U.S. Environmental Protection Agency Region V

Superfund Document Management System (SDMS)

Lab Data Reference Sheet

Please contact the Superfund Records Manager for further information.

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ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 5
230 South Dearborn Street
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO.: 935V01
PROJECT NAME: S.E. