct 98 08:30 AM	Analysis Method	: 1660F.MTH
Report Created on:	01 Oct 98 03:11 PM	Sample Amount	: 0
Last Recalib on	: 24 SEP 98 09:00 AM	ISTD Amount	:
Multiplier	: 0.33		

External Standard Report

```

Data File Name      : C:\HPCHEM\1\DATA\093098\033F0101.D
Operator            : ECL
Instrument           : HP4
Sample Name         : 09-522-06
Run Time Bar Code   :
Acquired on         : 01 Oct 98 08:30 AM
Report Created on   : 01 Oct 98 03:11 PM
Last Recalib on    : 24 SEP 98 09:00 AM
Multiplier          : 0.33

Page Number         : 1
Vial Number         : 33
Injection Number    : 1
Sequence Line       : 1
Instrument Method    : 1660F.MTH
Analysis Method     : 1660F.MTH
Sample Amount       : 0
ISTD Amount         :
  
```

Sig. 1 in C:\HPCHEM\1\DATA\093098\033F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
7.023	112397	BB	0.066	1	3.918	TETRACHLORO-M-XYL
9.360	* not found *			1		PCB1016 #1
10.886	* not found *			1		PCB1016 #2
11.979	* not found *			1		PCB1016 #3
12.247	8455	BB	0.085	1	3.922	PCB1016 #4
14.598	* not found *			1		PCB1016 #5
19.804	* not found *			1		PCB1260 #1
20.187	* not found *			1		PCB1260 #2
21.689	* not found *			1		PCB1260 #3
24.185	* not found *			1		PCB1260 #4
25.889	* not found *			1		PCB1260 #5
30.738	97032	BB	0.127	1	4.282	DECACHLOROBIPHENYL

Not all calibrated peaks were found

Data File : C:\HPCHEM\1\DATA\093098\414.D\ECD1A.CH Vial: 26
 Acq On : 10-1-98 2:18:17 Operator: ECL
 Sample : 09-522-07 Inst : GC/MS Ins
 Misc : SOIL Multiplr: 0.33
 IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\093098\414.D\ECD2B.CH Vial: 26
 Acq On : 10-1-98 2:43:02 Operator: ECL
 Sample : 09-522-06 Inst : GC/MS Ins
 Misc : SOIL Multiplr: 0.33
 IntFile : autoint2.e

Quant Time: Oct 1 8:43 1998 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
 Title : PEST
 Last Update : Tue Sep 22 08:33:05 1998
 Response via : Initial Calibration
 DataAcq Meth : 8081.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L

System Monitoring Compounds						
1) S TETRACHLORO-M-XY	5.69	6.73	444.4E6	168.5E6	13.902	13.887
Spiked Amount	20.000		Recovery	=	69.51%	69.44%
22) S DECACHLOROBIPHEN	14.83	15.41	277.5E6	109.5E6	19.448	18.643
Spiked Amount	20.000		Recovery	=	97.24%	93.22%
Target Compounds						
2) ALPHA-BHC	0.00	0.00	0	0	N.D.	N.D.
3) GAMMA-BHC	0.00	0.00	0	0	N.D.	N.D.
4) BETA-BHC	8.02	0.00	23852564	0	0.515	N.D. #
5) HEPTACHLOR	8.16f	0.00	89333009	0	0.894	N.D. #
6) DELTA-BHC	0.00	0.00	0	0	N.D.	N.D.
7) ALDRIN	0.00	0.00	0	0	N.D.	N.D.
8) HEPTACHLOR EPOXI	0.00	0.00	0	0	N.D.	N.D.
9) GAMMA CHLORDANE	0.00	0.00	0	0	N.D.	N.D.
10) ALPHA CHLORDANE	0.00	0.00	0	0	N.D.	N.D.
11) ENDOSULFAN I	0.00	0.00	0	0	N.D.	N.D.
12) 4-4' DDE	0.00	0.00	0	0	N.D.	N.D.
13) DIELDRIN	0.00	0.00	0	0	N.D.	N.D.
14) ENDRIN	0.00	0.00	0	0	N.D.	N.D.
15) 4-4' DDD	0.00	12.29	0	7155486	N.D.	0.292 #
16) ENDOSULFAN II	0.00	0.00	0	0	N.D.	N.D.
17) 4-4' DDT	0.00	0.00	0	0	N.D.	N.D.
18) ENDRIN ALDEHYDE	0.00	0.00	0	0	N.D.	N.D.
19) ENDOSULFAN SULFA	0.00	0.00	0	0	N.D.	N.D.
20) METHOXYCHLOR	0.00	0.00	0	0	N.D.	N.D.
21) ENDRIN KETONE	0.00	0.00	0	0	N.D.	N.D.

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
 414.D 8081.M Thu Oct 01 08:43:11 1998

Data File : C:\HPCHEM\1\DATA\093098\414.D\ECD1A.CH Vial: 26
 Acq On : 10-1-98 2:18:17 Operator: ECL
 Sample : 09-522-07 Inst : GC/MS Ins
 Misc : SOIL Multiplr: 0.33
 IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\093098\414.D\ECD2B.CH Vial: 26
 Acq On : 10-1-98 2:43:02 Operator: ECL
 Sample : 09-522-06 Inst : GC/MS Ins
 Misc : SOIL Multiplr: 0.33
 IntFile : autoint2.e

Quant Time: Oct 1 8:43 1998 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)

Title : PEST

Last Update : Tue Sep 22 08:33:05 1998

Response via : Multiple Level Calibration

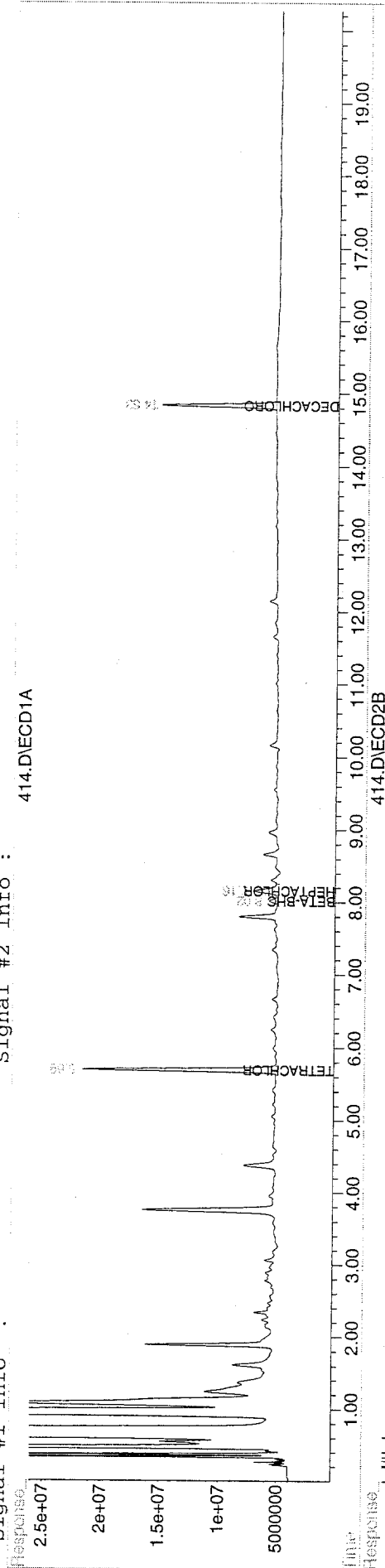
DataAcq Meth : 8081.M

Volume Inj. :

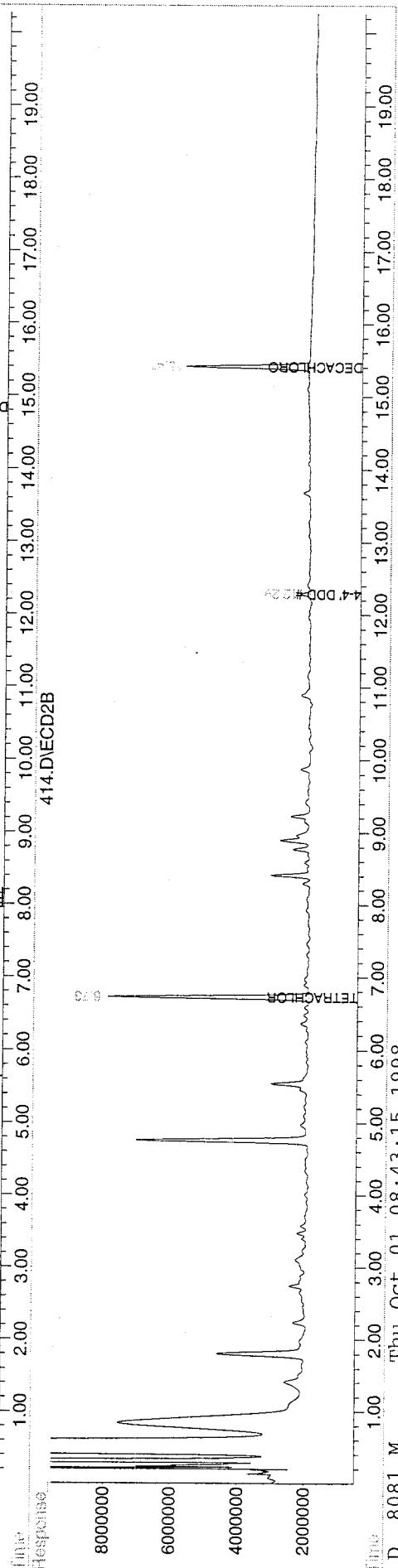
Signal #1 Phase : Signal #2 Phase:

Signal #1 Info : Signal #2 Info :

414.D\ECD1A

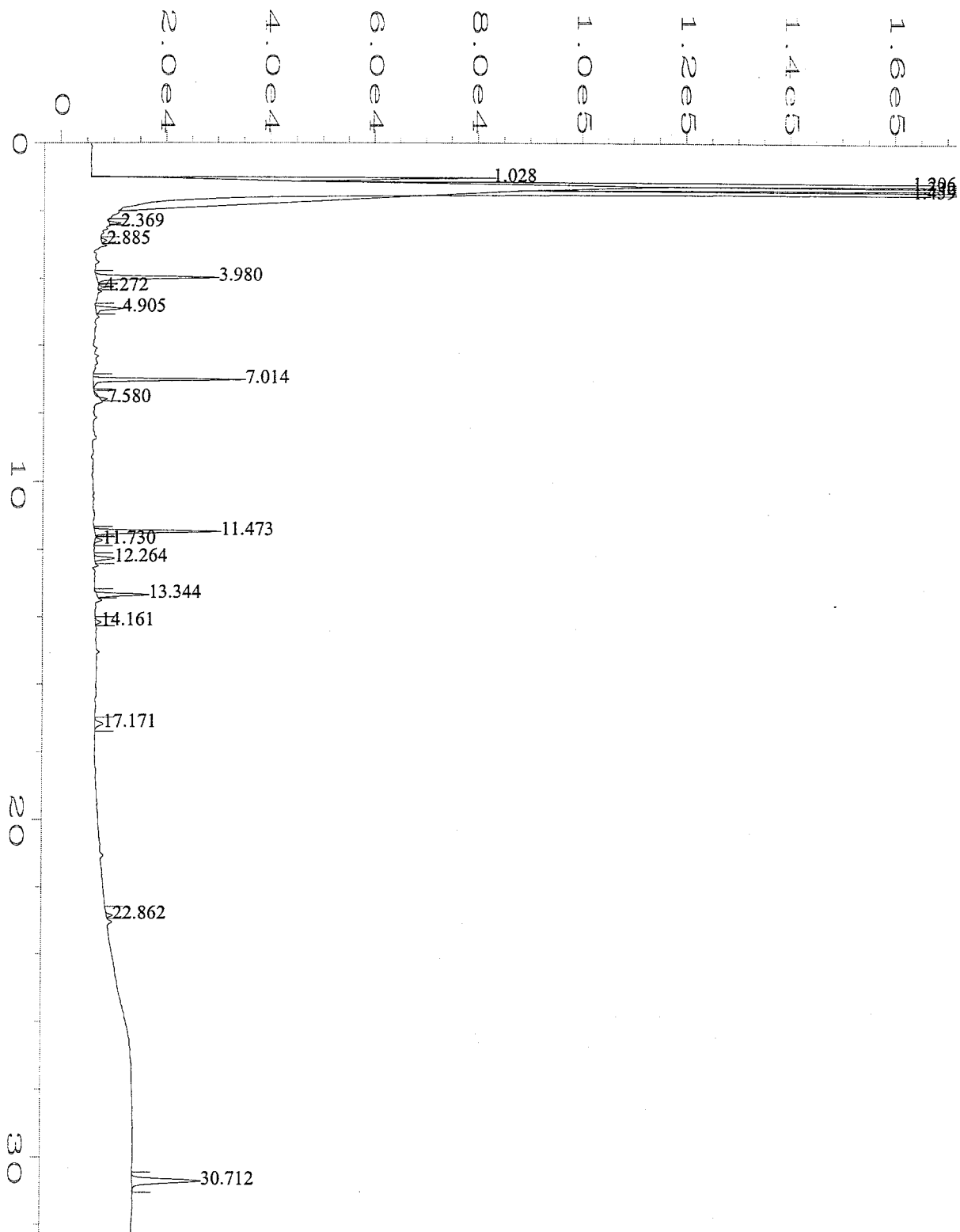


414.D\ECD2B



40

414.D 8081.M Thu Oct 01 08:43:15 1998



Data File Name	: C:\HPCHEM\1\DATA\093098\034F0101.D	Page Number	: 1
Operator	: ECL	Vial Number	: 34
Instrument	: HP4	Injection Number	: 1
Sample Name	: 09-522-07	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	1660F.MTH
Acquired on	: 01 Oct 98 09:05 AM	Analysis Method	: 1660F.MTH
Report Created on:	01 Oct 98 03:12 PM	Sample Amount	: 0
Last Recalib on	: 24 SEP 98 09:00 AM	ISTD Amount	:
Multiplier	: 0.33		

External Standard Report

```

Data File Name      : C:\HPCHEM\1\DATA\093098\034F0101.D
Operator            : ECL
Instrument           : HP4
Sample Name         : 09-522-07
Run Time Bar Code   :
Acquired on         : 01 Oct 98 09:05 AM
Report Created on   : 01 Oct 98 03:12 PM
Last Recalib on    : 24 SEP 98 09:00 AM
Multiplier          : 0.33

Page Number         : 1
Vial Number         : 34
Injection Number    : 1
Sequence Line       : 1
Instrument Method    : 1660F.MTH
Analysis Method     : 1660F.MTH
Sample Amount       : 0
ISTD Amount         :
  
```

Sig. 1 in C:\HPCHEM\1\DATA\093098\034F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
7.014	124331	BB	0.066	1	4.334	TETRACHLORO-M-XYL
9.360	* not found *			1		PCB1016 #1
10.886	* not found *			1		PCB1016 #2
11.979	* not found *			1		PCB1016 #3
12.264	19654	BB	0.084	1	9.116	PCB1016 #4
14.598	* not found *			1		PCB1016 #5
19.804	* not found *			1		PCB1260 #1
20.187	* not found *			1		PCB1260 #2
21.689	* not found *			1		PCB1260 #3
24.185	* not found *			1		PCB1260 #4
25.889	* not found *			1		PCB1260 #5
30.712	109345	BB	0.130	1	4.825	DECACHLOROBIPHENYL

Not all calibrated peaks were found

Data File : C:\HPCHEM\1\DATA\093098\415.D\ECD1A.CH Vial: 27
 Acq On : 10-1-98 2:43:02 Operator: ECL
 Sample : 09-522-08 Inst : GC/MS Ins
 Misc : SOIL Multiplr: 0.33
 IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\093098\415.D\ECD2B.CH Vial: 27
 Acq On : 10-1-98 3:07:49 Operator: ECL
 Sample : 09-522-07 Inst : GC/MS Ins
 Misc : SOIL Multiplr: 0.33
 IntFile : autoint2.e
 Quant Time: Oct 1 8:43 1998 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
 Title : PEST
 Last Update : Tue Sep 22 08:33:05 1998
 Response via : Initial Calibration
 DataAcq Meth : 8081.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L

System Monitoring Compounds						
1) S TETRACHLORO-M-XY	5.69	6.73	333.9E6	126.4E6	10.445	10.418
Spiked Amount 20.000			Recovery	=	52.23%	52.09%
22) S DECACHLOROBIPHEN	14.83	15.41	207.1E6	80040600	14.516	13.625
Spiked Amount 20.000			Recovery	=	72.58%	68.13%
Target Compounds						
2) ALPHA-BHC	0.00	0.00	0	0	N.D.	N.D.
3) GAMMA-BHC	0.00	0.00	0	0	N.D.	N.D.
4) BETA-BHC	0.00	0.00	0	0	N.D.	N.D.
5) HEPTACHLOR	8.14f	0.00	25032216	0	0.251	N.D. #
6) DELTA-BHC	0.00	0.00	0	0	N.D.	N.D.
7) ALDRIN	0.00	0.00	0	0	N.D.	N.D.
8) HEPTACHLOR EPOXI	0.00	0.00	0	0	N.D.	N.D.
9) GAMMA CHLORDANE	0.00	0.00	0	0	N.D.	N.D.
10) ALPHA CHLORDANE	0.00	0.00	0	0	N.D.	N.D.
11) ENDOSULFAN I	0.00	0.00	0	0	N.D.	N.D.
12) 4-4' DDE	0.00	0.00	0	0	N.D.	N.D.
13) DIELDRIN	0.00	0.00	0	0	N.D.	N.D.
14) ENDRIN	0.00	0.00	0	0	N.D.	N.D.
15) 4-4' DDD	0.00	12.29	0	6441001	N.D.	0.263 #
16) ENDOSULFAN II	0.00	0.00	0	0	N.D.	N.D.
17) 4-4' DDT	0.00	0.00	0	0	N.D.	N.D.
18) ENDRIN ALDEHYDE	0.00	0.00	0	0	N.D.	N.D.
19) ENDOSULFAN SULFA	0.00	0.00	0	0	N.D.	N.D.
20) METHOXYCHLOR	0.00	0.00	0	0	N.D.	N.D.
21) ENDRIN KETONE	0.00	0.00	0	0	N.D.	N.D.

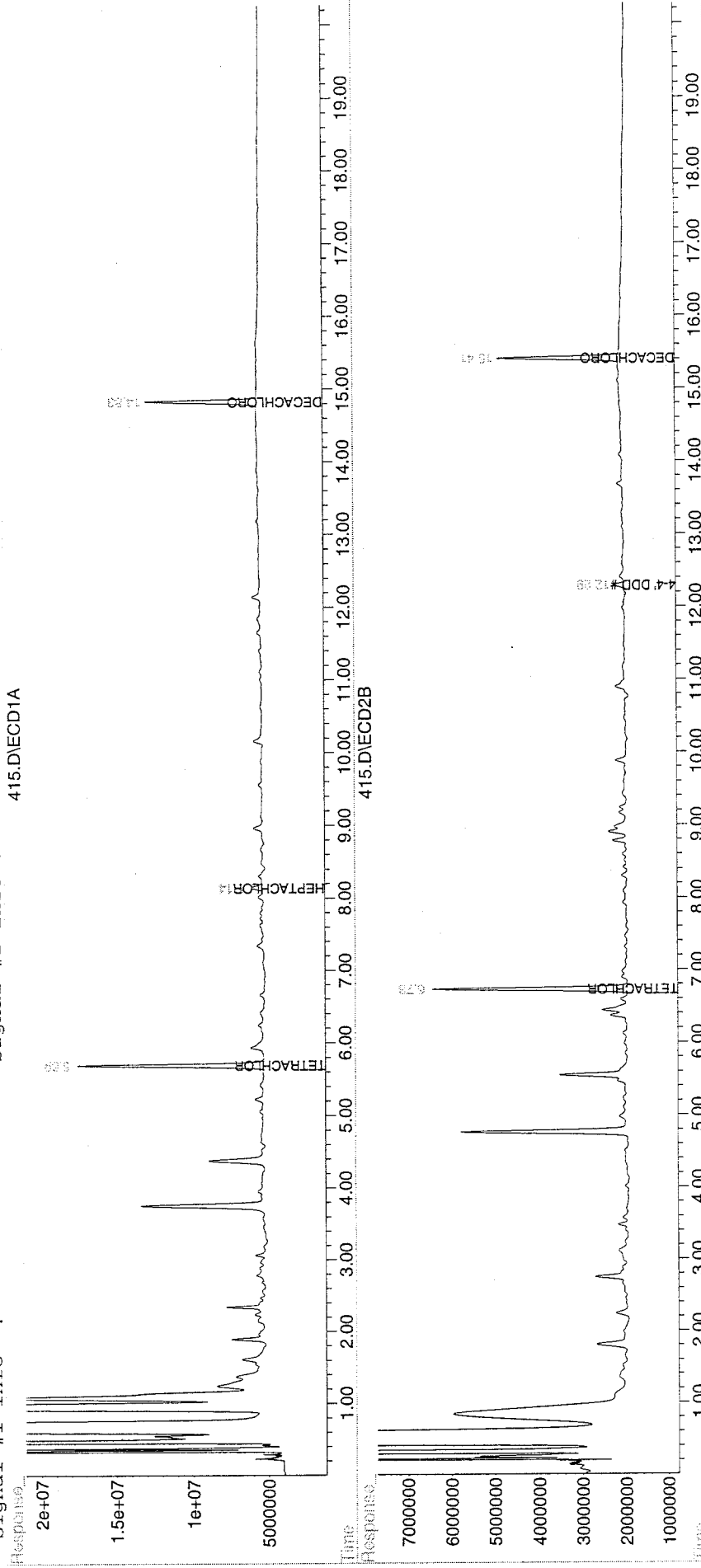
Quantitation Report

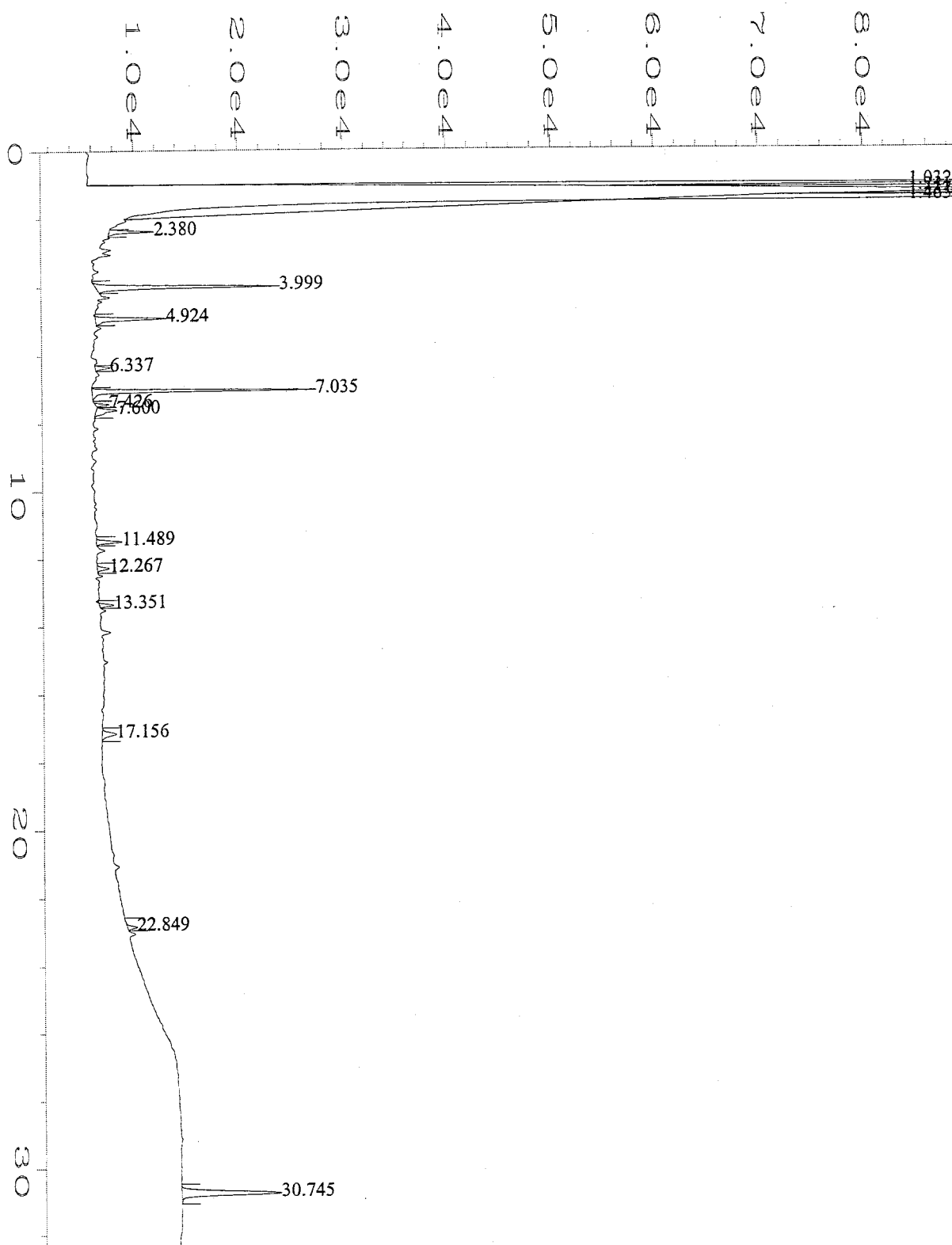
Data File : C:\HPCHEM\1\DATA\093098\415.D\ECD1A.CH Vial: 27
 Acq On : 10-1-98 2:43:02 Operator: ECL
 Sample : 09-522-08 Inst : GC/MS Ins
 Misc : SOIL Multiplr: 0.33
 IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\093098\415.D\ECD2B.CH Vial: 27
 Acq On : 10-1-98 3:07:49 Operator: ECL
 Sample : 09-522-07 Inst : GC/MS Ins
 Misc : SOIL Multiplr: 0.33
 IntFile : autoint2.e
 Quant Time: Oct 1 8:43 1998 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
 Title : PEST
 Last Update : Tue Sep 22 08:33:05 1998
 Response via : Multiple Level Calibration
 DataAcq Meth : 8081.M

Volume Inj. :
 Signal #1 Phase :
 Signal #1 Info :
 Signal #2 Phase :
 Signal #2 Info : 415.D\ECD1A





Data File Name	: C:\HPCHEM\1\DATA\093098\035F0101.D	Page Number	: 1
Operator	: ECL	Vial Number	: 35
Instrument	: HP4	Injection Number	: 1
Sample Name	: 09-522-08	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	1660F.MTH
Acquired on	: 01 Oct 98 09:41 AM	Analysis Method	: 1660F.MTH
Report Created on:	01 Oct 98 03:12 PM	Sample Amount	: 0
Last Recalib on	: 24 SEP 98 09:00 AM	ISTD Amount	:
Multiplier	: 0.33		

External Standard Report

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Data File Name      : C:\HPCHEM\1\DATA\093098\035F0101.D
Operator           : ECL
Instrument          : HP4
Sample Name        : 09-522-08
Run Time Bar Code  :
Acquired on        : 01 Oct 98  09:41 AM
Report Created on  : 01 Oct 98  03:12 PM
Last Recalib on   : 24 SEP 98  09:00 AM
Multiplier         : 0.33

Page Number        : 1
Vial Number        : 35
Injection Number   : 1
Sequence Line      : 1
Instrument Method   : 1660F.MTH
Analysis Method    : 1660F.MTH
Sample Amount      : 0
ISTD Amount        :
  
```

Sig. 1 in C:\HPCHEM\1\DATA\093098\035F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
7.035	92277	BB	0.067	1	3.217	TETRACHLORO-M-XYL
9.360	* not found *			1		PCB1016 #1
10.886	* not found *			1		PCB1016 #2
11.979	* not found *			1		PCB1016 #3
12.267	6210	BB	0.085	1	2.880	PCB1016 #4
14.598	* not found *			1		PCB1016 #5
19.804	* not found *			1		PCB1260 #1
20.187	* not found *			1		PCB1260 #2
21.689	* not found *			1		PCB1260 #3
24.185	* not found *			1		PCB1260 #4
25.889	* not found *			1		PCB1260 #5
30.745	80318	BB	0.132	1	3.544	DECACHLOROBIPHENYL

Not all calibrated peaks were found

Data File : C:\HPCHEM\1\DATA\093098\416.D\ECD1A.CH Vial: 28
 Acq On : 10-1-98 3:07:49 Operator: ECL
 Sample : 09-522-09 Inst : GC/MS Ins
 Misc : SOIL Multiplr: 0.33
 IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\093098\416.D\ECD2B.CH Vial: 28
 Acq On : 10-1-98 3:32:44 Operator: ECL
 Sample : 09-522-09 Inst : GC/MS Ins
 Misc : Multiplr: 0.33
 IntFile : autoint2.e
 Quant Time: Oct 1 8:44 1998 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
 Title : PEST
 Last Update : Tue Sep 22 08:33:05 1998
 Response via : Initial Calibration
 DataAcq Meth : 8081.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L

System Monitoring Compounds						
1) S TETRACHLORO-M-XY	5.69	6.73	346.3E6	130.5E6	10.832	10.750
Spiked Amount 20.000			Recovery	=	54.16%	53.75%
22) S DECACHLOROBIPHEN	14.83	15.41	225.6E6	88313901	15.812	15.033
Spiked Amount 20.000			Recovery	=	79.06%	75.16%
Target Compounds						
2) ALPHA-BHC	0.00	0.00	0	0	N.D.	N.D.
3) GAMMA-BHC	0.00	0.00	0	0	N.D.	N.D.
4) BETA-BHC	8.02	0.00	37032879	0	0.800	N.D. #
5) HEPTACHLOR	8.17	0.00	84629865	0	0.847	N.D. #
6) DELTA-BHC	0.00	0.00	0	0	N.D.	N.D.
7) ALDRIN	0.00	0.00	0	0	N.D.	N.D.
8) HEPTACHLOR EPOXI	0.00	0.00	0	0	N.D.	N.D.
9) GAMMA CHLORDANE	0.00	0.00	0	0	N.D.	N.D.
10) ALPHA CHLORDANE	0.00	0.00	0	0	N.D.	N.D.
11) ENDOSULFAN I	0.00	0.00	0	0	N.D.	N.D.
12) 4-4' DDE	0.00	0.00	0	0	N.D.	N.D.
13) DIELDRIN	0.00	0.00	0	0	N.D.	N.D.
14) ENDRIN	0.00	0.00	0	0	N.D.	N.D.
15) 4-4' DDD	0.00	12.29	0	6059212	N.D.	0.247 #
16) ENDOSULFAN II	0.00	0.00	0	0	N.D.	N.D.
17) 4-4' DDT	0.00	0.00	0	0	N.D.	N.D.
18) ENDRIN ALDEHYDE	0.00	0.00	0	0	N.D.	N.D.
19) ENDOSULFAN SULFA	0.00	0.00	0	0	N.D.	N.D.
20) METHOXYCHLOR	0.00	0.00	0	0	N.D.	N.D.
21) ENDRIN KETONE	0.00	0.00	0	0	N.D.	N.D.

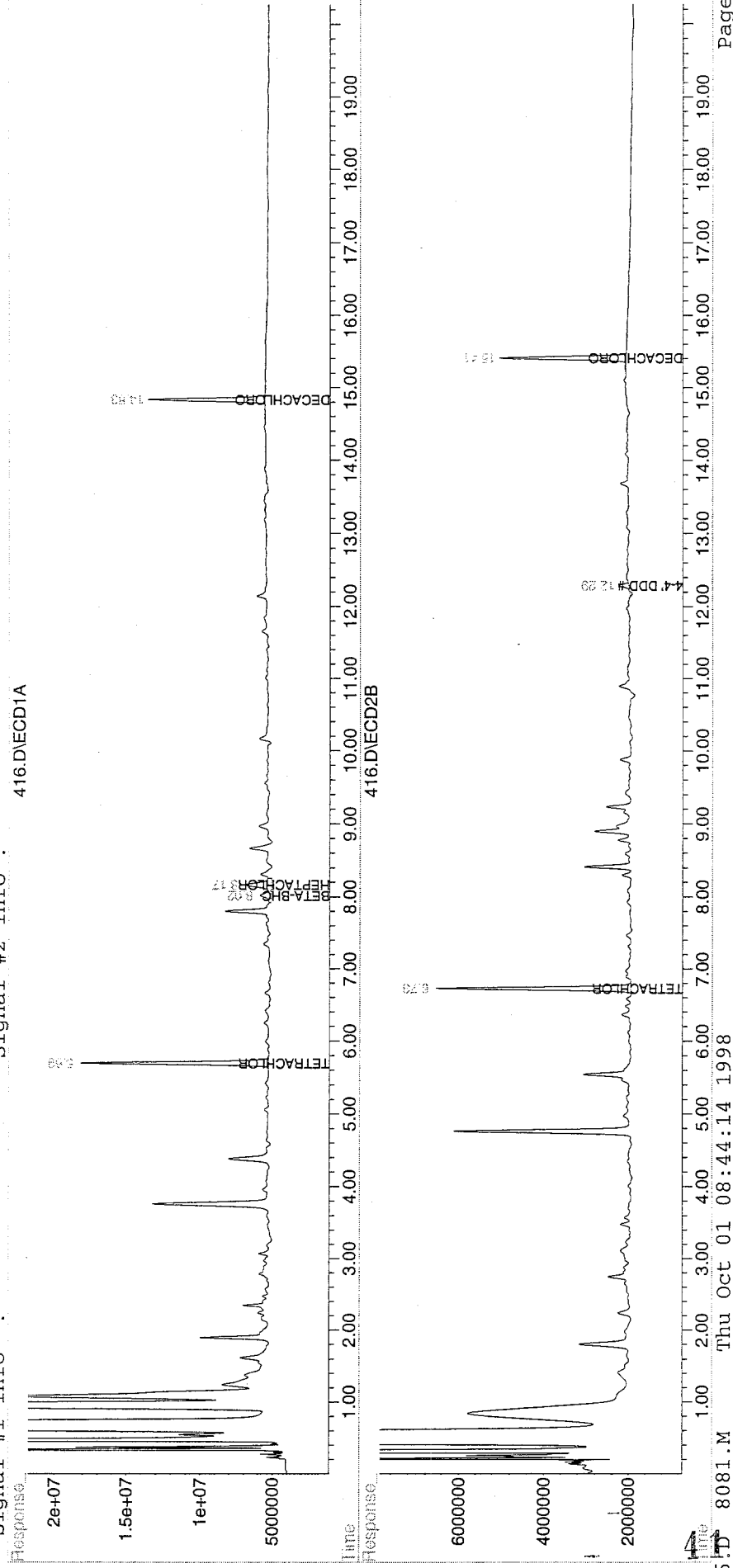
Quantitation Report

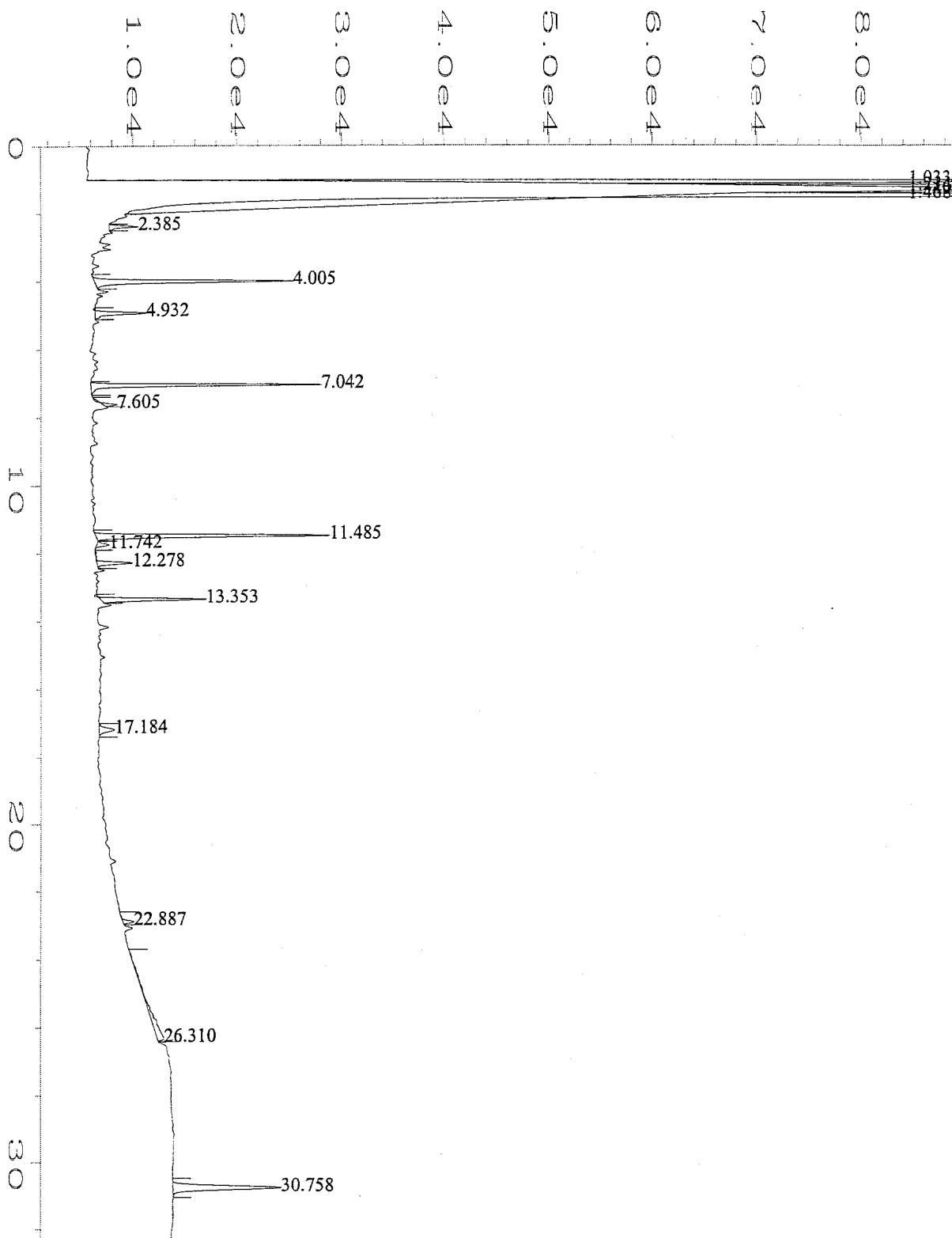
Data File : C:\HPCHEM\1\DATA\093098\416.D\ECD1A.CH Vial: 28
 Acq On : 10-1-98 3:07:49 Operator: ECL
 Sample : 09-522-09 Inst : GC/MS Ins
 Misc : SOIL Multiplr: 0.33
 IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\093098\416.D\ECD2B.CH Vial: 28
 Acq On : 10-1-98 3:32:44 Operator: ECL
 Sample : 09-522-09 Inst : GC/MS Ins
 Misc : Multiplr: 0.33
 IntFile : autoint2.e
 Quant Time: Oct 1 8:44 1998 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
 Title : PEST
 Last Update : Tue Sep 22 08:33:05 1998
 Response via : Multiple Level Calibration
 DataAcq Meth : 8081.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :





Data File Name	: C:\HPCHEM\1\DATA\093098\037F0101.D	Page Number	: 1
Operator	: ECL	Vial Number	: 37
Instrument	: HP4	Injection Number	: 1
Sample Name	: 09-522-09	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: 1660F.MTH
Acquired on	: 01 Oct 98 10:52 AM	Analysis Method	: 1660F.MTH
Report Created on	: 01 Oct 98 03:12 PM	Sample Amount	: 0
Last Recalib on	: 24 SEP 98 09:00 AM	ISTD Amount	:
Multiplier	: 0.33		

External Standard Report

```

Data File Name   : C:\HPCHEM\1\DATA\093098\037F0101.D
Operator        : ECL
Instrument       : HP4
Sample Name     : 09-522-09
Run Time Bar Code:
Acquired on    : 01 Oct 98 10:52 AM
Report Created on: 01 Oct 98 03:12 PM
Last Recalib on : 24 SEP 98 09:00 AM
Multiplier     : 0.33

Page Number      : 1
Vial Number     : 37
Injection Number : 1
Sequence Line   : 1
Instrument Method: 1660F.MTH
Analysis Method : 1660F.MTH
Sample Amount   : 0
ISTD Amount     :
  
```

Sig. 1 in C:\HPCHEM\1\DATA\093098\037F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
7.042	94847	BB	0.066	1	3.306	TETRACHLORO-M-XYL
9.360	* not found *			1		PCB1016 #1
10.886	* not found *			1		PCB1016 #2
11.979	* not found *			1		PCB1016 #3
12.278	17846	BB	0.084	1	8.278	PCB1016 #4
14.598	* not found *			1		PCB1016 #5
19.804	* not found *			1		PCB1260 #1
20.187	* not found *			1		PCB1260 #2
21.689	* not found *			1		PCB1260 #3
24.185	* not found *			1		PCB1260 #4
25.889	* not found *			1		PCB1260 #5
30.758	86628	BB	0.132	1	3.823	DECACHLOROBIPHENYL

Not all calibrated peaks were found

Standards Data

- Initial calibration summary forms (Average Response Factor or Higher Order Calibration Data)

Chromatograms and GC Integration reports of standards for each column

- Check standards forms, including ending checks (Continuing Calibration Data)

Chromatograms and GC Integration reports of standards for each column

Response Factor Report GC/MS Ins

Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)

Title : PEST

Last Update : Tue Sep 22 08:33:05 1998

Calibration Files

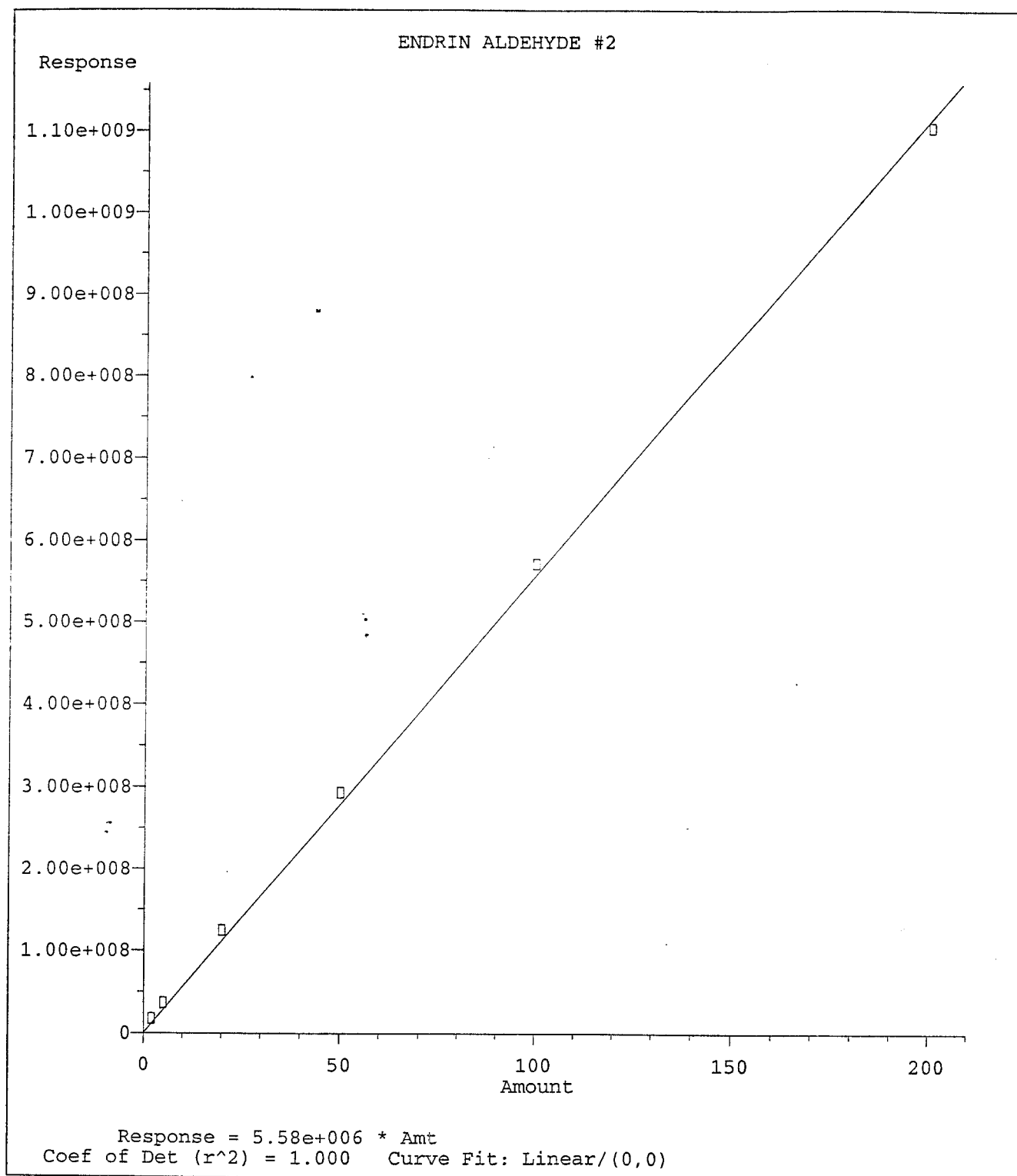
1	=342.D	2	=341.D	3	=340.D
4	=339.D	5	=338.D	6	=337.D

	Compound	1	2	3	4	5	6	Avg		%RSD
1) S	TETRACHLORO-M-XYLEN	4.040	3.732	3.326	3.032	2.680	2.369	3.197	E7	19.75
2)	ALPHA-BHC	4.653	4.537	4.347	4.069	3.683	3.346	4.106	E7	12.42
3)	GAMMA-BHC	3.945	3.803	3.635	3.407	3.116	2.836	3.457	E7	12.23
4)	BETA-BHC	1.941	1.768	1.564	1.430	1.279	1.189	1.528	E7	18.89
5)	HEPTACHLOR	3.912	3.644	3.422	3.199	2.933	2.674	3.297	E7	13.86
6)	DELTA-BHC	3.216	3.145	3.130	3.002	2.817	2.606	2.986	E7	7.81
7)	ALDRIN	3.183	3.056	3.017	2.904	2.670	2.489	2.887	E7	9.02
8)	HEPTACHLOR EPOXIDE	3.027	2.839	2.653	2.502	2.332	2.153	2.584	E7	12.50
9)	GAMMA CHLORDANE	3.002	2.819	2.611	2.457	2.303	2.131	2.554	E7	12.69
10)	ALPHA CHLORDANE	2.986	2.762	2.526	2.367	2.198	2.048	2.481	E7	14.15
11)	ENDOSULFAN I	2.678	2.536	2.380	2.256	2.118	1.961	2.322	E7	11.43
12)	4-4' DDE	2.424	2.360	2.359	2.274	2.172	2.033	2.270	E7	6.40
13)	DIELDRIN	2.533	2.418	2.382	2.307	2.199	2.066	2.317	E7	7.18
14)	ENDRIN	1.933	1.885	1.903	1.858	1.809	1.680	1.845	E7	4.92
15)	4-4' DDD	1.894	1.908	1.895	1.825	1.754	1.629	1.817	E7	6.00
16)	ENDOSULFAN II	2.121	2.096	1.992	1.900	1.823	1.700	1.939	E7	8.41
17)	4-4' DDT	1.518	1.551	1.651	1.656	1.664	1.577	1.603	E7	3.88
18)	ENDRIN ALDEHYDE	1.758	1.617	1.544	1.425	1.385	1.292	1.504	E7	11.29
19)	ENDOSULFAN SULFATE	1.888	1.813	1.747	1.693	1.650	1.535	1.721	E7	7.23
20)	METHOXYCHLOR	7.866	7.697	7.707	7.402	7.238	6.756	7.444	E6	5.47
21)	ENDRIN KETONE	1.847	1.791	1.797	1.718	1.638	1.530	1.720	E7	6.88
22) S	DECACHLOROBIPHENYL	1.744	1.627	1.453	1.327	1.248	1.163	1.427	E7	15.75

Signal #2 Calibration Files

1	=342.D	2	=341.D	3	=340.D
4	=339.D	5	=338.D	6	=337.D

	Compound	1	2	3	4	5	6	Avg		%RSD
1) S	TETRACHLORO-M-XYLEN	1.437	1.364	1.245	1.168	1.079	0.990	1.214	E7	13.98
2)	ALPHA-BHC	1.824	1.823	1.780	1.700	1.584	1.463	1.695	E7	8.61
3)	GAMMA-BHC	1.624	1.531	1.483	1.396	1.299	1.241	1.429	E7	10.12
4)	BETA-BHC	8.035	7.339	6.476	6.030	5.628	5.261	6.461	E6	16.33
5)	HEPTACHLOR	1.564	1.489	1.397	1.327	1.244	1.161	1.364	E7	11.05
6)	DELTA-BHC	1.443	1.453	1.426	1.390	1.316	1.229	1.376	E7	6.37
7)	ALDRIN	1.310	1.285	1.239	1.200	1.139	1.074	1.208	E7	7.42
8)	HEPTACHLOR EPOXIDE	1.203	1.146	1.065	1.020	0.972	0.921	1.054	E7	10.07
9)	GAMMA CHLORDANE	1.084	1.046	0.988	0.961	0.928	0.887	0.982	E7	7.50
10)	ALPHA CHLORDANE	1.041	1.056	0.965	0.946	0.906	0.861	0.963	E7	7.87
11)	ENDOSULFAN I	1.068	0.962	0.920	0.881	0.850	0.820	0.917	E7	9.75
12)	4-4' DDE	9.614	9.490	9.322	9.207	8.966	8.631	9.205	E6	3.91
13)	DIELDRIN	9.642	9.566	9.355	9.261	9.017	8.686	9.254	E6	3.86
14)	ENDRIN	7.577	7.584	8.137	8.028	7.778	7.598	7.784	E6	3.16
15)	4-4' DDD	9.018	8.581	8.179	7.791	7.605	7.377	8.092	E6	7.71
16)	ENDOSULFAN II	7.963	7.909	7.637	7.550	7.358	7.101	7.586	E6	4.32
17)	4-4' DDT	8.056	6.955	6.698	6.784	6.779	6.756	7.004	E6	7.46
18)	ENDRIN ALDEHYDE	8.970	7.386	6.236	5.855	5.714	5.519	6.613	E6	20.14
19)	ENDOSULFAN SULFATE	7.580	7.533	7.159	7.002	6.877	6.683	7.139	E6	5.03
20)	METHOXYCHLOR	3.349	3.339	3.353	3.303	3.275	3.229	3.308	E6	1.48
21)	ENDRIN KETONE	7.776	7.899	7.679	7.585	7.503	7.255	7.616	E6	2.96
22) S	DECACHLOROBIPHENYL	6.561	6.595	5.907	5.598	5.413	5.175	5.875	E6	10.13



Method Name: C:\HPCHEM\1\METHODS\8081.M
Calibration Table Last Updated: Tue Sep 22 08:33:05 1998

Data File : C:\HPCHEM\1\DATA\092198\337.D\ECD1A.CH Vial: 9
 Acq On : 9-21-98 16:31:03 Operator: ECL
 Sample : PESTICIDE 200 PPB Inst : GC/MS Ins
 Misc : Multiplr: 1.00
 IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\092198\337.D\ECD2B.CH Vial: 9
 Acq On : 9-21-98 16:55:47 Operator: ECL
 Sample : TOXAPHENE ALT 0.5 PPM Inst : GC/MS Ins
 Misc : Multiplr: 1.00
 IntFile : autoint2.e

Quant Time: Sep 22 8:40 1998 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
 Title : PEST
 Last Update : Tue Sep 22 08:33:05 1998
 Response via : Initial Calibration
 DataAcq Meth : 8081.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L

System Monitoring Compounds						
1) S TETRACHLORO-M-XY	5.70	6.73	4738.6E6	1980.2E6	148.242	163.156
Spiked Amount 20.000			Recovery	=	741.21%	815.78%
22) S DECACHLOROBIPHEN	14.84	15.42	2326.9E6	1035.0E6	163.064	176.177
Spiked Amount 20.000			Recovery	=	815.32%	880.88%
Target Compounds						
2) ALPHA-BHC	6.95	7.49	6692.5E6	2925.4E6	163.001	172.542
3) GAMMA-BHC	7.66	8.08	5672.1E6	2481.4E6	164.065	173.688
4) BETA-BHC	8.01	8.61	2377.2E6	1052.2E6	155.528	162.843
5) HEPTACHLOR	8.19	9.11	5347.2E6	2322.0E6	162.170	170.263
6) DELTA-BHC	8.55	9.04	5213.0E6	2457.8E6	174.578	178.579
7) ALDRIN	8.74	9.66	4978.8E6	2148.0E6	172.474	177.805
8) HEPTACHLOR EPOXI	9.71	10.41	4306.1E6	1841.0E6	166.630	174.616
9) GAMMA CHLORDANE	10.03	10.95	4262.8E6	1773.3E6	166.913	180.540
10) ALPHA CHLORDANE	10.23	11.03	4096.1E6	1721.2E6	165.082	178.819
11) ENDOSULFAN I	10.32	11.07	3922.2E6	1640.7E6	168.943	178.956
12) 4-4' DDE	10.65	11.32	4065.8E6	1726.3E6	179.083	187.541
13) DIELDRIN	10.82	11.49	4131.5E6	1737.1E6	178.286	187.711
14) ENDRIN	11.39	11.85	3360.6E6	1519.7E6	182.188	195.236
15) 4-4' DDD	11.59	12.28	3257.9E6	1475.5E6	179.276	182.337
16) ENDOSULFAN II	11.78	12.13	3399.2E6	1420.1E6	175.353	187.193
17) 4-4' DDT	12.02	12.58	3153.9E6	1351.1E6	196.771	192.898
18) ENDRIN ALDEHYDE	12.21	12.44	2584.7E6	1103.8E6	171.904	197.877
19) ENDOSULFAN SULFA	12.44	12.86	3070.3E6	1336.6E6	178.404	187.222
20) METHOXYCHLOR	13.21	13.24	1351.1E6	645.8E6	181.500	195.233
21) ENDRIN KETONE	13.47	13.45	3059.7E6	1451.0E6	177.884	190.510

Data File : C:\HPCHEM\1\DATA\092198\337.D\ECD1A.CH

Data File : C:\HPCHEM\1\DATA\092198\337.D\ECD2B.CH

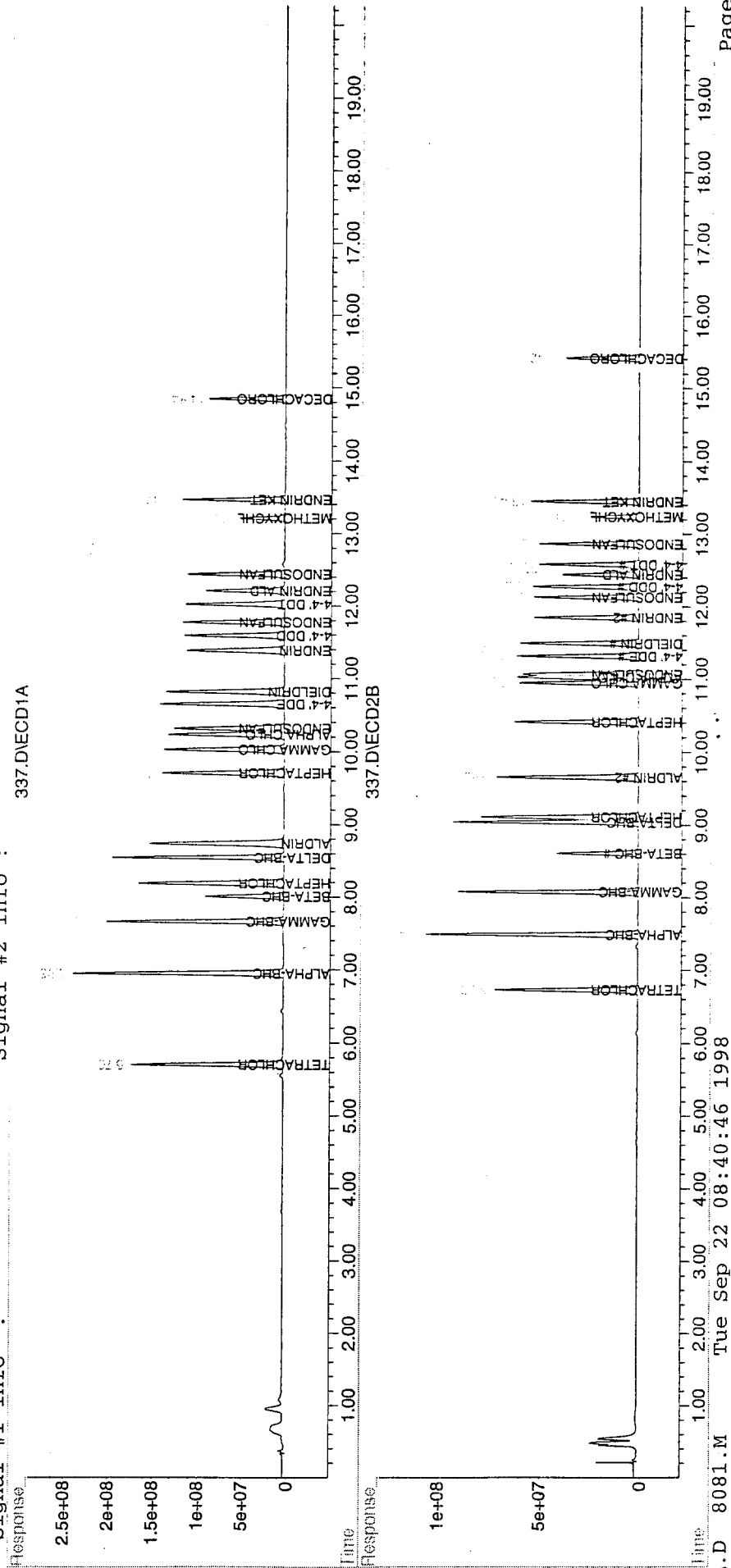
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Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)

Title : PEST

Volume Inj. :

337.D\ECD1A



Data File : C:\HPCHEM\1\DATA\092198\338.D\ECD1A.CH
 Acq On : 9-21-98 16:55:47
 Sample : PESTICIDE 100 PPB
 Misc :
 IntFile : autoint1.e

Vial: 10
 Operator: ECL
 Inst : GC/MS Ins
 Multiplr: 1.00

Data File : C:\HPCHEM\1\DATA\092198\338.D\ECD2B.CH
 Acq On : 9-21-98 17:20:34
 Sample : PESTICIDE 200 PPB
 Misc :
 IntFile : autoint2.e

Vial: 10
 Operator: ECL
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Time: Sep 22 8:40 1998 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
 Title : PEST
 Last Update : Tue Sep 22 08:33:05 1998
 Response via : Initial Calibration
 DataAcq Meth : 8081.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L

System Monitoring Compounds						
1) S TETRACHLORO-M-XY	5.70	6.73	2679.9E6	1078.5E6	83.837	88.862
Spiked Amount 20.000			Recovery	=	419.19%	444.31%
22) S DECACHLOROBIPHEN	14.84	15.41	1247.7E6	541.3E6	87.435	92.133
Spiked Amount 20.000			Recovery	=	437.18%	460.67%
Target Compounds						
2) ALPHA-BHC	6.95	7.49	3683.3E6	1583.8E6	89.710	93.414
3) GAMMA-BHC	7.66	8.08	3116.1E6	1298.7E6	90.132	90.907
4) BETA-BHC	8.00	8.61	1278.9E6	562.8E6	83.672	87.097
5) HEPTACHLOR	8.19	9.11	2933.4E6	1244.0E6	88.965	91.217
6) DELTA-BHC	8.54	9.04	2816.8E6	1316.1E6	94.331	95.624
7) ALDRIN	8.74	9.66	2669.5E6	1139.4E6	92.477	94.317
8) HEPTACHLOR EPOXI	9.70	10.41	2331.6E6	972.0E6	90.224	92.197
9) GAMMA CHLORDANE	10.02	10.95	2303.0E6	927.6E6	90.173	94.436
10) ALPHA CHLORDANE	10.23	11.02	2198.2E6	906.3E6	88.594	94.156
11) ENDOSULFAN I	10.31	11.07	2118.3E6	849.9E6	91.243	92.698
12) 4-4' DDE	10.65	11.32	2171.8E6	896.6E6	95.659	97.400
13) DIELDRIN	10.81	11.49	2198.8E6	901.7E6	94.882	97.432
14) ENDRIN	11.38	11.85	1808.6E6	777.8E6	98.052	99.927
15) 4-4' DDD	11.59	12.27	1753.8E6	760.5E6	96.511	93.983
16) ENDOSULFAN II	11.77	12.13	1823.0E6	735.8E6	94.039	96.994
17) 4-4' DDT	12.02	12.58	1663.6E6	677.9E6	103.790	96.779
18) ENDRIN ALDEHYDE	12.20	12.44	1384.9E6	571.4E6	92.111	102.429
19) ENDOSULFAN SULFA	12.43	12.86	1650.1E6	687.7E6	95.883	96.335
20) METHOXYCHLOR	13.20	13.24	723.8E6	327.5E6	97.226	99.013
21) ENDRIN KETONE	13.46	13.45	1637.8E6	750.3E6	95.218	98.518

422

Quantitation Report

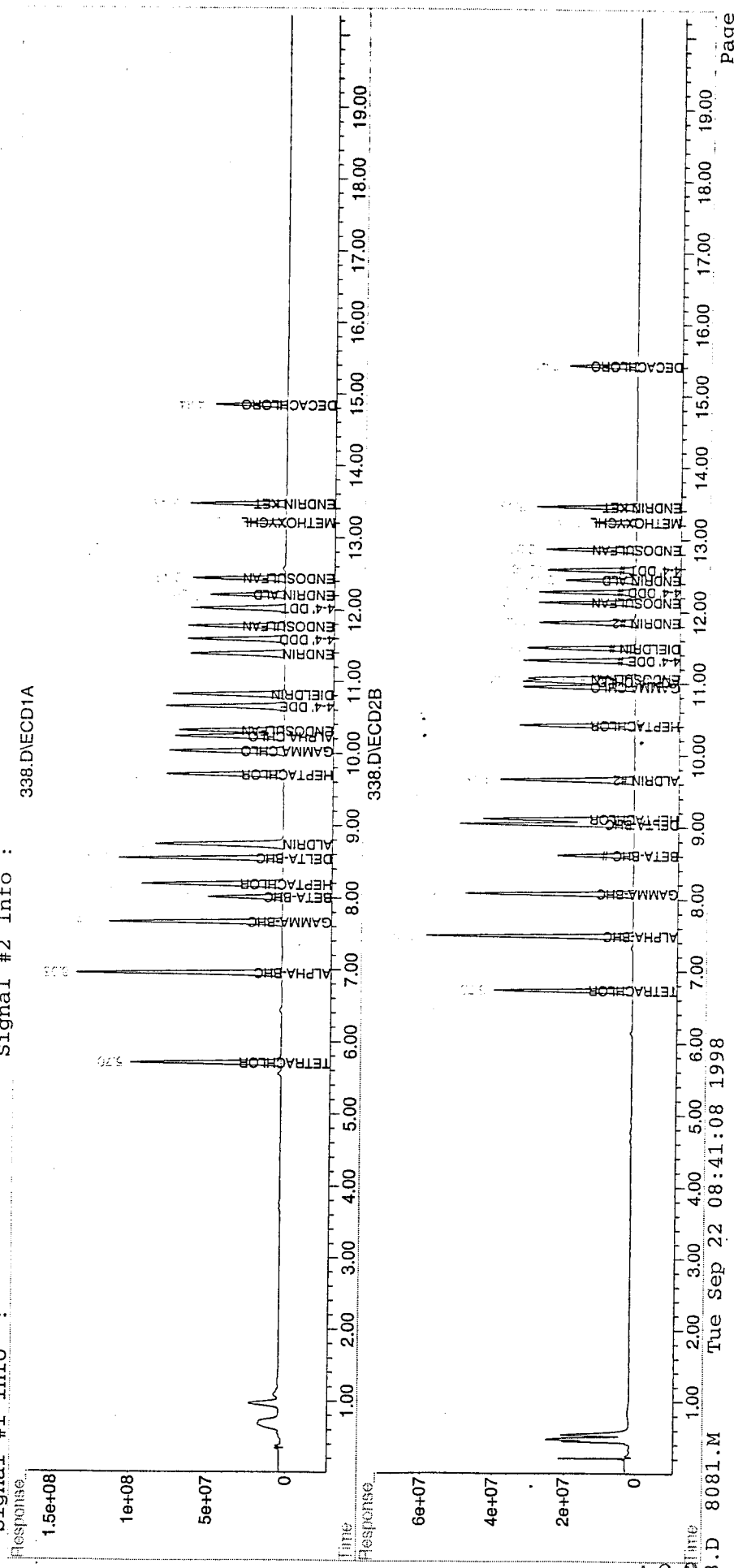
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Sample : PESTICIDE 100 PPB Operator: ECL
Misc : GC/MS Ins Inst : GC/MS Ins
IntFile : autoint1.e Multiplr: 1.00

Data File : C:\HPCHEM\1\DATA\092198\338.D\ECD2B.CH
Acq On : 9-21-98 17:20:34 Vial: 10
Sample : PESTICIDE 200 PPB Operator: ECL
Misc : GC/MS Ins Inst : GC/MS Ins
IntFile : autoint2.e Multiplr: 1.00

Quant Time: Sep 22 8:40 1998 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : PEST
Last Update : Tue Sep 22 08:33:05 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase :
Signal #1 Info :
Signal #2 Phase :
Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\092198\339.D\ECD1A.CH
 Acq On : 9-21-98 17:20:34
 Sample : PESTICIDE 50 PPB
 Misc :
 IntFile : autoint1.e

Vial: 11
 Operator: ECL
 Inst : GC/MS Ins
 Multiplr: 1.00

Data File : C:\HPCHEM\1\DATA\092198\339.D\ECD2B.CH
 Acq On : 9-21-98 17:45:32
 Sample : PESTICIDE 100 PPB
 Misc :
 IntFile : autoint2.e

Vial: 11
 Operator: ECL
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Time: Sep 22 8:41 1998 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
 Title : PEST
 Last Update : Tue Sep 22 08:33:05 1998
 Response via : Initial Calibration
 DataAcq Meth : 8081.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
System Monitoring Compounds						
1) S TETRACHLORO-M-XY	5.70	6.73	1516.2E6	583.8E6	47.431	48.104
Spiked Amount 20.000			Recovery	=	237.16%	240.52%
2) S DECACHLOROBIPHEN	14.84	15.42	663.3E6	279.9E6	46.483	47.647
Spiked Amount 20.000			Recovery	=	232.41%	238.23%
Target Compounds						
2) ALPHA-BHC	6.95	7.49	2034.4E6	849.8E6	49.550	50.120
3) GAMMA-BHC	7.66	8.08	1703.7E6	697.8E6	49.278	48.842
4) BETA-BHC	8.00	8.61	714.8E6	301.5E6	46.766	46.660
5) HEPTACHLOR	8.18	9.11	1599.6E6	663.7E6	48.513	48.666
6) DELTA-BHC	8.54	9.04	1500.9E6	695.2E6	50.264	50.510
7) ALDRIN	8.73	9.66	1452.0E6	600.0E6	50.300	49.671
8) HEPTACHLOR EPOXI	9.70	10.42	1251.1E6	510.1E6	48.413	48.378
9) GAMMA CHLORDANE	10.02	10.95	1228.5E6	480.4E6	48.101	48.907
0) ALPHA CHLORDANE	10.23	11.03	1183.6E6	473.2E6	47.701	49.160
1) ENDOSULFAN I	10.31	11.07	1128.2E6	440.5E6	48.595	48.049
2) 4-4' DDE	10.64	11.32	1137.2E6	460.3E6	50.090	50.009
3) DIELDRIN	10.81	11.50	1153.4E6	463.0E6	49.771	50.035
4) ENDRIN	11.38	11.85	929.0E6	401.4E6	50.363	51.567
5) 4-4' DDD	11.59	12.28	912.5E6	389.5E6	50.211	48.139
6) ENDOSULFAN II	11.77	12.13	949.9E6	377.5E6	49.001	49.763
7) 4-4' DDT	12.02	12.58	828.1E6	339.2E6	51.666	48.424
8) ENDRIN ALDEHYDE	12.20	12.44	712.7E6	292.7E6	47.400	52.481
9) ENDOSULFAN SULFA	12.43	12.87	846.4E6	350.1E6	49.182	49.042
0) METHOXYCHLOR	13.20	13.24	370.1E6	165.1E6	49.716	49.921
1) ENDRIN KETONE	13.46	13.45	858.9E6	379.2E6	49.934	49.795

Quantitation Report

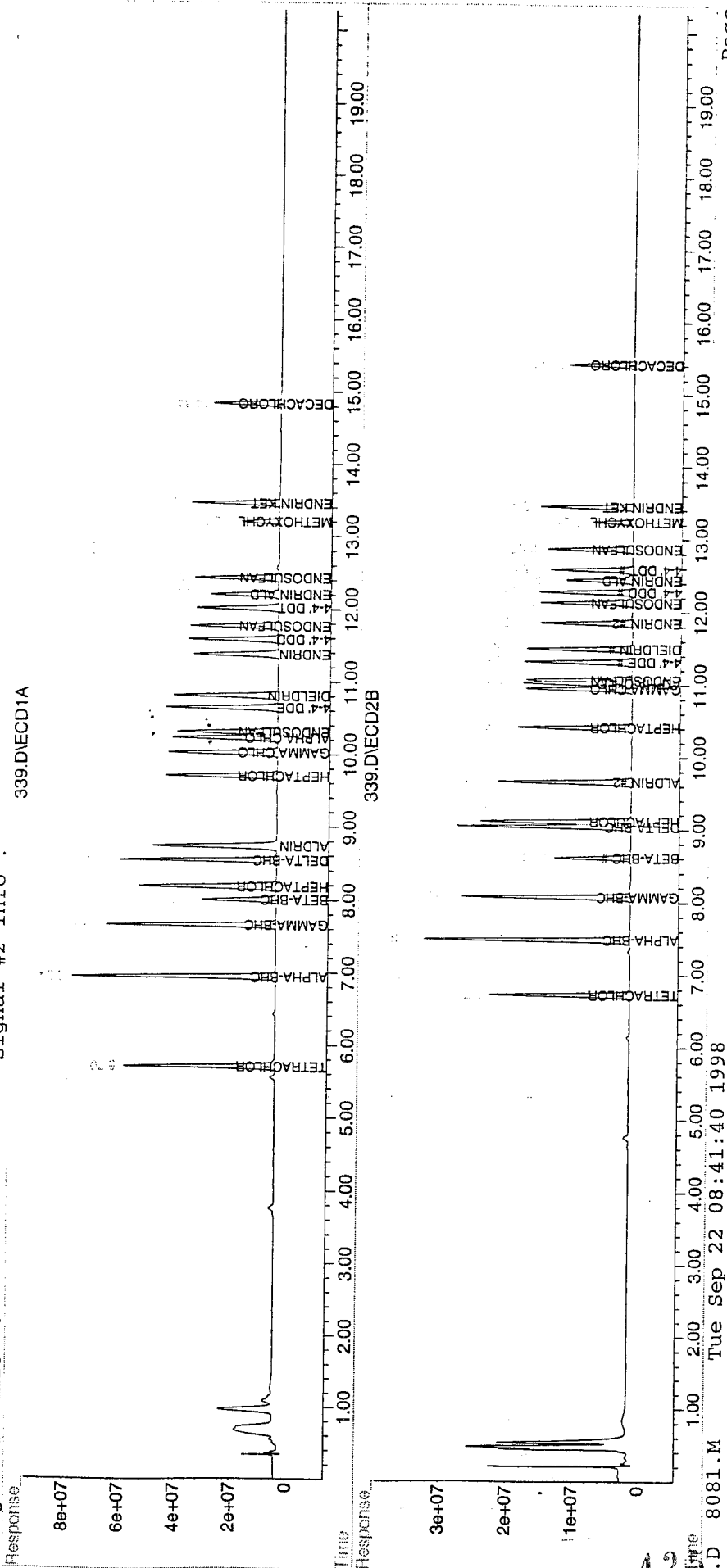
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Data File      : C:\HPCHEM\1\DATA\092198\339.D\ECD1A.CH
Acq On        : 9-21-98 17:20:34
Sample        : PESTICIDE 50 PPB
Misc          :
IntFile       : autoint1.e
```

Data File : C:\HPCHEM\1\DATA\092198\339.D\ECD2B.CH
Acq On : 9-21-98 17:45:32
Sample : PESTICIDE 100 PPB
Misc :
IntFile : autoint2.e
Quant Time: Sep 22 8:41 1998 Quant Results File:

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)

Last Update : Tue Sep 22 08:33:05 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj.	:
Signal #1 Phase	:
Signal #1 Info	:
Signal #2 Phase:	
Signal #2 Info :	



Data File : C:\HPCHEM\1\DATA\092198\340.D\ECD1A.CH Vial: 12
 Acq On : 9-21-98 17:45:32 Operator: ECL
 Sample : PESTICIDE 20 PPB Inst : GC/MS Ins
 Misc : Multiplr: 1.00
 IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\092198\340.D\ECD2B.CH Vial: 12
 Acq On : 9-21-98 18:10:17 Operator: ECL
 Sample : PESTICIDE 50 PPB Inst : GC/MS Ins
 Misc : Multiplr: 1.00
 IntFile : autoint2.e

Quant Time: Sep 22 8:41 1998 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
 Title : PEST
 Last Update : Tue Sep 22 08:33:05 1998
 Response via : Initial Calibration
 DataAcq Meth : 8081.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L

System Monitoring Compounds						
1) S TETRACHLORO-M-XY	5.70	6.73	665.1E6	248.9E6	20.808	20.508
Spiked Amount 20.000			Recovery	=	104.04%	102.54%
22) S DECACHLOROBIPHEN	14.84	15.42	290.7E6	118.1E6	20.369	20.110
Spiked Amount 20.000			Recovery	=	101.85%	100.55%
Target Compounds						
2) ALPHA-BHC	6.95	7.49	869.3E6	355.9E6	21.173	20.993
3) GAMMA-BHC	7.66	8.08	727.1E6	296.5E6	21.031	20.756
4) BETA-BHC	8.01	8.61	312.9E6	129.5E6	20.469	20.046
5) HEPTACHLOR	8.19	9.11	684.3E6	279.5E6	20.754	20.494
6) DELTA-BHC	8.54	9.04	625.9E6	285.2E6	20.962	20.721
7) ALDRIN	8.74	9.66	603.5E6	247.9E6	20.906	20.517
8) HEPTACHLOR EPOXI	9.70	10.41	530.6E6	212.9E6	20.533	20.194
9) GAMMA CHLORDANE	10.03	10.95	522.2E6	197.6E6	20.446	20.113
10) ALPHA CHLORDANE	10.23	11.02	505.1E6	193.0E6	20.359	20.052
11) ENDOSULFAN I	10.31	11.07	475.9E6	183.9E6	20.500	20.060
12) 4-4' DDE	10.65	11.32	471.7E6	186.4E6	20.778	20.255
13) DIELDRIN	10.82	11.49	476.3E6	187.1E6	20.554	20.218
14) ENDRIN	11.39	11.85	380.5E6	162.7E6	20.629	20.909
15) 4-4' DDD	11.59	12.28	378.9E6	163.6E6	20.852	20.215
16) ENDOSULFAN II	11.77	12.13	398.4E6	152.7E6	20.553	20.135
17) 4-4' DDT	12.02	12.58	330.2E6	134.0E6	20.602	19.124
18) ENDRIN ALDEHYDE	12.21	12.44	308.8E6	124.7E6	20.537	22.358
19) ENDOSULFAN SULFA	12.43	12.86	349.4E6	143.2E6	20.300	20.055
20) METHOXYCHLOR	13.21	13.24	154.1E6	67061552	20.707	20.272
21) ENDRIN KETONE	13.46	13.45	359.4E6	153.6E6	20.892	20.166

Page 2

```
Data File      : C:\HPCHEM\1\DATA\092198\340.D\ECD1A.CH
Acq On        : 9-21-98 17:45:32
Sample        : PESTICIDE 20 PPB
Misc          :
IntFile       : autoint1.e
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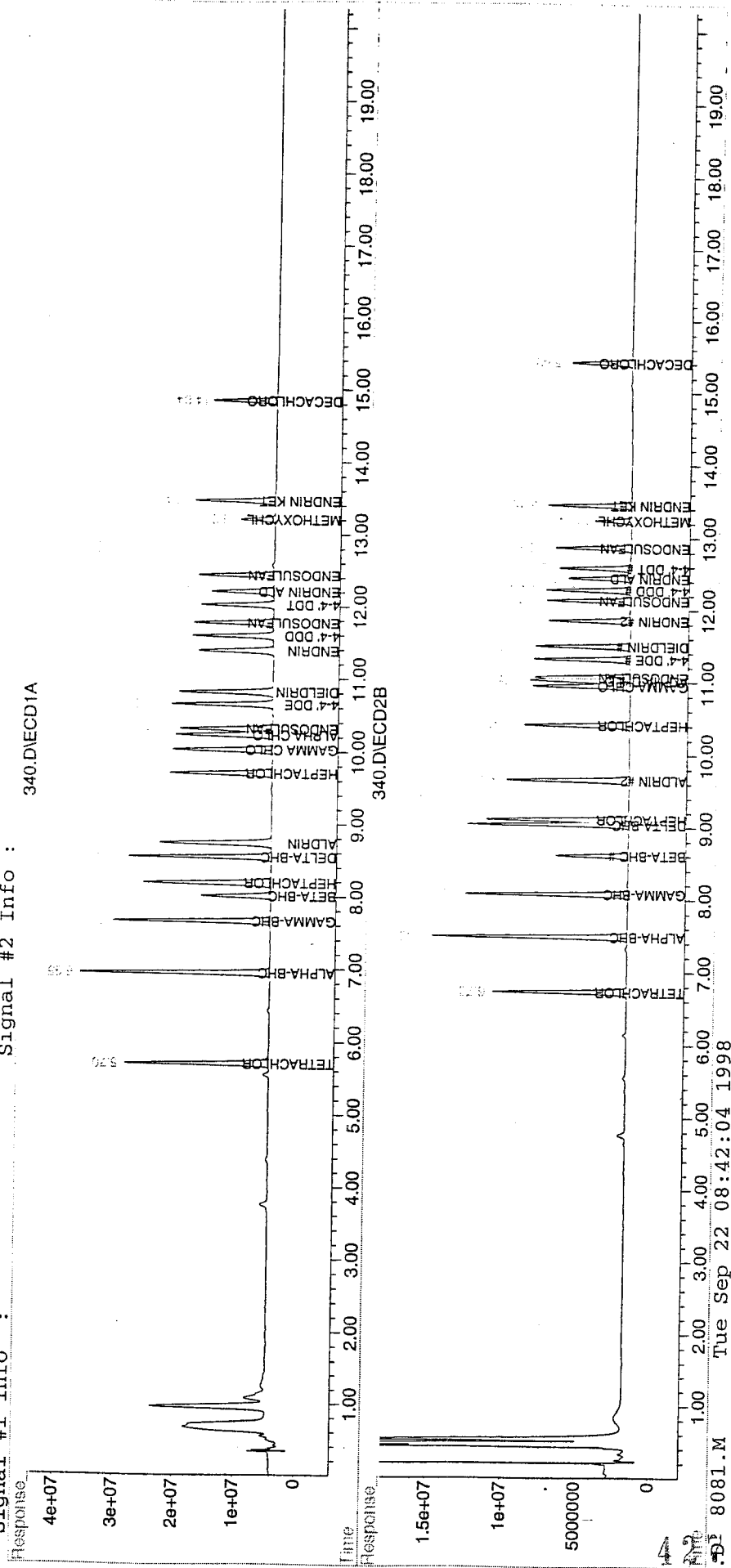
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Data File : C:\HPCHEM\1\DATA\092198\340.D\ECD2B.CH
Acq On : 9-21-98 18:10:17
Sample : PESTICIDE 50 PPB
Misc :
IntFile : autoint2.e
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Quant Time: Sep 22 8:41 1998

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : PEST

Last Update : Tue Sep 22 08:33:05 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj.	:				
Signal #1 Phase	:			Signal #2 Phase:	
Signal #1 Info	:			Signal #2 Info :	



Data File : C:\HPCHEM\1\DATA\092198\341.D\ECD1A.CH Vial: 13
 Acq On : 9-21-98 18:10:17 Operator: ECL
 Sample : PESTICIDE 5 PPB Inst : GC/MS Ins
 Misc : Multiplr: 1.00
 IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\092198\341.D\ECD2B.CH Vial: 13
 Acq On : 9-21-98 18:35:00 Operator: ECL
 Sample : PESTICIDE 20 PPB Inst : GC/MS Ins
 Misc : Multiplr: 1.00
 IntFile : autoint2.e

Quant Time: Sep 22 8:42 1998 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
 Title : PEST
 Last Update : Tue Sep 22 08:33:05 1998
 Response via : Initial Calibration
 DataAcq Meth : 8081.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L

System Monitoring Compounds						
1) S TETRACHLORO-M-XY	5.70	6.73	186.6E6	68196084	5.837	5.619
Spiked Amount 20.000			Recovery	=	29.18%	28.09%
22) S DECACHLOROBIPHEN	14.84	15.42	81362426	32973492	5.702	5.613
Spiked Amount 20.000			Recovery	=	28.51%	28.07%
Target Compounds						
2) ALPHA-BHC	6.95	7.49	226.8E6	91152046	5.525	5.376
3) GAMMA-BHC	7.66	8.08	190.2E6	76537664	5.501	5.357
4) BETA-BHC	8.00	8.61	88413102	36693256	5.784	5.679
5) HEPTACHLOR	8.18	9.11	182.2E6	74444256	5.526	5.459
6) DELTA-BHC	8.54	9.04	157.3E6	72658309	5.266	5.279
7) ALDRIN	8.74	9.66	152.8E6	64254883	5.294	5.319
8) HEPTACHLOR EPOXI	9.70	10.41	141.9E6	57297891	5.492	5.435
9) GAMMA CHLORDANE	10.02	10.95	140.9E6	52303877	5.519	5.325
10) ALPHA CHLORDANE	10.23	11.03	138.1E6	52801325	5.566	5.486
11) ENDOSULFAN I	10.31	11.07	126.8E6	48114765	5.461	5.248
12) 4-4' DDE	10.64	11.32	118.0E6	47448971	5.197	5.155
13) DIELDRIN	10.81	11.50	120.9E6	47827848	5.217	5.168
14) ENDRIN	11.38	11.85	94251372	37921048	5.110	4.872
15) 4-4' DDD	11.59	12.28	95375249	42907393	5.248	5.302
16) ENDOSULFAN II	11.77	12.13	104.8E6	39542930	5.405	5.212
17) 4-4' DDT	12.02	12.58	77536596	34774034	4.837	4.965
18) ENDRIN ALDEHYDE	12.21	12.44	80830960	36930345	5.376	6.620
19) ENDOSULFAN SULFA	12.43	12.86	90664847	37665564	5.268	5.276
20) METHOXYCHLOR	13.20	13.24	38483221	16693135	5.170	5.046
21) ENDRIN KETONE	13.46	13.45	89553756	39496268	5.206	5.186

Page 2

```
Data File      : C:\HPCHEM\1\DATA\092198\341.D\ECD1A.CH
Acq On        : 9-21-98 18:10:17
Sample        : PESTICIDE 5 PPB
Misc          :
IntFile       : autoint1.e
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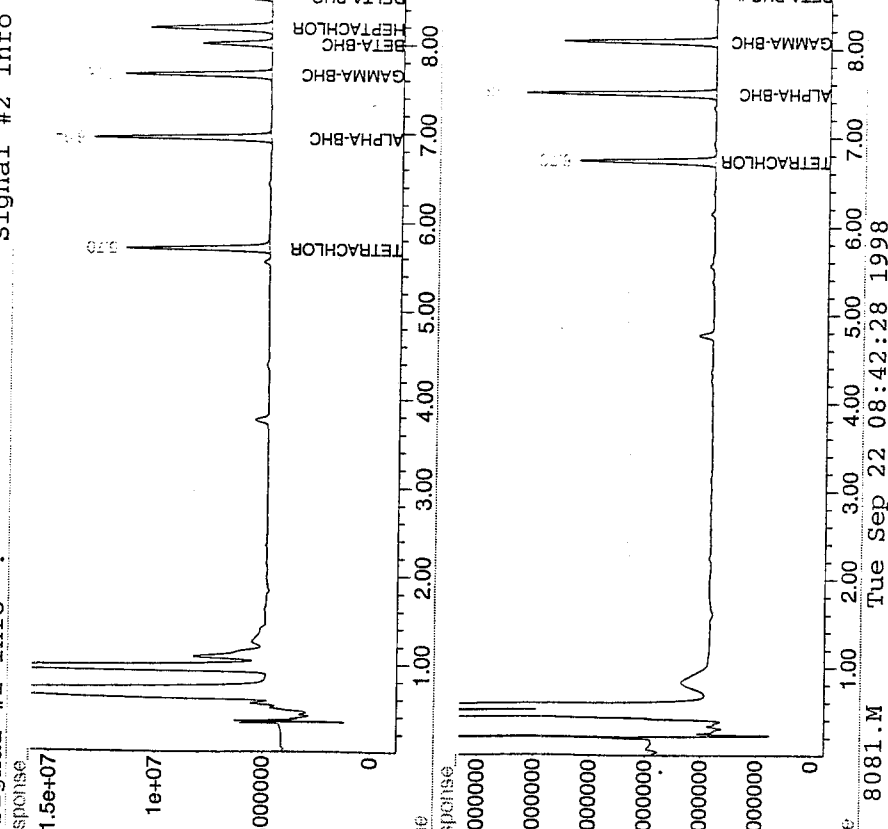
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Data File : C:\HPCHEM\1\DATA\092198\341.D\ECD2B.CH
Acq On : 9-21-98 18:35:00
Sample : PESTICIDE 20 PPB
Misc :
IntFile : autoint2.e
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Quant Time: Sep 22 8:42 1998 Quant Results File:

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstat

Last Update : Tue Sep 22 08:33:05 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj.	:	Signal #2 Phase
Signal #1 Phase	:	Signal #2 Info
Signal #1 Info	:	



Data File : C:\HPCHEM\1\DATA\092198\342.D\ECD1A.CH
 Acq On : 9-21-98 18:35:00
 Sample : PESTICIDE 2 PPB
 Misc :
 IntFile : autoint1.e

Vial: 14
 Operator: ECL
 Inst : GC/MS Ins
 Multiplr: 1.00

Data File : C:\HPCHEM\1\DATA\092198\342.D\ECD2B.CH
 Acq On : 9-21-98 18:59:59
 Sample : PESTICIDE 5 PPB
 Misc :
 IntFile : autoint2.e

Vial: 14
 Operator: ECL
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Time: Sep 22 8:42 1998 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
 Title : PEST
 Last Update : Tue Sep 22 08:33:05 1998
 Response via : Initial Calibration
 DataAcq Meth : 8081.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
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System Monitoring Compounds

1) S	TETRACHLORO-M-XY	5.70	6.73	80807864	28749087	2.528	2.369
	Spiked Amount	20.000		Recovery	=	12.64%	11.85%
22) S	DECACHLOROBIPHEN	14.84	15.41	34871150	13121800	2.444	2.234
	Spiked Amount	20.000		Recovery	=	12.22%	11.17%

Target Compounds

2)	ALPHA-BHC	6.95	7.49	93059820	36482350	2.267	2.152
3)	GAMMA-BHC	7.66	8.08	78902324	32470405	2.282	2.273
4)	BETA-BHC	8.01	8.61	38822243	16070458	2.540	2.487
5)	HEPTACHLOR	8.19	9.11	78237116	31279298	2.373	2.294
6)	DELTA-BHC	8.54	9.04	64327402	28868994	2.154	2.098
7)	ALDRIN	8.74	9.66	63665592	26209305	2.205	2.170
8)	HEPTACHLOR EPOXI	9.70	10.41	60539851	24054822	2.343	2.282
9)	GAMMA CHLORDANE	10.02	10.95	60049640	21689584	2.351	2.208
10)	ALPHA CHLORDANE	10.23	11.02	59724894	20818180	2.407	2.163
11)	ENDOSULFAN I	10.31	11.07	53568954	21354493	2.307	2.329
12)	4-4' DDE	10.65	11.31	48489864	19227303	2.136	2.089
13)	DIELDRIN	10.81	11.49	50666173	19284140	2.186	2.084
14)	ENDRIN	11.38	11.85	38657487	15153073	2.096	1.947
15)	4-4' DDD	11.59	12.27	37871788	18036488	2.084	2.229
16)	ENDOSULFAN II	11.77	12.13	42418240	15925584	2.188	2.099
17)	4-4' DDT	12.02	12.58	30368800	16111966	1.895	2.300
18)	ENDRIN ALDEHYDE	12.21	12.44	35163288	17939162	2.339	3.216 #
19)	ENDOSULFAN SULFA	12.43	12.86	37753055	15160022	2.194	2.124
20)	METHOXYCHLOR	13.20	13.24	15731300	6698574	2.113	2.025
21)	ENDRIN KETONE	13.46	13.44	36940474	15551019	2.148	2.042

```
Data File : C:\HPCHEM\1\DATA\092198\342.D\ECD1A.CH
Acq On : 9-21-98 18:35:00
Sample : PESTICIDE 2 PPB
Misc :
IntFile : autoint1.e
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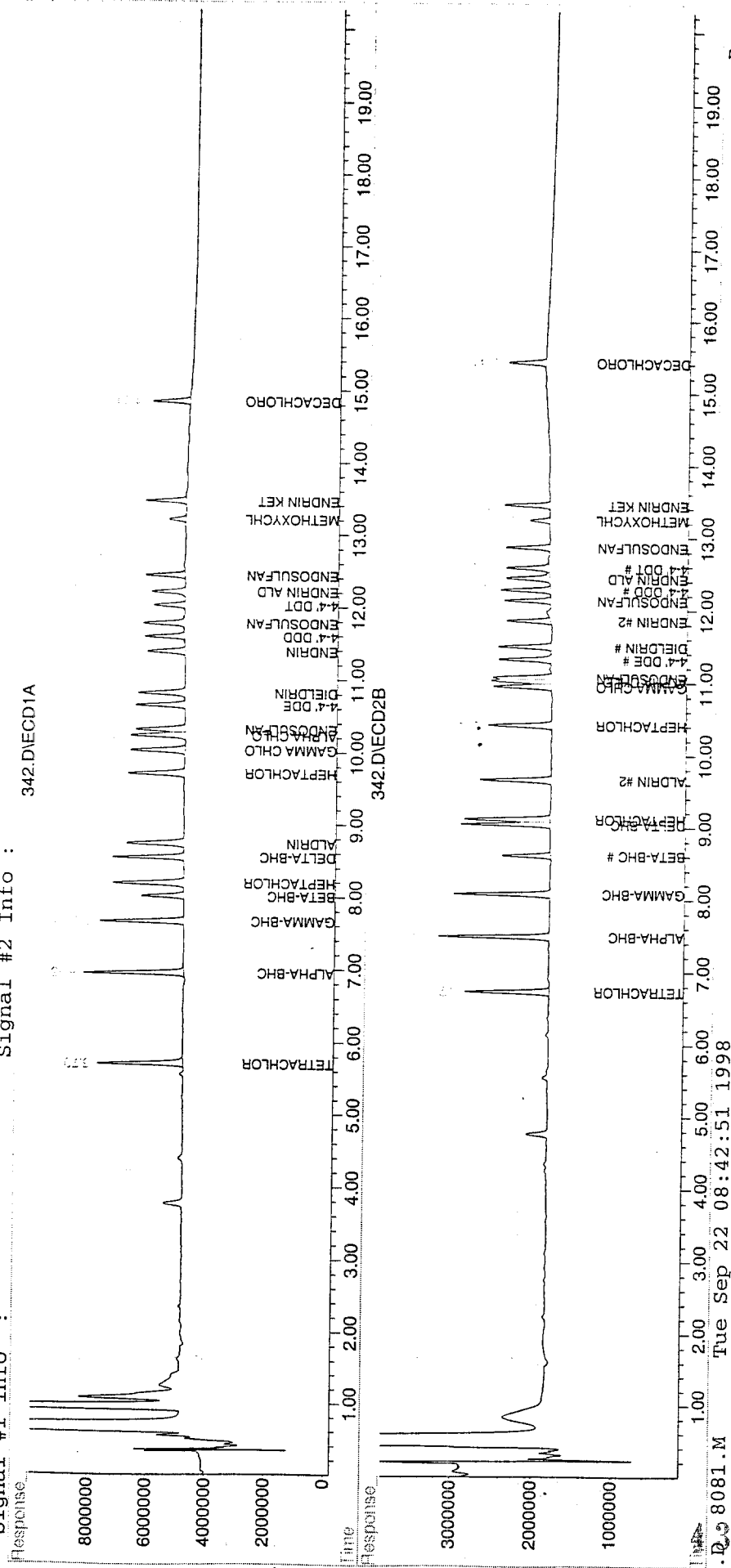
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Data File : C:\HPCHEM\1\DATA\092198\342.D\ECD2B.CH
Acq On : 9-21-98 18:59:59
Sample : PESTICIDE 5 PPB
Misc :
IntFile : autoint2.e
```

Quant Time: Sep 22 8:42 1998 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : PEST

Last Update : Tue Sep 22 08:33:05 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj.	:	
Signal #1 Phase :		Signal #2 Phase:
Signal #1 Info :		Signal #2 Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\092198\343.D\ECD1A.CH Vial: 15
 Acq On : 9-21-98 18:59:59 Operator: ECL
 Sample : PESTICIDE ALT 20 PPB Inst : GC/MS Ins
 Misc : Multiplr: 1.00
 IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\092198\343.D\ECD2B.CH Vial: 15
 Acq On : 9-21-98 19:24:43 Operator: ECL
 Sample : PESTICIDE ALT 20 PPB Inst : GC/MS Ins
 Misc : SOIL Multiplr: 1.00
 IntFile : autoint2.e

Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
 Title : PEST
 Last Update : Tue Sep 22 08:33:05 1998
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
2	ALPHA-BHC	20.000	21.111	-5.6	100	0.00
3	GAMMA-BHC	20.000	21.030	-5.2	100	0.00
4	BETA-BHC	20.000	20.369	-1.8	100	0.00
5	HEPTACHLOR	20.000	20.581	-2.9	99	0.00
6	DELTA-BHC	20.000	20.889	-4.4	100	0.00
7	ALDRIN	20.000	21.136	-5.7	101	0.00
8	HEPTACHLOR EPOXIDE	20.000	20.489	-2.4	100	0.00
11	ENDOSULFAN I	20.000	20.586	-2.9	100	0.00
12	4-4' DDE	20.000	20.792	-4.0	100	0.00
13	DIELDRIN	20.000	21.194	-6.0	103	0.00
14	ENDRIN	20.000	20.014	-0.1	97	0.00
15	4-4' DDD	20.000	20.848	-4.2	100	0.00
16	ENDOSULFAN II	20.000	20.494	-2.5	100	0.00
17	4-4' DDT	20.000	20.480	-2.4	99	0.00
18	ENDRIN ALDEHYDE	20.000	20.036	-0.2	98	0.00
19	ENDOSULFAN SULFATE	20.000	19.885	0.6	98	0.00
20	METHOXYCHLOR	20.000	20.704	-3.5	100	0.00
21	ENDRIN KETONE	20.000	21.812	-9.1	104	0.00

Signal #2

2	ALPHA-BHC	20.000	20.371	-1.9	97	0.00
3	GAMMA-BHC	20.000	20.507	-2.5	99	0.00
4	BETA-BHC	20.000	19.520	2.4	97	0.00
5	HEPTACHLOR	20.000	19.989	0.1	98	0.00
6	DELTA-BHC	20.000	20.306	-1.5	98	0.00
7	ALDRIN	20.000	20.131	-0.7	98	0.00
8	HEPTACHLOR EPOXIDE	20.000	19.639	1.8	97	0.00
11	ENDOSULFAN I	20.000	19.721	1.4	98	0.00
12	4-4' DDE	20.000	19.837	0.8	98	0.00
13	DIELDRIN	20.000	20.636	-3.2	102	0.00
14	ENDRIN	20.000	19.049	4.8	91	0.00
15	4-4' DDD	20.000	19.210	3.9	95	0.00
16	ENDOSULFAN II	20.000	19.914	0.4	99	0.00
17	4-4' DDT	20.000	18.617	6.9	97	0.00
18	ENDRIN ALDEHYDE	20.000	22.250	-11.3	100	0.00
19	ENDOSULFAN SULFATE	20.000	19.500	2.5	97	0.00
20	METHOXYCHLOR	20.000	19.505	2.5	96	0.00
21	ENDRIN KETONE	20.000	20.178	-0.9	100	0.00

Data File : C:\HPCHEM\1\DATA\092198\343.D\ECD1A.CH Vial: 15
 Acq On : 9-21-98 18:59:59 Operator: ECL
 Sample : PESTICIDE ALT 20 PPB Inst : GC/MS Ins
 Misc : Multiplr: 1.00
 IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\092198\343.D\ECD2B.CH Vial: 15
 Acq On : 9-21-98 19:24:43 Operator: ECL
 Sample : PESTICIDE ALT 20 PPB Inst : GC/MS Ins
 Misc : SOIL Multiplr: 1.00
 IntFile : autoint2.e

Quant Time: Sep 22 8:38 1998 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
 Title : PEST
 Last Update : Tue Sep 22 08:33:05 1998
 Response via : Initial Calibration
 DataAcq Meth : 8081.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L

System Monitoring Compounds						
1) S TETRACHLORO-M-XY	0.00	0.00	0	0	N.D.	N.D.
Spiked Amount 20.000			Recovery	=	0.00%	0.00%
22) S DECACHLOROBIPHEN	0.00	0.00	0	0	N.D.	N.D.
Spiked Amount 20.000			Recovery	=	0.00%	0.00%
Target Compounds						
2) ALPHA-BHC	6.95	7.49	866.8E6	345.4E6	21.111	20.371
3) GAMMA-BHC	7.66	8.08	727.1E6	293.0E6	21.030	20.507
4) BETA-BHC	8.00	8.61	311.3E6	126.1E6	20.369	19.520
5) HEPTACHLOR	8.18	9.11	678.6E6	272.6E6	20.581	19.989
6) DELTA-BHC	8.54	9.04	623.8E6	279.5E6	20.889	20.306
7) ALDRIN	8.73	9.66	610.1E6	243.2E6	21.136	20.131
8) HEPTACHLOR EPOXI	9.70	10.41	529.5E6	207.1E6	20.489	19.639
9) GAMMA CHLORDANE	0.00	0.00	0	0	N.D.	N.D.
10) ALPHA CHLORDANE	0.00	0.00	0	0	N.D.	N.D.
11) ENDOSULFAN I	10.31	11.07	477.9E6	180.8E6	20.586	19.721
12) 4-4' DDE	10.64	11.32	472.0E6	182.6E6	20.792	19.837
13) DIELDRIN	10.81	11.49	491.1E6	191.0E6	21.194	20.636
14) ENDRIN	11.38	11.85	369.2E6	148.3E6	20.014	19.049
15) 4-4' DDD	11.58	12.27	378.9E6	155.4E6	20.848	19.210
16) ENDOSULFAN II	11.77	12.13	397.3E6	151.1E6	20.494	19.914
17) 4-4' DDT	12.02	12.58	328.3E6	130.4E6	20.480	18.617
18) ENDRIN ALDEHYDE	12.20	12.44	301.3E6	124.1E6	20.036	22.250
19) ENDOSULFAN SULFA	12.43	12.86	342.2E6	139.2E6	19.885	19.500
20) METHOXYCHLOR	13.20	13.24	154.1E6	64525372	20.704	19.505
21) ENDRIN KETONE	13.46	13.45	375.2E6	153.7E6	21.812	20.178

Quantitation Report

Data File : C:\HPCHEM\1\DATA\092198\343.D\ECD1A.CH
Acq On : 9-21-98 18:59:59 Vial: 15
Sample : PESTICIDE ALT 20 PPB Operator: ECL
Misc : GC/MS Ins Inst : GC/MS Ins
IntFile : autoint1.e Multiplr: 1.00

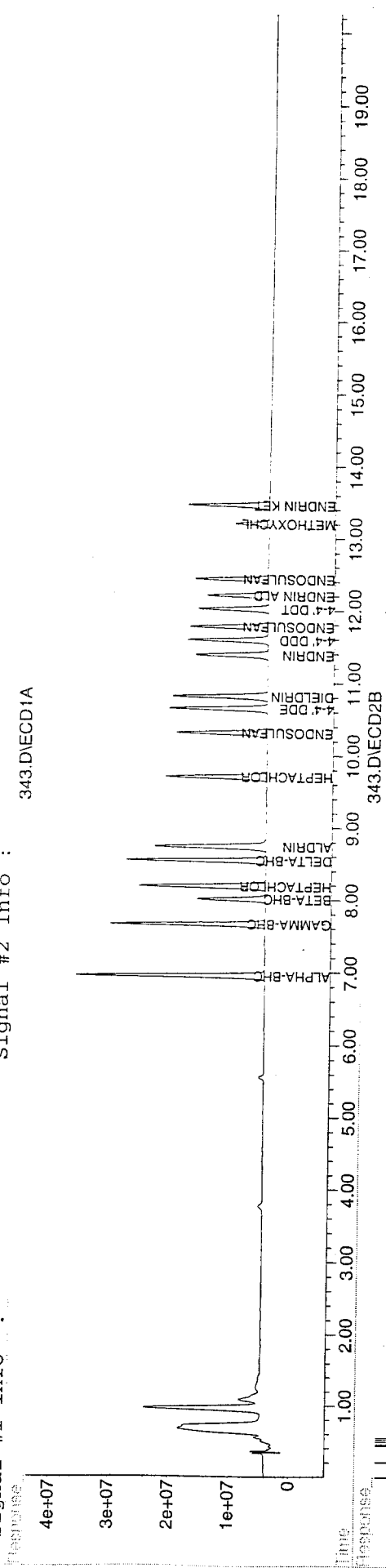
Data File : C:\HPCHEM\1\DATA\092198\343.D\ECD2B.CH
Acq On : 9-21-98 19:24:43 Vial: 15
Sample : PESTICIDE ALT 20 PPB Operator: ECL
Misc : SOIL Inst : GC/MS Ins
IntFile : autoint2.e Multiplr: 1.00

Quant Time: Sep 22 8:38 1998 Quant Results File: 8081.RES

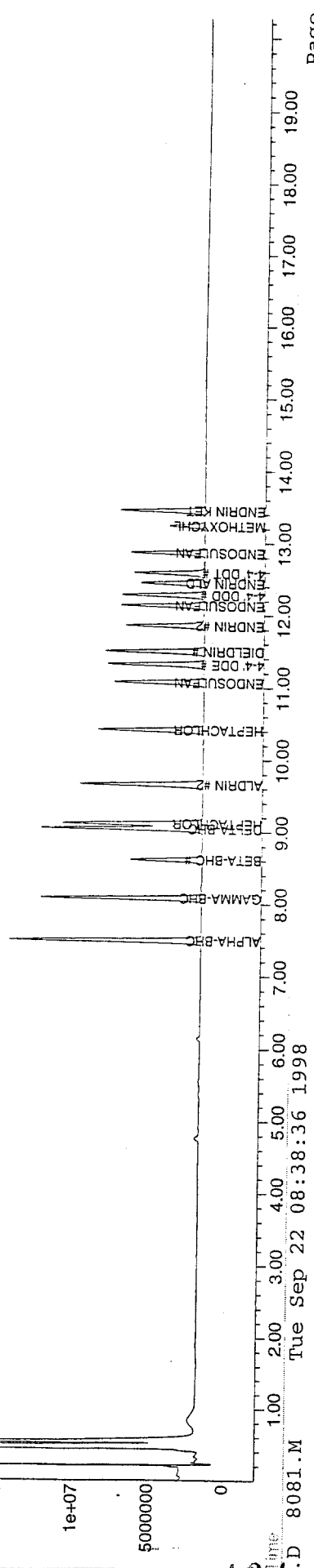
Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : PEST
Last Update : Tue Sep 22 08:33:05 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

343.D\ECD1A



343.D\ECD2B



AVERAGE RESPONSE FACTOR CALIBRATION DATA

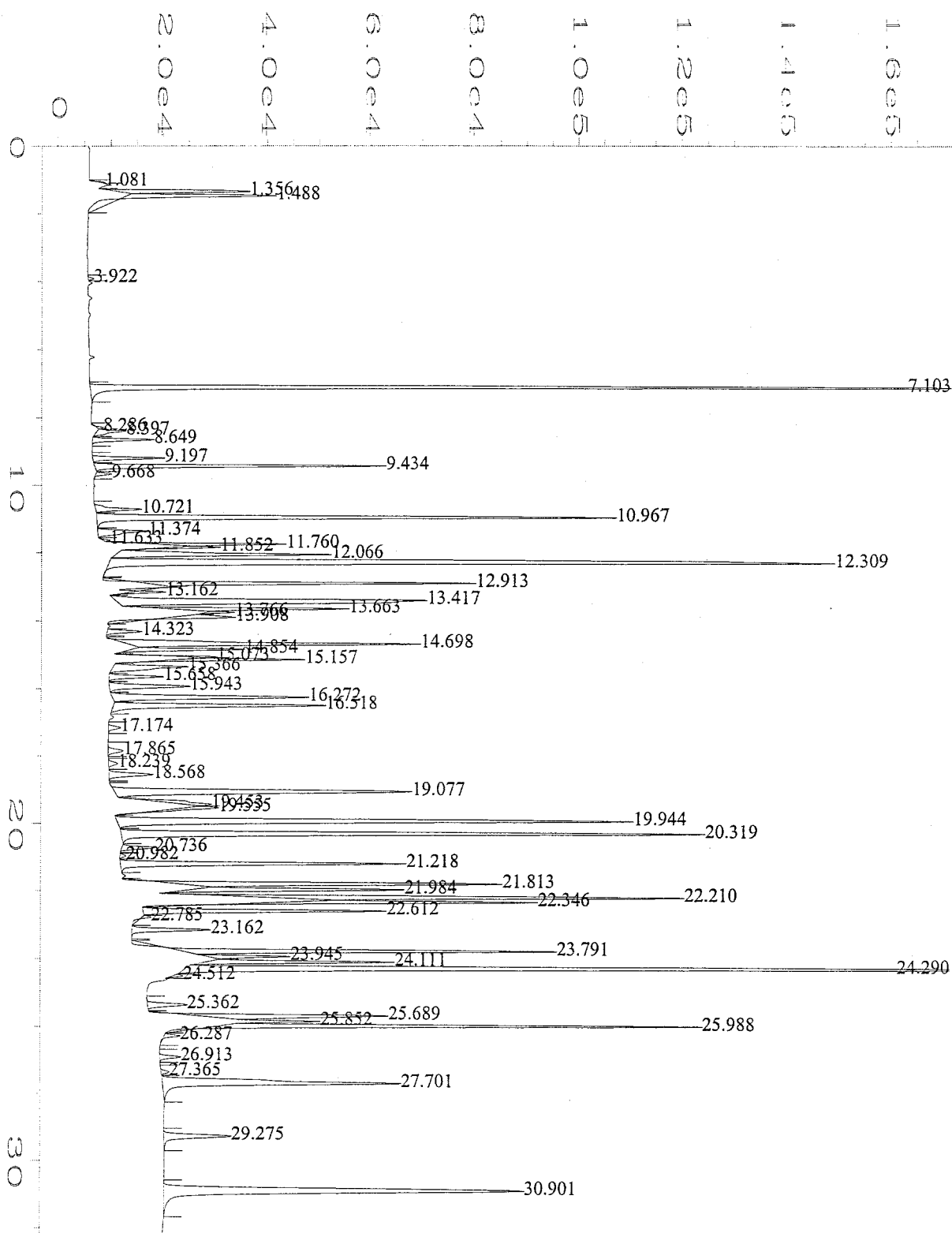
Calculation Type : External Standard
 5-Pt. Calibration Date : 24 Sep 98 08:59 AM
 Method File : c:\hpchem\1\methods\1660f.mth
 Instrument Name : HP4
 Report Date : 24 Sep 98 09:00 AM
 %RSD Limit : 20.0

Compound Name	Level Response Factor						Avg. RF	%RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
TETRACHLORO-M-XYL	1.030E+04	9.731E+03	9.583E+03	9.228E+03	8.494E+03		9.467E+03	7.05
PCB1016 #1	2.204E+02	2.017E+02	1.788E+02	1.609E+02	1.393E+02		1.802E+02	17.83
PCB1016 #2	5.010E+02	4.514E+02	3.934E+02	3.478E+02	3.016E+02		3.990E+02	19.93
PCB1016 #3	1.351E+02	1.656E+02	1.520E+02	1.380E+02	1.225E+02		1.426E+02	11.61
PCB1016 #4	8.775E+02	7.844E+02	7.055E+02	6.366E+02	5.534E+02		7.115E+02	17.71
PCB1016 #5	2.574E+02	2.343E+02	2.144E+02	1.956E+02	1.713E+02		2.146E+02	15.55
PCB1260 #1	5.672E+02	5.104E+02	4.658E+02	4.177E+02	3.645E+02		4.651E+02	16.94
PCB1260 #2	5.777E+02	5.191E+02	4.749E+02	4.258E+02	3.720E+02		4.739E+02	16.85
PCB1260 #3	2.363E+02	2.066E+02	1.489E+02	2.032E+02	1.787E+02		1.948E+02	16.84
PCB1260 #4	7.118E+02	6.603E+02	6.297E+02	5.888E+02	5.360E+02		6.253E+02	10.74
PCB1260 #5	2.866E+02	2.694E+02	2.615E+02	2.346E+02	2.148E+02		2.534E+02	11.28
DECACHLOROBIPHENYL	8.297E+03	7.782E+03	7.615E+03	7.151E+03	6.549E+03		7.479E+03	8.85

 <-- = Exceeds %RSD Limit

Level(s) 6 Excluded From Report

Page 1



Data File Name	: C:\HPCHEM\1\DATA\092398\001F0101.D	Page Number	: 1
Operator	: ECL	Vial Number	: 1
Instrument	: HP4	Injection Number	: 1
Sample Name	: 1660 2.0 PPM	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	1660F.MTH
Acquired on	: 23 Sep 98 03:21 PM	Analysis Method	: 1660F.MTH
Report Created on:	24 Sep 98 09:01 AM	Sample Amount	: 0
Last Recalib on	: 24 SEP 98 09:00 AM	ISTD Amount	: -
Multiplier	: 1		

External Standard Report

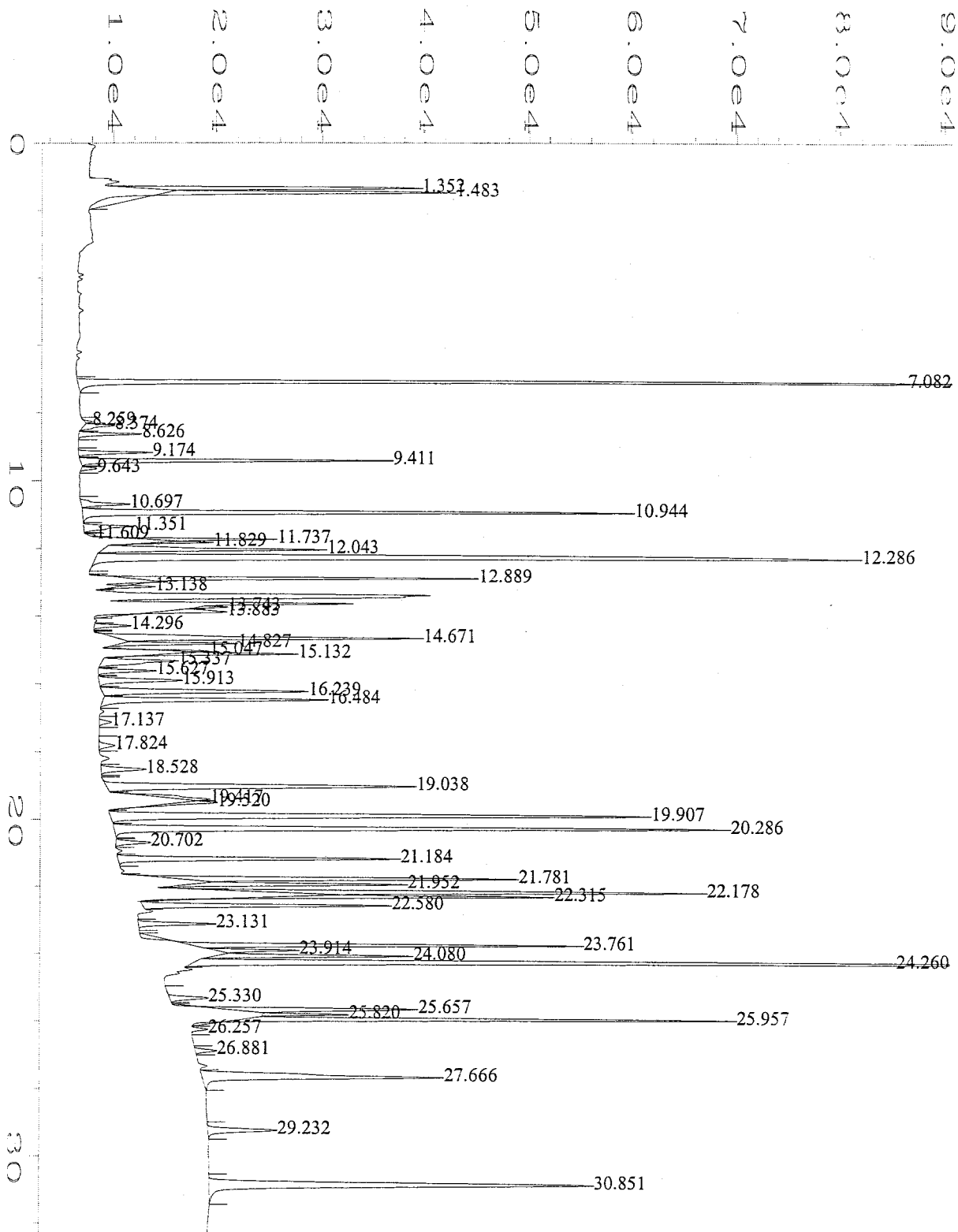
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Data File Name      : C:\HPCHEM\1\DATA\092398\001F0101.D
Operator           : ECL
Instrument          : HP4
Sample Name        : 1660 2.0 PPM
Run Time Bar Code  :
Acquired on        : 23 Sep 98  03:21 PM
Report Created on  : 24 Sep 98  09:04 AM
Last Recalib on   : 24 SEP 98 09:00 AM
Multiplier         : 1

Page Number        : 1
Vial Number        : 1
Injection Number   : 1
Sequence Line      : 1
Instrument Method   : 1660F.MTH
Analysis Method    : 1660F.MTH
Sample Amount      : 0
ISTD Amount        :
  
```

Sig. 1 in C:\HPCHEM\1\DATA\092398\001F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
7.103	846341	BB	0.070	1	89.397	TETRACHLORO-M-XYL
9.434	261682	BB	0.073	1	1451.952	PCB1016 #1
10.967	569125	BB	0.088	1	1426.220	PCB1016 #2
12.066	234560	BB	0.084	1	1644.494	PCB1016 #3
12.309	1042751	BB	0.104	1	1465.658	PCB1016 #4
14.698	327291	BB	0.087	1	1524.899	PCB1016 #5
19.944	696981	BB	0.109	1	1498.499	PCB1260 #1
20.319	705566	BB	0.098	1	1488.820	PCB1260 #2
21.813	329997	BB	0.087	1	1694.421	PCB1260 #3
24.290	1047455	BB	0.087	1	1675.118	PCB1260 #4
25.988	416460	BB	0.072	1	1643.686	PCB1260 #5
30.901	643467	BB	0.144	1	86.040	DECACHLOROBIPHENYL



Data File Name	: C:\HPCHEM\1\DATA\092398\002F0101.D	Page Number	: 1
Operator	: ECL	Vial Number	: 2
Instrument	: HP4	Injection Number	: 1
Sample Name	: 1660 1.0 PPM	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	1660F.MTH
Acquired on	: 23 Sep 98 03:55 PM	Analysis Method	: 1660F.MTH
Report Created on:	24 Sep 98 09:02 AM	Sample Amount	: 0
Last Recalib on	: 24 SEP 98 09:00 AM	ISTD Amount	:
Multiplier	: 1		

External Standard Report

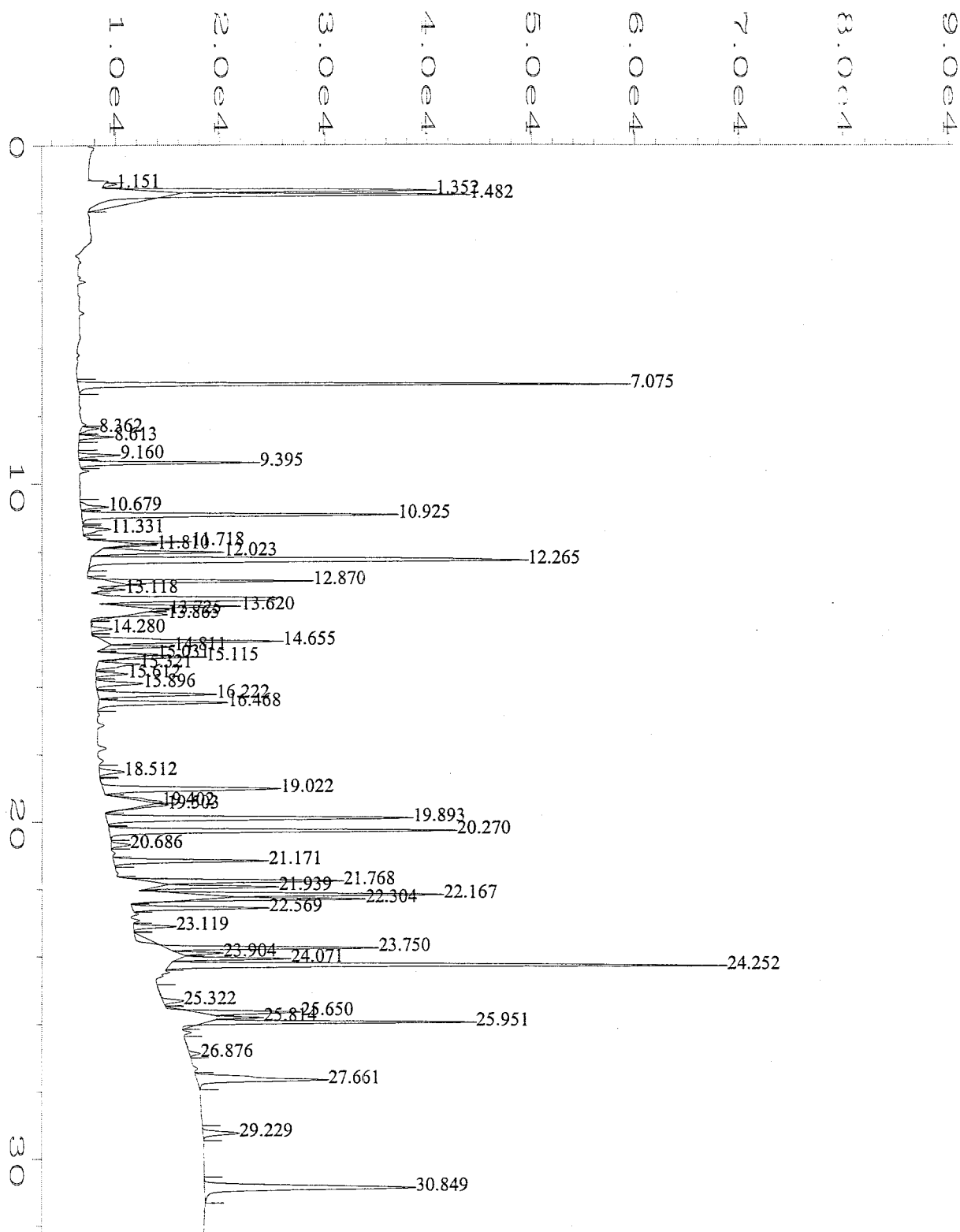
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Data File Name      : C:\HPCHEM\1\DATA\092398\002F0101.D
Operator           : ECL
Instrument          : HP4
Sample Name         : 1660 1.0 PPM
Run Time Bar Code   :
Acquired on         : 23 Sep 98  03:55 PM
Report Created on   : 24 Sep 98  09:02 AM
Last Recalib on     : 24 SEP 98 09:00 AM
Multiplier          : 1

Page Number         : 1
Vial Number          : 2
Injection Number     : 1
Sequence Line        : 1
Instrument Method     : 1660F.MTH
Analysis Method      : 1660F.MTH
Sample Amount        : 0
ISTD Amount          :
  
```

Sig. 1 in C:\HPCHEM\1\DATA\092398\002F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
7.082	424691	BB	0.068	1	44.859	TETRACHLORO-M-XYL
9.411	139270	BB	0.072	1	772.745	PCB1016 #1
10.944	301604	BB	0.087	1	755.815	PCB1016 #2
12.043	122535	BB	0.085	1	859.092	PCB1016 #3
12.286	553407	BB	0.105	1	777.852	PCB1016 #4
14.671	171324	BB	0.087	1	798.224	PCB1016 #5
19.907	364472	BB	0.109	1	783.608	PCB1260 #1
20.286	372032	BB	0.097	1	785.028	PCB1260 #2
21.781	178700	BB	0.088	1	917.563	PCB1260 #3
24.260	535951	BB	0.086	1	857.108	PCB1260 #4
25.957	214784	BB	0.073	1	847.710	PCB1260 #5
30.851	327470	BB	0.135	1	43.787	DECACHLOROBIPHENYL



Data File Name	: C:\HPCHEM\1\DATA\092398\003F0101.D	Page Number	: 1
Operator	: ECL	Vial Number	: 3
Instrument	: HP4	Injection Number	: 1
Sample Name	: 1660 0.5 PPM	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: 1660F.MTH
Acquired on	: 23 Sep 98 04:31 PM	Analysis Method	: 1660F.MTH
Report Created on:	24 Sep 98 09:02 AM	Sample Amount	: 0
Last Recalib on	: 24 SEP 98 09:00 AM	ISTD Amount	:
Multiplier	: 1		

External Standard Report

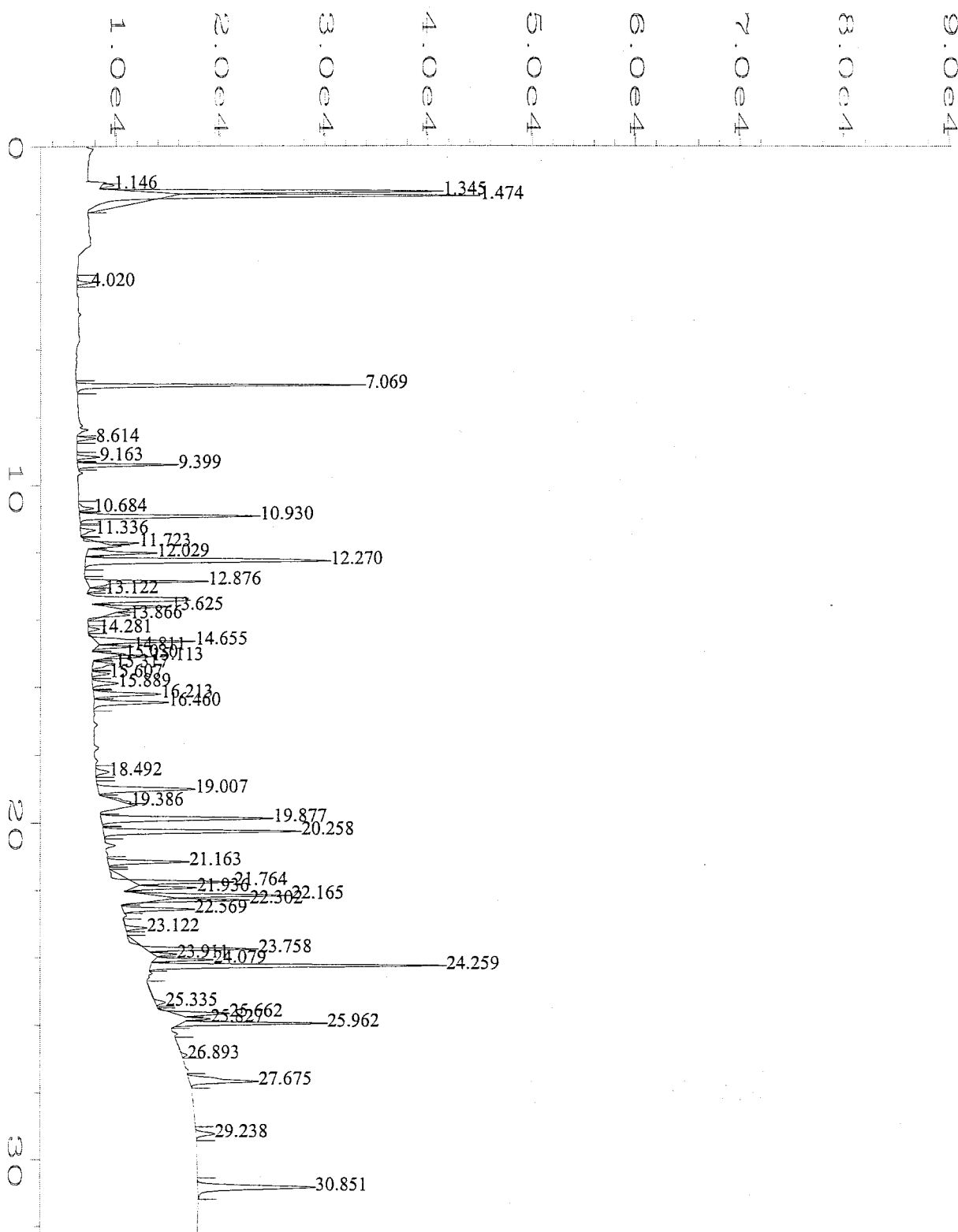
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Data File Name      : C:\HPCHEM\1\DATA\092398\003F0101.D
Operator           : ECL
Instrument          : HP4
Sample Name        : 1660 0.5 PPM
Run Time Bar Code  :
Acquired on        : 23 Sep 98  04:31 PM
Report Created on   : 24 Sep 98  09:02 AM
Last Recalib on    : 24 SEP 98 09:00 AM
Multiplier         : 1

Page Number        : 1
Vial Number        : 3
Injection Number    : 1
Sequence Line      : 1
Instrument Method    : 1660F.MTH
Analysis Method     : 1660F.MTH
Sample Amount       : 0
ISTD Amount         :
  
```

Sig. 1 in C:\HPCHEM\1\DATA\092398\003F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
7.075	230710	BB	0.067	1	24.369	TETRACHLORO-M-XYL
9.395	80458	BB	0.073	1	446.425	PCB1016 #1
10.925	173878	BB	0.088	1	435.737	PCB1016 #2
12.023	68991	BB	0.083	1	483.691	PCB1016 #3
12.265	318297	BB	0.106	1	447.389	PCB1016 #4
14.655	97819	BB	0.086	1	455.754	PCB1016 #5
19.893	208868	BB	0.111	1	449.062	PCB1260 #1
20.270	212921	BB	0.099	1	449.287	PCB1260 #2
21.768	101624	BB	0.088	1	521.806	PCB1260 #3
24.252	294376	BB	0.085	1	470.774	PCB1260 #4
25.951	117292	BB	0.073	1	462.927	PCB1260 #5
30.849	178764	BB	0.137	1	23.903	DECACHLOROBIPHENYL



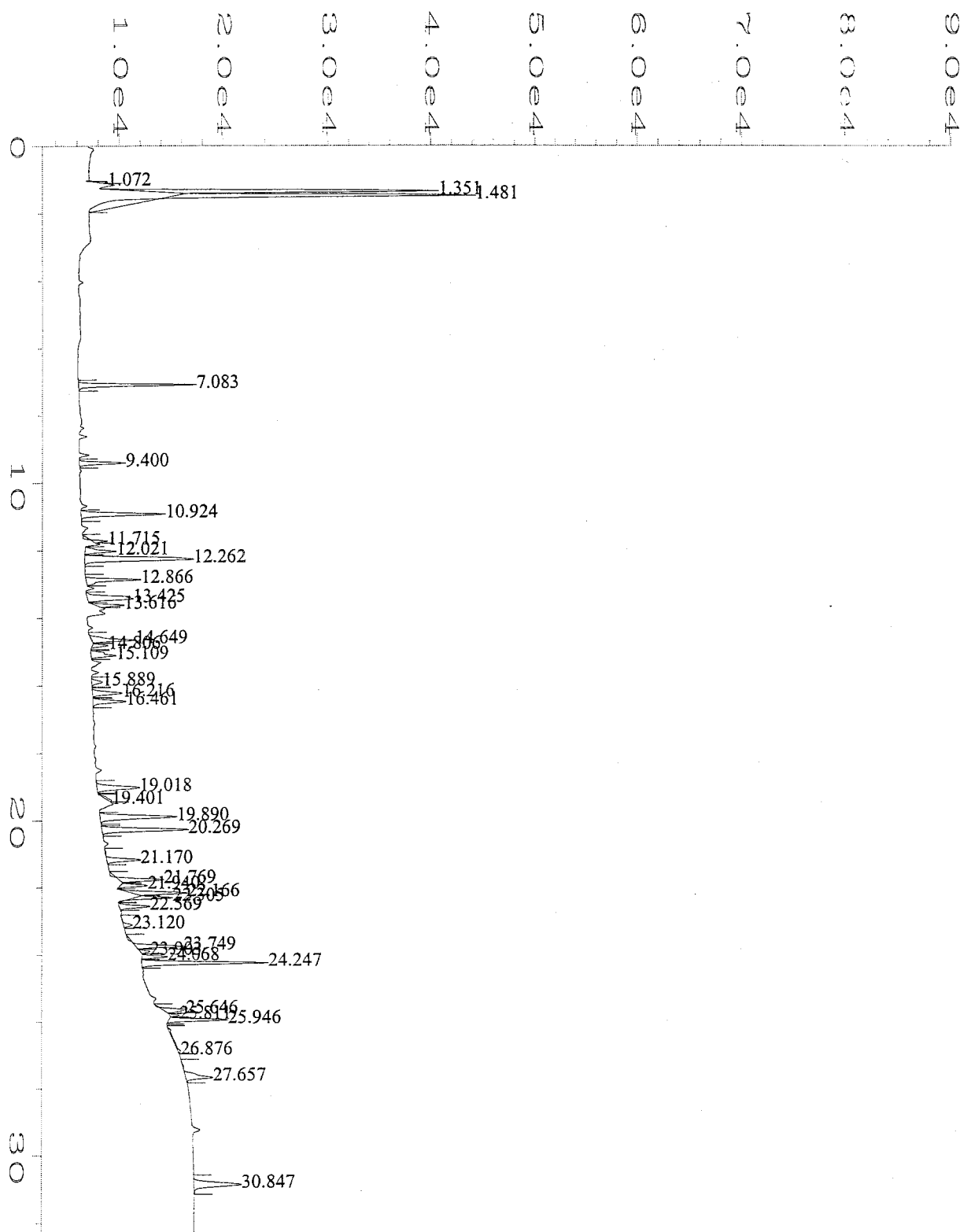
Data File Name	: C:\HPCHEM\1\DATA\092398\004F0101.D	Page Number	: 1
Operator	: ECL	Vial Number	: 4
Instrument	: HP4	Injection Number	: 1
Sample Name	: 1660 0.25 PPM	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: 1660F.MTH
Acquired on	: 23 Sep 98 05:06 PM	Analysis Method	: 1660F.MTH
Report Created on:	24 Sep 98 09:05 AM	Sample Amount	: 0
Last Recalib on	: 24 SEP 98 09:00 AM	ISTD Amount	:
Multiplier	: 1		

External Standard Report

Data File Name : C:\HPCHEM\1\DATA\092398\004F0101.D
 Operator : ECL Page Number : 1
 Instrument : HP4 Vial Number : 4
 Sample Name : 1660 0.25 PPM Injection Number : 1
 Run Time Bar Code: Sequence Line : 1
 Acquired on : 23 Sep 98 05:06 PM Instrument Method: 1660F.MTH
 Report Created on: 24 Sep 98 09:04 AM Analysis Method : 1660F.MTH
 Last Recalib on : 24 SEP 98 09:00 AM Sample Amount : 0
 Multiplier : 1 ISTD Amount :

Sig. 1 in C:\HPCHEM\1\DATA\092398\004F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
7.069	119785	BB	0.067	1	12.653	TETRACHLORO-M-XYL
9.399	44702	BB	0.072	1	248.028	PCB1016 #1
10.930	98344	BB	0.088	1	246.448	PCB1016 #2
12.029	37994	BB	0.084	1	266.373	PCB1016 #3
12.270	176364	BB	0.105	1	247.892	PCB1016 #4
14.655	53612	BB	0.085	1	249.784	PCB1016 #5
19.877	116462	BB	0.110	1	250.391	PCB1260 #1
20.258	118721	BB	0.097	1	250.515	PCB1260 #2
21.764	37221	BB	0.069	1	191.115	PCB1260 #3
24.259	157425	BB	0.086	1	251.758	PCB1260 #4
25.962	65375	BB	0.074	1	258.023	PCB1260 #5
30.851	95186	BB	0.132	1	12.728	DECACHLOROBIPHENYL



Data File Name	: C:\HPCHEM\1\DATA\092398\005F0101.D	Page Number	: 1
Operator	: ECL	Vial Number	: 5
Instrument	: HP4	Injection Number	: 1
Sample Name	: 1660 0.1 PPM	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	1660F.MTH
Acquired on	: 23 Sep 98 05:42 PM	Analysis Method	: 1660F.MTH
Report Created on:	24 Sep 98 09:03 AM	Sample Amount	: 0
Last Recalib on	: 24 SEP 98 09:00 AM	ISTD Amount	:
Multiplier	: 1		

External Standard Report

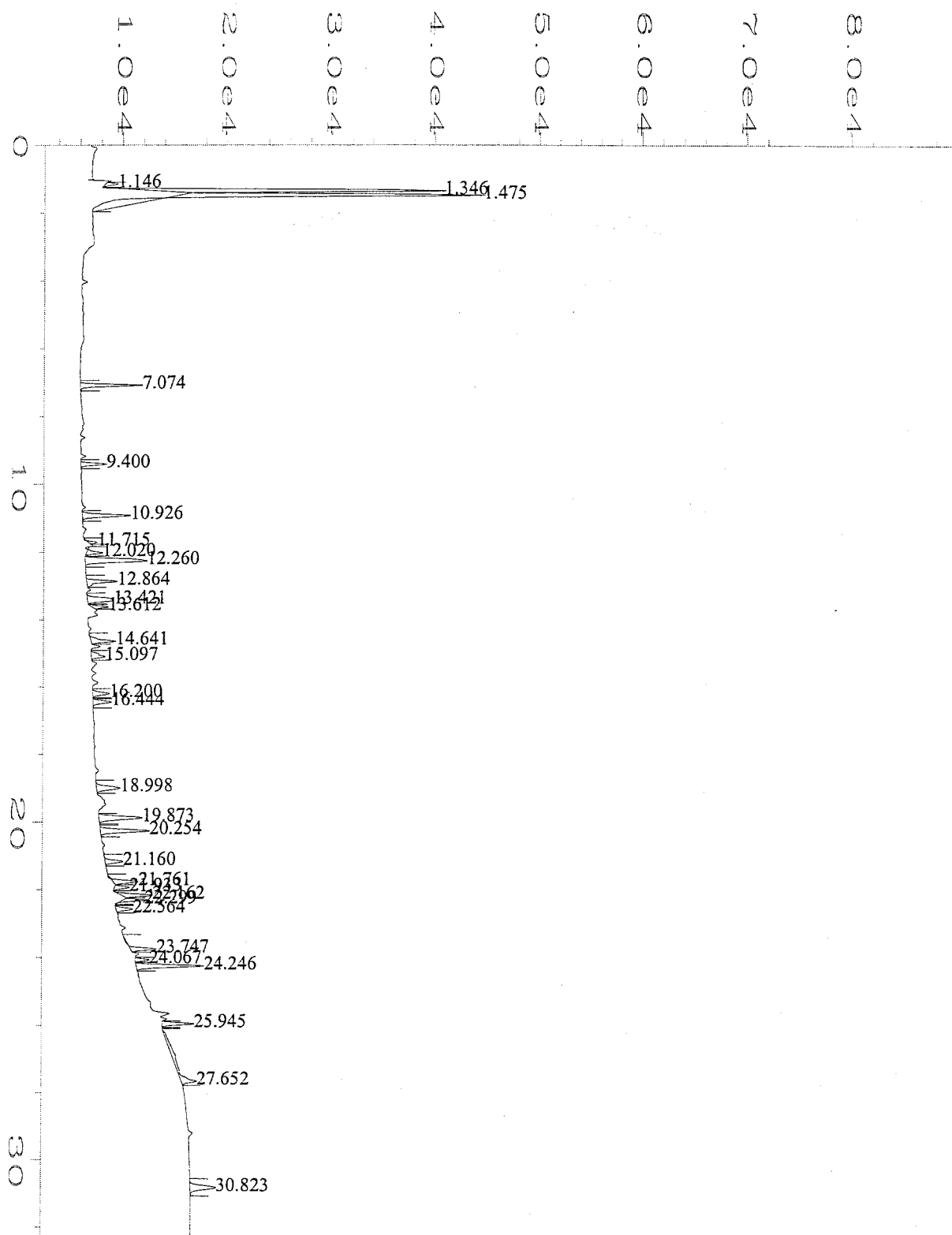
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Data File Name      : C:\HPCHEM\1\DATA\092398\005F0101.D
Operator            : ECL
Instrument           : HP4
Sample Name         : 1660 0.1 PPM
Run Time Bar Code   :
Acquired on         : 23 Sep 98  05:42 PM
Report Created on   : 24 Sep 98  09:03 AM
Last Recalib on    : 24 SEP 98  09:00 AM
Multiplier          : 1

Page Number         : 1
Vial Number         : 5
Injection Number    : 1
Sequence Line       : 1
Instrument Method    : 1660F.MTH
Analysis Method     : 1660F.MTH
Sample Amount       : 0
ISTD Amount         :
  
```

Sig. 1 in C:\HPCHEM\1\DATA\092398\005F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
7.083	48657	BB	0.067	1	5.139	TETRACHLORO-M-XYL
9.400	20171	BB	0.071	1	111.918	PCB1016 #1
10.924	45145	BB	0.086	1	113.132	PCB1016 #2
12.021	16558	BB	0.084	1	116.090	PCB1016 #3
12.262	78436	BB	0.104	1	110.248	PCB1016 #4
14.649	23434	BB	0.086	1	109.182	PCB1016 #5
19.890	51037	BB	0.108	1	109.729	PCB1260 #1
20.269	51909	BB	0.098	1	109.533	PCB1260 #2
21.769	20663	BB	0.080	1	106.099	PCB1260 #3
24.247	66034	BB	0.084	1	105.604	PCB1260 #4
25.946	26941	BB	0.075	1	106.332	PCB1260 #5
30.847	38910	BB	0.134	1	5.203	DECACHLOROBIPHENYL



Data File Name	: C:\HPCHEM\1\DATA\092398\006F0101.D	Page Number	: 1
Operator	: ECL	Vial Number	: 6
Instrument	: HP4	Injection Number	: 1
Sample Name	: 1660 0.05 PPM	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	1660F.MTH
Acquired on	: 23 Sep 98 06:18 PM	Analysis Method	: 1660F.MTH
Report Created on:	24 Sep 98 09:01 AM	Sample Amount	: 0
Last Recalib on	: 24 SEP 98 09:00 AM	ISTD Amount	:
Multiplier	: 1		

External Standard Report

```

Data File Name      : C:\HPCHEM\1\DATA\092398\006F0101.D
Operator           : ECL
Instrument          : HP4
Sample Name        : 1660 0.05 PPM
Run Time Bar Code  :
Acquired on        : 23 Sep 98 06:18 PM
Report Created on   : 24 Sep 98 09:00 AM
Last Recalib on    : 24 SEP 98 09:00 AM
Multiplier         : 1

Page Number        : 1
Vial Number        : 6
Injection Number    : 1
Sequence Line      : 1
Instrument Method    : 1660F.MTH
Analysis Method     : 1660F.MTH
Sample Amount       : 0
ISTD Amount        :
  
```

Sig. 1 in C:\HPCHEM\1\DATA\092398\006F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
7.074	25749	BB	0.068	1	2.720	TETRACHLORO-M-XYL
9.400	11022	BB	0.071	1	61.156	PCB1016 #1
10.926	25052	BB	0.085	1	62.780	PCB1016 #2
12.020	6755	BB	0.071	1	47.357	PCB1016 #3
12.260	43873	BB	0.123	1	61.666	PCB1016 #4
14.641	12871	BB	0.084	1	59.966	PCB1016 #5
19.873	28359	BB	0.108	1	60.971	PCB1260 #1
20.254	28885	BB	0.098	1	60.951	PCB1260 #2
21.761	11816	BB	0.082	1	60.669	PCB1260 #3
24.246	35588	BB	0.085	1	56.914	PCB1260 #4
25.945	14328	BB	0.074	1	56.551	PCB1260 #5
30.823	20742	BB	0.131	1	2.773	DECACHLOROBIPHENYL

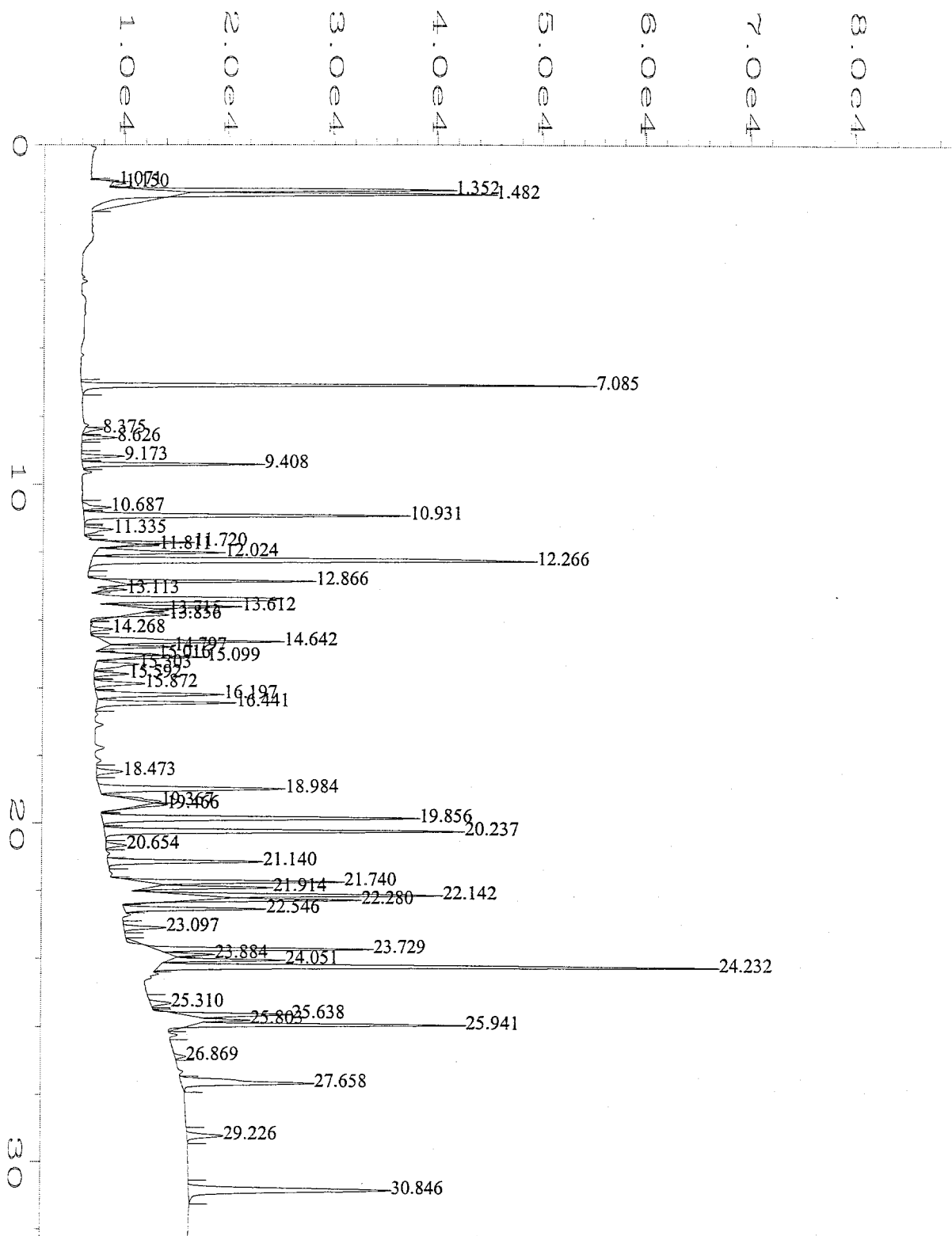
CONTINUING CALIBRATION DATA

Data File : C:\HPCHEM\1\DATA\092398\007F0101.D
Calibration Check Level : 4
Instrument : HP4
Sample Name : 1660 ALT 0.5 PPM
Acquisition Date : 23 Sep 98 06:53 PM
Last Calibration Date : 24 SEP 98 09:00 AM
Analysis Method : 1660F.MTH
Calculation Type : External Standard
Sample Amount : .0
Report Date : 24 Sep 98 09:15 AM
% Difference Limit : 15.0

Compound Name	Amount	Continue Area	Continue RF	Average RF	Absolute RF Dif.	Percent Differ.
TETRACHLORO-M-XYL	2.500E+01	213841	8.554E+03	9.467E+03	9.136E+02	9.6
PCB1016 #1	5.000E+02	80737	1.615E+02	1.802E+02	1.875E+01	10.4
PCB1016 #2	5.000E+02	176931	3.539E+02	3.990E+02	4.518E+01	11.3
PCB1016 #3	5.000E+02	69774	1.395E+02	1.426E+02	3.086E+00	2.2
PCB1016 #4	5.000E+02	319542	6.391E+02	7.115E+02	7.237E+01	10.2
PCB1016 #5	5.000E+02	99006	1.980E+02	2.146E+02	1.662E+01	7.7
PCB1260 #1	5.000E+02	215622	4.312E+02	4.651E+02	3.388E+01	7.3
PCB1260 #2	5.000E+02	219293	4.386E+02	4.739E+02	3.532E+01	7.5
PCB1260 #3	5.000E+02	104474	2.089E+02	1.948E+02	1.419E+01	7.3
PCB1260 #4	5.000E+02	300296	6.006E+02	6.253E+02	2.471E+01	4.0
PCB1260 #5	5.000E+02	118684	2.374E+02	2.534E+02	1.600E+01	6.3
DECACHLOROBIPHENYL	2.500E+01	167218	6.689E+03	7.479E+03	7.900E+02	10.6

<-- = Exceeds %Difference Limit

Page 1



Data File Name	: C:\HPCHEM\1\DATA\092398\007F0101.D	Page Number	: 1
Operator	: ECL	Vial Number	: 7
Instrument	: HP4	Injection Number	: 1
Sample Name	: 1660 ALT 0.5 PPM	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	1660F.MTH
Acquired on	: 23 Sep 98 06:53 PM	Analysis Method	: 1660F.MTH
Report Created on:	24 Sep 98 09:05 AM	Sample Amount	: 0
Last Recalib on	: 24 SEP 98 09:00 AM	ISTD Amount	:
Multiplier	: 1		

External Standard Report

```

Data File Name      : C:\HPCHEM\1\DATA\092398\007F0101.D
Operator           : ECL                               Page Number      : 1
Instrument          : HP4                               Vial Number       : 7
Sample Name        : 1660 ALT 0.5 PPM                  Injection Number  : 1
Run Time Bar Code  :                                   Sequence Line     : 1
Acquired on        : 23 Sep 98 06:53 PM                Instrument Method : 1660F.MTH
Report Created on   : 24 Sep 98 09:05 AM                Analysis Method  : 1660F.MTH
Last Recalib on    : 24 SEP 98 09:00 AM                Sample Amount     : 0
Multiplier         : 1                                ISTD Amount       :
  
```

Sig. 1 in C:\HPCHEM\1\DATA\092398\007F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
7.085	213841	BB	0.067	1	22.588	TETRACHLORO-M-XYL
9.408	80737	BB	0.072	1	447.971	PCB1016 #1
10.931	176931	BB	0.087	1	443.386	PCB1016 #2
12.024	69774	BB	0.084	1	489.185	PCB1016 #3
12.266	319542	BB	0.103	1	449.138	PCB1016 #4
14.642	99006	BB	0.087	1	461.282	PCB1016 #5
19.856	215622	BB	0.110	1	463.584	PCB1260 #1
20.237	219293	BB	0.100	1	462.732	PCB1260 #2
21.740	104474	BB	0.088	1	536.438	PCB1260 #3
24.232	300296	BB	0.087	1	480.241	PCB1260 #4
25.941	118684	BB	0.073	1	468.421	PCB1260 #5
30.846	167218	BB	0.133	1	22.359	DECACHLOROBIPHENYL

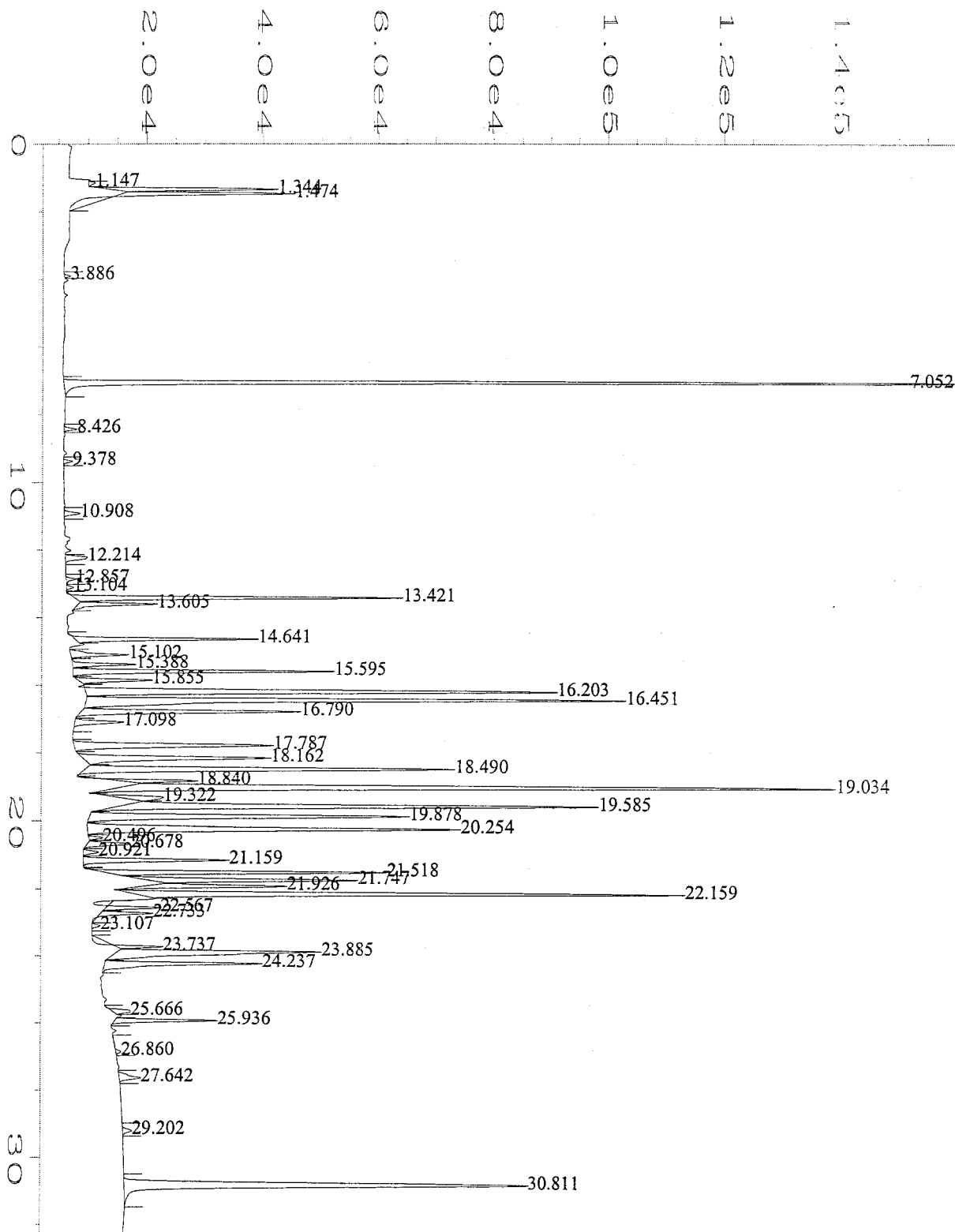
AVERAGE RESPONSE FACTOR CALIBRATION DATA

Calculation Type : External Standard
 5-Pt. Calibration Date : 24 Sep 98 09:20 AM
 Method File : c:\hpchem\1\methods\1254f.mth
 Instrument Name : HP4
 Report Date : 24 Sep 98 09:21 AM
 %RSD Limit : 20.0

Compound Name	Level Response Factor						Avg. RF	%RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
TETRACHLORO-M-XYL	9.188E+03	8.815E+03	8.739E+03	8.299E+03	7.889E+03	8.022E+03	8.492E+03	5.94
PCB 1254 #1	1.702E+02	1.583E+02	1.485E+02	1.348E+02	1.226E+02	1.189E+02	1.422E+02	14.29
PCB 1254 #2	4.389E+02	3.985E+02	3.550E+02	3.199E+02	2.854E+02	2.712E+02	3.448E+02	18.98
PCB 1254 #3	5.879E+02	5.406E+02	5.017E+02	4.570E+02	4.199E+02	4.101E+02	4.862E+02	14.42
PCB 1254 #4	3.938E+02	3.621E+02	3.377E+02	3.047E+02	2.782E+02	2.704E+02	3.245E+02	15.00
PCB 1254 #5	4.278E+02	3.413E+02	3.269E+02	3.006E+02	2.813E+02	2.801E+02	3.263E+02	16.98
DECACHLOROBIPHENYL	7.491E+03	7.127E+03	7.065E+03	6.646E+03	6.195E+03	6.191E+03	6.786E+03	7.84

 <-- = Exceeds %RSD Limit

Page 1



Data File Name	: C:\HPCHEM\1\DATA\092398\008F0101.D	Page Number	: 1
Operator	: ECL	Vial Number	: 8
Instrument	: HP4	Injection Number	: 1
Sample Name	: 1254 2.0 PPM	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	1660F.MTH
Acquired on	: 23 Sep 98 07:29 PM	Analysis Method	: 1254F.MTH
Report Created on:	24 Sep 98 09:17 AM	Sample Amount	: 0
Last Recalib on	: 21 SEP 98 10:20 AM	ISTD Amount	:
Multiplier	: 1		

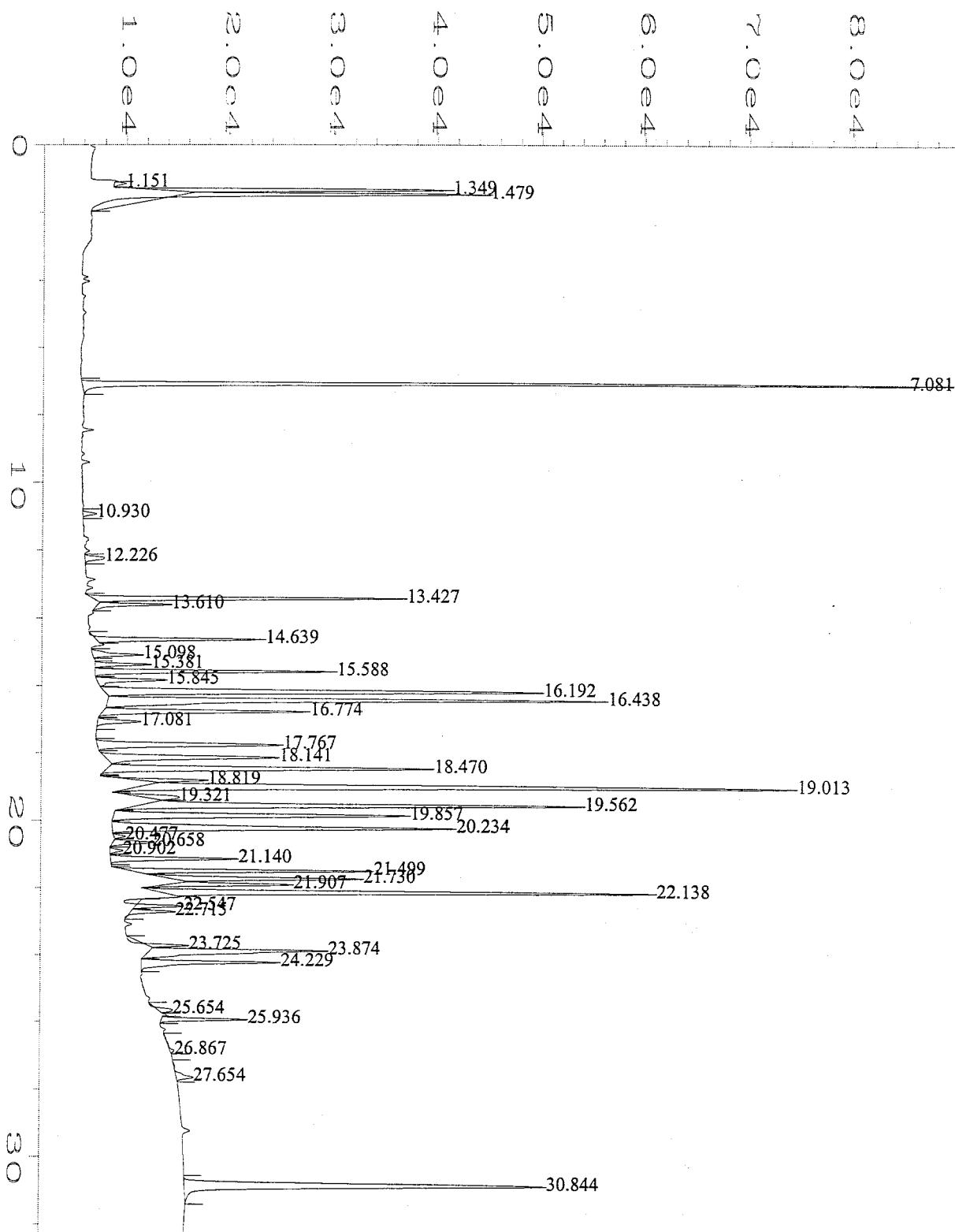
External Standard Report

```

Data File Name      : C:\HPCHEM\1\DATA\092398\008F0101.D
Operator           : ECL                               Page Number      : 1
Instrument          : HP4                               Vial Number       : 8
Sample Name        : 1254 2.0 PPM                     Injection Number  : 1
Run Time Bar Code:                                     Sequence Line     : 1
Acquired on        : 23 Sep 98  07:29 PM              Instrument Method: 1660F.MTH
Report Created on  : 24 Sep 98  09:22 AM              Analysis Method   : 1254F.MTH
Last Recalib on   : 24 SEP 98  09:21 AM              Sample Amount    : 0
Multiplier         : 1                               ISTD Amount      :
  
```

Sig. 1 in C:\HPCHEM\1\DATA\092398\008F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
7.052	802201	BB	0.069	1	94.466	TETRACHLORO-M-XYL
15.595	237787	BB	0.083	1	1672.077	PCB 1254 #1
16.203	542379	BB	0.104	1	1572.878	PCB 1254 #2
19.034	820267	BB	0.103	1	1687.075	PCB 1254 #3
19.585	540827	BB	0.101	1	1666.636	PCB 1254 #4
22.159	560246	BB	0.093	1	1716.821	PCB 1254 #5
30.811	619090	BB	0.137	1	91.233	DECACHLOROBIPHENYL



Data File Name	: C:\HPCHEM\1\DATA\092398\009F0101.D	Page Number	: 1
Operator	: ECL	Vial Number	: 9
Instrument	: HP4	Injection Number	: 1
Sample Name	: 1254 1.0 PPM	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	1660F.MTH
Acquired on	: 23 Sep 98 08:04 PM	Analysis Method	: 1254F.MTH
Report Created on:	24 Sep 98 09:22 AM	Sample Amount	: 0
Last Recalib on	: 24 SEP 98 09:21 AM	ISTD Amount	:
Multiplier	: 1		

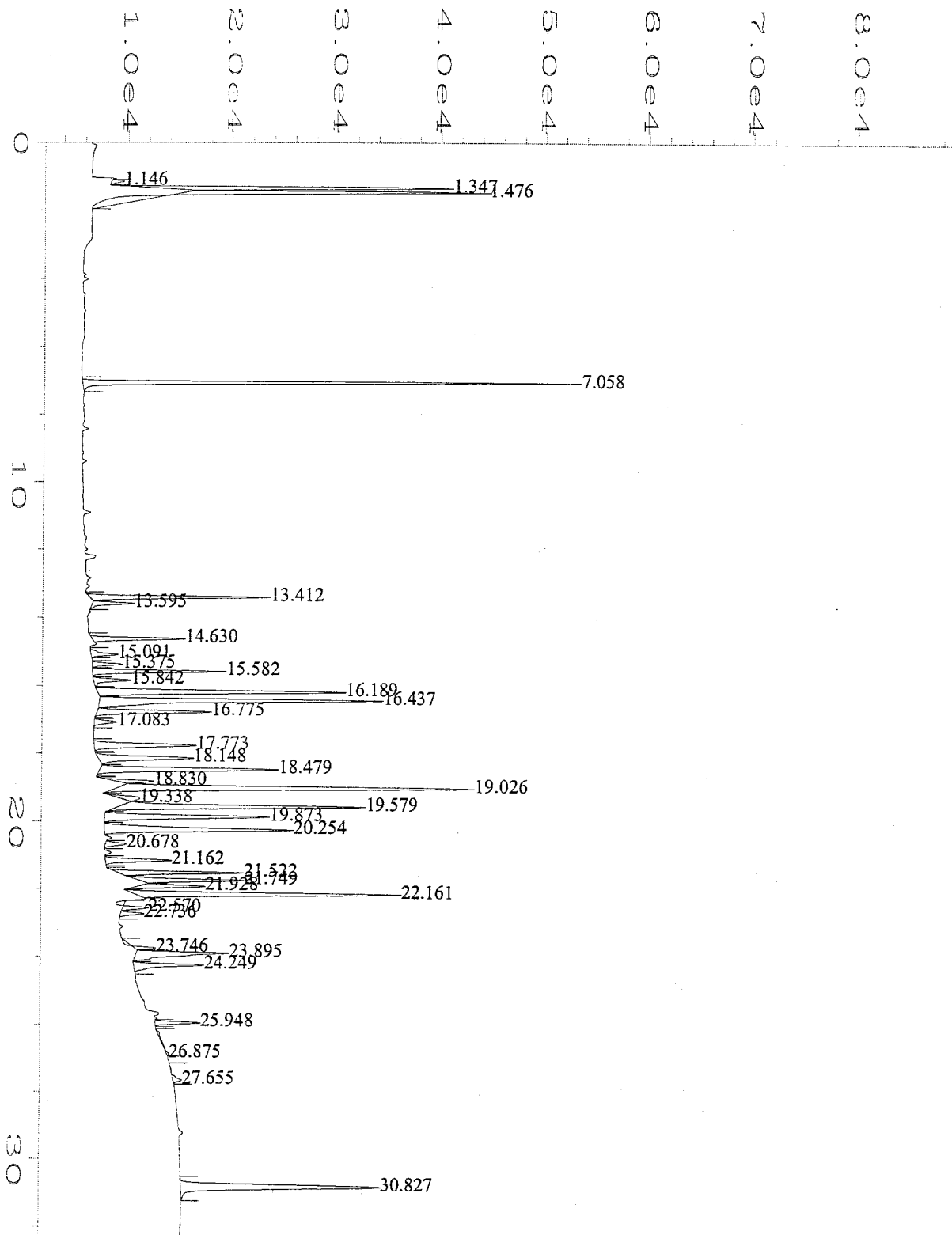
External Standard Report

```

Data File Name      : C:\HPCHEM\1\DATA\092398\009F0101.D
Operator            : ECL                               Page Number       : 1
Instrument          : HP4                               Vial Number        : 9
Sample Name        : 1254 1.0 PPM                      Injection Number   : 1
Run Time Bar Code  :                                   Sequence Line      : 1
Acquired on        : 23 Sep 98  08:04 PM               Instrument Method  : 1660F.MTH
Report Created on   : 24 Sep 98  09:22 AM               Analysis Method    : 1254F.MTH
Last Recalib on    : 24 SEP 98  09:21 AM               Sample Amount     : 0
Multiplier         : 1                                 ISTD Amount       :
  
```

Sig. 1 in C:\HPCHEM\1\DATA\092398\009F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
7.081	394438	BB	0.069	1	46.449	TETRACHLORO-M-XYL
15.588	122612	BB	0.083	1	862.184	PCB 1254 #1
16.192	285447	BB	0.105	1	827.785	PCB 1254 #2
19.013	419863	BB	0.105	1	863.548	PCB 1254 #3
19.562	278233	BB	0.101	1	857.415	PCB 1254 #4
22.138	281261	BB	0.092	1	861.899	PCB 1254 #5
30.844	309736	BB	0.138	1	45.645	DECACHLOROBIPHENYL



Data File Name	: C:\HPCHEM\1\DATA\092398\010F0101.D	Page Number	: 1
Operator	: ECL	Vial Number	: 10
Instrument	: HP4	Injection Number	: 1
Sample Name	: 1254 0.5 PPM	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	1660F.MTH
Acquired on	: 23 Sep 98 08:40 PM	Analysis Method	: 1254F.MTH
Report Created on:	24 Sep 98 09:22 AM	Sample Amount	: 0
Last Recalib on	: 24 SEP 98 09:21 AM	ISTD Amount	:
Multiplier	: 1		

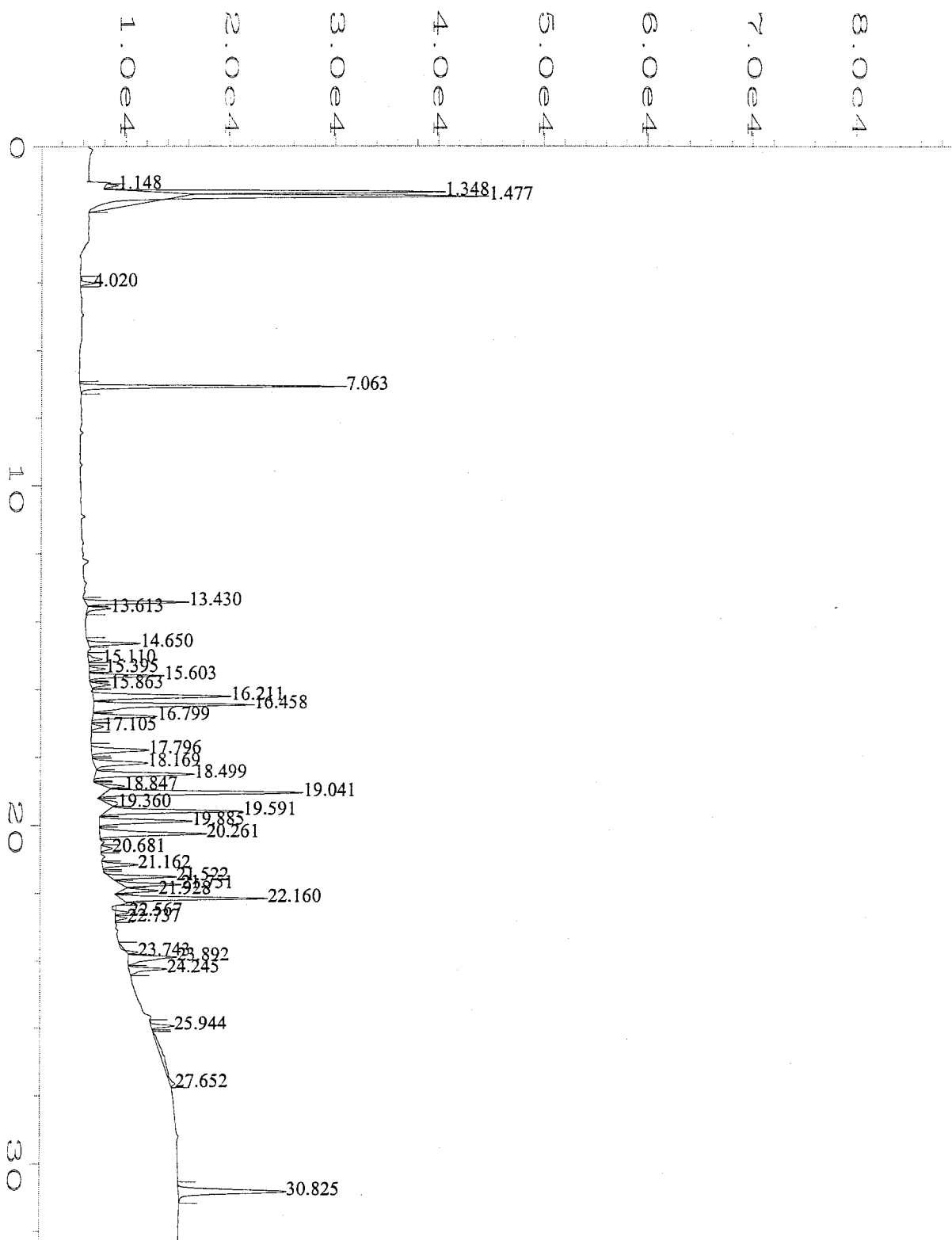
External Standard Report

```

Data File Name      : C:\HPCHEM\1\DATA\092398\010F0101.D
Operator            : ECL                               Page Number       : 1
Instrument          : HP4                               Vial Number        : 10
Sample Name        : 1254 0.5 PPM                     Injection Number   : 1
Run Time Bar Code  :                                   Sequence Line     : 1
Acquired on        : 23 Sep 98 08:40 PM                Instrument Method  : 1660F.MTH
Report Created on  : 24 Sep 98 09:22 AM                Analysis Method   : 1254F.MTH
Last Recalib on   : 24 SEP 98 09:21 AM                Sample Amount     : 0
Multiplier        : 1                                 ISTD Amount       :
  
```

Sig. 1 in C:\HPCHEM\1\DATA\092398\010F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
7.058	207471	BB	0.067	1	24.432	TETRACHLORO-M-XYL
15.582	67379	BB	0.082	1	473.799	PCB 1254 #1
16.189	159954	BB	0.105	1	463.862	PCB 1254 #2
19.026	228517	BB	0.105	1	469.999	PCB 1254 #3
19.579	152371	BB	0.099	1	469.554	PCB 1254 #4
22.161	150297	BB	0.093	1	460.571	PCB 1254 #5
30.827	166145	BB	0.135	1	24.484	DECACHLOROBIPHENYL



Data File Name	: C:\HPCHEM\1\DATA\092398\011F0101.D	Page Number	: 1
Operator	: ECL	Vial Number	: 11
Instrument	: HP4	Injection Number	: 1
Sample Name	: 1254 0.25 PPM	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: 1660F.MTH
Acquired on	: 23 Sep 98 09:16 PM	Analysis Method	: 1254F.MTH
Report Created on:	: 24 Sep 98 09:21 AM	Sample Amount	: 0
Last Recalib on	: 24 SEP 98 09:21 AM	ISTD Amount	:
Multiplier	: 1		

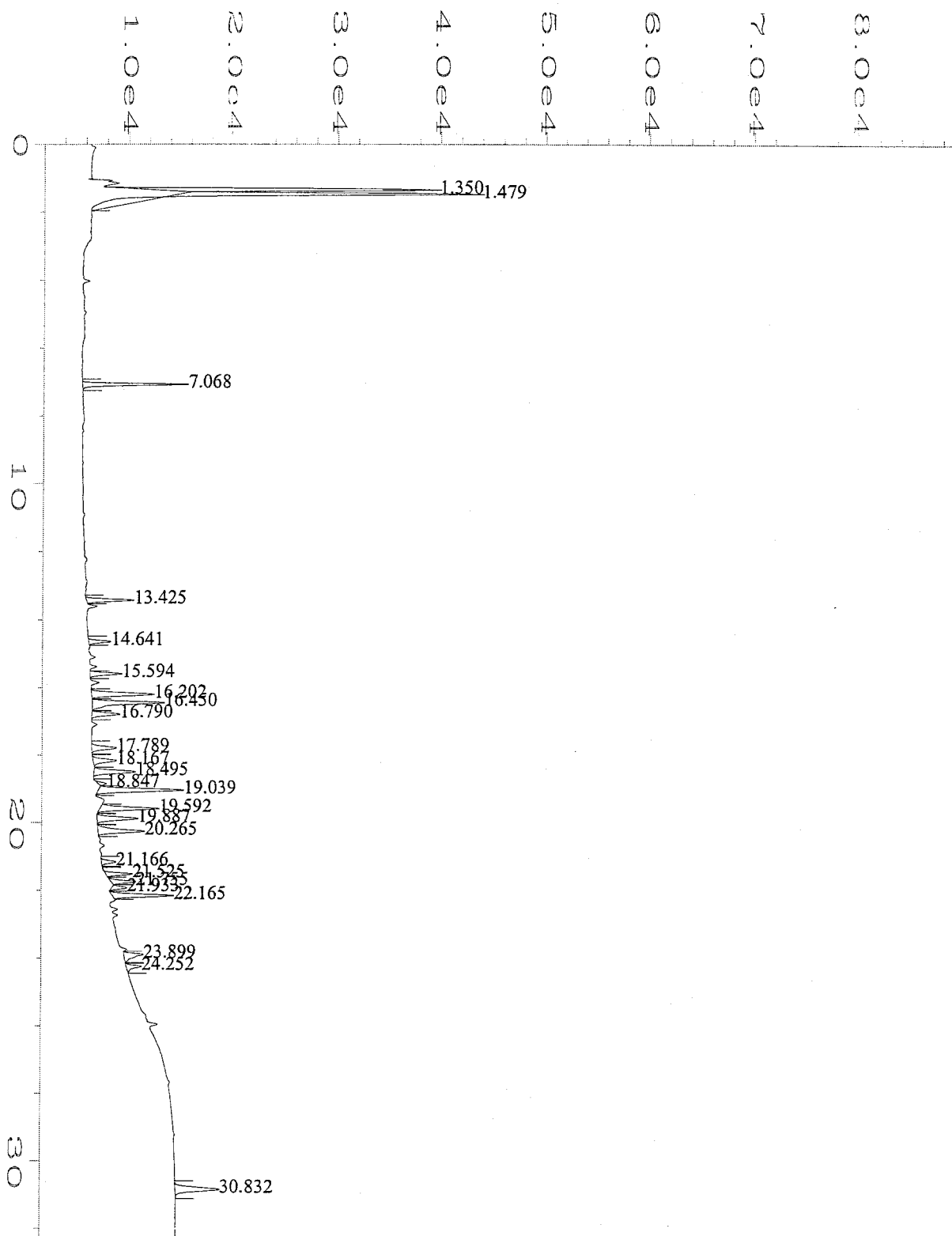
External Standard Report

```

Data File Name      : C:\HPCHEM\1\DATA\092398\011F0101.D
Operator            : ECL
Instrument           : HP4
Sample Name         : 1254 0.25 PPM
Run Time Bar Code   :
Acquired on         : 23 Sep 98 09:16 PM
Report Created on   : 24 Sep 98 09:21 AM
Last Recalib on    : 24 SEP 98 09:21 AM
Multiplier          : 1
Page Number         : 1
Vial Number         : 11
Injection Number    : 1
Sequence Line       : 1
Instrument Method    : 1660F.MTH
Analysis Method     : 1254F.MTH
Sample Amount       : 0
ISTD Amount         :
  
```

Sig. 1 in C:\HPCHEM\1\DATA\092398\011F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
7.063	109236	BB	0.067	1	12.864	TETRACHLORO-M-XYL
15.603	37129	BB	0.082	1	261.088	PCB 1254 #1
16.211	88752	BB	0.107	1	257.378	PCB 1254 #2
19.041	125422	BB	0.104	1	257.959	PCB 1254 #3
19.591	84428	BB	0.101	1	260.178	PCB 1254 #4
22.160	81717	BB	0.091	1	250.414	PCB 1254 #5
30.825	88314	BB	0.134	1	13.015	DECACHLOROBI PHENYL



Data File Name	: C:\HPCHEM\1\DATA\092398\012F0101.D	Page Number	: 1
Operator	: ECL	Vial Number	: 12
Instrument	: HP4	Injection Number	: 1
Sample Name	: 1254 0.1 PPM	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: 1660F.MTH
Acquired on	: 23 Sep 98 09:52 PM	Analysis Method	: 1254F.MTH
Report Created on:	24 Sep 98 09:21 AM	Sample Amount	: 0
Last Recalib on	: 24 SEP 98 09:21 AM	ISTD Amount	:
Multiplier	: 1		

External Standard Report

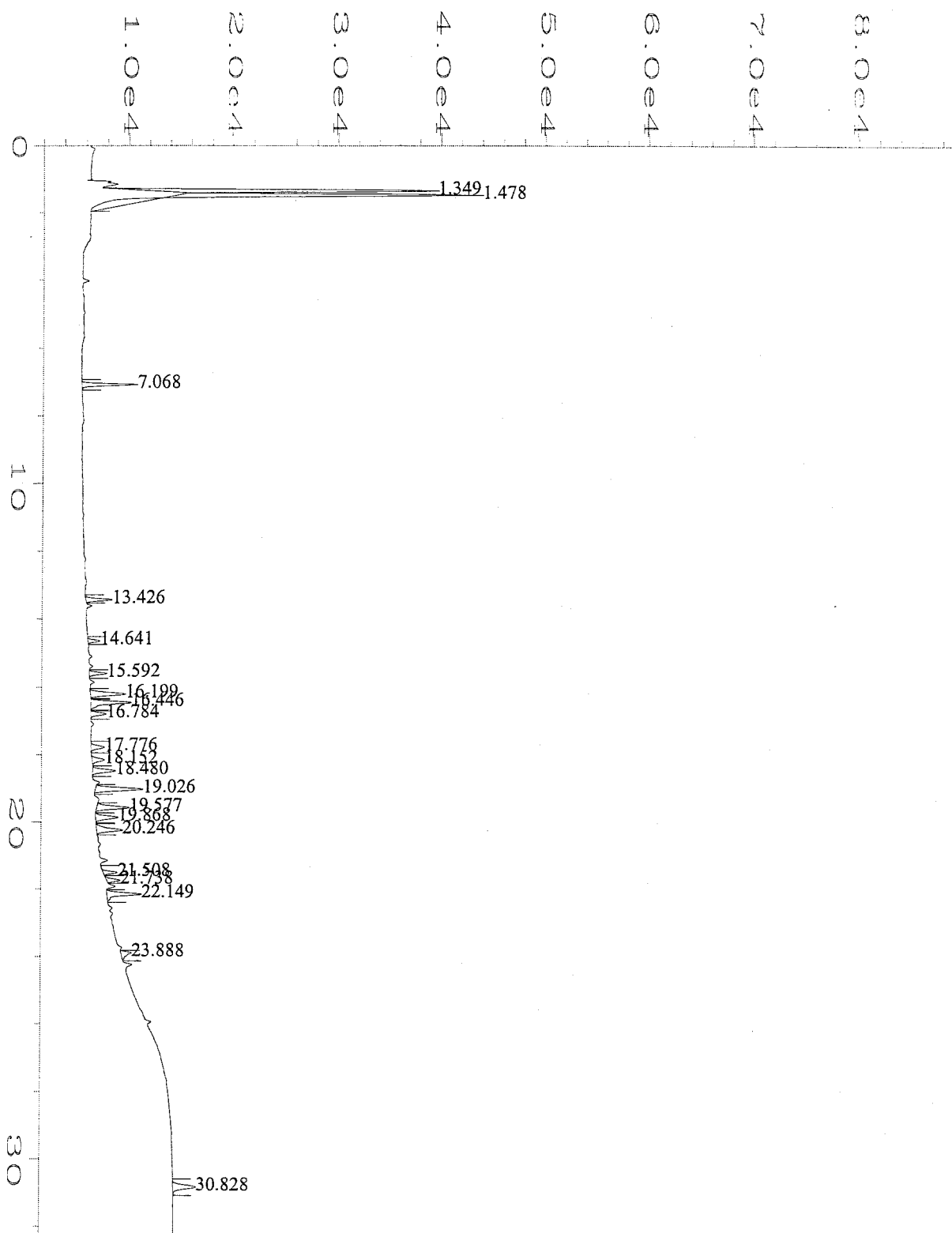
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Data File Name      : C:\HPCHEM\1\DATA\092398\012F0101.D
Operator           : ECL
Instrument          : HP4
Sample Name        : 1254 0.1 PPM
Run Time Bar Code  :
Acquired on        : 23 Sep 98 09:52 PM
Report Created on  : 24 Sep 98 09:21 AM
Last Recalib on   : 24 SEP 98 09:21 AM
Multiplier         : 1

Page Number        : 1
Vial Number        : 12
Injection Number    : 1
Sequence Line      : 1
Instrument Method   : 1660F.MTH
Analysis Method     : 1254F.MTH
Sample Amount       : 0
ISTD Amount         :
  
```

Sig. 1 in C:\HPCHEM\1\DATA\092398\012F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
7.068	44076	BB	0.067	1	5.190	TETRACHLORO-M-XYL
15.594	15828	BB	0.082	1	111.301	PCB 1254 #1
16.202	39851	BB	0.105	1	115.566	PCB 1254 #2
19.039	54064	BB	0.105	1	111.195	PCB 1254 #3
19.592	36211	BB	0.100	1	111.589	PCB 1254 #4
22.165	34130	BB	0.091	1	104.588	PCB 1254 #5
30.832	35637	BB	0.133	1	5.252	DECACHLOROBIPHENYL



Data File Name	: C:\HPCHEM\1\DATA\092398\013F0101.D	Page Number	: 1
Operator	: ECL	Vial Number	: 13
Instrument	: HP4	Injection Number	: 1
Sample Name	: 1254 0.05 PPM	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: 1660F.MTH
Acquired on	: 23 Sep 98 10:27 PM	Analysis Method	: 1254F.MTH
Report Created on:	24 Sep 98 09:21 AM	Sample Amount	: 0
Last Recalib on	: 24 SEP 98 09:21 AM	ISTD Amount	:
Multiplier	: 1		

External Standard Report

```

Data File Name      : C:\HPCHEM\1\DATA\092398\013F0101.D
Operator           : ECL
Instrument          : HP4
Sample Name        : 1254 0.05 PPM
Run Time Bar Code  :
Acquired on        : 23 Sep 98  10:27 PM
Report Created on   : 24 Sep 98  09:21 AM
Last Recalib on    : 24 SEP 98 09:21 AM
Multiplier         : 1

Page Number        : 1
Vial Number        : 13
Injection Number    : 1
Sequence Line      : 1
Instrument Method    : 1660F.MTH
Analysis Method     : 1254F.MTH
Sample Amount       : 0
ISTD Amount         :
  
```

Sig. 1 in C:\HPCHEM\1\DATA\092398\013F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
7.068	22970	BB	0.068	1	2.705	TETRACHLORO-M-XYL
15.592	8510	BB	0.081	1	59.841	PCB 1254 #1
16.199	21947	BB	0.104	1	63.644	PCB 1254 #2
19.026	29394	BB	0.103	1	60.456	PCB 1254 #3
19.577	19690	BB	0.099	1	60.678	PCB 1254 #4
22.149	21391	BB	0.100	1	65.551	PCB 1254 #5
30.828	18727	BB	0.130	1	2.760	DECACHLOROBIPHENYL

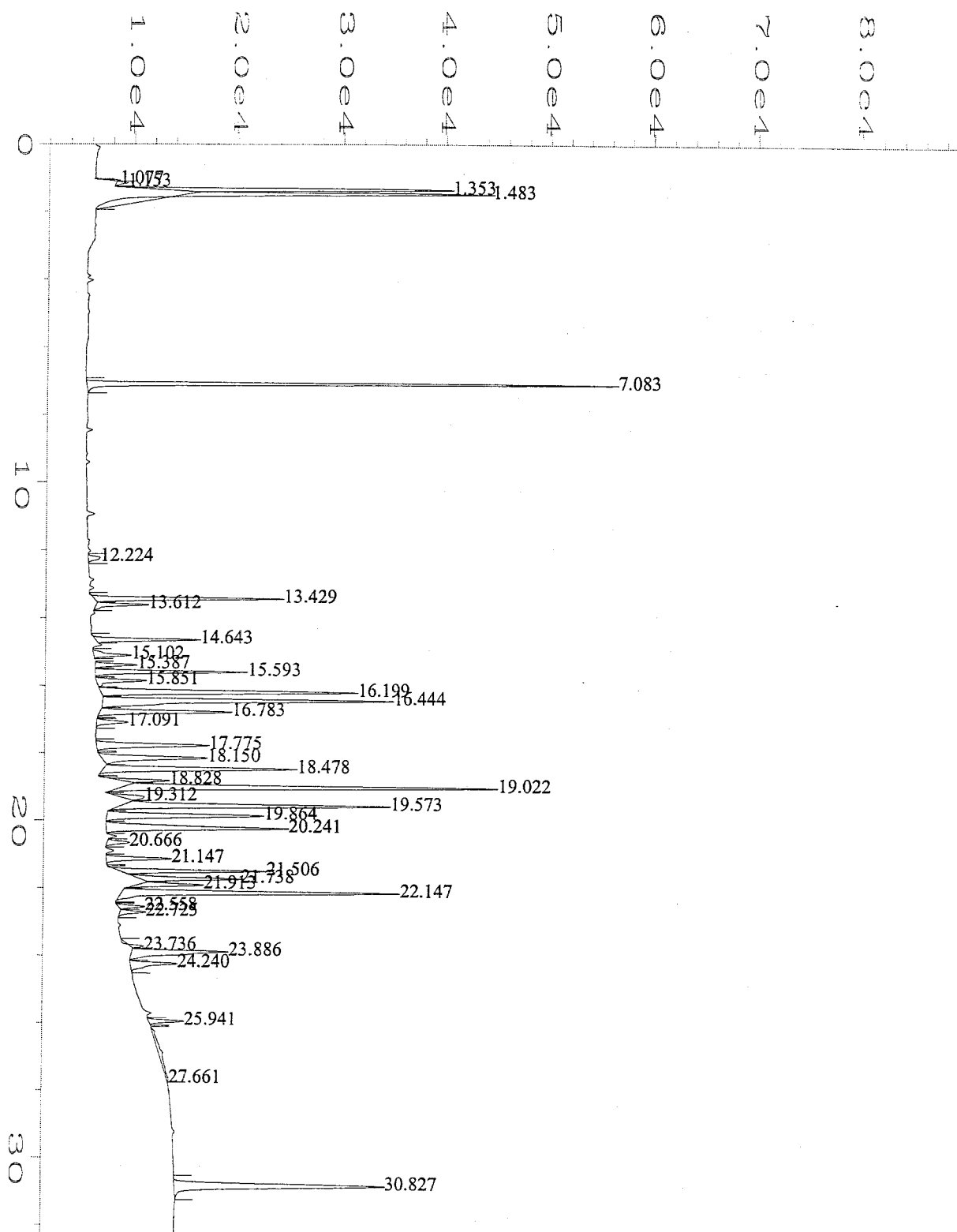
CONTINUING CALIBRATION DATA

Data File : C:\HPCHEM\1\DATA\092398\014F0101.D
Calibration Check Level : 4
Instrument : HP4
Sample Name : 1254 ALT 0.5 PPM
Acquisition Date : 23 Sep 98 11:03 PM
Last Calibration Date : 24 SEP 98 09:21 AM
Analysis Method : 1254F.MTH
Calculation Type : External Standard
Sample Amount : .0
Report Date : 24 Sep 98 09:31 AM
% Difference Limit : 15.0

Compound Name	Amount	Continue Area	Continue RF	Average RF	Absolute RF Dif.	Percent Differ.
TETRACHLORO-M-XYL	2.500E+01	222474	8.899E+03	8.492E+03	4.070E+02	4.8
PCB 1254 #1	5.000E+02	77873	1.557E+02	1.422E+02	1.354E+01	9.5
PCB 1254 #2	5.000E+02	166020	3.320E+02	3.448E+02	1.279E+01	3.7
PCB 1254 #3	5.000E+02	235966	4.719E+02	4.862E+02	1.427E+01	2.9
PCB 1254 #4	5.000E+02	166124	3.322E+02	3.245E+02	7.746E+00	2.4
PCB 1254 #5	5.000E+02	173418	3.468E+02	3.263E+02	2.051E+01	6.3
DECACHLOROBIPHENYL	2.500E+01	174137	6.965E+03	6.786E+03	1.797E+02	2.6

<-- = Exceeds %Difference Limit

Page 1



Data File Name	: C:\HPCHEM\1\DATA\092398\014F0101.D	Page Number	: 1
Operator	: ECL	Vial Number	: 14
Instrument	: HP4	Injection Number	: 1
Sample Name	: 1254 ALT 0.5 PPM	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	1660F.MTH
Acquired on	: 23 Sep 98 11:03 PM	Analysis Method	: 1254F.MTH
Report Created on:	24 Sep 98 09:23 AM	Sample Amount	: 0
Last Recalib on	: 24 SEP 98 09:21 AM	ISTD Amount	:
Multiplier	: 1		

External Standard Report

```

Data File Name      : C:\HPCHEM\1\DATA\092398\014F0101.D
Operator            : ECL
Instrument           : HP4
Sample Name         : 1254 ALT 0.5 PPM
Run Time Bar Code   :
Acquired on         : 23 Sep 98  11:03 PM
Report Created on   : 24 Sep 98  09:23 AM
Last Recalib on    : 24 SEP 98  09:21 AM
Multiplier         : 1
Page Number         : 1
Vial Number         : 14
Injection Number    : 1
Sequence Line       : 1
Instrument Method    : 1660F.MTH
Analysis Method     : 1254F.MTH
Sample Amount       : 0
ISTD Amount         :
  
```

Sig. 1 in C:\HPCHEM\1\DATA\092398\014F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
7.083	222474	BB	0.068	1	26.198	TETRACHLORO-M-XYL
15.593	77873	BB	0.084	1	547.589	PCB 1254 #1
16.199	166020	BB	0.105	1	481.452	PCB 1254 #2
19.022	235966	BB	0.103	1	485.320	PCB 1254 #3
19.573	166124	BB	0.100	1	511.936	PCB 1254 #4
22.147	173418	BB	0.100	1	531.423	PCB 1254 #5
30.827	174137	BB	0.136	1	25.662	DECACHLOROBIPHENYL

=====
Calibration Report
=====

Data File Name : C:\HPCHEM\1\DATA\092398\015F0101.D
Operator : ECL Page Number : 1
Instrument : HP4 Vial Number : 15
Sample Name : 1248 0.5 PPM Injection Number : 1
Run Time Bar Code: Sequence Line : 1
Acquired on : 23 Sep 98 11:39 PM Instrument Method: 1660F.MTH
Report Created on: 24 Sep 98 10:24 AM Analysis Method : 1248F.MTH
Last Recalib on : 31 AUG 98 10:09 AM Sample Amount : 0
Multiplier : 1 ISTD Amount :

Calibration Table

Pk#	RT	Lvl	UG/L	Amt/Area	Ref Istd I#	Name
1	7.069	1	25.0	8.8385e-005	1	TETRACHLORO-M-XYLENE
2	10.920	1	500.0	6.7996e-003	1	AR 1248 #1
3	12.259	1	500.0	2.3193e-003	1	AR 1248 #2
4	14.642	1	500.0	4.3648e-003	1	AR 1248 #3
5	15.593	1	500.0	3.7268e-003	1	AR 1248 #4
6	17.095	1	500.0	3.6312e-003	1	AR 1248 #5
7	30.829	1	25.0	1.1209e-004	1	DECACHLOROBI PHENYL

Calibration Settings

Title:

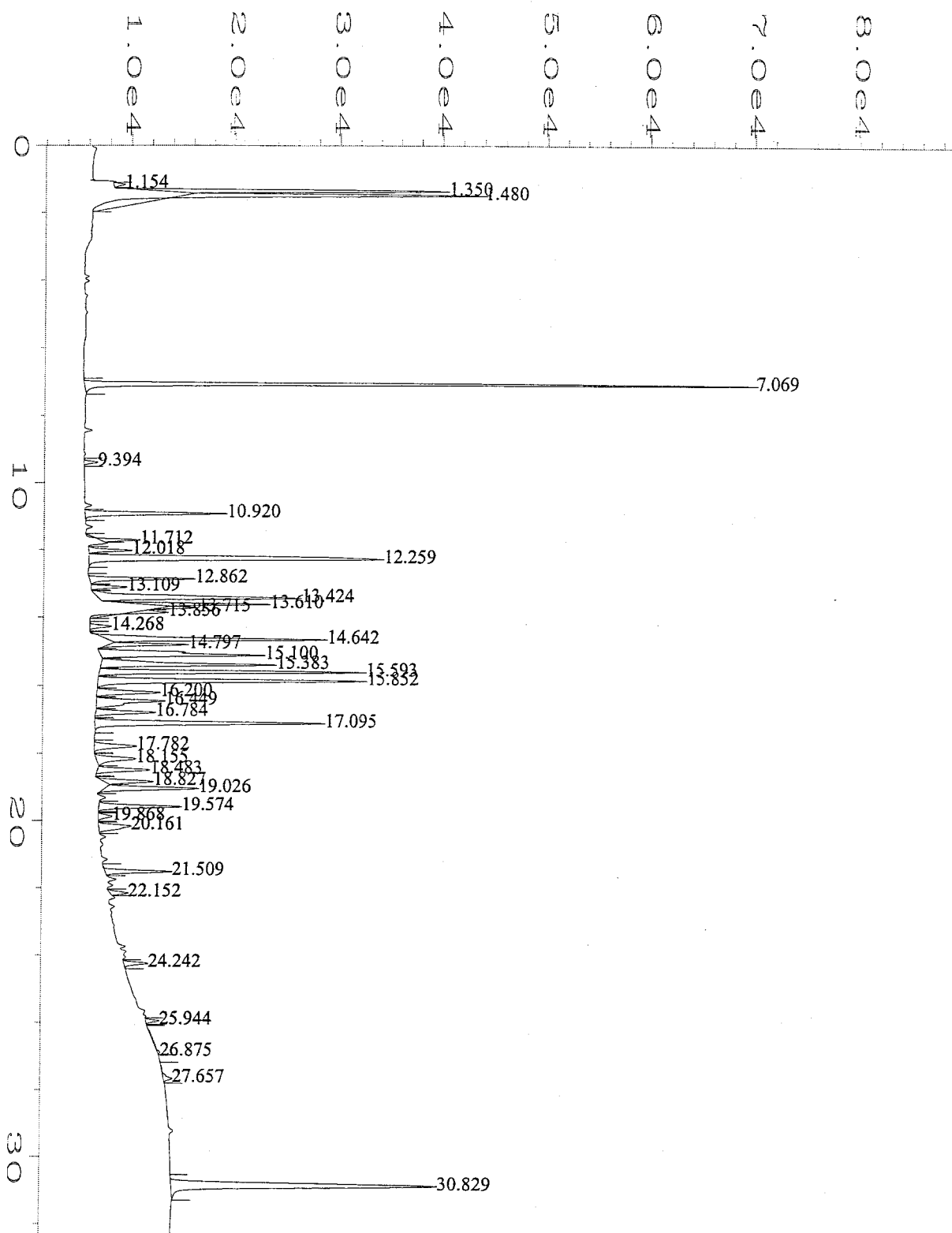
Reference window: 0.200 minutes
Non-reference window: 0.200 minutes
Units of amount: UG/L
Multiplier: 1.0
RF uncal peaks: 0.0
ISTD# to adjust uncal peaks: 0
Sample Amount: 0.0

Sample ISTD Information

No Sample ISTD Amounts

Multilevel Information

Fit: Linear
Origin: Force



Data File Name	: C:\HPCHEM\1\DATA\092398\015F0101.D	Page Number	: 1
Operator	: ECL	Vial Number	: 15
Instrument	: HP4	Injection Number	: 1
Sample Name	: 1248 0.5 PPM	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	1660F.MTH
Acquired on	: 23 Sep 98 11:39 PM	Analysis Method	: 1248F.MTH
Report Created on:	24 Sep 98 10:23 AM	Sample Amount	: 0
Last Recalib on	: 31 AUG 98 10:09 AM	ISTD Amount	:
Multiplier	: 1		

External Standard Report

```

Data File Name      : C:\HPCHEM\1\DATA\092398\015F0101.D
Operator            : ECL
Instrument           : HP4
Sample Name         : 1248 0.5 PPM
Run Time Bar Code   :
Acquired on         : 23 Sep 98  11:39 PM
Report Created on   : 24 Sep 98  10:25 AM
Last Recalib on    : 24 Sep 98  10:24 AM
Multiplier          : 1

Page Number         : 1
Vial Number         : 15
Injection Number    : 1
Sequence Line       : 1
Instrument Method    : 1660F.MTH
Analysis Method     : 1248F.MTH
Sample Amount       : 0
ISTD Amount         :
  
```

Sig. 1 in C:\HPCHEM\1\DATA\092398\015F0101.D

Ret Time	Area	Type	Width	Ref#	UG/L	Name
7.069	282853	BB	0.068	1	25.000	TETRACHLORO-M-XYLENE
10.920	73534	BB	0.084	1	500.000	AR 1248 #1
12.259	215582	BB	0.107	1	500.000	AR 1248 #2
14.642	114554	BB	0.083	1	500.000	AR 1248 #3
15.593	134165	BB	0.083	1	500.000	AR 1248 #4
17.095	137694	BB	0.097	1	500.000	AR 1248 #5
30.829	223040	BB	0.137	1	25.000	DECACHLOROBIPHENYL

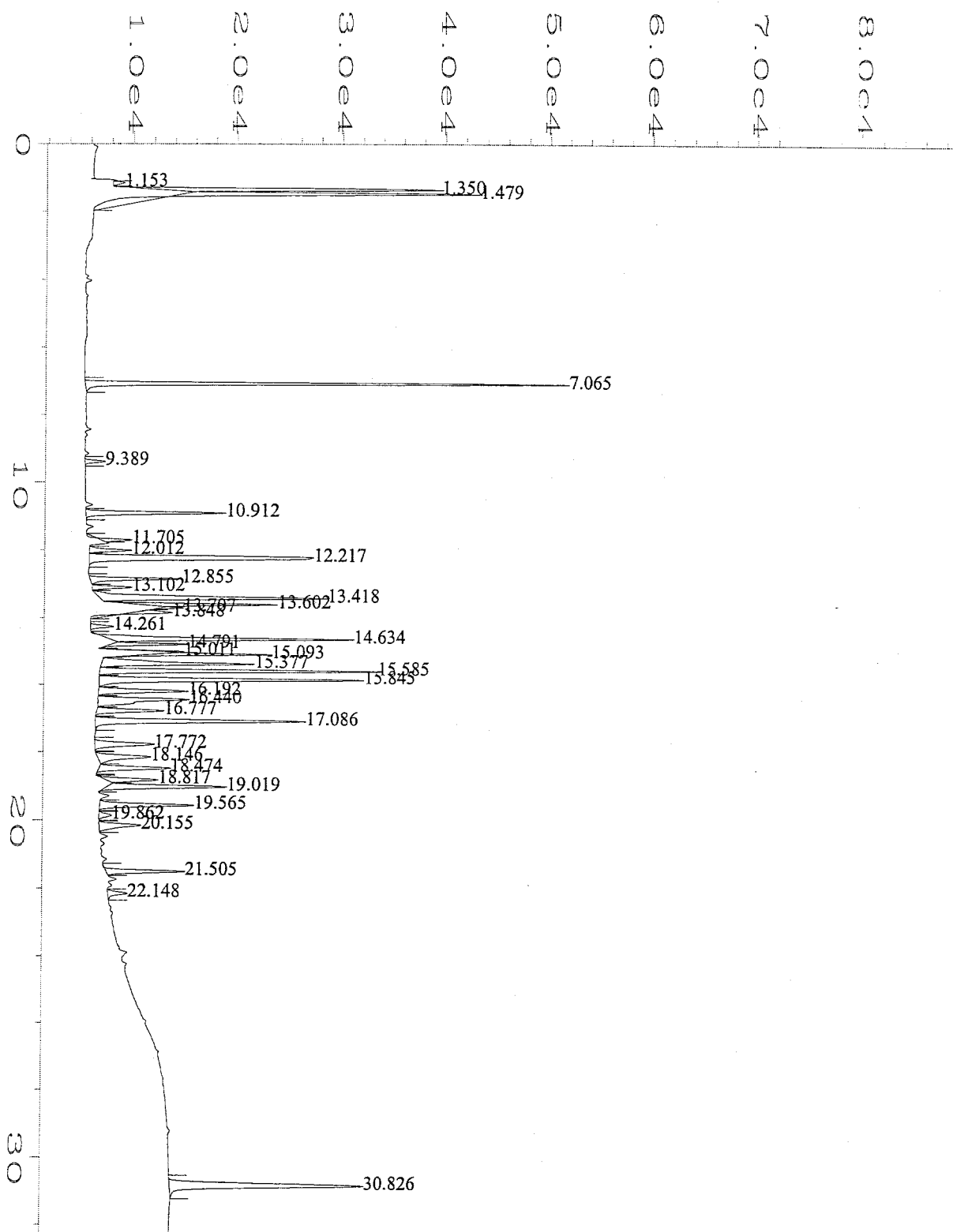
CONTINUING CALIBRATION DATA

Data File : C:\HPCHEM\1\DATA\092398\016F0101.D
Calibration Check Level : 4
Instrument : HP4
Sample Name : 1248 ALT 0.5 PPM
Acquisition Date : 24 Sep 98 00:14 AM
Last Calibration Date : 24 Sep 98 10:24 AM
Analysis Method : 1248F.MTH
Calculation Type : External Standard
Sample Amount : .0
Report Date : 24 Sep 98 10:46 AM
% Difference Limit : 15.0

Compound Name	Amount	Continue Area	Continue RF	Average RF	Absolute RF Dif.	Percent Differ.
TETRACHLORO-M-XYLENE	2.500E+01	202672	8.107E+03	1.131E+04	3.207E+03	28.3<--
AR 1248 #1	5.000E+02	71925	1.439E+02	1.471E+02	3.217E+00	2.2
AR 1248 #2	5.000E+02	170191	3.404E+02	4.312E+02	9.078E+01	21.1<--
AR 1248 #3	5.000E+02	121842	2.437E+02	2.291E+02	1.458E+01	6.4
AR 1248 #4	5.000E+02	139610	2.792E+02	2.683E+02	1.089E+01	4.1
AR 1248 #5	5.000E+02	126755	2.535E+02	2.754E+02	2.188E+01	7.9
DECACHLOROBIPHENYL	2.500E+01	161933	6.477E+03	8.922E+03	2.444E+03	27.4<--

<-- = Exceeds %Difference Limit

Page 1



Data File Name	: C:\HPCHEM\1\DATA\092398\016F0101.D	Page Number	: 1
Operator	: ECL	Vial Number	: 16
Instrument	: HP4	Injection Number	: 1
Sample Name	: 1248 ALT 0.5 PPM	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	1660F.MTH
Acquired on	: 24 Sep 98 00:14 AM	Analysis Method	: 1248F.MTH
Report Created on:	24 Sep 98 10:25 AM	Sample Amount	: 0
Last Recalib on	: 24 Sep 98 10:24 AM	ISTD Amount	: -
Multiplier	: 1		

External Standard Report

```

Data File Name      : C:\HPCHEM\1\DATA\092398\016F0101.D
Operator           : ECL
Instrument          : HP4
Sample Name        : 1248 ALT 0.5 PPM
Run Time Bar Code  :
Acquired on        : 24 Sep 98  00:14 AM
Report Created on   : 24 Sep 98  10:25 AM
Last Recalib on    : 24 Sep 98  10:24 AM
Multiplier         : 1

Page Number        : 1
Vial Number        : 16
Injection Number    : 1
Sequence Line      : 1
Instrument Method   : 1660F.MTH
Analysis Method    : 1248F.MTH
Sample Amount      : 0
ISTD Amount        :
  
```

Sig. 1 in C:\HPCHEM\1\DATA\092398\016F0101.D

Ret Time	Area	Type	Width	Ref#	UG/L	Name
7.065	202672	BB	0.068	1	17.913	TETRACHLORO-M-XYLENE
10.912	71925	BB	0.084	1	489.065	AR 1248 #1
12.217	170191	BB	0.114	1	394.725	AR 1248 #2
14.634	121842	BB	0.080	1	531.812	AR 1248 #3
15.585	139610	BB	0.083	1	520.293	AR 1248 #4
17.086	126755	BB	0.098	1	460.277	AR 1248 #5
30.826	161933	BB	0.137	1	18.151	DECACHLOROBIPHENYL

Calibration Report

```

Data File Name      : C:\HPCHEM\1\DATA\092398\017F0101.D
Operator            : ECL
Instrument           : HP4
Sample Name         : 1242 0.5 PPM
Run Time Bar Code   :
Acquired on         : 24 Sep 98  00:50 AM
Report Created on   : 24 Sep 98  10:33 AM
Last Recalib on    : 31 AUG 98 10:13 AM
Multiplier          : 1

Page Number         : 1
Vial Number         : 17
Injection Number    : 1
Sequence Line       : 1
Instrument Method    : 1660F.MTH
Analysis Method     : 1242F.MTH
Sample Amount       : 0
ISTD Amount         :
  
```

Calibration Table

Pk#	RT	Lvl	UG/L	Amt/Area	Ref Istd I#	Name
1	7.065	1	25.0	1.2253e-004	1	TETRACHLORO-M-XYLENE
2	9.386	1	500.0	7.2835e-003	1	AR 1242 #1
3	10.913	1	500.0	3.5399e-003	1	AR 1242 #2
4	12.249	1	500.0	1.9813e-003	1	AR 1242 #3
5	15.583	1	500.0	6.2155e-003	1	AR 1242 #4
6	15.843	1	500.0	4.9976e-003	1	AR 1242 #5
7	30.816	1	25.0	1.5371e-004	1	DECACHLOROBIPHENYL

Calibration Settings

Title:

```

Reference window:      0.200 minutes
Non-reference window:  0.200 minutes
Units of amount:       UG/L
Multiplier:            1.0
RF uncal peaks:        0.0
ISTD# to adjust uncal peaks: 0
Sample Amount:         0.0
  
```

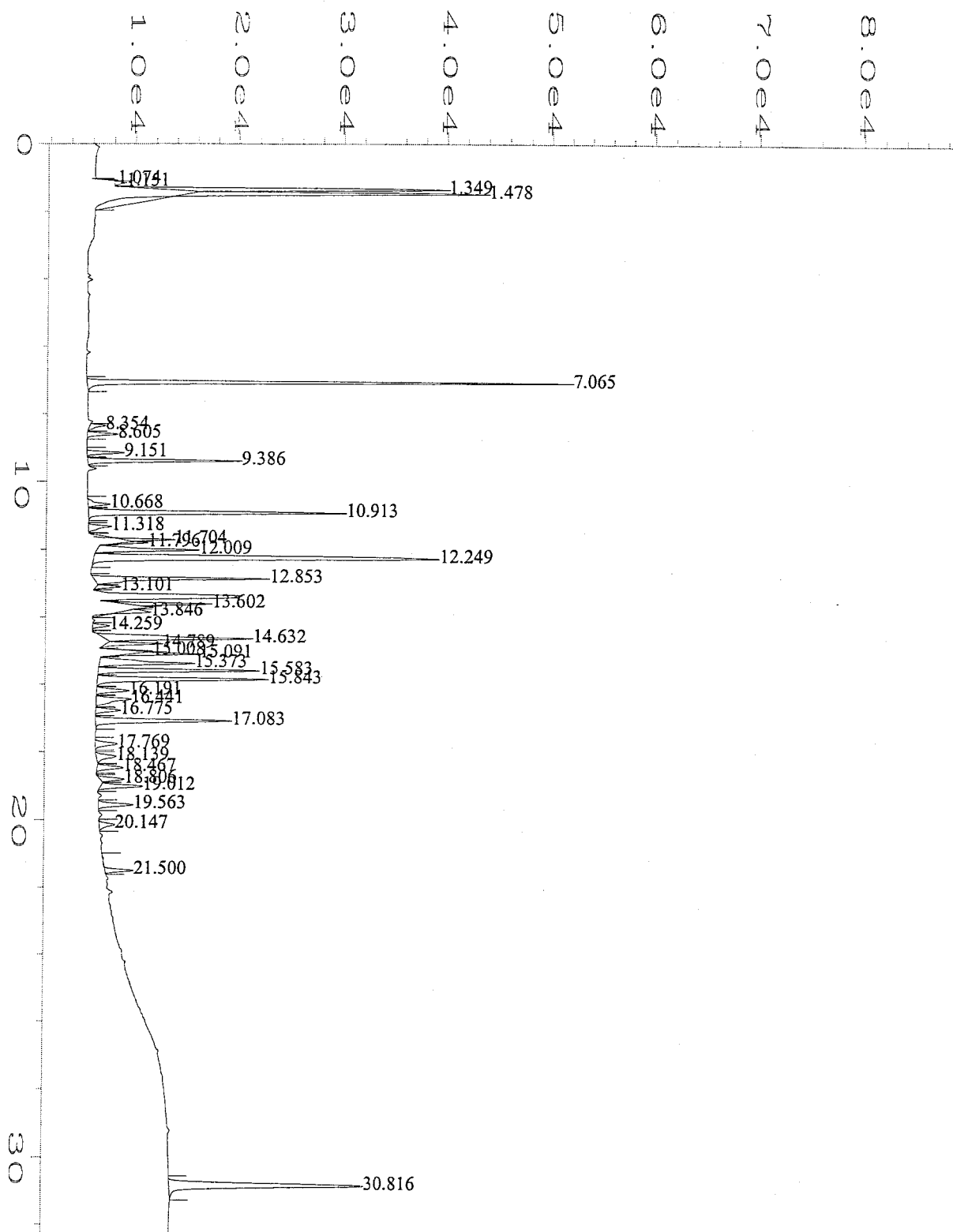
Sample ISTD Information

No Sample ISTD Amounts

Multilevel Information

```

Fit:    Linear
Origin: Force
  
```



Data File Name	: C:\HPCHEM\1\DATA\092398\017F0101.D	Page Number	: 1
Operator	: ECL	Vial Number	: 17
Instrument	: HP4	Injection Number	: 1
Sample Name	: 1242 0.5 PPM	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	1660F.MTH
Acquired on	: 24 Sep 98 00:50 AM	Analysis Method	: 1242F.MTH
Report Created on:	24 Sep 98 10:32 AM	Sample Amount	: 0
Last Recalib on	: 31 AUG 98 10:13 AM	ISTD Amount	:
Multiplier	: 1		

External Standard Report

```

Data File Name      : C:\HPCHEM\1\DATA\092398\017F0101.D
Operator           : ECL
Instrument          : HP4
Sample Name        : 1242 0.5 PPM
Run Time Bar Code:
Acquired on        : 24 Sep 98  00:50 AM
Report Created on   : 24 Sep 98  10:34 AM
Last Recalib on    : 24 Sep 98  10:33 AM
Multiplier         : 1

Page Number        : 1
Vial Number        : 17
Injection Number    : 1
Sequence Line      : 1
Instrument Method   : 1660F.MTH
Analysis Method     : 1242F.MTH
Sample Amount       : 0
ISTD Amount         :
  
```

Sig. 1 in C:\HPCHEM\1\DATA\092398\017F0101.D

Ret Time	Area	Type	Width	Ref#	UG/L	Name
7.065	204029	BB	0.068	1	25.000	TETRACHLORO-M-XYLENE
9.386	68648	BB	0.073	1	500.000	AR 1242 #1
10.913	141248	BB	0.089	1	500.000	AR 1242 #2
12.249	252358	BB	0.106	1	500.000	AR 1242 #3
15.583	80444	BB	0.081	1	500.000	AR 1242 #4
15.843	100049	BB	0.094	1	500.000	AR 1242 #5
30.816	162643	BB	0.135	1	25.000	DECACHLOROBIPHENYL

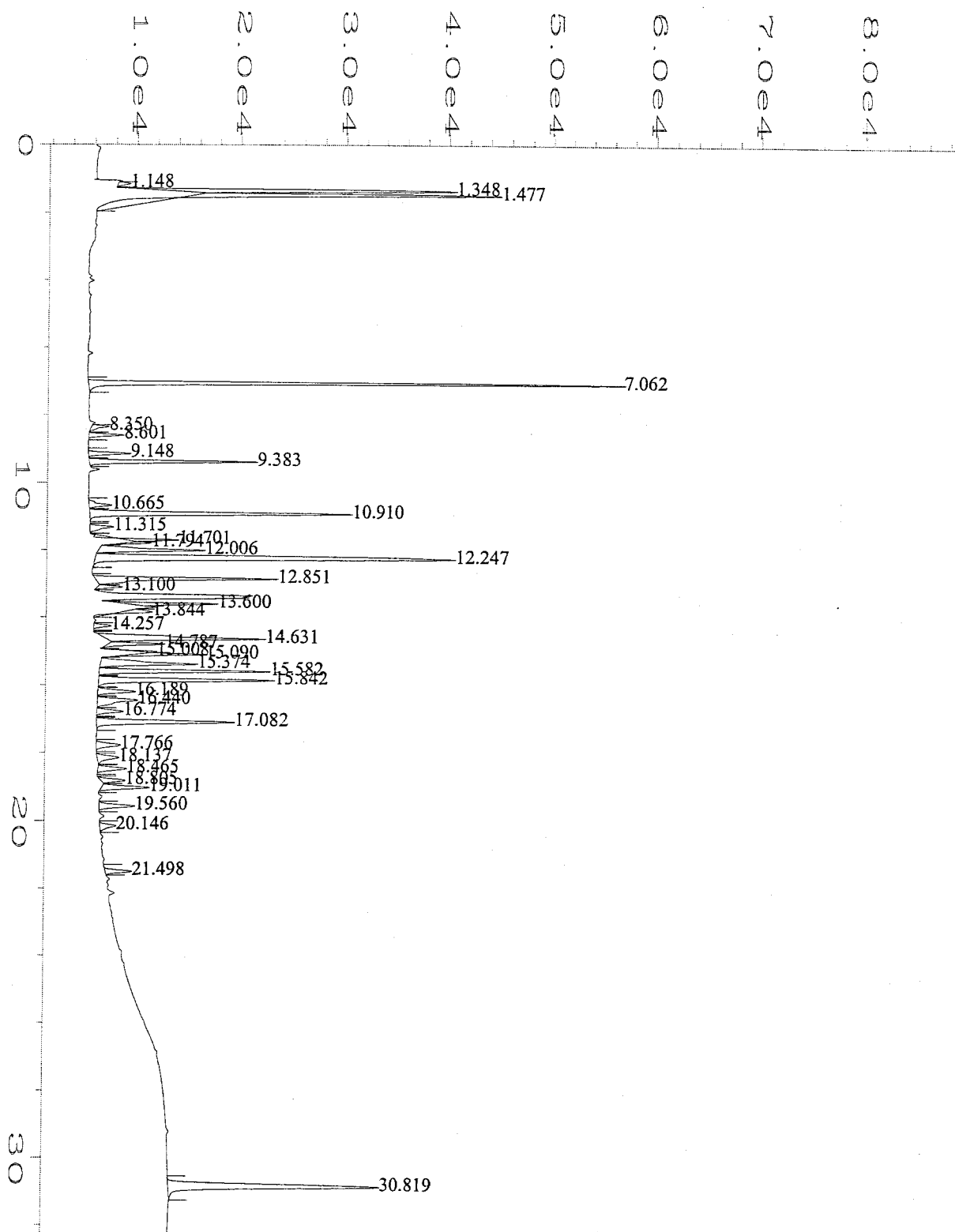
CONTINUING CALIBRATION DATA

Data File : C:\HPCHEM\1\DATA\092398\018F0101.D
Calibration Check Level : 4
Instrument : HP4
Sample Name : 1242 ALT 0.5 PPM
Acquisition Date : 24 Sep 98 01:26 AM
Last Calibration Date : 24 Sep 98 10:33 AM
Analysis Method : 1242F.MTH
Calculation Type : External Standard
Sample Amount : .0
Report Date : 24 Sep 98 10:47 AM
% Difference Limit : 15.0

Compound Name	Amount	Continue Area	Continue RF	Average RF	Absolute RF Dif.	Percent Differ.
TETRACHLORO-M-XYLENE	2.500E+01	225206	9.008E+03	8.161E+03	8.471E+02	10.4
AR 1242 #1	5.000E+02	74983	1.500E+02	1.373E+02	1.267E+01	9.2
AR 1242 #2	5.000E+02	144602	2.892E+02	2.825E+02	6.708E+00	2.4
AR 1242 #3	5.000E+02	259473	5.189E+02	5.047E+02	1.423E+01	2.8
AR 1242 #4	5.000E+02	84654	1.693E+02	1.609E+02	8.419E+00	5.2
AR 1242 #5	5.000E+02	103388	2.068E+02	2.001E+02	6.678E+00	3.3
DECACHLOROBIPHENYL	2.500E+01	176449	7.058E+03	6.506E+03	5.522E+02	8.5

<-- = Exceeds %Difference Limit

Page 1



Data File Name	: C:\HPCHEM\1\DATA\092398\018F0101.D	Page Number	: 1
Operator	: ECL	Vial Number	: 18
Instrument	: HP4	Injection Number	: 1
Sample Name	: 1242 ALT 0.5 PPM	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	1660F.MTH
Acquired on	: 24 Sep 98 01:26 AM	Analysis Method	: 1242F.MTH
Report Created on:	24 Sep 98 10:34 AM	Sample Amount	: 0
Last Recalib on	: 24 Sep 98 10:33 AM	ISTD Amount	:
Multiplier	: 1		

External Standard Report

```

Data File Name      : C:\HPCHEM\1\DATA\092398\018F0101.D
Operator           : ECL
Instrument          : HP4
Sample Name        : 1242 ALT 0.5 PPM
Run Time Bar Code:
Acquired on        : 24 Sep 98  01:26 AM
Report Created on   : 24 Sep 98  10:34 AM
Last Recalib on    : 24 Sep 98  10:33 AM
Multiplier         : 1

Page Number        : 1
Vial Number        : 18
Injection Number    : 1
Sequence Line      : 1
Instrument Method   : 1660F.MTH
Analysis Method     : 1242F.MTH
Sample Amount       : 0
ISTD Amount         :
  
```

Sig. 1 in C:\HPCHEM\1\DATA\092398\018F0101.D

Ret Time	Area	Type	Width	Ref#	UG/L	Name
7.062	225206	BB	0.068	1	27.595	TETRACHLORO-M-XYLENE
9.383	74983	BB	0.073	1	546.140	AR 1242 #1
10.910	144602	BB	0.089	1	511.874	AR 1242 #2
12.247	259473	BB	0.104	1	514.097	AR 1242 #3
15.582	84654	BB	0.081	1	526.163	AR 1242 #4
15.842	103388	BB	0.096	1	516.689	AR 1242 #5
30.819	176449	BB	0.135	1	27.122	DECACHLOROBIPHENYL

=====
Calibration Report
=====

Data File Name : C:\HPCHEM\1\DATA\092398\019F0101.D
Operator : ECL Page Number : 1
Instrument : HP4 Vial Number : 19
Sample Name : 1232 0.5 PPM Injection Number : 1
Run Time Bar Code: Sequence Line : 1
Acquired on : 24 Sep 98 02:02 AM Instrument Method: 1660F.MTH
Report Created on: 24 Sep 98 10:38 AM Analysis Method : 1232F.MTH
Last Recalib on : 31 AUG 98 10:18 AM Sample Amount : 0
Multiplier : 1 ISTD Amount :

Calibration Table

Pk#	RT	Lvl	UG/L	Amt/Area	Ref Istd I#	Name
1	7.065	1	25.0	1.2576e-004	1	TETRACHLORO-M-XYLENE
2	8.601	1	500.0	1.7792e-002	1	AR 1232 #1
3	9.386	1	500.0	6.6699e-003	1	AR 1232 #2
4	10.913	1	500.0	5.9489e-003	1	AR 1232 #3
5	12.252	1	500.0	3.5966e-003	1	AR 1232 #4
6	12.855	1	500.0	1.0046e-002	1	AR 1232 #5
7	30.822	1	25.0	1.426e-004	1	DECACHLOROBIIPHENYL

Calibration Settings

Title:

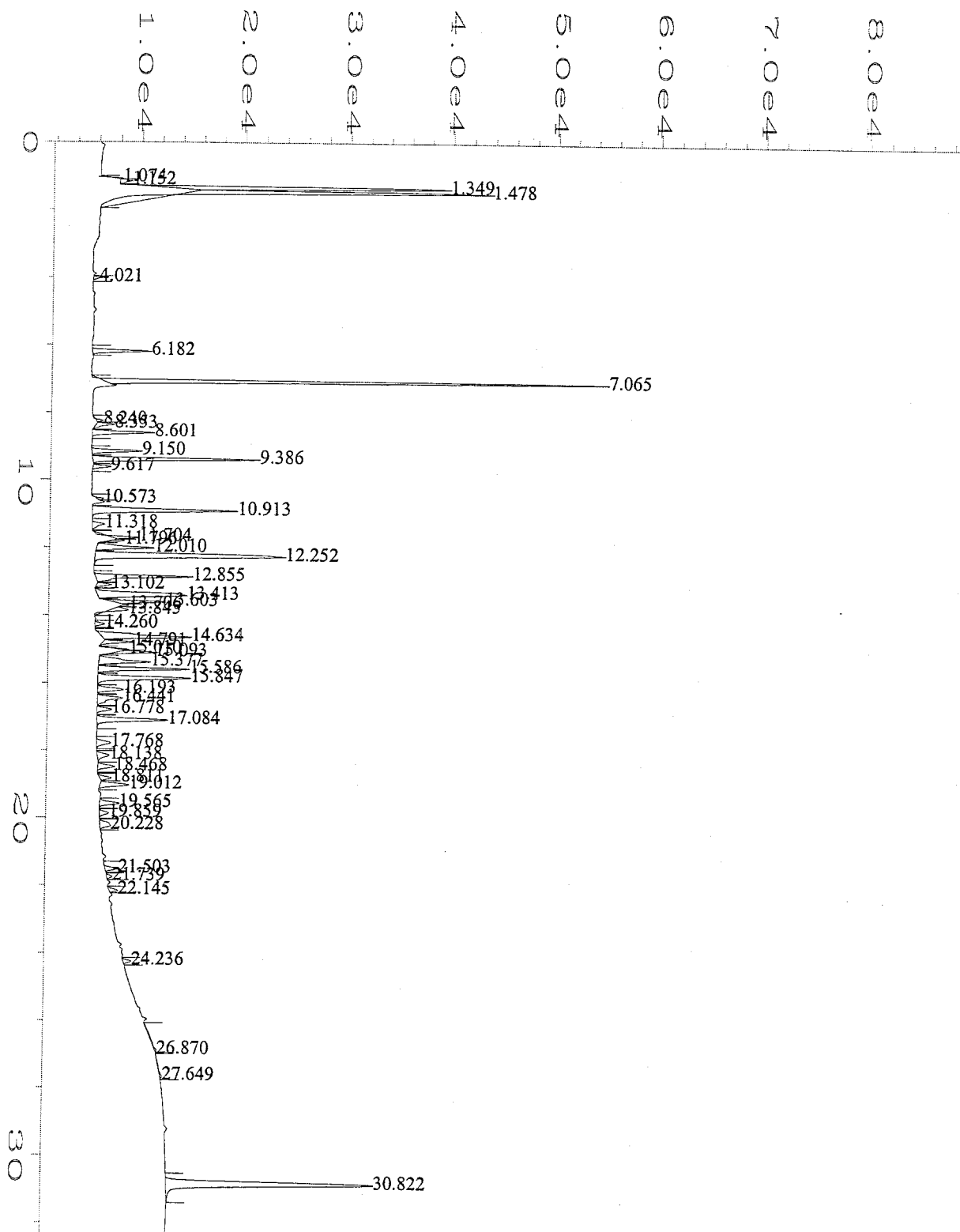
Reference window: 0.150 minutes
Non-reference window: 0.150 minutes
Units of amount: UG/L
Multiplier: 1.0
RF uncal peaks: 0.0
ISTD# to adjust uncal peaks: 0
Sample Amount: 0.0

Sample ISTD Information

No Sample ISTD Amounts

Multilevel Information

Fit: Linear
Origin: Force



Data File Name	: C:\HPCHEM\1\DATA\092398\019F0101.D	Page Number	: 1
Operator	: ECL	Vial Number	: 19
Instrument	: HP4	Injection Number	: 1
Sample Name	: 1232 0.5 PPM	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	1660F.MTH
Acquired on	: 24 Sep 98 02:02 AM	Analysis Method	: 1232F.MTH
Report Created on:	24 Sep 98 10:36 AM	Sample Amount	: 0
Last Recalib on	: 31 AUG 98 10:18 AM	ISTD Amount	:
Multiplier	: 1		

External Standard Report

```

Data File Name      : C:\HPCHEM\1\DATA\092398\019F0101.D
Operator           : ECL
Instrument          : HP4
Sample Name        : 1232 0.5 PPM
Run Time Bar Code:
Acquired on        : 24 Sep 98  02:02 AM
Report Created on   : 24 Sep 98  10:38 AM
Last Recalib on    : 24 Sep 98  10:38 AM
Multiplier         : 1

Page Number        : 1
Vial Number        : 19
Injection Number    : 1
Sequence Line      : 1
Instrument Method    : 1660F.MTH
Analysis Method     : 1232F.MTH
Sample Amount       : 0
ISTD Amount         :
  
```

Sig. 1 in C:\HPCHEM\1\DATA\092398\019F0101.D

Ret Time	Area	Type	Width	Ref#	UG/L	Name
7.065	198796	BB	0.065	1	25.000	TETRACHLORO-M-XYLENE
8.601	28102	BB	0.074	1	500.000	AR 1232 #1
9.386	74964	BB	0.073	1	500.000	AR 1232 #2
10.913	84049	BB	0.092	1	500.000	AR 1232 #3
12.252	139019	BB	0.106	1	500.000	AR 1232 #4
12.855	49773	BB	0.081	1	500.000	AR 1232 #5
30.822	175315	BB	0.139	1	25.000	DECACHLOROBIPHENYL

CONTINUING CALIBRATION DATA

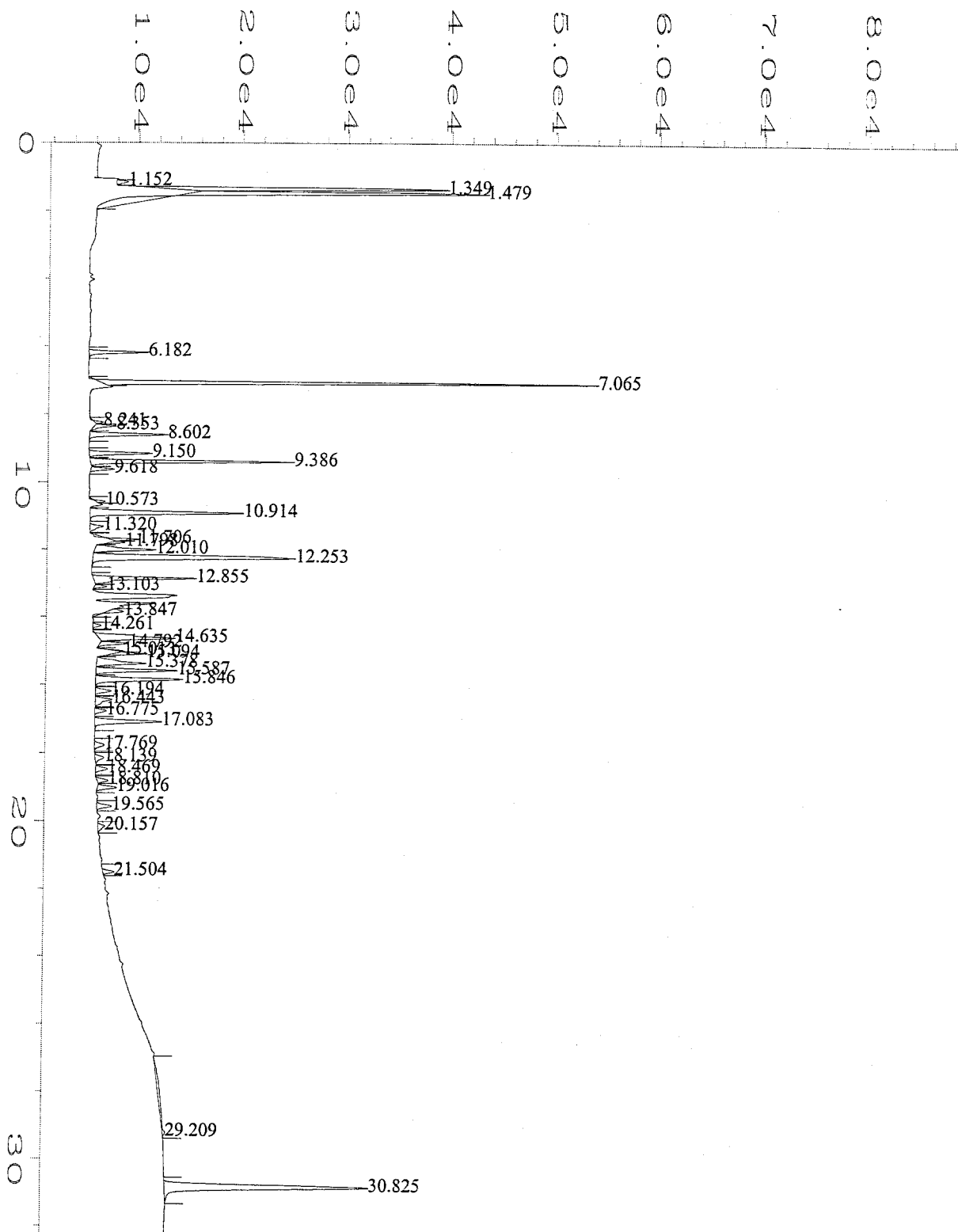
```

Data File           : C:\HPCHEM\1\DATA\092398\020F0101.D
Calibration Check Level : 3
Instrument          : HP4
Sample Name         : 1232 ALT 0.5 PPM
Acquisition Date    : 24 Sep 98 02:37 AM
Last Calibration Date : 24 Sep 98 10:38 AM
Analysis Method      : 1232F.MTH
Calculation Type     : External Standard
Sample Amount        : .0
Report Date          : 24 Sep 98 10:47 AM
% Difference Limit    : 15.0
  
```

Compound Name	Amount	Continue Area	Continue RF	Average RF	Absolute RF Dif.	Percent Differ.
TETRACHLORO-M-XYLENE	2.500E+01	195573	7.823E+03	7.952E+03	1.289E+02	1.6
AR 1232 #1	5.000E+02	35371	7.074E+01	5.620E+01	1.454E+01	25.9<--
AR 1232 #2	5.000E+02	90546	1.811E+02	1.499E+02	3.116E+01	20.8<--
AR 1232 #3	5.000E+02	91460	1.829E+02	1.681E+02	1.482E+01	8.8
AR 1232 #4	5.000E+02	145042	2.901E+02	2.780E+02	1.205E+01	4.3
AR 1232 #5	5.000E+02	53351	1.067E+02	9.955E+01	7.155E+00	7.2
DECACHLOROBIPHENYL	2.500E+01	170418	6.817E+03	7.013E+03	1.959E+02	2.8

<-- = Exceeds %Difference Limit

Page 1



Data File Name	: C:\HPCHEM\1\DATA\092398\020F0101.D	Page Number	: 1
Operator	: ECL	Vial Number	: 20
Instrument	: HP4	Injection Number	: 1
Sample Name	: 1232 ALT 0.5 PPM	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	1660F.MTH
Acquired on	: 24 Sep 98 02:37 AM	Analysis Method	: 1232F.MTH
Report Created on:	24 Sep 98 10:39 AM	Sample Amount	: 0
Last Recalib on	: 24 Sep 98 10:38 AM	ISTD Amount	: -
Multiplier	: 1		

External Standard Report

```

Data File Name   : C:\HPCHEM\1\DATA\092398\020F0101.D
Operator        : ECL
Instrument       : HP4
Sample Name     : 1232 ALT 0.5 PPM
Run Time Bar Code:
Acquired on    : 24 Sep 98  02:37 AM
Report Created on: 24 Sep 98  10:38 AM
Last Recalib on : 24 Sep 98  10:38 AM
Multiplier     : 1

Page Number     : 1
Vial Number     : 20
Injection Number: 1
Sequence Line   : 1
Instrument Method: 1660F.MTH
Analysis Method : 1232F.MTH
Sample Amount   : 0
ISTD Amount     :
  
```

Sig. 1 in C:\HPCHEM\1\DATA\092398\020F0101.D

Ret Time	Area	Type	Width	Ref#	UG/L	Name
7.065	195573	BB	0.064	1	24.595	TETRACHLORO-M-XYLENE
8.602	35371	BB	0.075	1	629.335	AR 1232 #1
9.386	90546	BB	0.073	1	603.930	AR 1232 #2
10.914	91460	BB	0.094	1	544.089	AR 1232 #3
12.253	145042	BB	0.104	1	521.664	AR 1232 #4
12.855	53351	BB	0.082	1	535.937	AR 1232 #5
30.825	170418	BB	0.136	1	24.302	DECACHLOROBIPHENYL

=====
Calibration Report
=====

Data File Name : C:\HPCHEM\1\DATA\092398\021F0101.D
Operator : ECL Page Number : 1
Instrument : HP4 Vial Number : 21
Sample Name : 1221 0.5 PPM Injection Number : 1
Run Time Bar Code: Sequence Line : 1
Acquired on : 24 Sep 98 03:13 AM Instrument Method: 1660F.MTH
Report Created on: 24 Sep 98 10:42 AM Analysis Method : 1221F.MTH
Last Recalib on : 31 AUG 98 10:24 AM Sample Amount : 0
Multiplier : 1 ISTD Amount :

Calibration Table

Pk#	RT	Lvl	UG/L	Amt/Area	Ref Istd I#	Name
1	6.183	1	500.0	1.2027e-002	1 AR 1221 #1	
2	7.066	1	25.0	1.3442e-004	1 TETRACHLORO-M-XYLENE	
3	8.602	1	500.0	9.1183e-003	1 AR 1221 #2	
4	9.151	1	500.0	1.2965e-002	1 AR 1221 #3	
5	9.386	1	500.0	4.5003e-003	1 AR 1221 #4	
6	10.573	1	500.0	3.7308e-002	1 AR 1221 #5	
7	30.831	1	25.0	1.5213e-004	1 DECACHLOROBIPHENYL	

Calibration Settings

Title:

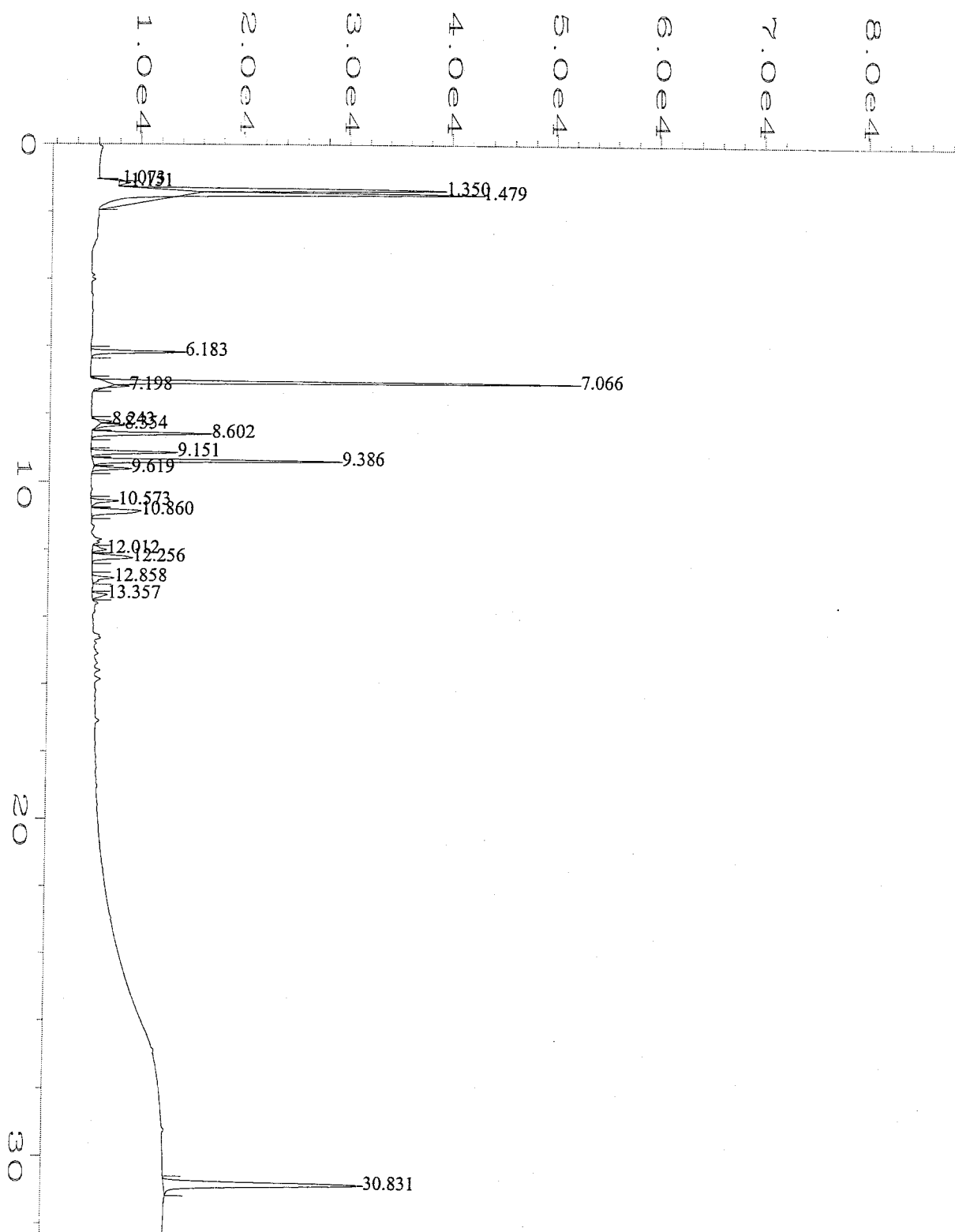
Reference window: 0.100 minutes
Non-reference window: 0.100 minutes
Units of amount: UG/L
Multiplier: 1.0
RF uncal peaks: 0.0
ISTD# to adjust uncal peaks: 0
Sample Amount: 0.0

Sample ISTD Information

No Sample ISTD Amounts

Multilevel Information

Fit: Linear
Origin: Force



Data File Name	: C:\HPCHEM\1\DATA\092398\021F0101.D	Page Number	: 1
Operator	: ECL	Vial Number	: 21
Instrument	: HP4	Injection Number	: 1
Sample Name	: 1221 0.5 PPM	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	1660F.MTH
Acquired on	: 24 Sep 98 03:13 AM	Analysis Method	: 1221F.MTH
Report Created on:	24 Sep 98 10:41 AM	Sample Amount	: 0
Last Recalib on	: 31 AUG 98 10:24 AM	ISTD Amount	:
Multiplier	: 1		

External Standard Report

```

Data File Name      : C:\HPCHEM\1\DATA\092398\021F0101.D
Operator            : ECL
Instrument           : HP4
Sample Name         : 1221 0.5 PPM
Run Time Bar Code   :
Acquired on         : 24 Sep 98  03:13 AM
Report Created on   : 24 Sep 98  10:42 AM
Last Recalib on    : 24 Sep 98  10:42 AM
Multiplier          : 1

Page Number         : 1
Vial Number         : 21
Injection Number    : 1
Sequence Line       : 1
Instrument Method    : 1660F.MTH
Analysis Method     : 1221F.MTH
Sample Amount       : 0
ISTD Amount         :
  
```

Sig. 1 in C:\HPCHEM\1\DATA\092398\021F0101.D

Ret Time	Area	Type	Width	Ref#	UG/L	Name
6.183	41574	BB	0.072	1	500.000	AR 1221 #1
7.066	185986	BB	0.064	1	25.000	TETRACHLORO-M-XYLENE
8.602	54835	BB	0.074	1	500.000	AR 1221 #2
9.151	38565	BB	0.073	1	500.000	AR 1221 #3
9.386	111104	BB	0.073	1	500.000	AR 1221 #4
10.573	13402	BB	0.079	1	500.000	AR 1221 #5
30.831	164336	BB	0.134	1	25.000	DECACHLOROBIPHENYL

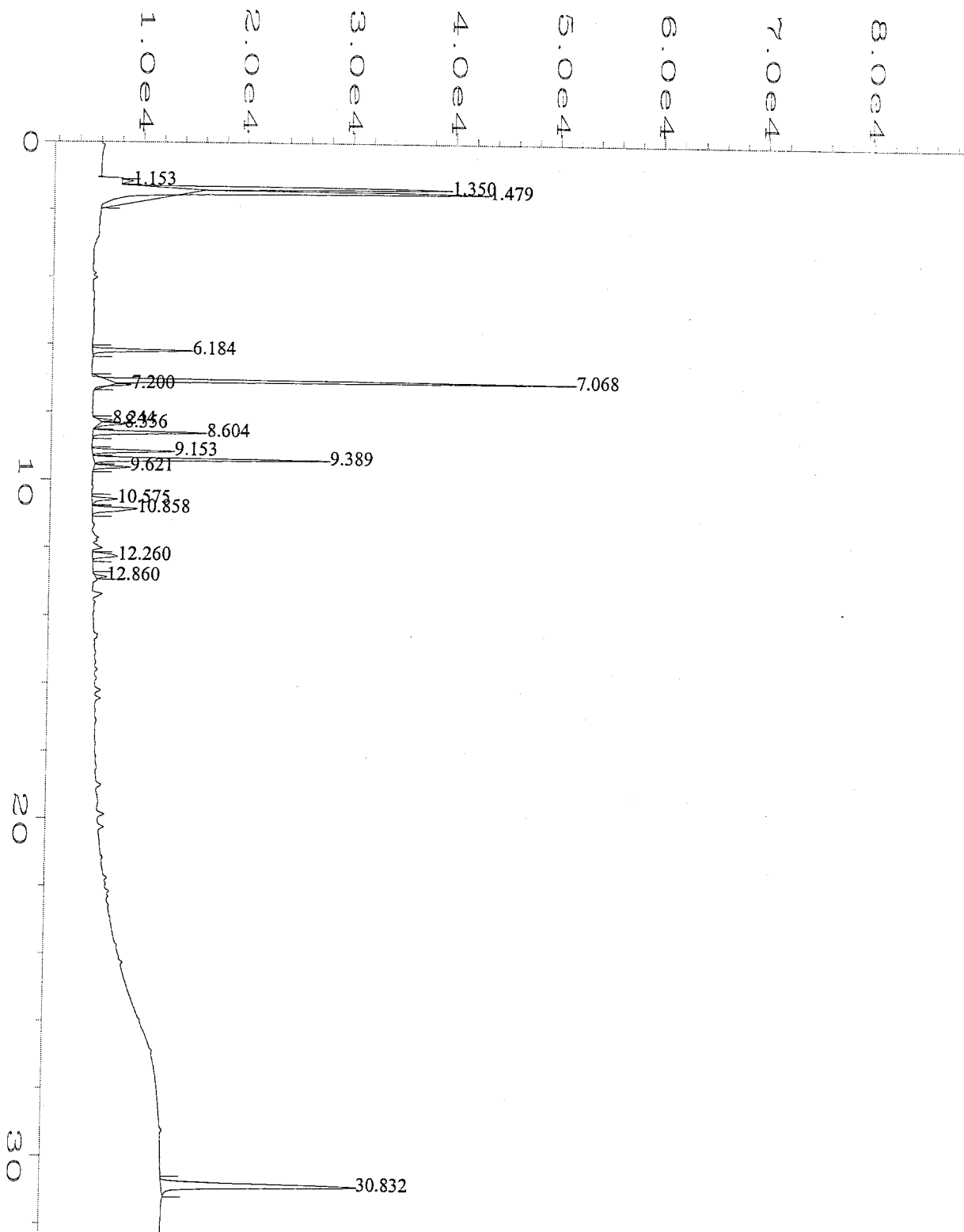
CONTINUING CALIBRATION DATA

Data File : C:\HPCHEM\1\DATA\092398\022F0101.D
Calibration Check Level : 3
Instrument : HP4
Sample Name : 1221 ALT 0.5 PPM
Acquisition Date : 24 Sep 98 03:49 AM
Last Calibration Date : 24 Sep 98 10:42 AM
Analysis Method : 1221F.MTH
Calculation Type : External Standard
Sample Amount : .0
Report Date : 24 Sep 98 10:48 AM
% Difference Limit : 15.0

Compound Name	Amount	Continue Area	Continue RF	Average RF	Absolute RF Dif.	Percent Differ.
AR 1221 #1	5.000E+02	43761	8.752E+01	8.315E+01	4.374E+00	5.3
TETRACHLORO-M-XYLENE	2.500E+01	181150	7.246E+03	7.439E+03	1.935E+02	2.6
AR 1221 #2	5.000E+02	51712	1.034E+02	1.097E+02	6.246E+00	5.7
AR 1221 #3	5.000E+02	36433	7.287E+01	7.713E+01	4.264E+00	5.5
AR 1221 #4	5.000E+02	104992	2.100E+02	2.222E+02	1.222E+01	5.5
AR 1221 #5	5.000E+02	12073	2.415E+01	2.680E+01	2.658E+00	9.9
DECACHLOROBIPHENYL	2.500E+01	161652	6.466E+03	6.573E+03	1.074E+02	1.6

=====
<-- = Exceeds %Difference Limit

Page 1



Data File Name	: C:\HPCHEM\1\DATA\092398\022F0101.D	Page Number	: 1
Operator	: ECL	Vial Number	: 22
Instrument	: HP4	Injection Number	: 1
Sample Name	: 1221 ALT 0.5 PPM	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	1660F.MTH
Acquired on	: 24 Sep 98 03:49 AM	Analysis Method	: 1221F.MTH
Report Created on:	24 Sep 98 10:43 AM	Sample Amount	: 0
Last Recalib on	: 24 Sep 98 10:42 AM	ISTD Amount	:
Multiplier	: 1		

External Standard Report

```

Data File Name      : C:\HPCHEM\1\DATA\092398\022F0101.D
Operator           : ECL
Instrument          : HP4
Sample Name        : 1221 ALT 0.5 PPM
Run Time Bar Code:
Acquired on        : 24 Sep 98  03:49 AM
Report Created on   : 24 Sep 98  10:43 AM
Last Recalib on    : 24 Sep 98  10:42 AM
Multiplier         : 1

Page Number        : 1
Vial Number        : 22
Injection Number    : 1
Sequence Line      : 1
Instrument Method   : 1660F.MTH
Analysis Method    : 1221F.MTH
Sample Amount      : 0
ISTD Amount        :
  
```

Sig. 1 in C:\HPCHEM\1\DATA\092398\022F0101.D

Ret Time	Area	Type	Width	Ref#	UG/L	Name
6.184	43761	BB	0.071	1	526.306	AR 1221 #1
7.068	181150	BB	0.064	1	24.350	TETRACHLORO-M-XYLENE
8.604	51712	BB	0.075	1	471.527	AR 1221 #2
9.153	36433	BB	0.073	1	472.352	AR 1221 #3
9.389	104992	BB	0.073	1	472.494	AR 1221 #4
10.575	12073	BB	0.077	1	450.418	AR 1221 #5
30.832	161652	BB	0.136	1	24.592	DECACHLOROBIIPHENYL

Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
 Title : TOX
 Last Update : Thu Oct 01 08:22:52 1998

Calibration Files

1 =396.D 2 =395.D 3 =394.D
 4 =393.D 5 =392.D

Compound		1	2	3	4	5	Avg	%RSD	
1) S	TETRACHLORO-M-XYLENE	3.611	3.397	3.274	2.914	2.701	3.180	E7	11.57
2)	TOXAPHENE-1	2.516	2.442	2.502	2.360	2.330	2.430	E5	3.41
3)	TOXAPHENE-2	1.592	1.509	1.572	1.445	1.452	1.514	E5	4.44
4)	TOXAPHENE-3	7.244	7.774	7.285	7.504	7.753	7.512	E4	3.33
5)	TOXAPHENE-4	3.212	3.396	3.432	3.386	3.441	3.373	E5	2.76
6)	TOXAPHENE-5	6.273	6.547	6.562	6.868	6.973	6.645	E4	4.20
7) S	DECACHLOROBIPHENYL	1.860	1.741	1.677	1.535	1.472	1.657	E7	9.45

Signal #2 Calibration Files

1 =396.D 2 =395.D 3 =394.D
 4 =393.D 5 =392.D

Compound		1	2	3	4	5	Avg	%RSD	
1) S	TETRACHLORO-M-XYLENE#	1.393	1.321	1.285	1.170	1.116	1.257	E7	8.94
2)	TOXAPHENE-1	8.947	9.237	9.070	8.434	8.930	8.924	E4	3.36
3)	TOXAPHENE-2	1.804	1.890	1.911	1.800	1.887	1.858	E5	2.82
4)	TOXAPHENE-3	7.024	7.062	6.930	6.638	6.886	6.908	E4	2.41
5)	TOXAPHENE-4	1.067	1.138	1.176	1.094	1.144	1.124	E5	3.84
6)	TOXAPHENE-5	0.794	0.898	0.985	0.929	1.024	0.926	E5	9.52
7) S	DECACHLOROBIPHENYL	6.980	6.589	6.464	5.847	5.851	6.346	E6	7.76

Data File : C:\HPCHEM\1\DATA\093098\392.D\ECD1A.CH Vial: 4
Acq On : 9-30-98 17:11:52 Operator: ECL
Sample : TOXAPHENE 2.0 PPM Inst : GC/MS Ins
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\093098\392.D\ECD2B.CH Vial: 4
Acq On : 9-30-98 17:36:50 Operator: ECL
Sample : TOXAPHENE 2.0 PPM Inst : GC/MS Ins
Misc : Multiplr: 1.00
IntFile : autoint2.e

Quant Time: Oct 1 8:23 1998 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : TOX
Last Update : Thu Oct 01 08:22:52 1998
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L

System Monitoring Compounds						
1) S TETRACHLORO-M-XY	5.69	6.72	2701.4E6	1116.3E6	84.958	88.798
Spiked Amount	20.000					
			Recovery	=	424.79%	443.99%
7) S DECACHLOROBIPHEN	14.83	15.41	1471.8E6	585.1E6	88.826	92.198
Spiked Amount	20.000					
			Recovery	=	444.13%	460.99%
Target Compounds						
2) TOXAPHENE-1	11.75	12.74	466.1E6	178.6E6	1918.017	2001.348
3) TOXAPHENE-2	12.31	12.84	290.4E6	377.4E6	1918.361	2030.595
4) TOXAPHENE-3	12.67	13.00	155.1E6	137.7E6	2064.201	1993.736
5) TOXAPHENE-4	13.49	14.00	688.1E6	228.8E6	2039.963	2036.124
6) TOXAPHENE-5	13.94	14.17	139.5E6	204.8E6	2098.768	2211.281

Quantitation Report

Data File : C:\HPCHEM\1\DATA\093098\392.D\ECD1A.CH
 Acq On : 9-30-98 17:11:52 Vial: 4
 Sample : TOXAPHENE 2.0 PPM Operator: ECL
 Misc : GC/MS Ins Inst : GC/MS Ins
 IntFile : autoint1.e Multiplr: 1.00

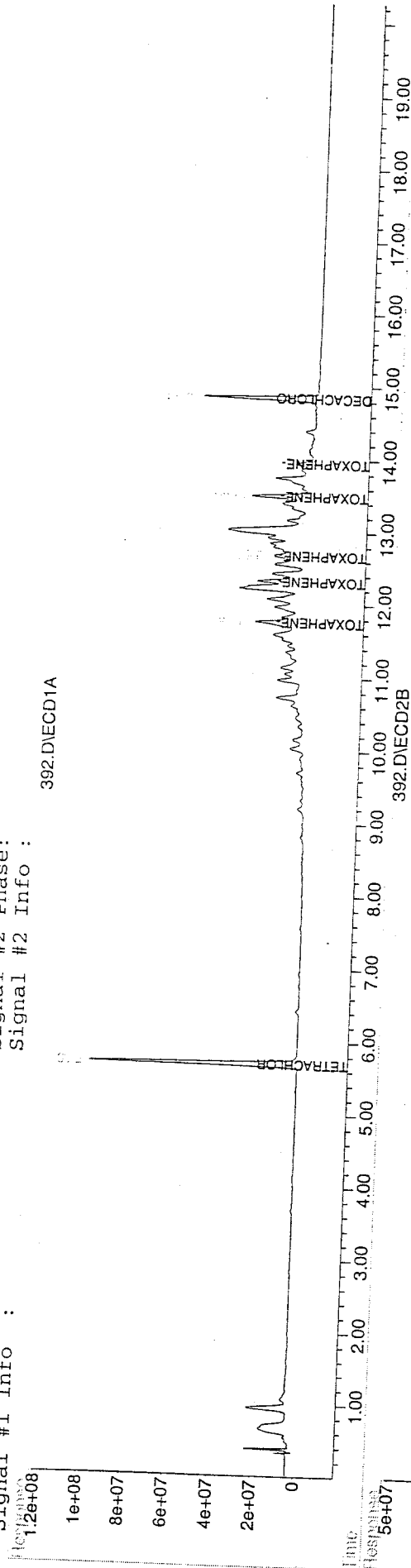
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 Acq On : 9-30-98 17:36:50 Vial: 4
 Sample : TOXAPHENE 2.0 PPM Operator: ECL
 Misc : GC/MS Ins Inst : GC/MS Ins
 IntFile : autoint2.e Multiplr: 1.00

Quant Time: Oct 1 8:23 1998 Quant Results File: TOX.RES

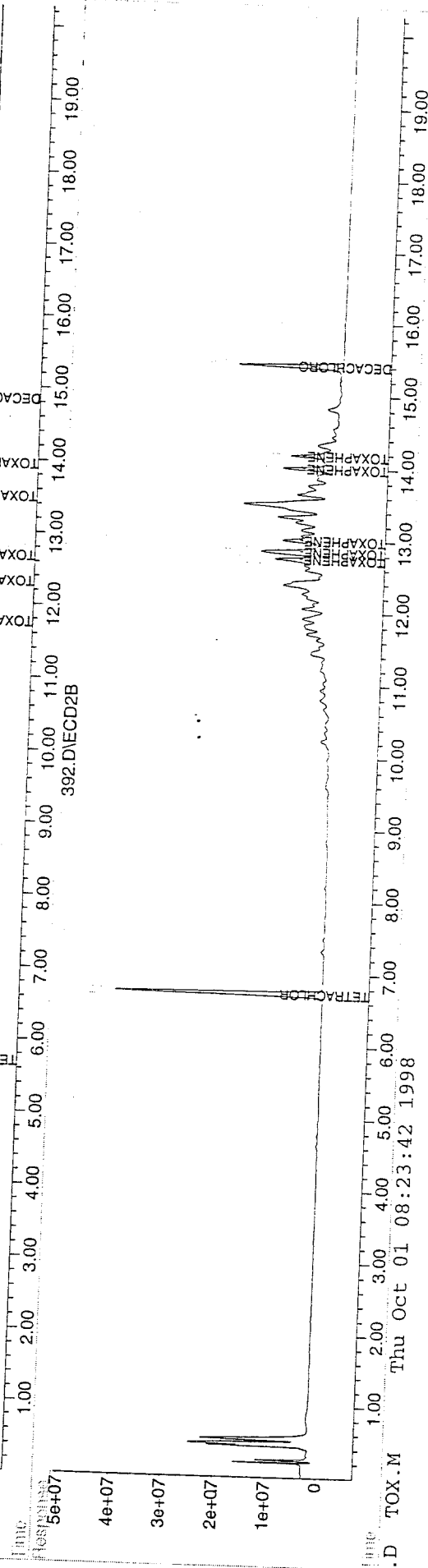
Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
 Title : TOX
 Last Update : Thu Oct 01 08:22:52 1998
 Response via : Multiple Level Calibration
 DataAcq Meth : 8081.M

Volume Inj. :
 Signal #1 Phase :
 Signal #1 Info :
 Signal #2 Phase:
 Signal #2 Info :

392.D\ECD1A



392.D\ECD2B



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\093098\393.D\ECD1A.CH Vial: 5
 Acq On : 9-30-98 17:36:50 Operator: ECL
 Sample : TOXAPHENE 1.0 PPM Inst : GC/MS Ins
 Misc : Multiplr: 1.00
 IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\093098\393.D\ECD2B.CH Vial: 5
 Acq On : 9-30-98 18:01:41 Operator: ECL
 Sample : TOXAPHENE 2.0 PPM Inst : GC/MS Ins
 Misc : Multiplr: 1.00
 IntFile : autoint2.e

Quant Time: Oct 1 8:23 1998 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
 Title : TOX
 Last Update : Thu Oct 01 08:22:52 1998
 Response via : Initial Calibration
 DataAcq Meth : 8081.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L

System Monitoring Compounds						
1) S TETRACHLORO-M-XY	5.69	6.73	1457.2E6	585.2E6	45.827	46.555
Spiked Amount 20.000				Recovery =	229.13%	232.78%
7) S DECACHLOROBIPHEN	14.83	15.41	767.4E6	292.3E6	46.312	46.065
Spiked Amount 20.000				Recovery =	231.56%	230.32%
Target Compounds						
2) TOXAPHENE-1	11.75	12.74	236.0E6	84336727	971.073	945.098
3) TOXAPHENE-2	12.31	12.84	144.5E6	180.0E6	954.237	968.655
4) TOXAPHENE-3	12.67	13.00	75035484	66377433	998.899	960.869
5) TOXAPHENE-4	13.49	14.00	338.6E6	109.4E6	1003.691	973.365
6) TOXAPHENE-5	13.94	14.17	68675170	92889539	1033.554	1003.148

Quantitation Report

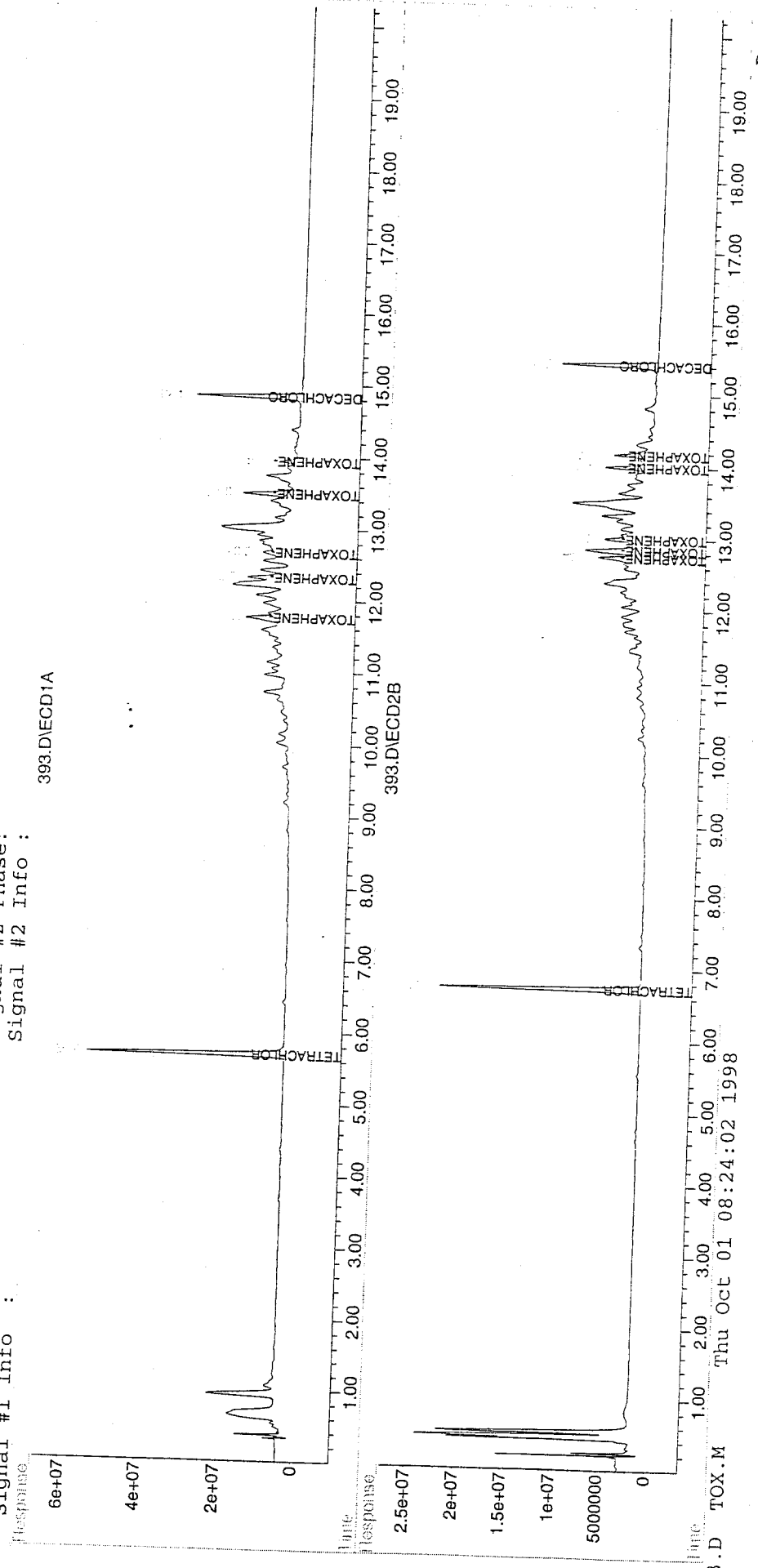
Data File : C:\HPCHEM\1\DATA\093098\393.D\ECD1A.CH
Acq On : 9-30-98 17:36:50 Vial: 5
Sample : TOXAPHENE 1.0 ppm Operator: ECL
Misc : GC/MS Ins Inst : GC/MS Ins
IntFile : autoint1.e Multiplr: 1.00

Data File : C:\HPCHEM\1\DATA\093098\393.D\ECD2B.CH
Acq On : 9-30-98 18:01:41 Vial: 5
Sample : TOXAPHENE 2.0 ppm Operator: ECL
Misc : GC/MS Ins Inst : GC/MS Ins
IntFile : autoint2.e Multiplr: 1.00

Quant Time: Oct 1 8:23 1998 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : TOX
Last Update : Thu Oct 01 08:22:52 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase :
Signal #1 Info :
Signal #2 Phase :
Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\093098\394.D\ECD1A.CH Vial: 6
Acq On : 9-30-98 18:01:41 Operator: ECL
Sample : TOXAPHENE 0.5 PPM Inst : GC/MS Ins
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\093098\394.D\ECD2B.CH Vial: 6
Acq On : 9-30-98 18:26:22 Operator: ECL
Sample : TOXAPHENE 1.0 PPM Inst : GC/MS Ins
Misc : Multiplr: 1.00
IntFile : autoint2.e

Quant Time: Oct 1 8:24 1998 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : TOX
Last Update : Thu Oct 01 08:22:52 1998
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase :
Signal #1 Info :
Signal #2 Phase:
Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L

System Monitoring Compounds						
1) S TETRACHLORO-M-XY	5.69	6.73	818.6E6	321.3E6	25.745	25.563
Spiked Amount	20.000		Recovery	=	128.72%	127.81%
7) S DECACHLOROBIPHEN	14.83	15.41	419.2E6	161.6E6	25.297	25.464
Spiked Amount	20.000		Recovery	=	126.49%	127.32%
Target Compounds						
2) TOXAPHENE-1	11.75	12.74	125.1E6	45351861	514.787	508.224
3) TOXAPHENE-2	12.31	12.84	78578335	95544823	519.018	514.111
4) TOXAPHENE-3	12.67	13.00	36422920	34649181	484.875	501.576
5) TOXAPHENE-4	13.49	14.00	171.6E6	58799447	508.782	523.180
6) TOXAPHENE-5	13.94	14.17	32810429	49226909	493.794	531.619

Quantitation Report

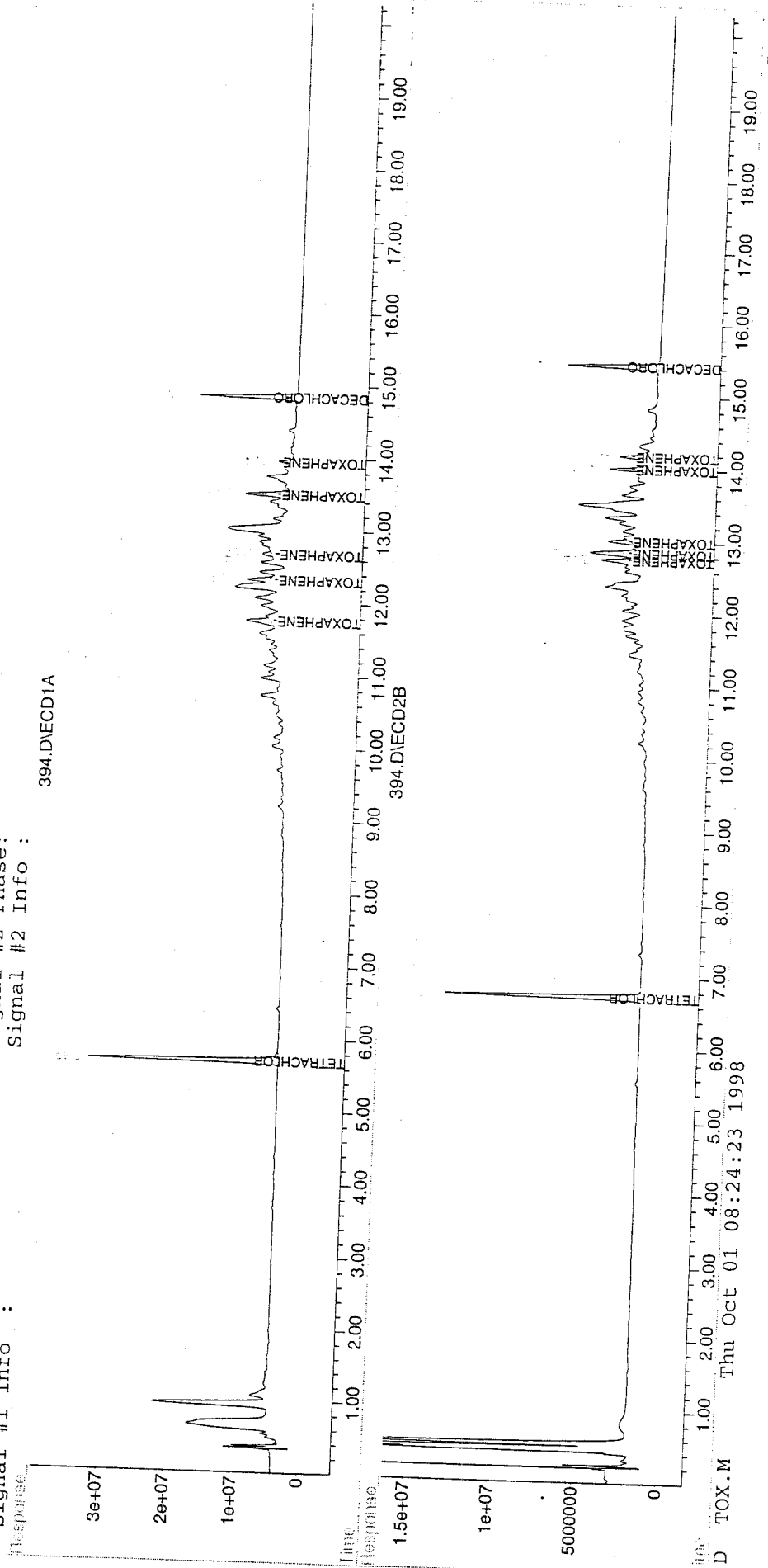
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 Acq On : 9-30-98 18:01:41
 Sample : TOXAPHENE 0.5 PPM
 Misc :
 IntFile : autoint1.e
 Vial: 6
 Operator: ECL
 Inst : GC/MS Ins
 Multiplr: 1.00

Data File : C:\HPCHEM\1\DATA\093098\394.D\ECD2B.CH
 Acq On : 9-30-98 18:26:22
 Sample : TOXAPHENE 1.0 PPM
 Misc :
 IntFile : autoint2.e
 Vial: 6
 Operator: ECL
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Time: Oct 1 8:24 1998 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
 Title : TOX
 Last Update : Thu Oct 01 08:22:52 1998
 Response via : Multiple Level Calibration
 DataAcq Meth : 8081.M

Volume Inj. :
 Signal #1 Phase :
 Signal #1 Info :
 Signal #2 Phase :
 Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\093098\395.D\ECD1A.CH
Acq On : 9-30-98 18:26:22
Sample : TOXAPHENE 0.25 PPM
Misc :
IntFile : autoint1.e

Vial: 7
Operator: ECL
Inst : GC/MS Ins
Multiplr: 1.00

Data File : C:\HPCHEM\1\DATA\093098\395.D\ECD2B.CH
Acq On : 9-30-98 18:51:21
Sample : TOXAPHENE 0.5 PPM
Misc :
IntFile : autoint2.e

Vial: 7
Operator: ECL
Inst : GC/MS Ins
Multiplr: 1.00

Quant Time: Oct 1 8:24 1998 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : TOX
Last Update : Thu Oct 01 08:22:52 1998
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase :
Signal #1 Info :
Signal #2 Phase:
Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L

System Monitoring Compounds						
1) S TETRACHLORO-M-XY	5.69	6.72	424.7E6	165.1E6	13.356	13.133
Spiked Amount	20.000		Recovery	=	66.78%	65.66%
7) S DECACHLOROBIPHEN	14.84	15.41	217.7E6	82363712	13.136	12.979
Spiked Amount	20.000		Recovery	=	65.68%	64.89%
Target Compounds						
2) TOXAPHENE-1	11.76	12.74	61057756	23093125	251.268	258.787
3) TOXAPHENE-2	12.32	12.84	37734541	47259987	249.241	254.298
4) TOXAPHENE-3	12.67	13.00	19435234	17655964	258.729	255.585
5) TOXAPHENE-4	13.49	14.00	84887958	28457534	251.658	253.207
6) TOXAPHENE-5	13.94	14.17	16368138	22458804	246.339	242.541

Quantitation Report

Data File : C:\HPCHEM\1\DATA\093098\395.D\ECD1A.CH
 Acq On : 9-30-98 18:26:22 Vial: 7
 Sample : TOXAPHENE 0.25 PPM Operator: ECL
 Misc : GC/MS Ins Inst : GC/MS Ins
 IntFile : autoint1.e Multiplr: 1.00

Data File : C:\HPCHEM\1\DATA\093098\395.D\ECD2B.CH
 Acq On : 9-30-98 18:51:21 Vial: 7
 Sample : TOXAPHENE 0.5 PPM Operator: ECL
 Misc : GC/MS Ins Inst : GC/MS Ins
 IntFile : autoint2.e Multiplr: 1.00

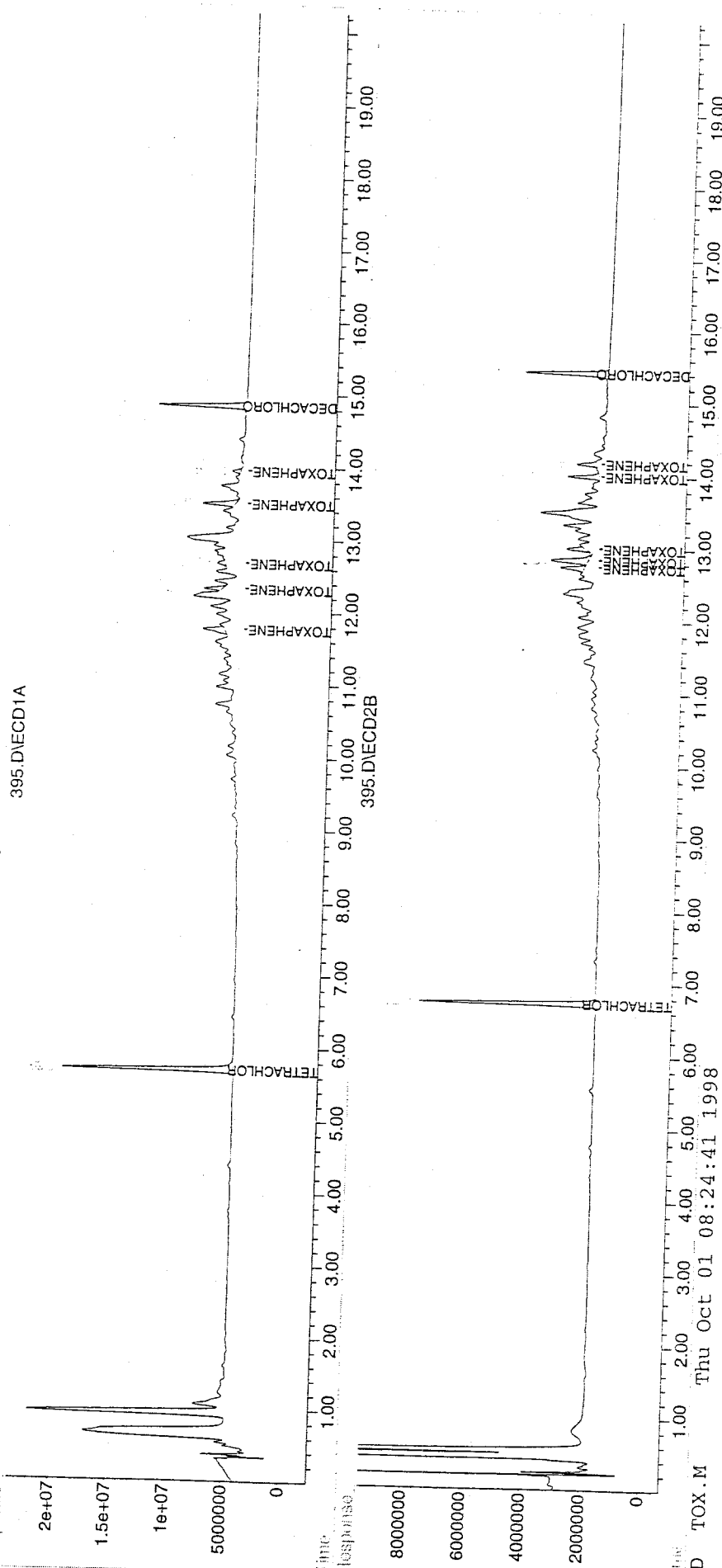
Quant Time: Oct 1 8:24 1998 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
 Title : TOX

Last Update : Thu Oct 01 08:22:52 1998
 Response via : Multiple Level Calibration
 DataAcq Meth : 8081.M

Volume Inj. :
 Signal #1 Phase :
 Signal #1 Info :
 Signal #2 Phase :
 Signal #2 Info :

Signal #2 Phase :
 Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\093098\396.D\ECD1A.CH Vial: 8
 Acq On : 9-30-98 18:51:21 Operator: ECL
 Sample : TOXAPHENE 0.1 PPM Inst : GC/MS Ins
 Misc : Multiplr: 1.00
 IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\093098\396.D\ECD2B.CH Vial: 8
 Acq On : 9-30-98 19:16:04 Operator: ECL
 Sample : TOXAPHENE 0.25 PPM Inst : GC/MS Ins
 Misc : Multiplr: 1.00
 IntFile : autoint2.e

Quant Time: Oct 1 8:24 1998 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
 Title : TOX
 Last Update : Thu Oct 01 08:22:52 1998
 Response via : Initial Calibration
 DataAcq Meth : 8081.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L

System Monitoring Compounds						
1) S TETRACHLORO-M-XY	5.69	6.73	180.5E6	69629221	5.678	5.539
Spiked Amount	20.000			Recovery =	28.39%	27.69%
7) S DECACHLOROBIPHEN	14.83	15.41	93014739	34898976	5.614	5.499
Spiked Amount	20.000			Recovery =	28.07%	27.49%
Target Compounds						
2) TOXAPHENE-1	11.75	12.74	25156918	8947058	103.527	100.263
3) TOXAPHENE-2	12.32	12.84	15920778	18038726	105.158	97.063
4) TOXAPHENE-3	12.67	13.00	7243918	7023908	96.434	101.677
5) TOXAPHENE-4	13.49	14.00	32116932	10670022	95.213	94.939
6) TOXAPHENE-5	13.94	14.17	6273261	7943159	94.412	85.781

Quantitation Report

Data File : C:\HPCHEM\1\DATA\093098\396.D\ECD1A.CH Vial: 8
 Acq On : 9-30-98 18:51:21 Operator: ECL
 Sample : TOXAPHENE 0.1 PPM Inst : GC/MS Ins
 Misc : Multiplr: 1.00
 IntFile : autoint1.e

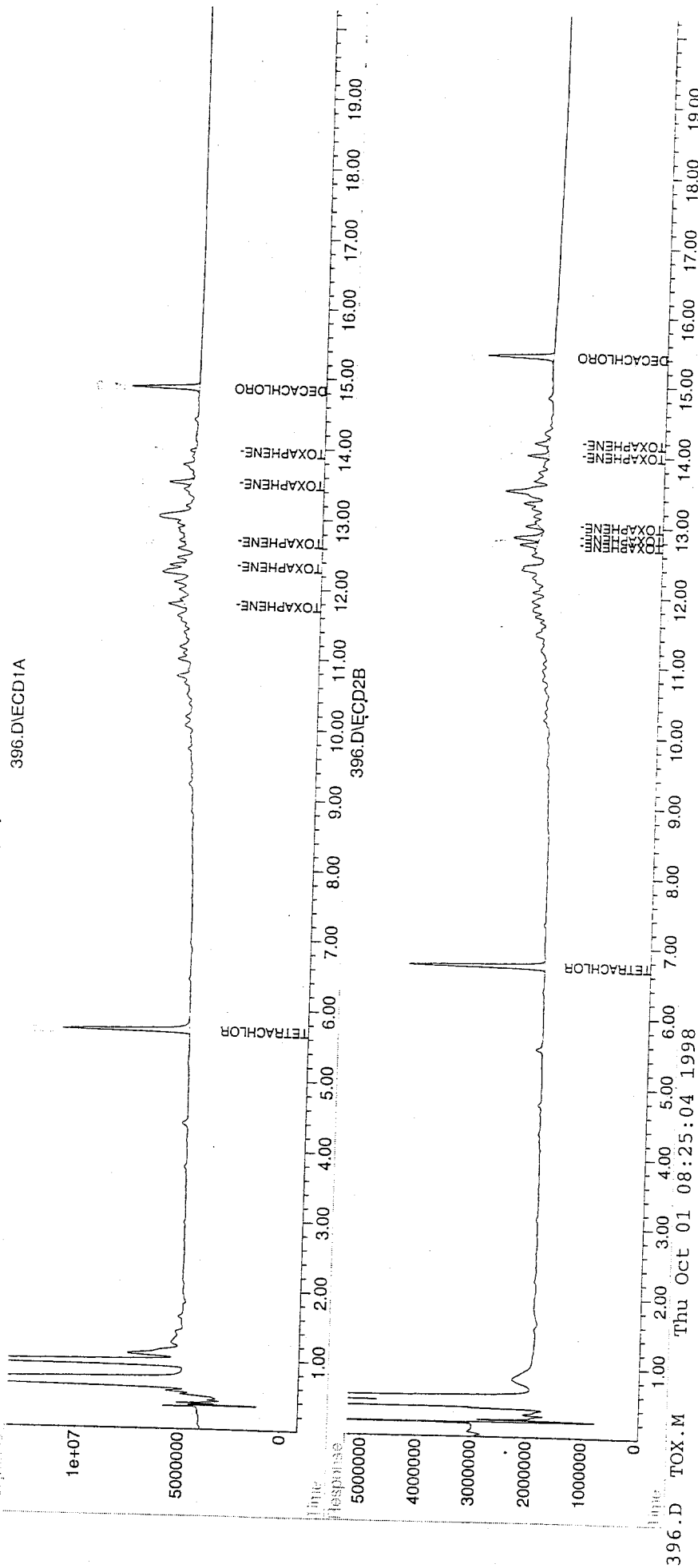
Data File : C:\HPCHEM\1\DATA\093098\396.D\ECD2B.CH Vial: 8
 Acq On : 9-30-98 19:16:04 Operator: ECL
 Sample : TOXAPHENE 0.25 PPM Inst : GC/MS Ins
 Misc : Multiplr: 1.00
 IntFile : autoint2.e

Quant Time: Oct 1 8:24 1998 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
 Title : TOX

Last Update : Thu Oct 01 08:22:52 1998
 Response via : Multiple Level Calibration
 DataAcq Meth : 8081.M

Volume Inj. :
 Signal #1 Phase :
 Signal #1 Info :
 Signal #2 Phase :
 Signal #2 Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\093098\397.D\ECD1A.CH
 Acq On : 9-30-98 19:16:05
 Sample : TOXAPHENE ALT 0.5 PPM
 Misc :
 IntFile : autoint1.e

Vial: 9
 Operator: ECL
 Inst : GC/MS Ins
 Multiplr: 1.00

Data File : C:\HPCHEM\1\DATA\093098\397.D\ECD2B.CH
 Acq On : 9-30-98 19:40:51
 Sample : TOXAPHENE ALT 0.5 PPM
 Misc : SOIL
 IntFile : autoint2.e

Vial: 9
 Operator: ECL
 Inst : GC/MS Ins
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
 Title : TOX
 Last Update : Thu Oct 01 08:22:52 1998
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1 S	TETRACHLORO-M-XYLENE	31.797	31.911 E6	-0.4	97	0.00
2	TOXAPHENE-1	242.998	268.120 E3	-10.3	107	0.00
3	TOXAPHENE-2	151.398	154.364 E3	-2.0	98	0.00
4	TOXAPHENE-3	75.118	98.981 E3	-31.8#	136	0.00
5	TOXAPHENE-4	337.315	354.690 E3	-5.2	103	0.00
6	TOXAPHENE-5	66.446	69.487 E3	-4.6	106	0.00
7 S	DECACHLOROBIPHENYL	16.570	16.477 E6	0.6	98	0.00

Signal #2

1 S	TETRACHLORO-M-XYLENE#2	12.571	12.542 E6	0.2	98	0.00
2	TOXAPHENE-1	89.236	92.054 E3	-3.2	101	0.00
3	TOXAPHENE-2	185.845	188.771 E3	-1.6	99	0.00
4	TOXAPHENE-3	69.081	75.599 E3	-9.4	109	0.00
5	TOXAPHENE-4	112.389	115.762 E3	-3.0	98	0.00
6	TOXAPHENE-5	92.598	94.637 E3	-2.2	96	0.00
7 S	DECACHLOROBIPHENYL	6.346	6.227 E6	1.9	96	0.00

(#) = Out of Range
 397.D TOX.M

SPCC's out = 0 CCC's out = 0
 Thu Oct 01 08:27:27 1998

Data File : C:\HPCHEM\1\DATA\093098\397.D\ECD1A.CH Vial: 9
 Acq On : 9-30-98 19:16:05 Operator: ECL
 Sample : TOXAPHENE ALT 0.5 PPM Inst : GC/MS Ins
 Misc : Multiplr: 1.00
 IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\093098\397.D\ECD2B.CH Vial: 9
 Acq On : 9-30-98 19:40:51 Operator: ECL
 Sample : TOXAPHENE ALT 0.5 PPM Inst : GC/MS Ins
 Misc : SOIL Multiplr: 1.00
 IntFile : autoint2.e

Quant Time: Oct 1 8:25 1998 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
 Title : TOX
 Last Update : Thu Oct 01 08:22:52 1998
 Response via : Initial Calibration
 DataAcq Meth : 8081.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L

System Monitoring Compounds						
1) S TETRACHLORO-M-XY	5.69	6.73	797.8E6	313.6E6	25.090	24.943
Spiked Amount	20.000		Recovery	=	125.45%	124.72%
7) S DECACHLOROBIPHEN	14.83	15.41	411.9E6	155.7E6	24.860	24.531
Spiked Amount	20.000		Recovery	=	124.30%	122.66%
Target Compounds						
2) TOXAPHENE-1	11.75	12.74	134.1E6	46027156	551.691	515.792
3) TOXAPHENE-2	12.32	12.84	77182109	94385589	509.796	507.873
4) TOXAPHENE-3	12.67	13.00	49490469	37799494	658.835	547.180
5) TOXAPHENE-4	13.49	14.00	177.3E6	57880834	525.754	515.006
6) TOXAPHENE-5	13.94	14.17	34743357	47318628	522.884	511.011

Quantitation Report

Data File : C:\HPCHEM\1\DATA\093098\397.D\ECD1A.CH Vial: 9
 Acq On : 9-30-98 19:16:05 Operator: ECL
 Sample : TOXAPHENE ALT 0.5 PPM Inst : GC/MS Ins
 Misc : Multiplr: 1.00
 IntFile : autoint1.e

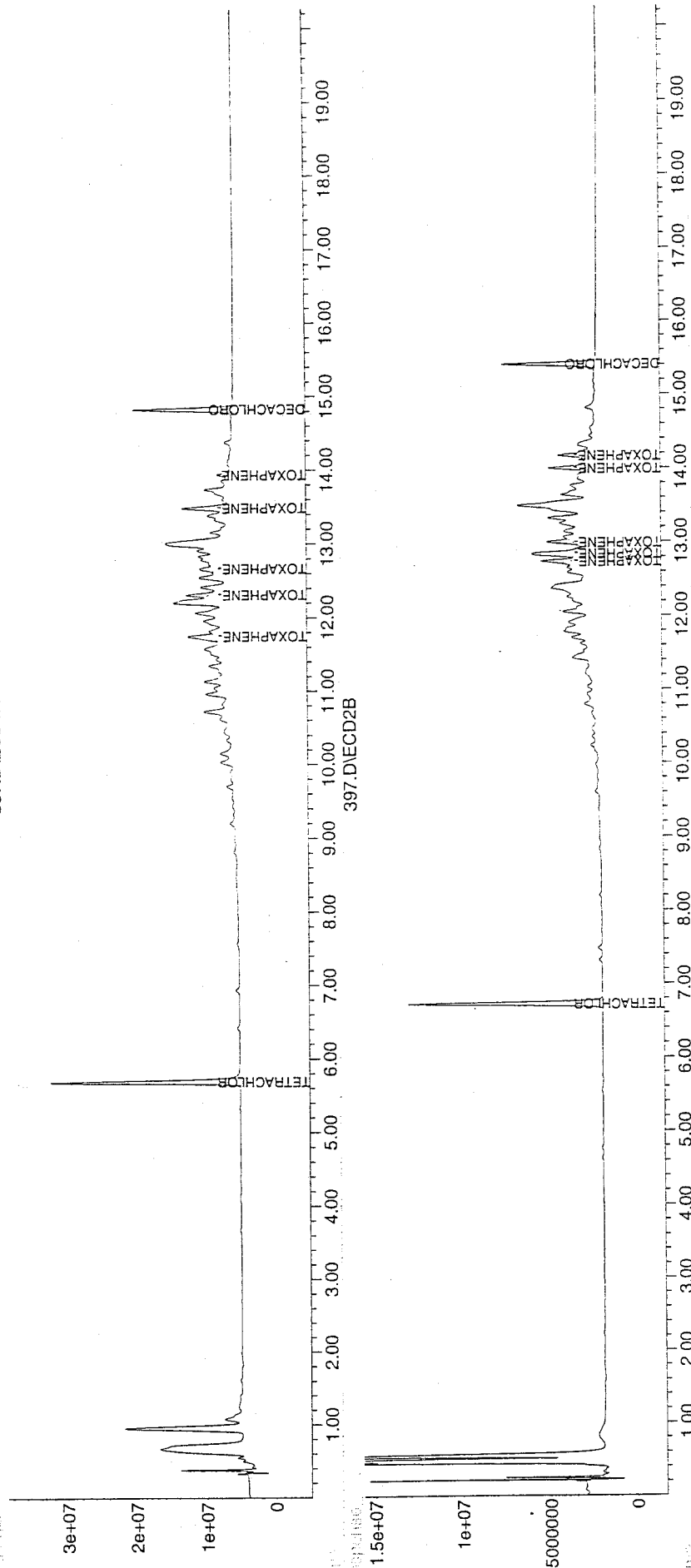
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 Acq On : 9-30-98 19:40:51 Operator: ECL
 Sample : TOXAPHENE ALT 0.5 PPM Inst : GC/MS Ins
 Misc : SOIL Multiplr: 1.00
 IntFile : autoint2.e

Quant Time: Oct 1 8:25 1998 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)

Title : TOX
 Last Update : Thu Oct 01 08:22:52 1998
 Response via : Multiple Level Calibration
 DataAcq Meth : 8081.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :
 397.D\ECD1A



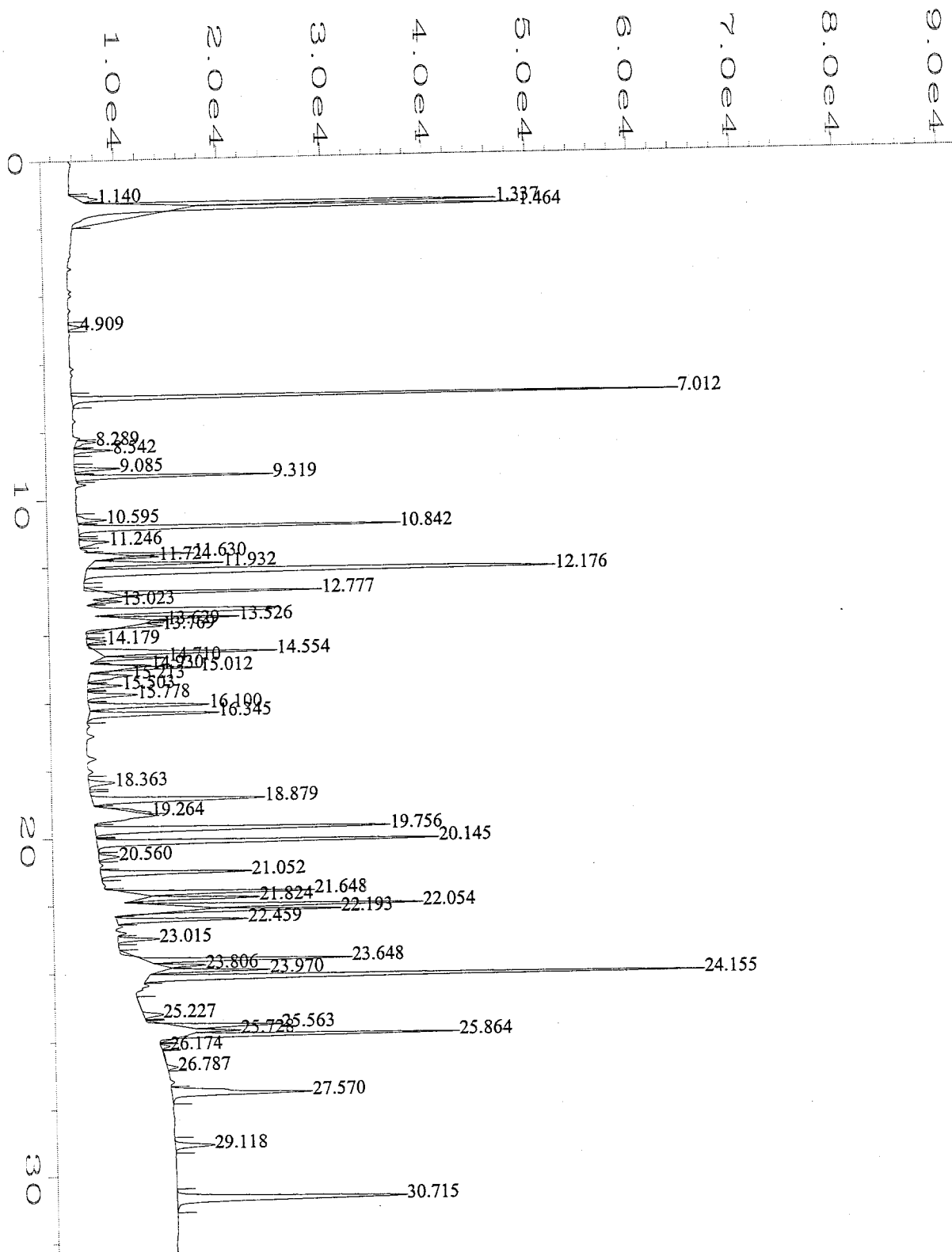
CONTINUING CALIBRATION DATA

Data File : C:\HPCHEM\1\DATA\093098\025F0101.D
 Calibration Check Level : 4
 Instrument : HP4
 Sample Name : 1660 0.5 PPM
 Acquisition Date : 01 Oct 98 03:44 AM
 Last Calibration Date : 24 SEP 98 09:00 AM
 Analysis Method : 1660F.MTH
 Calculation Type : External Standard
 Sample Amount : .0
 Report Date : 01 Oct 98 02:43 PM
 % Difference Limit : 15.0

Compound Name	Amount	Continue Area	Continue RF	Average RF	Absolute RF Dif.	Percent Differ.
TETRACHLORO-M-XYL	2.500E+01	249327	9.973E+03	9.467E+03	5.059E+02	5.3
PCB1016 #1	5.000E+02	87389	1.748E+02	1.802E+02	5.450E+00	3.0
PCB1016 #2	5.000E+02	177731	3.555E+02	3.990E+02	4.358E+01	10.9
PCB1016 #3	5.000E+02	73327	1.467E+02	1.426E+02	4.020E+00	2.8
PCB1016 #4	5.000E+02	348048	6.961E+02	7.115E+02	1.536E+01	2.2
PCB1016 #5	5.000E+02	98647	1.973E+02	2.146E+02	1.734E+01	8.1
PCB1260 #1	5.000E+02	207429	4.149E+02	4.651E+02	5.026E+01	10.8
PCB1260 #2	5.000E+02	214714	4.294E+02	4.739E+02	4.448E+01	9.4
PCB1260 #3	5.000E+02	97610	1.952E+02	1.948E+02	4.648E-01	0.2
PCB1260 #4	5.000E+02	302013	6.040E+02	6.253E+02	2.128E+01	3.4
PCB1260 #5	5.000E+02	121069	2.421E+02	2.534E+02	1.123E+01	4.4
DECACHLOROBIPHENYL	2.500E+01	188760	7.550E+03	7.479E+03	7.170E+01	1.0

<-- = Exceeds %Difference Limit

Page 1



Data File Name	: C:\HPCHEM\1\DATA\093098\025F0101.D	Page Number	: 1
Operator	: ECL	Vial Number	: 25
Instrument	: HP4	Injection Number	: 1
Sample Name	: 1660 0.5 PPM	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	1660F.MTH
Acquired on	: 01 Oct 98 03:44 AM	Analysis Method	: 1660F.MTH
Report Created on:	01 Oct 98 02:40 PM	Sample Amount	: 0
Last Recalib on	: 24 SEP 98 09:00 AM	ISTD Amount	:
Multiplier	: 1		

External Standard Report

```

Data File Name      : C:\HPCHEM\1\DATA\093098\025F0101.D
Operator           : ECL
Instrument          : HP4
Sample Name        : 1660 0.5 PPM
Run Time Bar Code  :
Acquired on        : 01 Oct 98 03:44 AM
Report Created on  : 01 Oct 98 02:40 PM
Last Recalib on   : 24 SEP 98 09:00 AM
Multiplier         : 1

Page Number        : 1
Vial Number        : 25
Injection Number   : 1
Sequence Line      : 1
Instrument Method   : 1660F.MTH
Analysis Method    : 1660F.MTH
Sample Amount      : 0
ISTD Amount        :
  
```

Sig. 1 in C:\HPCHEM\1\DATA\093098\025F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
7.012	249327	BB	0.066	1	26.336	TETRACHLORO-M-XYL
9.319	87389	BB	0.071	1	484.881	PCB1016 #1
10.842	177731	BB	0.087	1	445.391	PCB1016 #2
11.932	73327	BB	0.084	1	514.092	PCB1016 #3
12.176	348048	BB	0.106	1	489.206	PCB1016 #4
14.554	98647	BB	0.086	1	459.610	PCB1016 #5
19.756	207429	BB	0.113	1	445.969	PCB1260 #1
20.145	214714	BB	0.101	1	453.069	PCB1260 #2
21.648	97610	BB	0.090	1	501.191	PCB1260 #3
24.155	302013	BB	0.086	1	482.986	PCB1260 #4
25.864	121069	BB	0.073	1	477.834	PCB1260 #5
30.715	188760	BB	0.131	1	25.240	DECACHLOROBIPHENYL

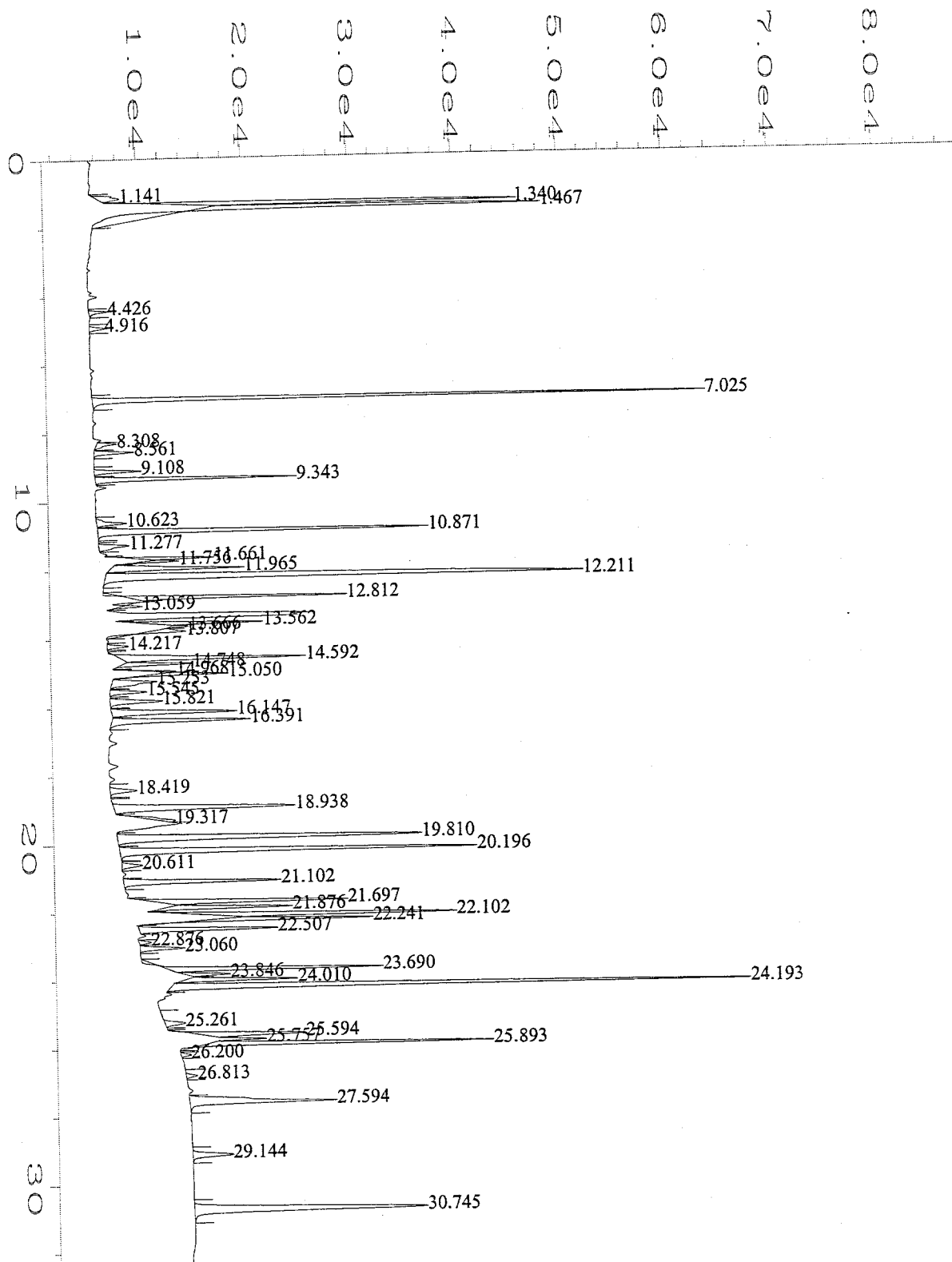
CONTINUING CALIBRATION DATA

Data File : C:\HPCHEM\1\DATA\093098\036F0101.D
 Calibration Check Level : 4
 Instrument : HP4
 Sample Name : 1660 0.5 PPM
 Acquisition Date : 01 Oct 98 10:17 AM
 Last Calibration Date : 24 SEP 98 09:00 AM
 Analysis Method : 1660F.MTH
 Calculation Type : External Standard
 Sample Amount : .0
 Report Date : 01 Oct 98 02:43 PM
 % Difference Limit : 15.0

Compound Name	Amount	Continue Area	Continue RF	Average RF	Absolute RF Dif.	Percent Differ.
TETRACHLORO-M-XYL	2.500E+01	248950	9.958E+03	9.467E+03	4.908E+02	5.2
PCB1016 #1	5.000E+02	86977	1.740E+02	1.802E+02	6.274E+00	3.5
PCB1016 #2	5.000E+02	179630	3.593E+02	3.990E+02	3.978E+01	10.0
PCB1016 #3	5.000E+02	73041	1.461E+02	1.426E+02	3.448E+00	2.4
PCB1016 #4	5.000E+02	342277	6.846E+02	7.115E+02	2.690E+01	3.8
PCB1016 #5	5.000E+02	101045	2.021E+02	2.146E+02	1.254E+01	5.8
PCB1260 #1	5.000E+02	210746	4.215E+02	4.651E+02	4.363E+01	9.4
PCB1260 #2	5.000E+02	218465	4.369E+02	4.739E+02	3.698E+01	7.8
PCB1260 #3	5.000E+02	99876	1.998E+02	1.948E+02	4.997E+00	2.6
PCB1260 #4	5.000E+02	303771	6.075E+02	6.253E+02	1.776E+01	2.8
PCB1260 #5	5.000E+02	124744	2.495E+02	2.534E+02	3.882E+00	1.5
DECACHLOROBIPHENYL	2.500E+01	191794	7.672E+03	7.479E+03	1.931E+02	2.6

<-- = Exceeds %Difference Limit

Page 1



Data File Name	: C:\HPCHEM\1\DATA\093098\036F0101.D	Page Number	: 1
Operator	: ECL	Vial Number	: 36
Instrument	: HP4	Injection Number	: 1
Sample Name	: 1660 0.5 PPM	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	1660F.MTH
Acquired on	: 01 Oct 98 10:17 AM	Analysis Method	: 1660F.MTH
Report Created on:	01 Oct 98 02:44 PM	Sample Amount	: 0
Last Recalib on	: 24 SEP 98 09:00 AM	ISTD Amount	: -
Multiplier	: 1		

External Standard Report

```

Data File Name      : C:\HPCHEM\1\DATA\093098\036F0101.D
Operator           : ECL
Instrument          : HP4
Sample Name         : 1660 0.5 PPM
Run Time Bar Code   :
Acquired on         : 01 Oct 98  10:17 AM
Report Created on   : 01 Oct 98  02:44 PM
Last Recalib on    : 24 SEP 98  09:00 AM
Multiplier          : 1

Page Number         : 1
Vial Number         : 36
Injection Number    : 1
Sequence Line       : 1
Instrument Method    : 1660F.MTH
Analysis Method     : 1660F.MTH
Sample Amount       : 0
ISTD Amount         :
  
```

Sig. 1 in C:\HPCHEM\1\DATA\093098\036F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
7.025	248950	BB	0.066	1	26.296	TETRACHLORO-M-XYL
9.343	86977	BB	0.071	1	482.593	PCB1016 #1
10.871	179630	BB	0.088	1	450.151	PCB1016 #2
11.965	73041	BB	0.085	1	512.091	PCB1016 #3
12.211	342277	BB	0.105	1	481.093	PCB1016 #4
14.592	101045	BB	0.087	1	470.783	PCB1016 #5
19.810	210746	BB	0.113	1	453.101	PCB1260 #1
20.196	218465	BB	0.100	1	460.984	PCB1260 #2
21.697	99876	BB	0.088	1	512.826	PCB1260 #3
24.193	303771	BB	0.085	1	485.798	PCB1260 #4
25.893	124744	BB	0.073	1	492.341	PCB1260 #5
30.745	191794	BB	0.133	1	25.645	DECACHLOROBIPHENYL

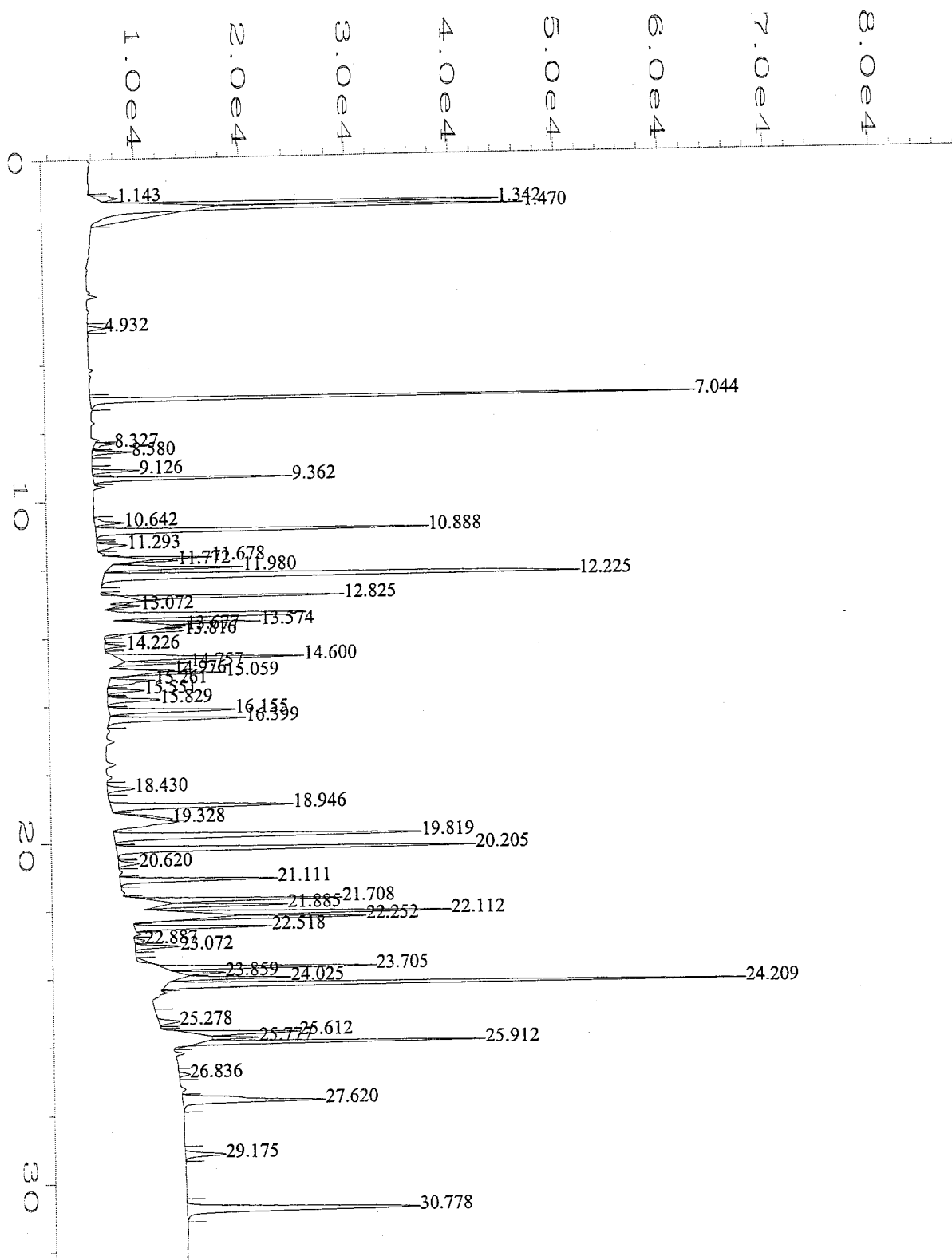
CONTINUING CALIBRATION DATA

Data File : C:\HPCHEM\1\DATA\093098\038F0101.D
Calibration Check Level : 4
Instrument : HP4
Sample Name : 1660 0.5 PPM
Acquisition Date : 01 Oct 98 11:28 AM
Last Calibration Date : 24 SEP 98 09:00 AM
Analysis Method : 1660F.MTH
Calculation Type : External Standard
Sample Amount : .0
Report Date : 01 Oct 98 02:43 PM
% Difference Limit : 15.0

Compound Name	Amount	Continue Area	Continue RF	Average RF	Absolute RF Dif.	Percent Differ.
TETRACHLORO-M-XYL	2.500E+01	247585	9.903E+03	9.467E+03	4.362E+02	4.6
PCB1016 #1	5.000E+02	86529	1.731E+02	1.802E+02	7.170E+00	4.0
PCB1016 #2	5.000E+02	179746	3.595E+02	3.990E+02	3.955E+01	9.9
PCB1016 #3	5.000E+02	72888	1.458E+02	1.426E+02	3.142E+00	2.2
PCB1016 #4	5.000E+02	342032	6.841E+02	7.115E+02	2.739E+01	3.9
PCB1016 #5	5.000E+02	100676	2.014E+02	2.146E+02	1.328E+01	6.2
PCB1260 #1	5.000E+02	211172	4.223E+02	4.651E+02	4.278E+01	9.2
PCB1260 #2	5.000E+02	218714	4.374E+02	4.739E+02	3.648E+01	7.7
PCB1260 #3	5.000E+02	99925	1.999E+02	1.948E+02	5.095E+00	2.6
PCB1260 #4	5.000E+02	301810	6.036E+02	6.253E+02	2.168E+01	3.5
PCB1260 #5	5.000E+02	123182	2.464E+02	2.534E+02	7.006E+00	2.8
DECACHLOROBIPHENYL	2.500E+01	191276	7.651E+03	7.479E+03	1.723E+02	2.3

<-- = Exceeds %Difference Limit

Page 1



Data File Name	: C:\HPCHEM\1\DATA\093098\038F0101.D	Page Number	: 1
Operator	: ECL	Vial Number	: 38
Instrument	: HP4	Injection Number	: 1
Sample Name	: 1660 0.5 PPM	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	1660F.MTH
Acquired on	: 01 Oct 98 11:28 AM	Analysis Method	: 1660F.MTH
Report Created on:	01 Oct 98 02:42 PM	Sample Amount	: 0
Last Recalib on	: 24 SEP 98 09:00 AM	ISTD Amount	:
Multiplier	: 1		

External Standard Report

Data File Name : C:\HPCHEM\1\DATA\093098\038F0101.D
 Operator : ECL Page Number : 1
 Instrument : HP4 Vial Number : 38
 Sample Name : 1660 0.5 PPM Injection Number : 1
 Run Time Bar Code: Sequence Line : 1
 Acquired on : 01 Oct 98 11:28 AM Instrument Method: 1660F.MTH
 Report Created on: 01 Oct 98 02:42 PM Analysis Method : 1660F.MTH
 Last Recalib on : 24 SEP 98 09:00 AM Sample Amount : 0
 Multiplier : 1 ISTD Amount :

Sig. 1 in C:\HPCHEM\1\DATA\093098\038F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
7.044	247585	BB	0.067	1	26.152	TETRACHLORO-M-XYL
9.362	86529	BB	0.071	1	480.111	PCB1016 #1
10.888	179746	BB	0.087	1	450.440	PCB1016 #2
11.980	72888	BB	0.085	1	511.012	PCB1016 #3
12.225	342032	BB	0.104	1	480.749	PCB1016 #4
14.600	100676	BB	0.086	1	469.063	PCB1016 #5
19.819	211172	BB	0.112	1	454.017	PCB1260 #1
20.205	218714	BB	0.099	1	461.511	PCB1260 #2
21.708	99925	BB	0.090	1	513.079	PCB1260 #3
24.209	301810	BB	0.085	1	482.663	PCB1260 #4
25.912	123182	BB	0.073	1	486.176	PCB1260 #5
30.778	191276	BB	0.132	1	25.576	DECACHLOROBIPHENYL

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\093098\391.D\ECD1A.CH
 Acq On : 9-30-98 16:14:49
 Sample : PESTICIDE 20 PPB
 Misc :
 IntFile : autoint1.e

Vial: 3
 Operator: ECL
 Inst : GC/MS Ins
 Multiplr: 1.00

Data File : C:\HPCHEM\1\DATA\093098\391.D\ECD2B.CH
 Acq On : 9-30-98 16:39:30
 Sample : PESTICIDE 20 PPB
 Misc :
 IntFile : autoint2.e

Vial: 3
 Operator: ECL
 Inst : GC/MS Ins
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
 Title : PEST
 Last Update : Tue Sep 22 08:33:05 1998
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 S	TETRACHLORO-M-XYLENE	20.000	19.301	3.5	93	0.00
2	ALPHA-BHC	20.000	20.013	-0.1	95	0.00
3	GAMMA-BHC	20.000	19.980	0.1	95	0.00
4	BETA-BHC	20.000	19.954	0.2	97	0.00
5	HEPTACHLOR	20.000	19.264	3.7	93	0.00
6	DELTA-BHC	20.000	20.067	-0.3	96	0.00
7	ALDRIN	20.000	20.169	-0.8	96	0.00
8	HEPTACHLOR EPOXIDE	20.000	19.982	0.1	97	0.00
9	GAMMA CHLORDANE	20.000	19.845	0.8	97	0.00
10	ALPHA CHLORDANE	20.000	19.689	1.6	97	0.00
11	ENDOSULFAN I	20.000	19.920	0.4	97	0.00
12	4-4' DDE	20.000	20.181	-0.9	97	0.00
13	DIELDRIN	20.000	19.790	1.1	96	0.00
14	ENDRIN	20.000	20.062	-0.3	97	0.00
15	4-4' DDD	20.000	20.301	-1.5	97	0.00
16	ENDOSULFAN II	20.000	20.481	-2.4	100	0.00
17	4-4' DDT	20.000	18.599	7.0	90	0.00
18	ENDRIN ALDEHYDE	20.000	19.536	2.3	95	0.00
19	ENDOSULFAN SULFATE	20.000	20.261	-1.3	100	0.00
20	METHOXYCHLOR	20.000	19.797	1.0	96	0.00
21	ENDRIN KETONE	20.000	20.821	-4.1	100	0.00
22 S	DECACHLOROBIPHENYL	20.000	21.665	-8.3	106	0.00

Signal #2						
1 S	TETRACHLORO-M-XYLENE#2	20.000	20.977	-4.9	102	0.00
2	ALPHA-BHC	20.000	21.360	-6.8	102	0.00
3	GAMMA-BHC	20.000	21.568	-7.8	104	0.00
4	BETA-BHC	20.000	20.375	-1.9	102	0.00
5	HEPTACHLOR	20.000	20.563	-2.8	100	0.00
6	DELTA-BHC	20.000	21.115	-5.6	102	0.00
7	ALDRIN	20.000	21.376	-6.9	104	0.00
8	HEPTACHLOR EPOXIDE	20.000	21.605	-8.0	107	0.00
9	GAMMA CHLORDANE	20.000	21.645	-8.2	108	0.00
10	ALPHA CHLORDANE	20.000	21.863	-9.3	109	0.00
11	ENDOSULFAN I	20.000	21.263	-6.3	106	0.00
12	4-4' DDE	20.000	21.960	-9.8	108	0.00
13	DIELDRIN	20.000	21.952	-9.8	109	0.00
14	ENDRIN	20.000	20.884	-4.4	100	0.00
15	4-4' DDD	20.000	20.748	-3.7	103	0.00
16	ENDOSULFAN II	20.000	21.671	-8.4	108	0.00
17	4-4' DDT	20.000	18.789	6.1	98	0.00
18	ENDRIN ALDEHYDE	20.000	23.873	-19.4#	107	0.00
19	ENDOSULFAN SULFATE	20.000	20.969	-4.8	105	0.00
20	METHOXYCHLOR	20.000	20.528	-2.6	101	0.00
21	ENDRIN KETONE	20.000	21.652	-8.3	107	0.00
22 S	DECACHLOROBIPHENYL	20.000	21.809	-9.0	108	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

391.D 8081.M

Wed Sep 30 17:00:10 1998

Data File : C:\HPCHEM\1\DATA\093098\391.D\ECD1A.CH Vial: 3
 Acq On : 9-30-98 16:14:49 Operator: ECL
 Sample : PESTICIDE 20 PPB Inst : GC/MS Ins
 Misc : Multiplr: 1.00
 IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\093098\391.D\ECD2B.CH Vial: 3
 Acq On : 9-30-98 16:39:30 Operator: ECL
 Sample : PESTICIDE 20 PPB Inst : GC/MS Ins
 Misc : Multiplr: 1.00
 IntFile : autoint2.e
 Quant Time: Sep 30 16:59 1998 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
 Title : PEST
 Last Update : Tue Sep 22 08:33:05 1998
 Response via : Initial Calibration
 DataAcq Meth : 8081.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L

System Monitoring Compounds						
1) S TETRACHLORO-M-XY	5.69	6.72	617.0E6	254.6E6	19.301	20.977
Spiked Amount 20.000			Recovery	=	96.50%	104.89%
22) S DECACHLOROBIPHEN	14.83	15.41	309.2E6	128.1E6	21.665	21.809
Spiked Amount 20.000			Recovery	=	108.33%	109.05%
Target Compounds						
2) ALPHA-BHC	6.94	7.48	821.7E6	362.2E6	20.013	21.360
3) GAMMA-BHC	7.65	8.07	690.7E6	308.1E6	19.980	21.568
4) BETA-BHC	8.00	8.61	305.0E6	131.7E6	19.954	20.375
5) HEPTACHLOR	8.18	9.10	635.2E6	280.4E6	19.264	20.563
6) DELTA-BHC	8.53	9.04	599.2E6	290.6E6	20.067	21.115
7) ALDRIN	8.73	9.65	582.2E6	258.2E6	20.169	21.376
8) HEPTACHLOR EPOXI	9.69	10.41	516.4E6	227.8E6	19.982	21.605
9) GAMMA CHLORDANE	10.01	10.94	506.8E6	212.6E6	19.845	21.645
10) ALPHA CHLORDANE	10.22	11.02	488.5E6	210.4E6	19.689	21.863
11) ENDOSULFAN I	10.30	11.07	462.5E6	194.9E6	19.920	21.263
12) 4-4' DDE	10.64	11.31	458.2E6	202.1E6	20.181	21.960
13) DIELDRIN	10.81	11.49	458.6E6	203.2E6	19.790	21.952
14) ENDRIN	11.37	11.85	370.1E6	162.6E6	20.062	20.884
15) 4-4' DDD	11.58	12.27	368.9E6	167.9E6	20.301	20.748
16) ENDOSULFAN II	11.76	12.13	397.0E6	164.4E6	20.481	21.671
17) 4-4' DDT	12.01	12.58	298.1E6	131.6E6	18.599	18.789
18) ENDRIN ALDEHYDE	12.20	12.44	293.7E6	133.2E6	19.536	23.873
19) ENDOSULFAN SULFA	12.43	12.86	348.7E6	149.7E6	20.261	20.969
20) METHOXYCHLOR	13.20	13.24	147.4E6	67909507	19.797	20.528
21) ENDRIN KETONE	13.45	13.45	358.1E6	164.9E6	20.821	21.652

Quantitation Report

Data File : C:\HPCHEM\1\DATA\093098\391.D\ECD1A.CH
Acq On : 9-30--98 16:14:49
Sample : PESTICIDE 20 PPB
Misc :
IntFile : autoint1.e
Vial: 3
Operator: ECL
Inst : GC/MS Ins
Multiplr: 1.00

```

Data File : C:\HPCHEM\1\DATA\093098\391.D\ECD2B.CH
Acq On    : 9-30-98 16:39:30
Sample    : PESTICIDE 20 PPB
Misc      :
Operator   : ECL
Inst       : GC/MS
Multiplr  : 1.00
Vial      : 3

```

Quant Time: Sep 30 16:59 1998 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)

Title : PEST

Last Update : Tue Sep 22 08:33:05 1998

Response via : Multiple Level Calibration

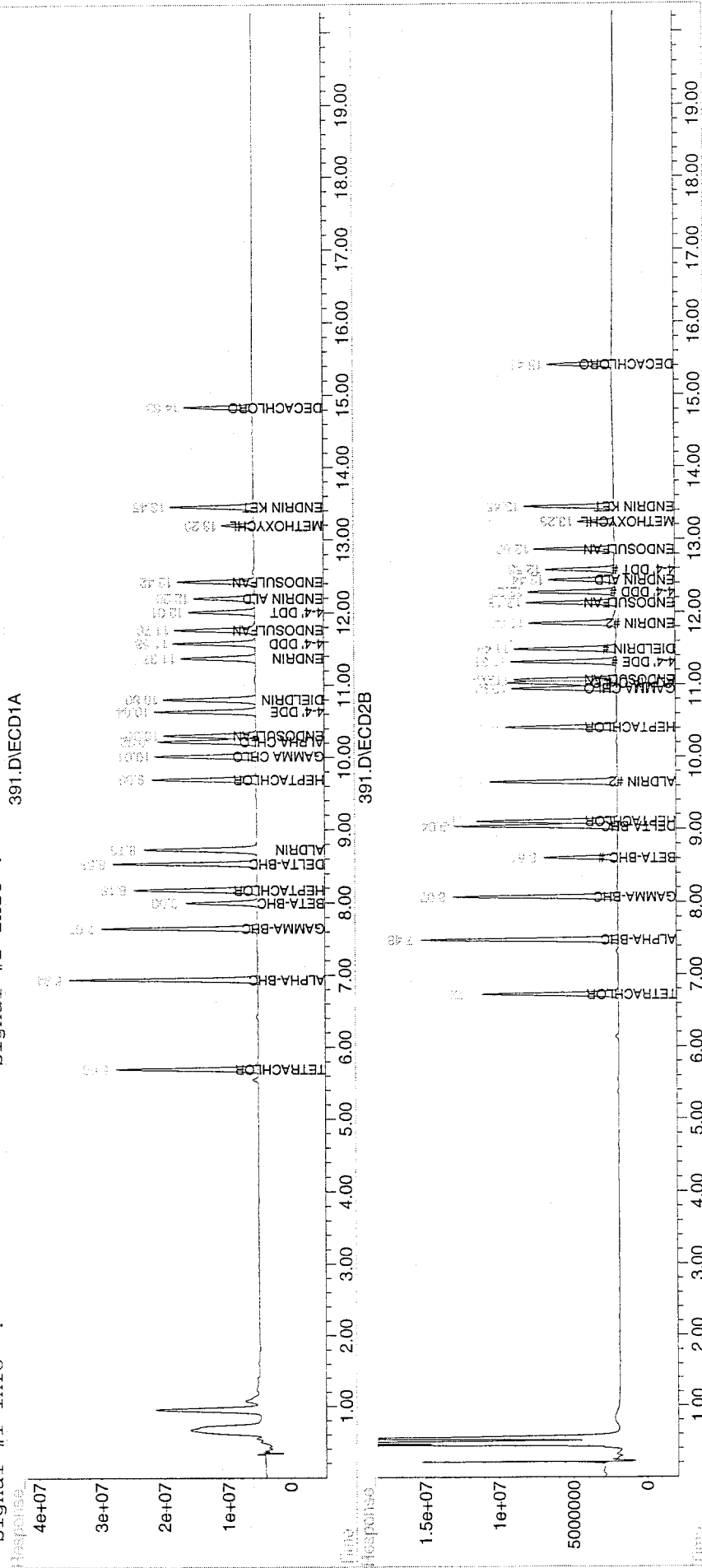
DataAcq Meth : 8081.M

Volume Inj. : :

Signal #1 Phase : Signal #2 Phase:

Signal #1 Info : Signal #2 Info :

391.D\ECD1A



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\093098\409.D\ECD1A.CH
 Acq On : 10-1-98 00:14:17
 Sample : PESTICIDE 20 PPB
 Misc :
 IntFile : autoint1.e

Vial: 21
 Operator: ECL
 Inst : GC/MS Ins
 Multiplr: 1.00

Data File : C:\HPCHEM\1\DATA\093098\409.D\ECD2B.CH
 Acq On : 10-1-98 00:39:04
 Sample : ENDRIN/DDT BREAKDOWN
 Misc :
 IntFile : autoint2.e

Vial: 21
 Operator: ECL
 Inst : GC/MS Ins
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
 Title : PEST
 Last Update : Tue Sep 22 08:33:05 1998
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 S	TETRACHLORO-M-XYLENE	20.000	19.271	3.6	93	0.00
2	ALPHA-BHC	20.000	20.180	-0.9	95	0.00
3	GAMMA-BHC	20.000	20.336	-1.7	97	0.00
4	BETA-BHC	20.000	19.788	1.1	97	0.00
5	HEPTACHLOR	20.000	19.621	1.9	95	0.00
6	DELTA-BHC	20.000	20.019	-0.1	95	0.00
7	ALDRIN	20.000	20.108	-0.5	96	0.00
8	HEPTACHLOR EPOXIDE	20.000	20.508	-2.5	100	0.00
9	GAMMA CHLORDANE	20.000	20.506	-2.5	100	0.00
10	ALPHA CHLORDANE	20.000	20.102	-0.5	99	0.00
11	ENDOSULFAN I	20.000	20.661	-3.3	101	0.00
12	4-4' DDE	20.000	20.856	-4.3	100	0.00
13	DIELDRIN	20.000	20.429	-2.1	99	0.00
14	ENDRIN	20.000	18.726	6.4	91	0.00
15	4-4' DDD	20.000	21.332	-6.7	102	0.00
16	ENDOSULFAN II	20.000	20.818	-4.1	101	0.00
17	4-4' DDT	20.000	18.265	8.7	89	0.00
18	ENDRIN ALDEHYDE	20.000	21.344	-6.7	104	0.00
19	ENDOSULFAN SULFATE	20.000	20.812	-4.1	103	0.00
20	METHOXYCHLOR	20.000	19.046	4.8	92	0.00
21	ENDRIN KETONE	20.000	21.867	-9.3	105	0.00
22 S	DECACHLOROBIPHENYL	20.000	22.465	-12.3	110	0.00

Signal #2						
1 S	TETRACHLORO-M-XYLENE#2	20.000	21.288	-6.4	104	0.00
2	ALPHA-BHC	20.000	21.179	-5.9	101	0.00
3	GAMMA-BHC	20.000	17.017	14.9	82	0.00
4	BETA-BHC	20.000	20.710	-3.6	103	0.00
5	HEPTACHLOR	20.000	21.043	-5.2	103	0.00
6	DELTA-BHC	20.000	22.350	-11.8	108	0.00
7	ALDRIN	20.000	21.541	-7.7	105	0.00
8	HEPTACHLOR EPOXIDE	20.000	22.822	-14.1	113	0.00
9	GAMMA CHLORDANE	20.000	23.475	-17.4#	117	0.00
10	ALPHA CHLORDANE	20.000	21.979	-9.9	110	0.00
11	ENDOSULFAN I	20.000	20.293	-1.5	101	0.00
12	4-4' DDE	20.000	23.252	-16.3#	115	0.00
13	DIELDRIN	20.000	23.367	-16.8#	116	0.00
14	ENDRIN	20.000	22.573	-12.9	108	0.00
15	4-4' DDD	20.000	22.926	-14.6	113	0.00
16	ENDOSULFAN II	20.000	22.866	-14.3	114	0.00
17	4-4' DDT	20.000	19.491	2.5	102	0.00
18	ENDRIN ALDEHYDE	20.000	25.179	-25.9#	113	0.00
19	ENDOSULFAN SULFATE	20.000	22.697	-13.5	113	0.00
20	METHOXYCHLOR	20.000	21.972	-9.9	108	0.00
21	ENDRIN KETONE	20.000	22.849	-14.2	113	0.00
22 S	DECACHLOROBIPHENYL	20.000	22.050	-10.3	110	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

409.D 8081.M

Thu Oct 01 00:59:44 1998

Data File : C:\HPCHEM\1\DATA\093098\409.D\ECD1A.CH Vial: 21
 Acq On : 10-1-98 00:14:17 Operator: ECL
 Sample : PESTICIDE 20 PPB Inst : GC/MS Ins
 Misc : Multiplr: 1.00
 IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\093098\409.D\ECD2B.CH Vial: 21
 Acq On : 10-1-98 00:39:04 Operator: ECL
 Sample : ENDRIN/DDT BREAKDOWN Inst : GC/MS Ins
 Misc : Multiplr: 1.00
 IntFile : autoint2.e
 Quant Time: Oct 1 0:59 1998 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
 Title : PEST
 Last Update : Tue Sep 22 08:33:05 1998
 Response via : Initial Calibration
 DataAcq Meth : 8081.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L

System Monitoring Compounds						
1) S TETRACHLORO-M-XY	5.69	6.73	616.0E6	258.4E6	19.271	21.288
Spiked Amount 20.000			Recovery	=	96.36%	106.44%
22) S DECACHLOROBIPHEN	14.83	15.41	320.6E6	129.5E6	22.465	22.050
Spiked Amount 20.000			Recovery	=	112.33%	110.25%
Target Compounds						
2) ALPHA-BHC	6.94	7.49	828.5E6	359.1E6	20.180	21.179
3) GAMMA-BHC	7.65	8.07	703.1E6	243.1E6	20.336	17.017
4) BETA-BHC	8.00	8.61	302.5E6	133.8E6	19.788	20.710
5) HEPTACHLOR	8.18	9.11	647.0E6	287.0E6	19.621	21.043
6) DELTA-BHC	8.54	9.04	597.8E6	307.6E6	20.019	22.350
7) ALDRIN	8.73	9.65	580.5E6	260.2E6	20.108	21.541
8) HEPTACHLOR EPOXI	9.70	10.41	530.0E6	240.6E6	20.508	22.822
9) GAMMA CHLORDANE	10.02	10.94	523.7E6	230.6E6	20.506	23.475
10) ALPHA CHLORDANE	10.22	11.02	498.8E6	211.6E6	20.102	21.979
11) ENDOSULFAN I	10.31	11.07	479.7E6	186.0E6	20.661	20.293
12) 4-4' DDE	10.64	11.31	473.5E6	214.0E6	20.856	23.252
13) DIELDRIN	10.81	11.49	473.4E6	216.2E6	20.429	23.367
14) ENDRIN	11.38	11.85	345.4E6	175.7E6	18.726	22.573
15) 4-4' DDD	11.58	12.27	387.7E6	185.5E6	21.332	22.926
16) ENDOSULFAN II	11.77	12.13	403.6E6	173.5E6	20.818	22.866
17) 4-4' DDT	12.01	12.58	292.8E6	136.5E6	18.265	19.491
18) ENDRIN ALDEHYDE	12.20	12.44	320.9E6	140.5E6	21.344	25.179
19) ENDOSULFAN SULFA	12.43	12.86	358.2E6	162.0E6	20.812	22.697
20) METHOXYCHLOR	13.20	13.24	141.8E6	72684128	19.046	21.972
21) ENDRIN KETONE	13.46	13.45	376.1E6	174.0E6	21.867	22.849

Quantitation Report

Data File : C:\HPCHEM\1\DATA\093098\409.D\ECD1A.CH
Acq On : 10-1-98 00:14:17
Sample : PESTICIDE 20 PPB
Misc :
IntFile : autoint1.e
Vial: 21
Operator: ECL
Inst : GC/MS Ins
Multiplr: 1.00

```

Data File : C:\HPCHEM\1\DATA\093098\409.D\ECD2B.CH
Acq On    : 10-1-98 00:39:04
Sample    : ENDRIN/DDT BREAKDOWN
Misc      :
Vial: 21
Operator: ECL
Inst  : GC/MS
Multiplr: 1.00

```

Quant Time: Oct 1 0:59 1998 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)

Title : PEST

Last Update : Tue Sep 22 08:33:05 1998

Response via : Multiple Level Calibration

DataAcq Meth : 8081.M

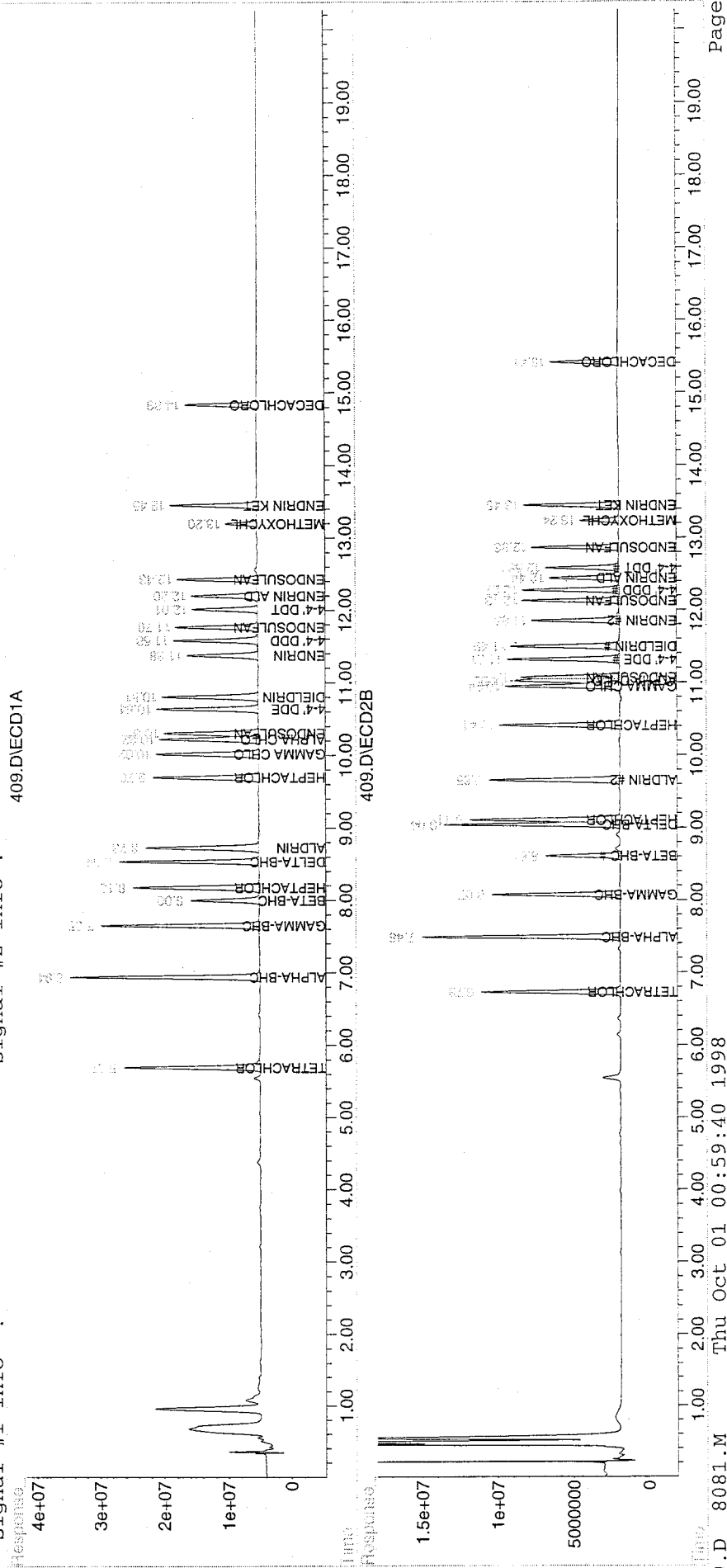
Volume Inj. :

Signal #1 Phase

Signal #1 Info :

Signal #2 phase:

Signal #2 Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\093098\410.D\ECD1A.CH Vial: 22
 Acq On : 10-1-98 00:39:04 Operator: ECL
 Sample : TOXAPHENE 0.5 PPM Inst : GC/MS Ins
 Misc : Multiplr: 1.00
 IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\093098\410.D\ECD2B.CH Vial: 22
 Acq On : 10-1-98 1:03:58 Operator: ECL
 Sample : TOXAPHENE 0.5 PPM Inst : GC/MS Ins
 Misc : SOIL Multiplr: 1.00
 IntFile : autoint2.e

Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
 Title : TOX
 Last Update : Thu Oct 01 08:22:52 1998
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 S TETRACHLORO-M-XYLENE	31.797	32.255 E6	-1.4	99	0.00
2 TOXAPHENE-1	242.998	253.431 E3	-4.3	101	0.00
3 TOXAPHENE-2	151.398	162.392 E3	-7.3	103	0.00
4 TOXAPHENE-3	75.118	83.333 E3	-10.9	114	0.00
5 TOXAPHENE-4	337.315	369.076 E3	-9.4	108	0.00
6 TOXAPHENE-5	66.446	73.340 E3	-10.4	112	0.00
7 S DECACHLOROBIPHENYL	16.570	17.798 E6	-7.4	106	0.00

Signal #2

1 S TETRACHLORO-M-XYLENE#2	12.571	13.222 E6	-5.2	103	0.00
2 TOXAPHENE-1	89.236	98.271 E3	-10.1	108	0.00
3 TOXAPHENE-2	185.845	209.189 E3	-12.6	109	0.00
4 TOXAPHENE-3	69.081	77.757 E3	-12.6	112	0.00
5 TOXAPHENE-4	112.389	125.982 E3	-12.1	107	0.00
6 TOXAPHENE-5	92.598	106.676 E3	-15.2#	108	0.00
7 S DECACHLOROBIPHENYL	6.346	6.733 E6	-6.1	104	0.00

Data File : C:\HPCHEM\1\DATA\093098\410.D\ECD1A.CH Vial: 22
 Acq On : 10-1-98 00:39:04 Operator: ECL
 Sample : TOXAPHENE 0.5 PPM Inst : GC/MS Ins
 Misc : Multiplr: 1.00
 IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\093098\410.D\ECD2B.CH Vial: 22
 Acq On : 10-1-98 1:03:58 Operator: ECL
 Sample : TOXAPHENE 0.5 PPM Inst : GC/MS Ins
 Misc : SOIL Multiplr: 1.00
 IntFile : autoint2.e
 Quant Time: Oct 1 8:29 1998 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
 Title : TOX
 Last Update : Thu Oct 01 08:22:52 1998
 Response via : Initial Calibration
 DataAcq Meth : 8081.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L

System Monitoring Compounds						
1) S TETRACHLORO-M-XY	5.70	6.73	806.4E6	330.5E6	25.361	26.294
Spiked Amount 20.000			Recovery	=	126.81%	131.47%
7) S DECACHLOROBIPHEN	14.83	15.41	444.9E6	168.3E6	26.853	26.524
Spiked Amount 20.000			Recovery	=	134.27%	132.62%
Target Compounds						
2) TOXAPHENE-1	11.76	12.74	126.7E6	49135353	521.467	550.623
3) TOXAPHENE-2	12.32	12.84	81195889	104.6E6	536.307	562.805
4) TOXAPHENE-3	12.67	13.00	41666631	38878675	554.681	562.802
5) TOXAPHENE-4	13.49	14.00	184.5E6	62991026	547.078	560.475
6) TOXAPHENE-5	13.94	14.17	36669770	53338133	551.876	576.018

Data File : C:\HPCHEM\1\DATA\093098\410.D\ECD1A.CH Vial: 22
Acq On : 10-1-98 00:39:04 Operator: ECL
Sample : TOXAPHENE 0.5 PPM Inst : GC/MS Ins
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\093098\410.D\ECD2B.CH Vial: 22
Acq On : 10-1-98 1:03:58 Operator: ECL
Sample : TOXAPHENE 0.5 PPM Inst : GC/MS Ins
Misc : SOIL Multiplr: 1.00
IntFile : autoint2.e

Quant Time: Oct 1 8:29 1998 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)

Title : TOX

Last Update : Thu Oct 01 08:22:52 1998

Response via : Multiple Level Calibration

DataAcq Meth : 8081.M

Volume Inj. :

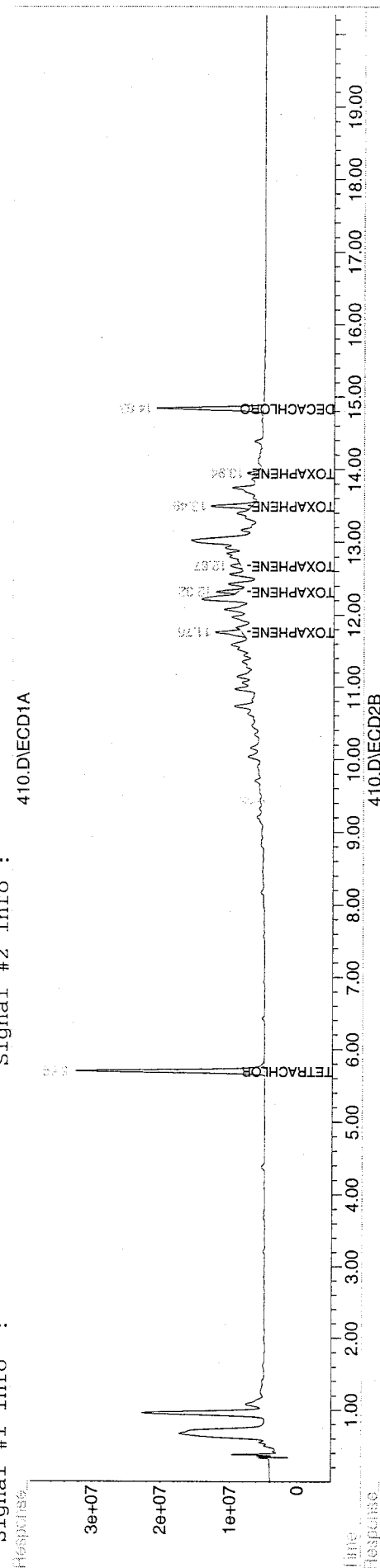
Signal #1 Phase :

Signal #1 Info :

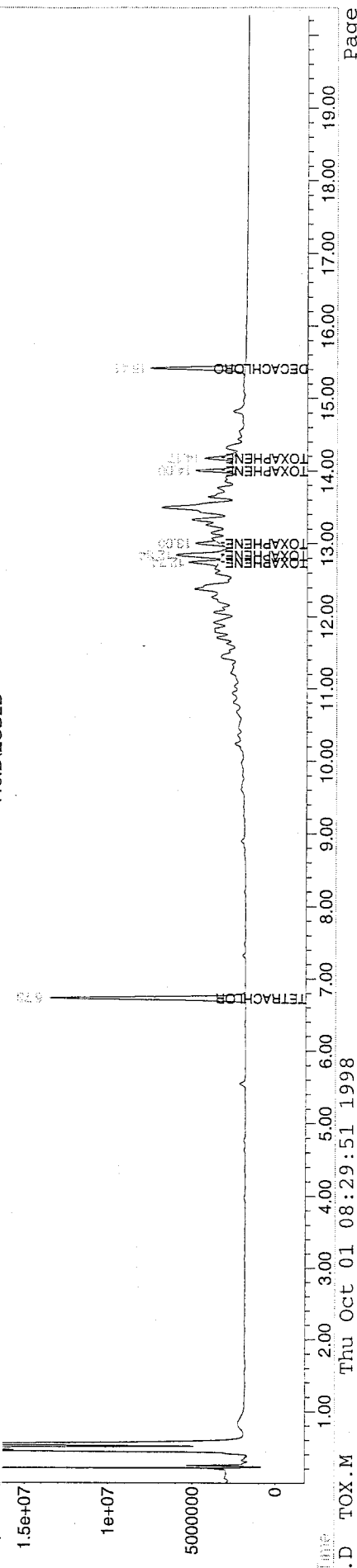
Signal #2 Phase:

Signal #2 Info :

410.D\ECD1A



410.D\ECD2B



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\093098\418.D\ECD1A.CH
 Acq On : 10-1-98 3:57:30
 Sample : PESTICIDE 20 PPB
 Misc :
 IntFile : autoint1.e

Vial: 30
 Operator: ECL
 Inst : GC/MS Ins
 Multiplr: 1.00

Data File : C:\HPCHEM\1\DATA\093098\418.D\ECD2B.CH
 Acq On : 10-1-98 4:22:12
 Sample : ENDRIN/DDT BREAKDOWN
 Misc :
 IntFile : autoint2.e

Vial: 30
 Operator: ECL
 Inst : GC/MS Ins
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
 Title : PEST
 Last Update : Tue Sep 22 08:33:05 1998
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 S	TETRACHLORO-M-XYLENE	20.000	19.912	0.4	96	0.00
2	ALPHA-BHC	20.000	20.909	-4.5	99	0.00
3	GAMMA-BHC	20.000	21.161	-5.8	101	0.00
4	BETA-BHC	20.000	20.874	-4.4	102	0.00
5	HEPTACHLOR	20.000	20.373	-1.9	98	0.00
6	DELTA-BHC	20.000	20.397	-2.0	97	0.00
7	ALDRIN	20.000	21.684	-8.4	104	0.00
8	HEPTACHLOR EPOXIDE	20.000	21.712	-8.6	106	0.00
9	GAMMA CHLORDANE	20.000	21.540	-7.7	105	0.00
10	ALPHA CHLORDANE	20.000	21.292	-6.5	105	0.00
11	ENDOSULFAN I	20.000	21.631	-8.2	106	0.00
12	4-4' DDE	20.000	21.980	-9.9	106	0.00
13	DIELDRIN	20.000	21.660	-8.3	105	0.00
14	ENDRIN	20.000	18.090	9.6	88	0.00
15	4-4' DDD	20.000	22.506	-12.5	108	0.00
16	ENDOSULFAN II	20.000	21.872	-9.4	106	0.00
17	4-4' DDT	20.000	18.660	6.7	91	0.00
18	ENDRIN ALDEHYDE	20.000	23.078	-15.4#	112	0.00
19	ENDOSULFAN SULFATE	20.000	21.784	-8.9	107	0.00
20	METHOXYCHLOR	20.000	19.143	4.3	92	0.00
21	ENDRIN KETONE	20.000	23.103	-15.5#	111	0.00
22 S	DECACHLOROBIPHENYL	20.000	23.461	-17.3#	115	0.00

Signal #2

1 S	TETRACHLORO-M-XYLENE#2	20.000	21.556	-7.8	105	0.00
2	ALPHA-BHC	20.000	22.405	-12.0	107	0.00
3	GAMMA-BHC	20.000	22.482	-12.4	108	0.00
4	BETA-BHC	20.000	22.424	-12.1	112	0.00
5	HEPTACHLOR	20.000	22.300	-11.5	109	0.00
6	DELTA-BHC	20.000	22.749	-13.7	110	0.00
7	ALDRIN	20.000	23.310	-16.5#	114	0.00
8	HEPTACHLOR EPOXIDE	20.000	23.527	-17.6#	117	0.00
9	GAMMA CHLORDANE	20.000	23.711	-18.6#	118	0.00
10	ALPHA CHLORDANE	20.000	23.810	-19.0#	119	0.00
11	ENDOSULFAN I	20.000	22.994	-15.0	115	0.00
12	4-4' DDE	20.000	23.997	-20.0#	118	0.00
13	DIELDRIN	20.000	24.056	-20.3#	119	0.00
14	ENDRIN	20.000	22.524	-12.6	108	0.00
15	4-4' DDD	20.000	23.110	-15.5#	114	0.00
16	ENDOSULFAN II	20.000	23.886	-19.4#	119	0.00
17	4-4' DDT	20.000	19.911	0.4	104	0.00
18	ENDRIN ALDEHYDE	20.000	25.733	-28.7#	115	0.00
19	ENDOSULFAN SULFATE	20.000	23.564	-17.8#	117	0.00
20	METHOXYCHLOR	20.000	22.484	-12.4	111	0.00
21	ENDRIN KETONE	20.000	23.916	-19.6#	119	0.00
22 S	DECACHLOROBIPHENYL	20.000	23.113	-15.6#	115	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

418.D 8081.M

Thu Oct 01 04:42:53 1998

Page 1

Data File : C:\HPCHEM\1\DATA\093098\418.D\ECD1A.CH Vial: 30
 Acq On : 10-1-98 3:57:30 Operator: ECL
 Sample : PESTICIDE 20 PPB Inst : GC/MS Ins
 Misc : Multiplr: 1.00
 IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\093098\418.D\ECD2B.CH Vial: 30
 Acq On : 10-1-98 4:22:12 Operator: ECL
 Sample : ENDRIN/DDT BREAKDOWN Inst : GC/MS Ins
 Misc : Multiplr: 1.00
 IntFile : autoint2.e
 Quant Time: Oct 1 4:42 1998 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
 Title : PEST
 Last Update : Tue Sep 22 08:33:05 1998
 Response via : Initial Calibration
 DataAcq Meth : 8081.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L

System Monitoring Compounds						
1) S TETRACHLORO-M-XY	5.69	6.73	636.5E6	261.6E6	19.912	21.556
Spiked Amount 20.000			Recovery	=	99.56%	107.78%
22) S DECACHLOROBIPHEN	14.83	15.41	334.8E6	135.8E6	23.461	23.113
Spiked Amount 20.000			Recovery	=	117.30%	115.57%
Target Compounds						
2) ALPHA-BHC	6.94	7.49	858.5E6	379.9E6	20.909	22.405
3) GAMMA-BHC	7.65	8.08	731.6E6	321.2E6	21.161	22.482
4) BETA-BHC	8.00	8.61	319.1E6	144.9E6	20.874	22.424
5) HEPTACHLOR	8.18	9.11	671.8E6	304.1E6	20.373	22.300
6) DELTA-BHC	8.54	9.04	609.1E6	313.1E6	20.397	22.749
7) ALDRIN	8.73	9.65	626.0E6	281.6E6	21.684	23.310
8) HEPTACHLOR EPOXI	9.69	10.41	561.1E6	248.0E6	21.712	23.527
9) GAMMA CHLORDANE	10.02	10.94	550.1E6	232.9E6	21.540	23.711
10) ALPHA CHLORDANE	10.22	11.02	528.3E6	229.2E6	21.292	23.810
11) ENDOSULFAN I	10.30	11.07	502.2E6	210.8E6	21.631	22.994
12) 4-4' DDE	10.64	11.31	499.0E6	220.9E6	21.980	23.997
13) DIELDRIN	10.81	11.49	501.9E6	222.6E6	21.660	24.056
14) ENDRIN	11.37	11.85	333.7E6	175.3E6	18.090	22.524
15) 4-4' DDD	11.58	12.27	409.0E6	187.0E6	22.506	23.110
16) ENDOSULFAN II	11.76	12.13	424.0E6	181.2E6	21.872	23.886
17) 4-4' DDT	12.01	12.58	299.1E6	139.5E6	18.660	19.911
18) ENDRIN ALDEHYDE	12.20	12.44	347.0E6	143.5E6	23.078	25.733
19) ENDOSULFAN SULFA	12.43	12.86	374.9E6	168.2E6	21.784	23.564
20) METHOXYCHLOR	13.20	13.24	142.5E6	74379897	19.143	22.484
21) ENDRIN KETONE	13.45	13.45	397.4E6	182.1E6	23.103	23.916

Quantitation Report

```

Data File : C:\HPCHEM\1\DATA\093098\418.D\ECD1A.CH
Acq On    : 10-1-98 3:57:30
Sample    : PESTICIDE 20 PPB
Misc      :
IntFile   : autoint1.e
          Vial: 30
          Operator: ECL
          Inst : GC/MS
          Multiplr: 1.00

```

```

Data File : C:\HPCHEM\1\DATA\093098\418.D\ECD2B.CH
Acq On    : 10-1-98 4:22:12
Sample    : ENDRIN/DDT BREAKDOWN
Misc      :
Vial: 30
Operator: ECL
Inst  : GC/MS
Multiplr: 1.00

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Quant Time: Oct 1 4:42 1998 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)

Title : PEST

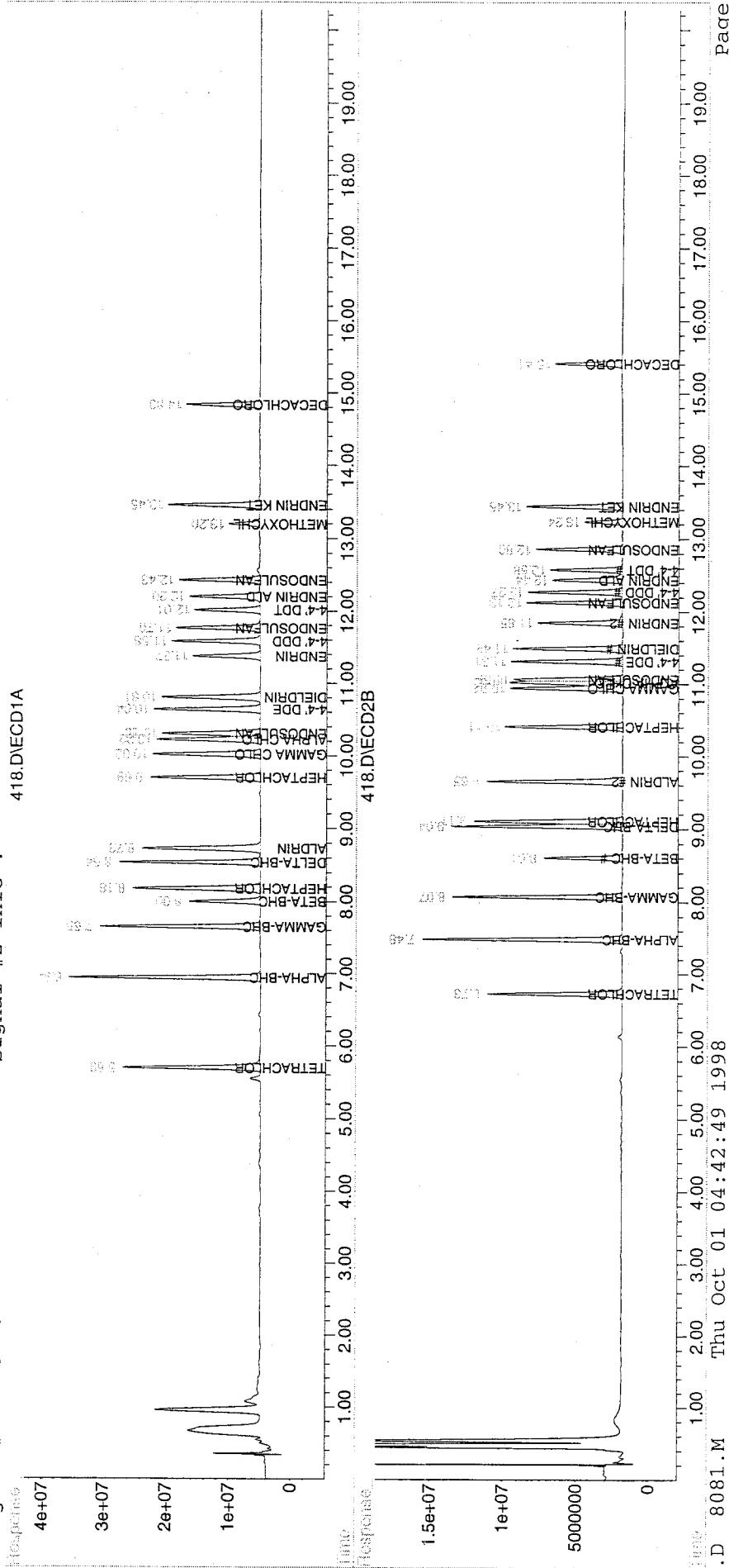
Last Update : Tue Sep 22 08:33:05 1998

Response via : Multiple Level Calibration

DataAcq Meth : 8081.M

Volume Inj. . . :

Signal #1 Phase : Signal #2 Phase :

Signal #1 Info :
Signal #2 Info :

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\093098\419.D\ECD1A.CH Vial: 31
 Acq On : 10-1-98 4:22:12 Operator: ECL
 Sample : TOXAPHENE 0.5 PPM Inst : GC/MS Ins
 Misc : Multiplr: 1.00
 IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\093098\419.D\ECD2B.CH Vial: 31
 Acq On : 10-1-98 4:47:13 Operator: ECL
 Sample : PESTICIDE 20 PPB Inst : GC/MS Ins
 Misc : Multiplr: 1.00
 IntFile : autoint2.e

Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
 Title : TOX
 Last Update : Thu Oct 01 08:22:52 1998
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 S TETRACHLORO-M-XYLENE	31.797	33.001 E6	-3.8	101	0.00
2 TOXAPHENE-1	242.998	259.903 E3	-7.0	104	0.00
3 TOXAPHENE-2	151.398	163.434 E3	-7.9	104	0.00
4 TOXAPHENE-3	75.118	78.916 E3	-5.1	108	0.00
5 TOXAPHENE-4	337.315	366.502 E3	-8.7	107	0.00
6 TOXAPHENE-5	66.446	71.967 E3	-8.3	110	0.00
7 S DECACHLOROBIPHENYL	16.570	17.919 E6	-8.1	107	0.00

Signal #2

1 S TETRACHLORO-M-XYLENE#2	12.571	13.462 E6	-7.1	105	0.00
2 TOXAPHENE-1	89.236	102.422 E3	-14.8	113	0.00
3 TOXAPHENE-2	185.845	216.684 E3	-16.6#	113	0.00
4 TOXAPHENE-3	69.081	77.632 E3	-12.4	112	0.00
5 TOXAPHENE-4	112.389	131.890 E3	-17.4#	112	0.00
6 TOXAPHENE-5	92.598	110.064 E3	-18.9#	112	0.00
7 S DECACHLOROBIPHENYL	6.346	6.969 E6	-9.8	108	0.00

Data File : C:\HPCHEM\1\DATA\093098\419.D\ECD1A.CH Vial: 31
Acq On : 10-1-98 4:22:12 Operator: ECL
Sample : TOXAPHENE 0.5 PPM Inst : GC/MS Ins
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\093098\419.D\ECD2B.CH Vial: 31
Acq On : 10-1-98 4:47:13 Operator: ECL
Sample : PESTICIDE 20 PPB Inst : GC/MS Ins
Misc : Multiplr: 1.00
IntFile : autoint2.e

Quant Time: Oct 1 8:30 1998 Quant Results File: TOX.RES

Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
Title : TOX
Last Update : Thu Oct 01 08:22:52 1998
Response via : Initial Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L
----------	------	------	--------	--------	------	------

System Monitoring Compounds

1) S	TETRACHLORO-M-XY	5.69	6.73	825.0E6	336.5E6	25.946	26.771
	Spiked Amount	20.000		Recovery	=	129.73%	133.86%
7) S	DECACHLOROBIPHEN	14.83	15.41	448.0E6	174.2E6	27.036	27.452
	Spiked Amount	20.000		Recovery	=	135.18%	137.26%

Target Compounds

2)	TOXAPHENE-1	11.76	12.74	130.0E6	51210882	534.783	573.882
3)	TOXAPHENE-2	12.32	12.84	81717151	108.3E6	539.750	582.970
4)	TOXAPHENE-3	12.67	13.00	39457780	38815860	525.276	561.892
5)	TOXAPHENE-4	13.49	14.00	183.3E6	65944972	543.263	586.759
6)	TOXAPHENE-5	13.94	14.17	35983430	55032087	541.547	594.311

Quantitation Report

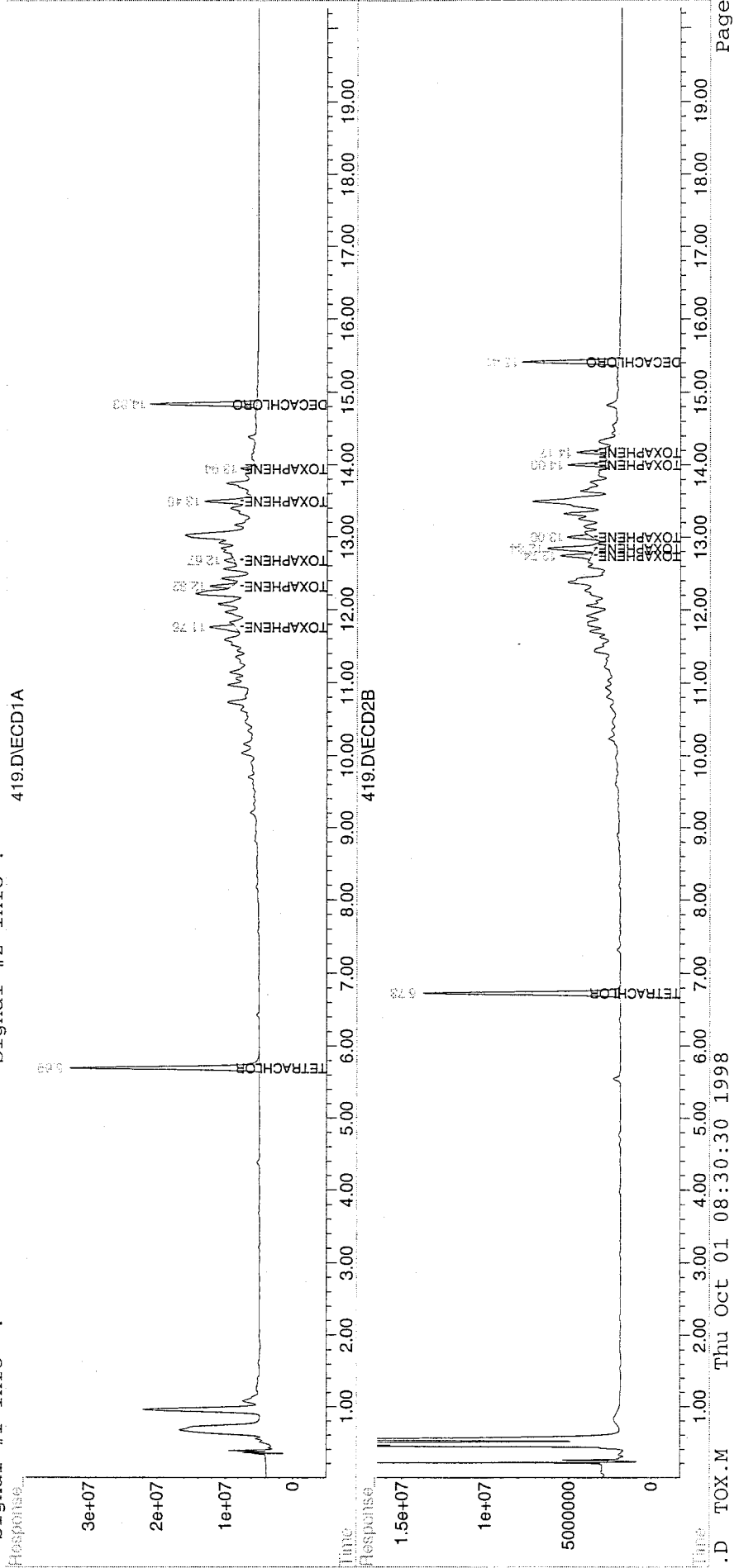
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 Acq On : 10-1-98 4:22:12 Operator: ECL
 Sample : TOXAPHENE 0.5 PPM Inst : GC/MS Ins
 Misc : Multiplr: 1.00
 IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\093098\419.D\ECD2B.CH Vial: 31
 Acq On : 10-1-98 4:47:13 Operator: ECL
 Sample : PESTICIDE 20 PPB Inst : GC/MS Ins
 Misc : Multiplr: 1.00
 IntFile : autoint2.e

Quant Time: Oct 1 8:30 1998 Quant Results File: TOX.RES

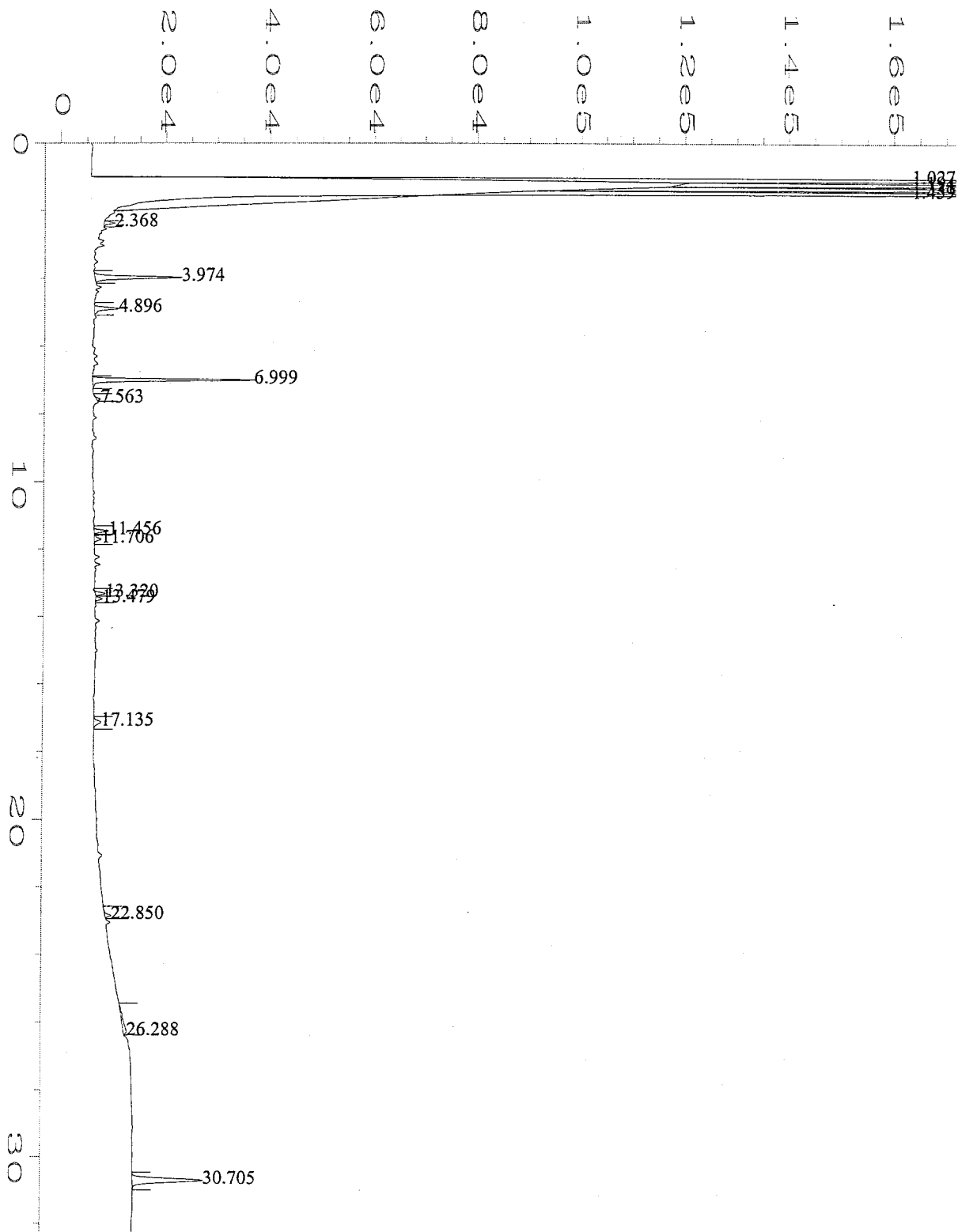
Quant Method : C:\HPCHEM\1\METHODS\TOX.M (Chemstation Integrator)
 Title : TOX
 Last Update : Thu Oct 01 08:22:52 1998
 Response via : Multiple Level Calibration
 DataAcq Meth : 8081.M

Volume Inj. :
 Signal #1 Phase :
 Signal #1 Info :
 Signal #2 Phase :
 Signal #2 Info : 419.D\ECD1A



Raw QC Data

- Method Blank, chromatograms and GC integration reports for each column
- Laboratory Control Sample, chromatograms and GC integration reports for each column
- Matrix Spike/Matrix Spike Duplicate, chromatograms and GC integration reports for each column (if not reported as samples)
- Instrument runlogs
- Extraction bench sheets



Data File Name	: C:\HPCHEM\1\DATA\093098\026F0101.D	Page Number	: 1
Operator	: ECL	Vial Number	: 26
Instrument	: HP4	Injection Number	: 1
Sample Name	: BLANK 101-70	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	1660F.MTH
Acquired on	: 01 Oct 98 04:19 AM	Analysis Method	: 1660F.MTH
Report Created on:	01 Oct 98 02:47 PM	Sample Amount	: 0
Last Recalib on	: 24 SEP 98 09:00 AM	ISTD Amount	:
Multiplier	: 0.33		

External Standard Report

```

Data File Name   : C:\HPCHEM\1\DATA\093098\026F0101.D
Operator        : ECL
Instrument       : HP4
Sample Name     : BLANK 101-70
Run Time Bar Code:
Acquired on     : 01 Oct 98  04:19 AM
Report Created on: 01 Oct 98  02:47 PM
Last Recalib on : 24 SEP 98  09:00 AM
Multiplier     : 0.33
Page Number     : 1
Vial Number     : 26
Injection Number: 1
Sequence Line   : 1
Instrument Method: 1660F.MTH
Analysis Method : 1660F.MTH
Sample Amount   : 0
ISTD Amount     :
  
```

Sig. 1 in C:\HPCHEM\1\DATA\093098\026F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
6.999	132120	BB	0.066	1	4.605	TETRACHLORO-M-XYL
9.360	* not found *			1		PCB1016 #1
10.886	* not found *			1		PCB1016 #2
11.979	* not found *			1		PCB1016 #3
12.222	* not found *			1		PCB1016 #4
14.598	* not found *			1		PCB1016 #5
19.804	* not found *			1		PCB1260 #1
20.187	* not found *			1		PCB1260 #2
21.689	* not found *			1		PCB1260 #3
24.185	* not found *			1		PCB1260 #4
25.889	* not found *			1		PCB1260 #5
30.705	112749	BB	0.130	1	4.975	DECACHLOROBIPHENYL

Not all calibrated peaks were found

Data File : C:\HPCHEM\1\DATA\093098\398.D\ECD1A.CH Vial: 10
 Acq On : 9-30-98 19:40:51 Operator: ECL
 Sample : BLANK 101-70 Inst : GC/MS Ins
 Misc : SOIL Multiplr: 0.33
 IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\093098\398.D\ECD2B.CH Vial: 10
 Acq On : 9-30-98 20:05:51 Operator: ECL
 Sample : BLANK 101-70 Inst : GC/MS Ins
 Misc : SOIL Multiplr: 0.33
 IntFile : autoint2.e

Quant Time: Oct 1 8:34 1998 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
 Title : PEST
 Last Update : Tue Sep 22 08:33:05 1998
 Response via : Initial Calibration
 DataAcq Meth : 8081.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L

System Monitoring Compounds						
1) S TETRACHLORO-M-XY	5.69	6.73	464.0E6	173.7E6	14.516	14.309
Spiked Amount 20.000			Recovery	=	72.58%	71.54%
22) S DECACHLOROBIPHEN	14.83	15.41	279.3E6	110.8E6	19.574	18.865
Spiked Amount 20.000			Recovery	=	97.87%	94.32%
Target Compounds						
2) ALPHA-BHC	0.00	0.00	0	0	N.D.	N.D.
3) GAMMA-BHC	0.00	0.00	0	0	N.D.	N.D.
4) BETA-BHC	8.02	0.00	29899241	0	0.646	N.D. #
5) HEPTACHLOR	8.15f	0.00	36266559	0	0.363	N.D. #
6) DELTA-BHC	0.00	0.00	0	0	N.D.	N.D.
7) ALDRIN	0.00	0.00	0	0	N.D.	N.D.
8) HEPTACHLOR EPOXI	0.00	0.00	0	0	N.D.	N.D.
9) GAMMA CHLORDANE	0.00	0.00	0	0	N.D.	N.D.
10) ALPHA CHLORDANE	0.00	0.00	0	0	N.D.	N.D.
11) ENDOSULFAN I	0.00	0.00	0	0	N.D.	N.D.
12) 4-4' DDE	0.00	0.00	0	0	N.D.	N.D.
13) DIELDRIN	0.00	0.00	0	0	N.D.	N.D.
14) ENDRIN	0.00	0.00	0	0	N.D.	N.D.
15) 4-4' DDD	0.00	12.29	0	8002626	N.D.	0.326 #
16) ENDOSULFAN II	0.00	0.00	0	0	N.D.	N.D.
17) 4-4' DDT	0.00	0.00	0	0	N.D.	N.D.
18) ENDRIN ALDEHYDE	0.00	0.00	0	0	N.D.	N.D.
19) ENDOSULFAN SULFA	0.00	0.00	0	0	N.D.	N.D.
20) METHOXYCHLOR	0.00	0.00	0	0	N.D.	N.D.
21) ENDRIN KETONE	0.00	0.00	0	0	N.D.	N.D.

Page 2

```

Data File      : C:\HPCHEM\1\DATA\093098\398.D\ECD1A.CH
Acq On        : 9-30-98 19:40:51
Sample        : BLANK 101-70
Misc          : SOIL
IntFile       : autoint1.e
              Vial: 10
              Operator: ECL
              Inst  : GC/MS Ins
              Multiplr: 0.33

```

```
Data File      : C:\HPCHEM\1\DATA\093098\398.D\ECD2B.CH
Acq On         : 9-30-98 20:05:51
Sample         : BLANK 101-70
Misc          : SOIL
Vial           : 10
Operator       : ECL
Inst           : GC/MS Ins
Multiplr      : 0.33
```

Quant Time: Oct 1 8:34 1998 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)

Title : PEST

Last Update : Tue Sep 22 08:33:05 1998

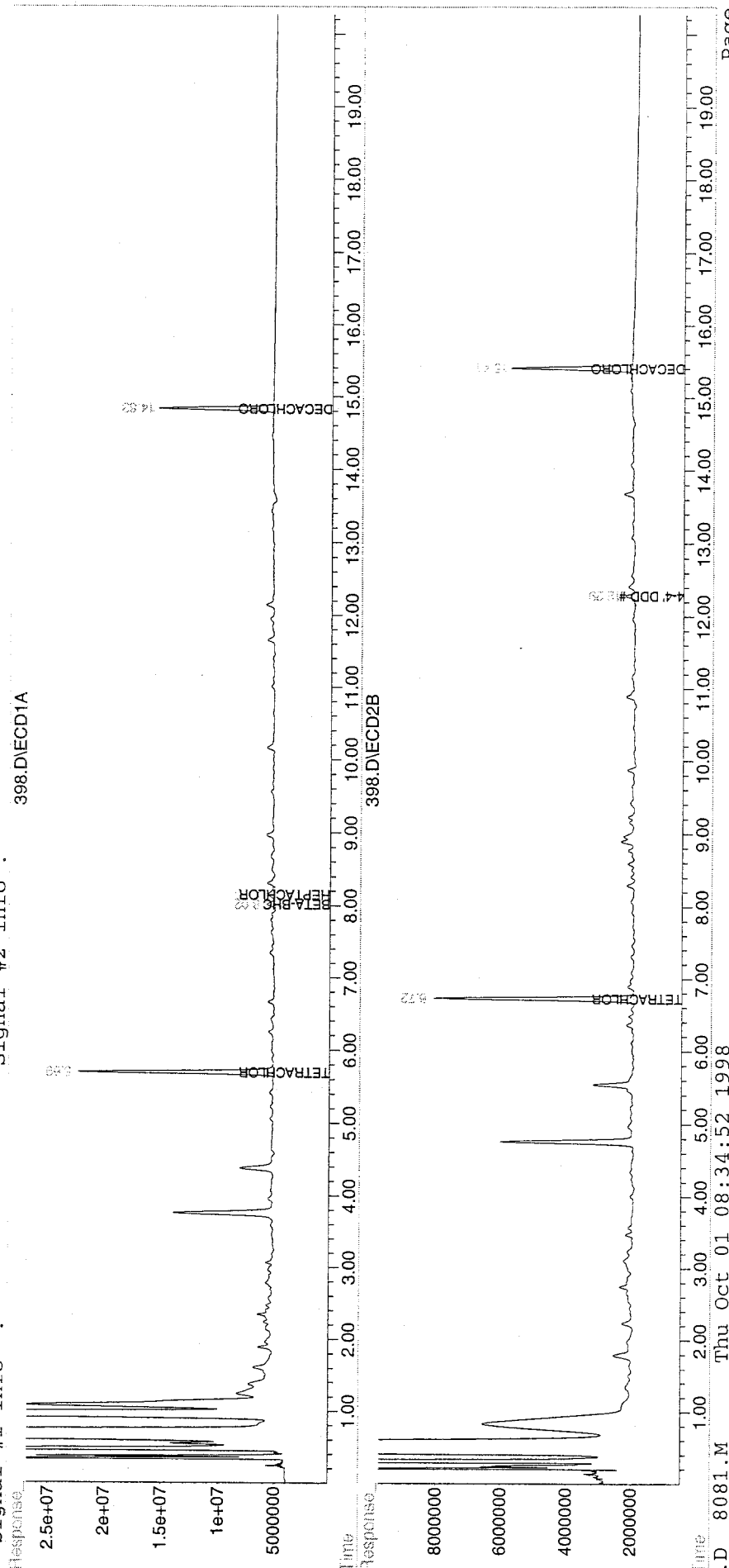
Response via : Multiple Level Calibration

DataAcq Meth : 8081.M

Volume Inj. : :

Signal #1 Phase : Signal #2 Phase:

Signal #1 Info :
Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\093098\399.D\ECD1A.CH Vial: 11
 Acq On : 9-30-98 20:05:51 Operator: ECL
 Sample : LCS 101-70 Inst : GC/MS Ins
 Misc : SOIL Multiplr: 0.33
 IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\093098\399.D\ECD2B.CH Vial: 11
 Acq On : 9-30-98 20:30:42 Operator: ECL
 Sample : BLANK 101-70 Inst : GC/MS Ins
 Misc : SOIL Multiplr: 0.33
 IntFile : autoint2.e

Quant Time: Oct 1 8:35 1998 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
 Title : PEST
 Last Update : Tue Sep 22 08:33:05 1998
 Response via : Initial Calibration
 DataAcq Meth : 8081.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L

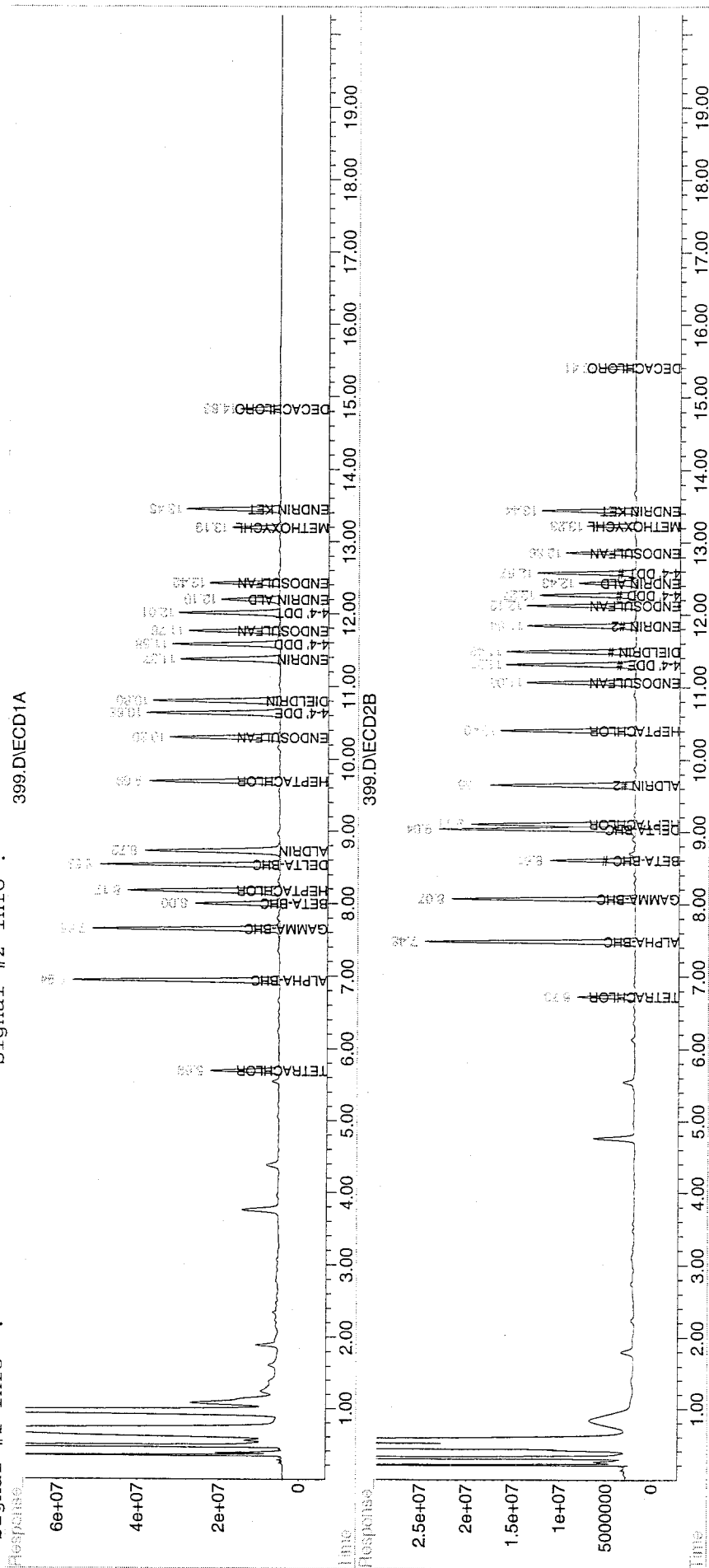
System Monitoring Compounds						
1) S TETRACHLORO-M-XY	5.69	6.73	463.2E6	172.4E6	14.491	14.201
Spiked Amount 20.000			Recovery	=	72.45%	71.01%
22) S DECACHLOROBIPHEN	14.83	15.41	282.7E6	111.7E6	19.809	19.010
Spiked Amount 20.000			Recovery	=	99.05%	95.05%
Target Compounds						
2) ALPHA-BHC	6.94	7.48	1402.4E6	624.5E6	11.272	12.155
3) GAMMA-BHC	7.65	8.07	1328.8E6	544.7E6	12.684	12.582
4) BETA-BHC	8.00	8.61	575.9E6	243.0E6	12.433	12.411
5) HEPTACHLOR	8.18	9.11	1278.0E6	519.4E6	12.790	12.567
6) DELTA-BHC	8.53	9.04	1200.6E6	565.5E6	13.268	13.560
7) ALDRIN	8.72	9.65	1102.2E6	470.1E6	12.600	12.843
8) HEPTACHLOR EPOXI	9.69	10.41	1027.1E6	432.9E6	13.115	13.548
9) GAMMA CHLORDANE	0.00	0.00	0	0	N.D.	N.D.
10) ALPHA CHLORDANE	0.00	0.00	0	0	N.D.	N.D.
11) ENDOSULFAN I	10.30	11.07	865.8E6	363.8E6	12.307	13.095
12) 4-4' DDE	10.63	11.31	952.7E6	401.9E6	13.847	14.410
13) DIELDRIN	10.80	11.49	975.2E6	414.0E6	13.886	14.763
14) ENDRIN	11.37	11.84	771.4E6	341.6E6	13.801	14.484
15) 4-4' DDD	11.58	12.27	754.8E6	294.3E6	13.707	12.002
16) ENDOSULFAN II	11.76	12.12	690.8E6	324.1E6	11.760	14.097
17) 4-4' DDT	12.01	12.58	719.7E6	295.3E6	14.818	13.914
18) ENDRIN ALDEHYDE	12.19	12.43	449.6E6	181.2E6	9.867	10.722
19) ENDOSULFAN SULFA	12.42	12.86	497.7E6	207.9E6	9.543	9.609
20) METHOXYCHLOR	13.19	13.23	343.8E6	149.8E6	15.242	14.941
21) ENDRIN KETONE	13.45	13.44	665.2E6	274.5E6	12.762	11.892

Data File : C:\HPCHEM\1\DATA\093098\399.D\ECD1A.CH Vial: 11
 Acq On : 9-30-98 20:05:51 Operator: ECL
 Sample : LCS 101-70 Inst : GC/MS Ins
 Misc : SOIL Multiplr: 0.33
 IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\093098\399.D\ECD2B.CH Vial: 11
 Acq On : 9-30-98 20:30:42 Operator: ECL
 Sample : BLANK 101-70 Inst : GC/MS Ins
 Misc : SOIL Multiplr: 0.33
 IntFile : autoint2.e
 Quant Time: Oct 1 8:35 1998 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
 Title : PEST
 Last Update : Tue Sep 22 08:33:05 1998
 Response via : Multiple Level Calibration
 DataAcq Meth : 8081.M

Volume Inj. :
 Signal #1 Phase :
 Signal #1 Info :
 Signal #2 Phase :
 Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\093098\404.D\ECD1A.CH Vial: 16
 Acq On : 9-30-98 22:10:02 Operator: ECL
 Sample : 09-522-01 MS Inst : GC/MS Ins
 Misc : SOIL Multiplr: 0.33
 IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\093098\404.D\ECD2B.CH Vial: 16
 Acq On : 9-30-98 22:35:02 Operator: ECL
 Sample : 09-522-01 Inst : GC/MS Ins
 Misc : SOIL Multiplr: 0.33
 IntFile : autoint2.e

Quant Time: Oct 1 8:39 1998 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
 Title : PEST
 Last Update : Tue Sep 22 08:33:05 1998
 Response via : Initial Calibration
 DataAcq Meth : 8081.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L

System Monitoring Compounds						
1) S TETRACHLORO-M-XY	5.69	6.73	449.2E6	169.0E6	14.052	13.924
Spiked Amount 20.000			Recovery	=	70.26%	69.62%
22) S DECACHLOROBIPHEN	14.83	15.41	270.4E6	106.9E6	18.951	18.191
Spiked Amount 20.000			Recovery	=	94.75%	90.95%
Target Compounds						
2) ALPHA-BHC	6.94	7.49	1419.6E6	640.8E6	11.410	12.472
3) GAMMA-BHC	7.65	8.08	1363.1E6	537.4E6	13.011	12.413
4) BETA-BHC	8.00	8.61	616.7E6	253.1E6	13.315	12.925
5) HEPTACHLOR	8.18	9.11	1333.5E6	542.6E6	13.346	13.128
6) DELTA-BHC	8.54	9.04	1230.7E6	588.0E6	13.601	14.097
7) ALDRIN	8.73	9.65	1172.8E6	489.9E6	13.407	13.383
8) HEPTACHLOR EPOXI	9.69	10.41	1060.2E6	447.8E6	13.538	14.017
9) GAMMA CHLORDANE	0.00	0.00	0	0	N.D.	N.D.
10) ALPHA CHLORDANE	0.00	0.00	0	0	N.D.	N.D.
11) ENDOSULFAN I	10.30	11.07	893.3E6	376.0E6	12.698	13.536
12) 4-4' DDE	10.64	11.31	982.2E6	417.4E6	14.277	14.963
13) DIELDRIN	10.80	11.49	1010.0E6	430.5E6	14.383	15.351
14) ENDRIN	11.37	11.85	791.4E6	354.6E6	14.158	15.032
15) 4-4' DDD	11.58	12.27	773.6E6	295.4E6	14.048	12.047
16) ENDOSULFAN II	11.76	12.13	698.2E6	332.5E6	11.885	14.463
17) 4-4' DDT	12.01	12.58	737.6E6	308.8E6	15.185	14.548
18) ENDRIN ALDEHYDE	12.20	12.44	439.6E6	172.5E6	9.648	10.203
19) ENDOSULFAN SULFA	12.42	12.86	483.5E6	204.4E6	9.271	9.447
20) METHOXYCHLOR	13.20	13.24	350.7E6	157.6E6	15.546	15.719
21) ENDRIN KETONE	13.45	13.44	653.3E6	272.6E6	12.534	11.810

Page 2

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Data File      : C:\HPCHEM\1\DATA\093098\404.D\ECD1A.CH
Acq On        : 9-30-98 22:10:02
Sample        :
Misc          : 09-522-01 MS
IntFile       : SOIL
               : autoint1.e
```

Data File : C:\HPCHEM\1\DATA\093098\404.D\ECD2B.CH
Acq On : 9-30-98 22:35:02
Sample :
Misc : 09-522-01
IntFile : SOIL
IntFile : autoint2.e

Quant Time: Oct 1 8:39 1998 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)

Title : PEST

Last Update : Tue Sep 22 08:33:05 1998

Response via : Multiple Level Calibration

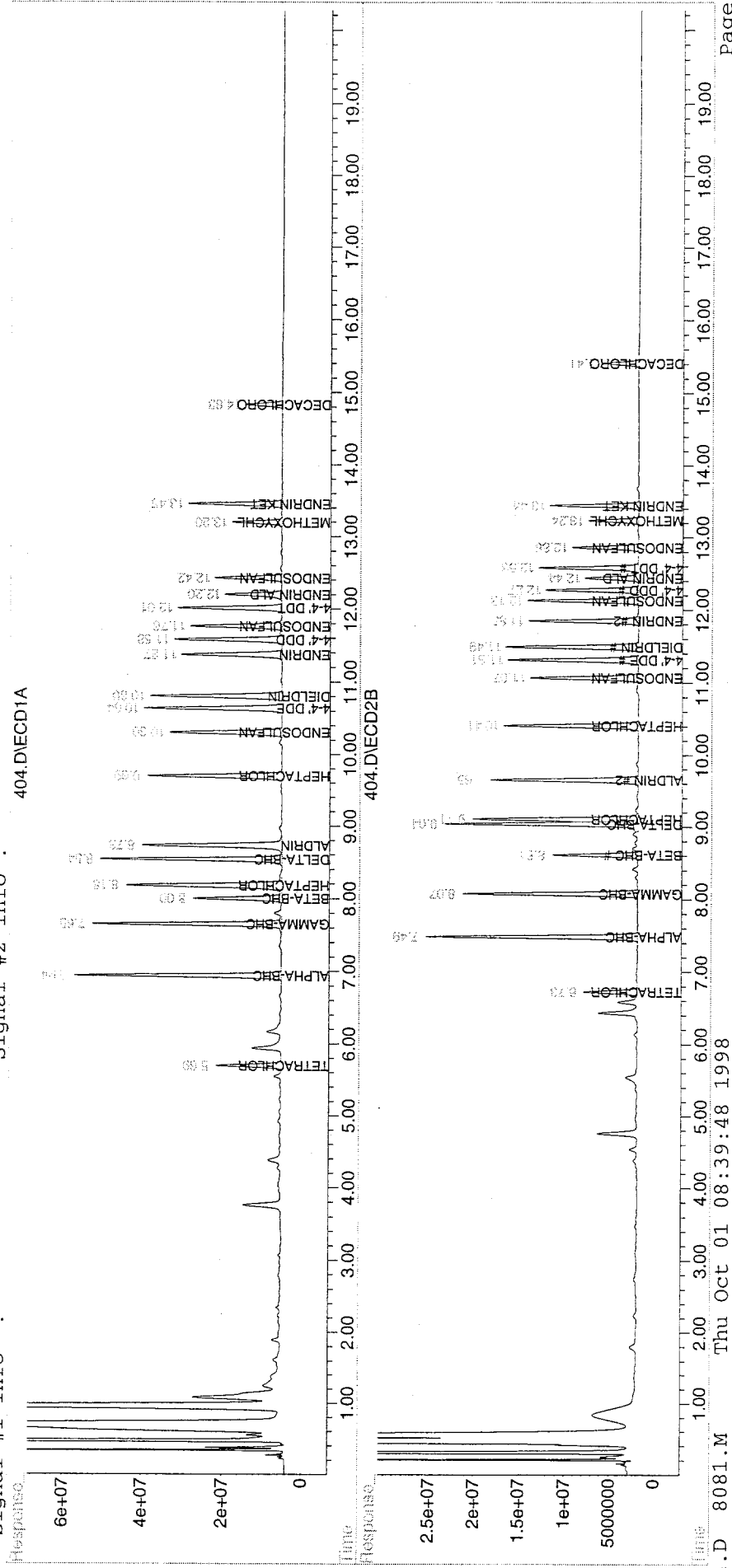
DataAcq Meth : 8081.M

```

Volume Inj.      :
Signal #1 Phase :
Signal #1 Info  :
Signal #2 Phase :
Signal #2 Info  :

```

Signal #2 phase:
Signal #2 Info :



Data File : C:\HPCHEM\1\DATA\093098\405.D\ECD1A.CH Vial: 17
 Acq On : 9-30-98 22:35:02 Operator: ECL
 Sample : 09-522-01 MSD Inst : GC/MS Ins
 Misc : SOIL Multiplr: 0.33
 IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\093098\405.D\ECD2B.CH Vial: 17
 Acq On : 9-30-98 22:59:49 Operator: ECL
 Sample : 09-522-01 MSD Inst : GC/MS Ins
 Misc : SOIL Multiplr: 0.33
 IntFile : autoint2.e

Quant Time: Oct 1 8:40 1998 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
 Title : PEST
 Last Update : Tue Sep 22 08:33:05 1998
 Response via : Initial Calibration
 DataAcq Meth : 8081.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L

System Monitoring Compounds						
1) S TETRACHLORO-M-XY	5.70	6.73	457.8E6	169.2E6	14.320	13.943
Spiked Amount 20.000			Recovery	=	71.60%	69.71%
2) S DECACHLOROBIPHEN	14.83	15.41	268.7E6	109.2E6	18.830	18.594
Spiked Amount 20.000			Recovery	=	94.15%	92.97%
Target Compounds						
2) ALPHA-BHC	6.94	7.48	1595.2E6	704.9E6	12.821	13.719
3) GAMMA-BHC	7.65	8.07	1513.5E6	562.2E6	14.447	12.987
4) BETA-BHC	8.00	8.61	669.9E6	274.3E6	14.464	14.008
5) HEPTACHLOR	8.18	9.11	1469.9E6	585.1E6	14.711	14.157
6) DELTA-BHC	8.54	9.04	1354.1E6	637.5E6	14.965	15.285
7) ALDRIN	8.73	9.65	1288.6E6	535.3E6	14.731	14.623
8) HEPTACHLOR EPOXI	9.70	10.41	1177.9E6	495.9E6	15.041	15.522
9) GAMMA CHLORDANE	0.00	0.00	0	0	N.D.	N.D.
10) ALPHA CHLORDANE	0.00	0.00	0	0	N.D.	N.D.
11) ENDOSULFAN I	10.30	11.07	987.6E6	410.3E6	14.037	14.769
12) 4-4' DDE	10.64	11.31	1080.0E6	463.0E6	15.698	16.598
13) DIELDRIN	10.81	11.49	1111.6E6	476.3E6	15.829	16.983
14) ENDRIN	11.38	11.84	885.5E6	393.5E6	15.842	16.682
15) 4-4' DDD	11.58	12.27	854.2E6	333.4E6	15.511	13.597
16) ENDOSULFAN II	11.76	12.13	780.9E6	366.2E6	13.293	15.932
17) 4-4' DDT	12.01	12.58	815.2E6	343.5E6	16.784	16.182
18) ENDRIN ALDEHYDE	12.20	12.44	527.4E6	211.6E6	11.575	12.521
19) ENDOSULFAN SULFA	12.43	12.86	570.1E6	242.8E6	10.932	11.221
20) METHOXYCHLOR	13.20	13.23	388.1E6	175.8E6	17.205	17.536
21) ENDRIN KETONE	13.45	13.44	736.9E6	310.9E6	14.138	13.470

Page 2

```
Vial: 17
Factor: ECI
      : GC/
iplr: 0.3
```

Vial: 17
Operator: ECL
Inst : GC/MS Ins
Multiplr: 0.33

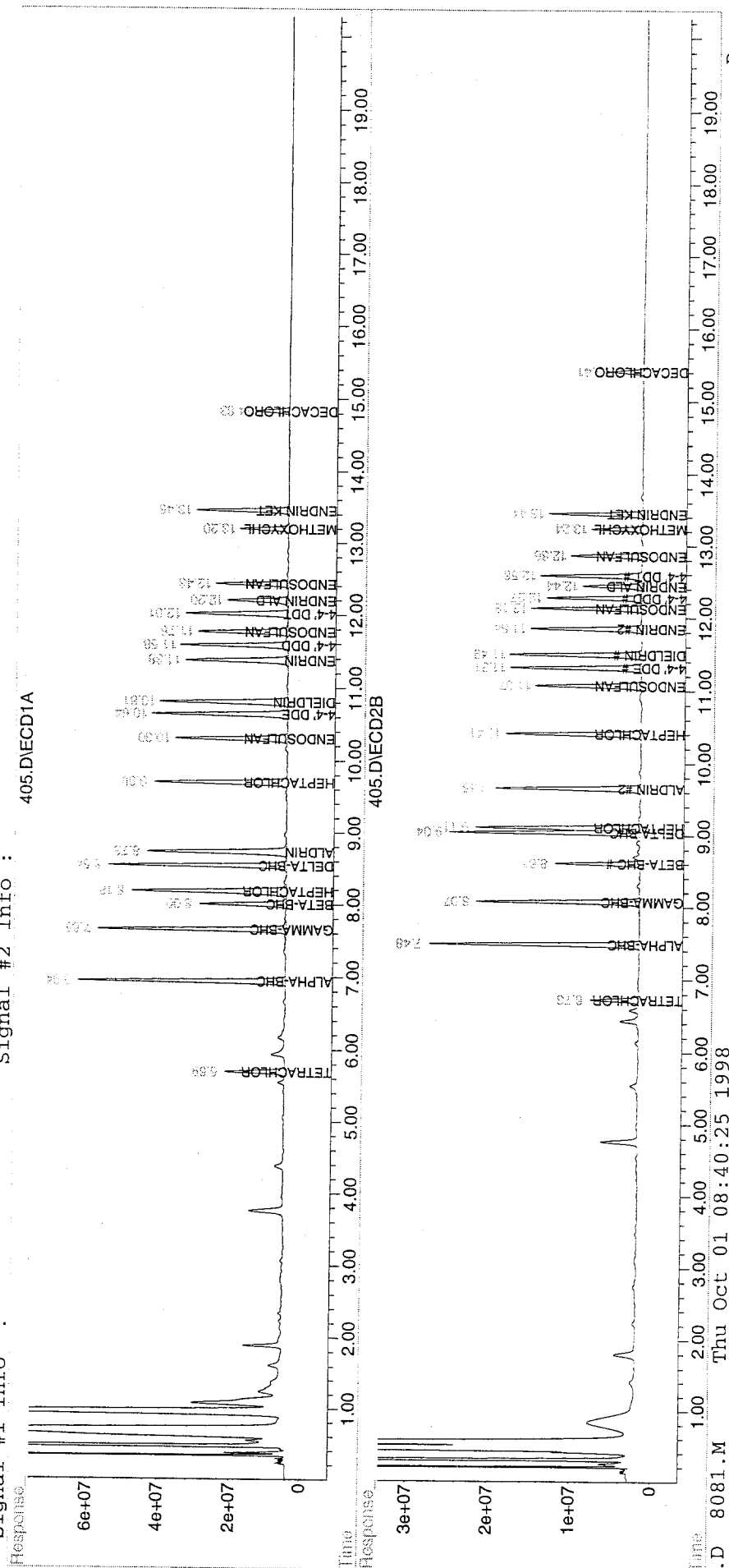
Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)

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Last Update      : Tue Sep 22 08:33:05 1998
Response via     : Multiple Level Calibration
DataAcq Meth    : 8081.M

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Volume Inj.	:				
Signal #1 Phase :	:		Signal #2 Phase:		
Signal #1 Info :	:		Signal #2 Info :		



ENDRIN/ 4-4' DDT BREAKDOWN

HP9

COLUMN: DB 17MS (FRONT)

Data File Name: 330.D

ENDRIN	ENDRIN ALDEHYDE	ENDRIN KETONE	ENDRIN BREAKDOWN
7.7E+008	45515353	44384242	10.40 %
4-4' DDT	4-4' DDE	4-4' DDD	4-4' DDT BREAKDOWN
6.3E+008	0	42642852	6.35

COLUMN: DB XLB (REAR)

ENDRIN #2	ENDRIN ALDEHYDE #2	ENDRIN KETONE #2	ENDRIN #2 BREAKDOWN
3.8E+008	16695757	14751978	7.68
4-4' DDT #2	4-4' DDE #2	4-4' DDD #2	4-4' DDT #2 BREAKDOWN
3.1E+008	0	0	0.00

Data File : C:\HPCHEM\1\DATA\092198\330.D\ECD1A.CH Vial: 2
 Acq On : 9-21-98 11:55:19 Operator: ECL
 Sample : ENDRIN/DDT BREAKDOWN Inst : GC/MS Ins
 Misc : Multiplr: 1.00
 IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\092198\330.D\ECD2B.CH Vial: 2
 Acq On : 9-21-98 12:20:15 Operator: ECL
 Sample : ENDRIN/DDT BREAKDOWN Inst : GC/MS Ins
 Misc : Multiplr: 1.00
 IntFile : autoint2.e

Quant Time: Sep 21 13:53 1998 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
 Title : PEST
 Last Update : Fri Sep 18 13:07:40 1998
 Response via : Initial Calibration
 DataAcq Meth : 8081.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L

System Monitoring Compounds						
1) S TETRACHLORO-M-XY	0.00	0.00	0	0	N.D.	N.D.
Spiked Amount 20.000			Recovery	=	0.00%	0.00%
22) S DECACHLOROBIPHEN	0.00	0.00	0	0	N.D.	N.D.
Spiked Amount 20.000			Recovery	=	0.00%	0.00%
Target Compounds						
2) ALPHA-BHC	0.00	0.00	0	0	N.D.	N.D.
3) GAMMA-BHC	0.00	0.00	0	0	N.D.	N.D.
4) BETA-BHC	0.00	0.00	0	0	N.D.	N.D.
5) HEPTACHLOR	8.18	0.00	15949328	0	0.405	N.D. #
6) DELTA-BHC	0.00	0.00	0	0	N.D.	N.D.
7) ALDRIN	0.00	0.00	0	0	N.D.	N.D.
8) HEPTACHLOR EPOXI	0.00	0.00	0	0	N.D.	N.D.
9) GAMMA CHLORDANE	0.00	0.00	0	0	N.D.	N.D.
10) ALPHA CHLORDANE	0.00	0.00	0	0	N.D.	N.D.
11) ENDOSULFAN I	0.00	0.00	0	0	N.D.	N.D.
12) 4-4' DDE	0.00	0.00	0	0	N.D.	N.D.
13) DIELDRIN	0.00	0.00	0	0	N.D.	N.D.
14) ENDRIN	11.38	11.85	774.9E6	378.2E6	33.614	40.539
15) 4-4' DDD	11.59	0.00	42642852	0	1.862	N.D. #
16) ENDOSULFAN II	0.00	12.13	0	21155332	N.D.	2.041 #
17) 4-4' DDT	12.02	12.58	628.6E6	307.3E6	30.442	35.695
18) ENDRIN ALDEHYDE	12.21	12.44	45515353	16695757	2.377	1.916
19) ENDOSULFAN SULFA	0.00	0.00	0	0	N.D.	N.D.
20) METHOXYCHLOR	0.00	0.00	0	0	N.D.	N.D.
21) ENDRIN KETONE	13.46	13.45	44384242	14751978	1.943	1.350 #

Quantitation Report

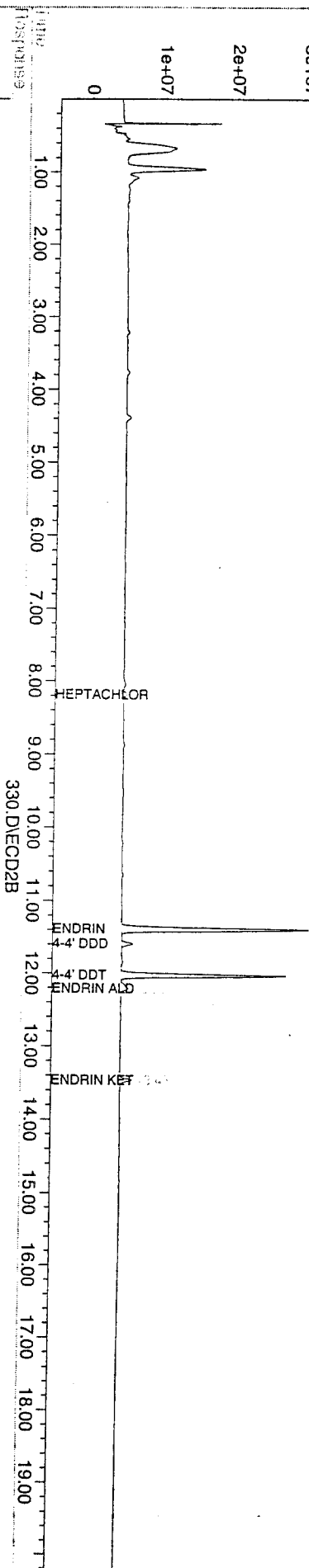
Data File : C:\HPCHEM\1\DATA\092198\330.D\ECD1A.CH Vial: 2
 Acq On : 9-21-98 11:55:19 Operator: ECL
 Sample : ENDRIN/DDT BREAKDOWN Inst : GC/MS Ins
 Misc : Multiplr: 1.00
 IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\092198\330.D\ECD2B.CH Vial: 2
 Acq On : 9-21-98 12:20:15 Operator: ECL
 Sample : ENDRIN/DDT BREAKDOWN Inst : GC/MS Ins
 Misc : Multiplr: 1.00
 IntFile : autoint2.e
 Quant Time: Sep 21 13:53 1998 Quant Results File: 8081.RES

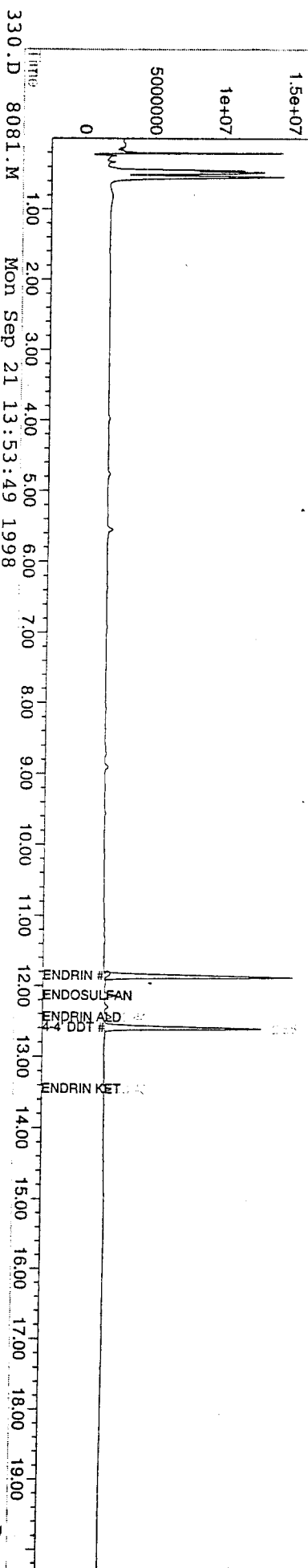
Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
 Title : PEST
 Last Update : Fri Sep 18 13:07:40 1998
 Response via : Multiple Level Calibration
 DataAcq Meth : 8081.M

Volume Inj. :
 Signal #1 Phase :
 Signal #1 Info :
 Signal #2 Phase :
 Signal #2 Info :

330.D\ECD1A



330.D\ECD2B



330.D 8081.M

Mon Sep 21 13:53:49 1998

ENDRIN/ 4-4' DDT BREAKDOWN

HP9

COLUMN: DB 17MS (FRONT)

Data File Name: 390.D

ENDRIN	ENDRIN ALDEHYDE	ENDRIN KETONE	ENDRIN BREAKDOWN
9.4E+008	64217726	72645790	12.67 %
4-4' DDT	4-4' DDE	4-4' DDD	4-4' DDT BREAKDOWN
7.5E+008	0	68911989	8.40

COLUMN: DB XLB (REAR)

ENDRIN #2	ENDRIN ALDEHYDE #2	ENDRIN KETONE #2	ENDRIN #2 BREAKDOWN
4.4E+008	21442471	20716249	8.77
4-4' DDT #2	4-4' DDE #2	4-4' DDD #2	4-4' DDT #2 BREAKDOWN
3.3E+008	0	0	0.00

Data File : C:\HPCHEM\1\DATA\093098\390.D\ECD1A.CH Vial: 2
 Acq On : 9-30-98 15:01:54 Operator: ECL
 Sample : ENDRIN/DDT BREAKDOWN Inst : GC/MS Ins
 Misc : Multiplr: 1.00
 IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\093098\390.D\ECD2B.CH Vial: 2
 Acq On : 9-30-98 15:26:42 Operator: ECL
 Sample : ENDRIN/DDT BREAKDOWN Inst : GC/MS Ins
 Misc : Multiplr: 1.00
 IntFile : autoint2.e

Quant Time: Sep 30 16:12 1998 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
 Title : PEST
 Last Update : Tue Sep 22 08:33:05 1998
 Response via : Initial Calibration
 DataAcq Meth : 8081.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L

System Monitoring Compounds						
1) S TETRACHLORO-M-XY	0.00	0.00	0	0	N.D.	N.D.
Spiked Amount 20.000			Recovery	=	0.00%	0.00%
22) S DECACHLOROBIPHEN	0.00	0.00	0	0	N.D.	N.D.
Spiked Amount 20.000			Recovery	=	0.00%	0.00%
Target Compounds						
2) ALPHA-BHC	0.00	0.00	0	0	N.D.	N.D.
3) GAMMA-BHC	0.00	0.00	0	0	N.D.	N.D.
4) BETA-BHC	0.00	0.00	0	0	N.D.	N.D.
5) HEPTACHLOR	8.16	0.00	14973816	0	0.454	N.D. #
6) DELTA-BHC	0.00	0.00	0	0	N.D.	N.D.
7) ALDRIN	0.00	0.00	0	0	N.D.	N.D.
8) HEPTACHLOR EPOXI	0.00	0.00	0	0	N.D.	N.D.
9) GAMMA CHLORDANE	0.00	0.00	0	0	N.D.	N.D.
10) ALPHA CHLORDANE	0.00	0.00	0	0	N.D.	N.D.
11) ENDOSULFAN I	0.00	0.00	0	0	N.D.	N.D.
12) 4-4' DDE	0.00	0.00	0	0	N.D.	N.D.
13) DIELDRIN	0.00	0.00	0	0	N.D.	N.D.
14) ENDRIN	11.37	11.84	943.0E6	438.6E6	51.126	56.353
15) 4-4' DDD	11.58	0.00	68911989	0	3.792	N.D. #
16) ENDOSULFAN II	0.00	12.13	0	29845517	N.D.	3.934 #
17) 4-4' DDT	12.01	12.58	751.8E6	331.2E6	46.902	47.282
18) ENDRIN ALDEHYDE	12.19	12.43	64217726	21442471	4.271	3.844
19) ENDOSULFAN SULFA	0.00	0.00	0	0	N.D.	N.D.
20) METHOXYCHLOR	0.00	0.00	0	0	N.D.	N.D.
21) ENDRIN KETONE	13.45	13.44	72645790	20716249	4.223	2.720 #

Page 2

```
Data File      : C:\HPCHEM\1\DATA\093098\390.D\ECD1A.CH
Acq On        : 9-30-98 15:01:54
Sample        : ENDRIN/DDT BREAKDOWN
Misc          :
IntFile       : autoint1.e
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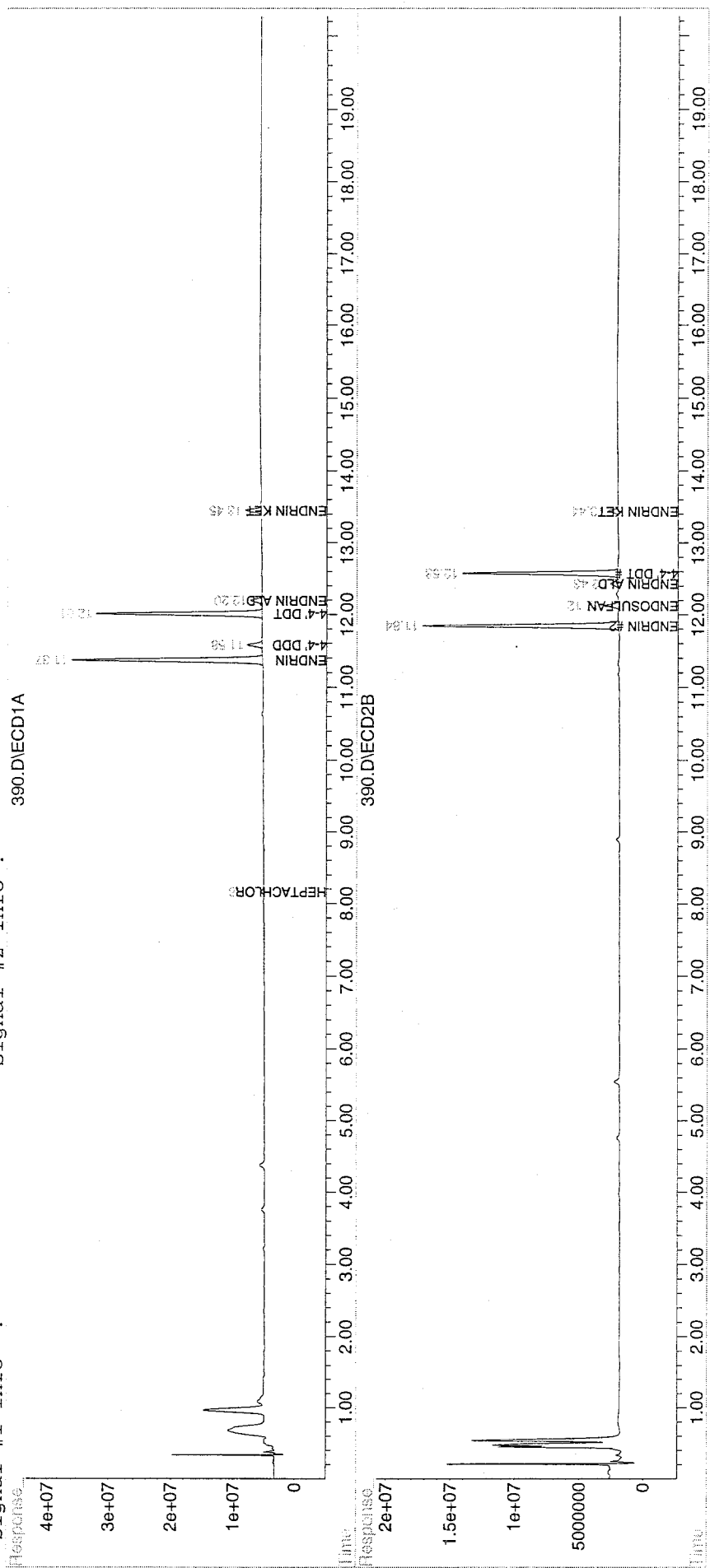
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Acq On : 9-30-98 15:26:42
Sample : ENDRIN/DDT BREAKDOWN
Misc :
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Quant Time: Sep 30 16:12 1998 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)

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Title : PEST
Last Update : Tue Sep 22 08:33:05 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M
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Volume Inj.	:		
Signal #1 Phase :		Signal #2 Phase:	
Signal #1 Info :		Signal #2 Info :	



ENDRIN/ 4-4' DDT BREAKDOWN

HP9

COLUMN: DB 17MS (FRONT)

Data File Name: 408.D

ENDRIN	ENDRIN ALDEHYDE	ENDRIN KETONE	ENDRIN BREAKDOWN
8.6E+008	93553592	1E+008	18.56 %
4-4' DDT	4-4' DDE	4-4' DDD	4-4' DDT BREAKDOWN
7.1E+008	0	83397144	10.45

COLUMN: DB XLB (REAR)

ENDRIN #2	ENDRIN ALDEHYDE #2	ENDRIN KETONE #2	ENDRIN #2 BREAKDOWN
4E+008	23681574	40536735	13.97
4-4' DDT #2	4-4' DDE #2	4-4' DDD #2	4-4' DDT #2 BREAKDOWN
3E+008	0	0	0.00

Data File : C:\HPCHEM\1\DATA\093098\408.D\ECD1A.CH Vial: 20
 Acq On : 9-30-98 23:49:33 Operator: ECL
 Sample : ENDRIN/DDT BREAKDOWN Inst : GC/MS Ins
 Misc : Multiplr: 1.00
 IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\093098\408.D\ECD2B.CH Vial: 20
 Acq On : 10-1-98 00:14:17 Operator: ECL
 Sample : 09-522-03 Inst : GC/MS Ins
 Misc : Multiplr: 1.00
 IntFile : autoint2.e

Quant Time: Oct 1 8:31 1998 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
 Title : PEST
 Last Update : Tue Sep 22 08:33:05 1998
 Response via : Initial Calibration
 DataAcq Meth : 8081.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L

System Monitoring Compounds						
1) S TETRACHLORO-M-XY	0.00	0.00	0	0	N.D.	N.D.
Spiked Amount 20.000			Recovery	=	0.00%	0.00%
2) S DECACHLOROBIPHEN	0.00	0.00	0	0	N.D.	N.D.
Spiked Amount 20.000			Recovery	=	0.00%	0.00%
Target Compounds						
2) ALPHA-BHC	0.00	0.00	0	0	N.D.	N.D.
3) GAMMA-BHC	0.00	0.00	0	0	N.D.	N.D.
4) BETA-BHC	0.00	0.00	0	0	N.D.	N.D.
5) HEPTACHLOR	8.17	0.00	15001092	0	0.455	N.D. #
6) DELTA-BHC	0.00	0.00	0	0	N.D.	N.D.
7) ALDRIN	0.00	0.00	0	0	N.D.	N.D.
8) HEPTACHLOR EPOXI	0.00	0.00	0	0	N.D.	N.D.
9) GAMMA CHLORDANE	0.00	0.00	0	0	N.D.	N.D.
10) ALPHA CHLORDANE	0.00	0.00	0	0	N.D.	N.D.
11) ENDOSULFAN I	0.00	0.00	0	0	N.D.	N.D.
12) 4-4' DDE	0.00	0.00	0	0	N.D.	N.D.
13) DIELDRIN	0.00	0.00	0	0	N.D.	N.D.
14) ENDRIN	11.38	11.85	862.7E6	395.5E6	46.770	50.818
15) 4-4' DDD	11.58	0.00	83397144	0	4.589	N.D. #
16) ENDOSULFAN II	0.00	12.13	0	38965274	N.D.	5.136 #
17) 4-4' DDT	12.01	12.58	714.9E6	303.2E6	44.602	43.288
18) ENDRIN ALDEHYDE	12.20	12.44	93553592	23681574	6.222	4.245 #
19) ENDOSULFAN SULFA	0.00	0.00	0	0	N.D.	N.D.
20) METHOXYCHLOR	0.00	0.00	0	0	N.D.	N.D.
21) ENDRIN KETONE	13.45	13.45	103.0E6	40536735	5.989	5.322

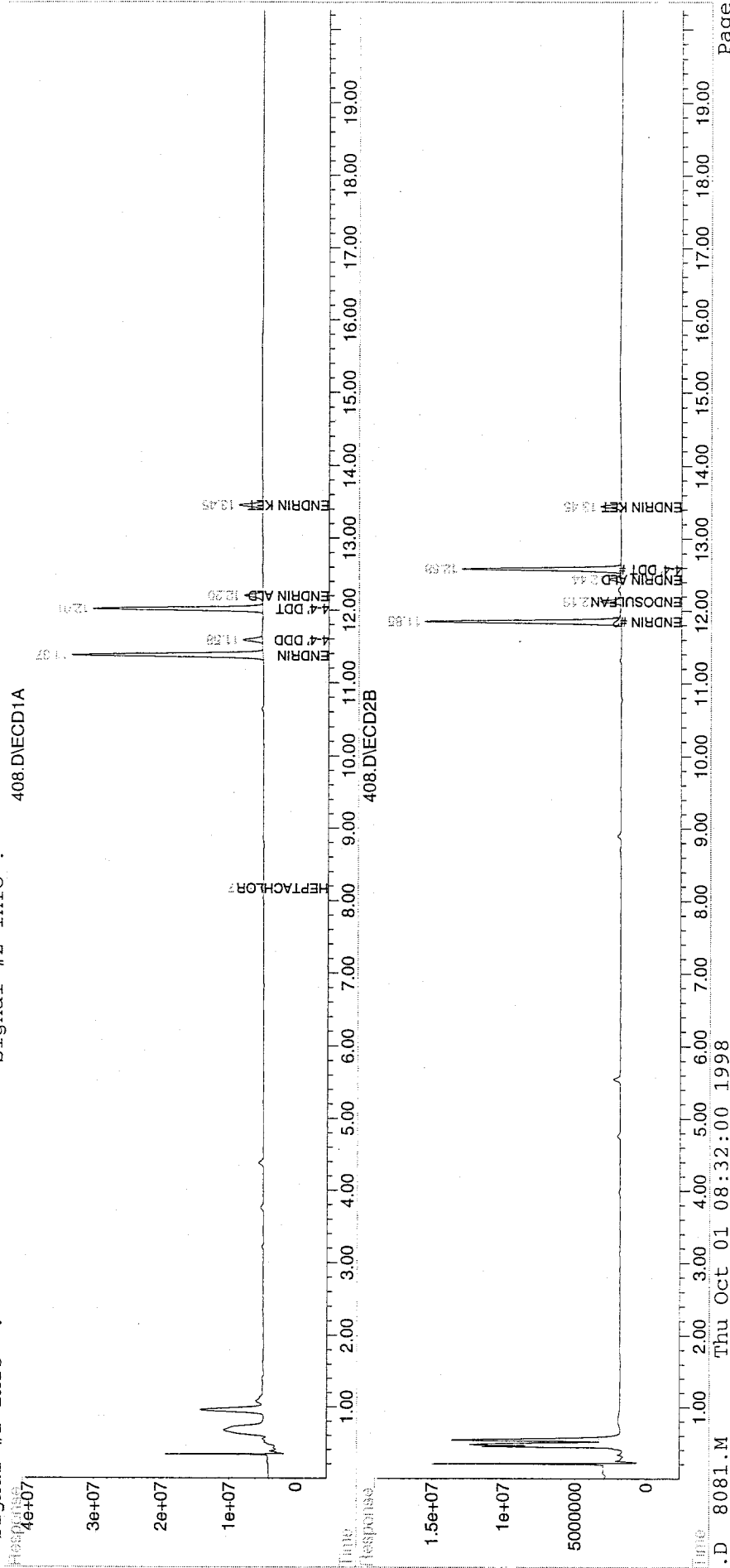
Quantitation Report

Data File : C:\HPCHEM\1\DATA\093098\408.D\ECD1A.CH Vial: 20
Acq On : 9-30-98 23:49:33 Operator: ECL
Sample : ENDRIN/DDT BREAKDOWN Inst : GC/MS Ins
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\093098\408.D\ECD2B.CH Vial: 20
Acq On : 10-1-98 00:14:17 Operator: ECL
Sample : 09-522-03 Inst : GC/MS Ins
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: Oct 1 8:31 1998 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : PEST
Last Update : Tue Sep 22 08:33:05 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase :
Signal #1 Info : Signal #2 Info :



ENDRIN/ 4-4' DDT BREAKDOWN

HP9

COLUMN: DB 17MS (FRONT)

Data File Name: 417.D

ENDRIN	ENDRIN ALDEHYDE	ENDRIN KETONE	ENDRIN BREAKDOWN
8.4E+008	1.2E+008	1.2E+008	22.14 %
4-4' DDT	4-4' DDE	4-4' DDD	4-4' DDT BREAKDOWN
7.2E+008	0	91198852	11.23

COLUMN: DB XLB (REAR)

ENDRIN #2	ENDRIN ALDEHYDE #2	ENDRIN KETONE #2	ENDRIN #2 BREAKDOWN
3.9E+008	26737536	43730842	15.26
4-4' DDT #2	4-4' DDE #2	4-4' DDD #2	4-4' DDT #2 BREAKDOWN
3E+008	0	7148828	2.31

Data File : C:\HPCHEM\1\DATA\093098\417.D\ECD1A.CH Vial: 29
 Acq On : 10-1-98 3:32:44 Operator: ECL
 Sample : ENDRIN/DDT BREAKDOWN Inst : GC/MS Ins
 Misc : Multiplr: 1.00
 IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\093098\417.D\ECD2B.CH Vial: 29
 Acq On : 10-1-98 3:57:30 Operator: ECL
 Sample : 09-522-09 Inst : GC/MS Ins
 Misc : Multiplr: 1.00
 IntFile : autoint2.e
 Quant Time: Oct 1 8:32 1998 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
 Title : PEST
 Last Update : Tue Sep 22 08:33:05 1998
 Response via : Initial Calibration
 DataAcq Meth : 8081.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	UG/L	UG/L

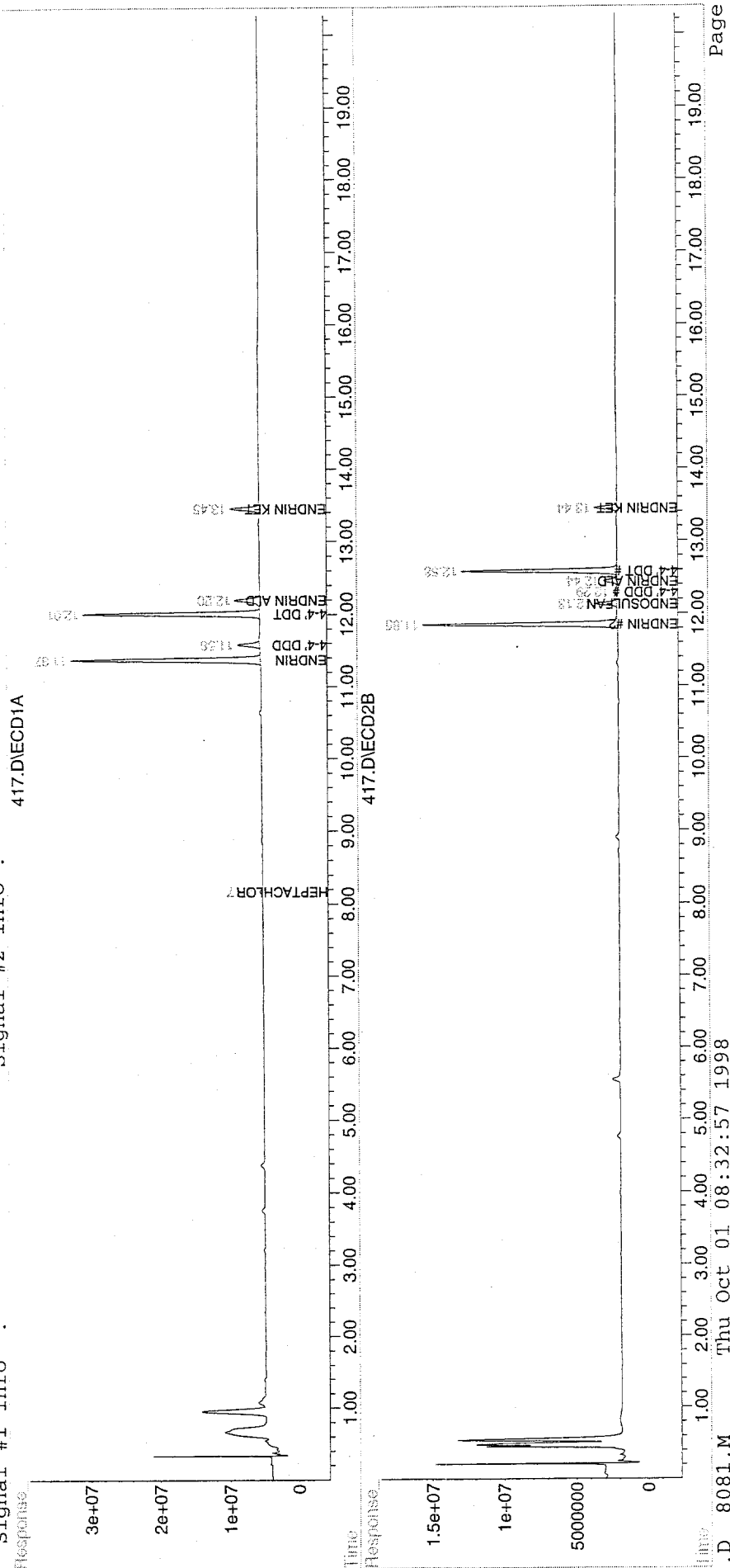
System Monitoring Compounds						
1) S TETRACHLORO-M-XY	0.00	0.00	0	0	N.D.	N.D.
Spiked Amount 20.000			Recovery	=	0.00%	0.00%
22) S DECACHLOROBIPHEN	0.00	0.00	0	0	N.D.	N.D.
Spiked Amount 20.000			Recovery	=	0.00%	0.00%
Target Compounds						
2) ALPHA-BHC	0.00	0.00	0	0	N.D.	N.D.
3) GAMMA-BHC	0.00	0.00	0	0	N.D.	N.D.
4) BETA-BHC	0.00	0.00	0	0	N.D.	N.D.
5) HEPTACHLOR	8.17	0.00	14135084	0	0.429	N.D. #
6) DELTA-BHC	0.00	0.00	0	0	N.D.	N.D.
7) ALDRIN	0.00	0.00	0	0	N.D.	N.D.
8) HEPTACHLOR EPOXI	0.00	0.00	0	0	N.D.	N.D.
9) GAMMA CHLORDANE	0.00	0.00	0	0	N.D.	N.D.
10) ALPHA CHLORDANE	0.00	0.00	0	0	N.D.	N.D.
11) ENDOSULFAN I	0.00	0.00	0	0	N.D.	N.D.
12) 4-4' DDE	0.00	0.00	0	0	N.D.	N.D.
13) DIELDRIN	0.00	0.00	0	0	N.D.	N.D.
14) ENDRIN	11.37	11.85	841.3E6	391.2E6	45.610	50.257
15) 4-4' DDD	11.58	12.29	91198852	7148828	5.019	0.883 #
16) ENDOSULFAN II	0.00	12.13	0	41017679	N.D.	5.407 #
17) 4-4' DDT	12.01	12.58	721.2E6	302.7E6	44.995	43.214
18) ENDRIN ALDEHYDE	12.20	12.44	121.0E6	26737536	8.046	4.793 #
19) ENDOSULFAN SULFA	0.00	0.00	0	0	N.D.	N.D.
20) METHOXYCHLOR	0.00	0.00	0	0	N.D.	N.D.
21) ENDRIN KETONE	13.45	13.45	118.3E6	43730842	6.879	5.742

Data File : C:\HPCHEM\1\DATA\093098\417.D\ECD1A.CH Vial: 29
Acq On : 10-1-98 3:32:44 Operator: ECL
Sample : ENDRIN/DDT BREAKDOWN Inst : GC/MS Ins
Misc : Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\093098\417.D\ECD2B.CH Vial: 29
Acq On : 10-1-98 3:57:30 Operator: ECL
Sample : 09-522-09 Inst : GC/MS Ins
Misc : Multiplr: 1.00
IntFile : autoint2.e
Quant Time: Oct 1 8:32 1998 Quant Results File: 8081.RES

Quant Method : C:\HPCHEM\1\METHODS\8081.M (Chemstation Integrator)
Title : PEST
Last Update : Tue Sep 22 08:33:05 1998
Response via : Multiple Level Calibration
DataAcq Meth : 8081.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Percent Solids Determination Log

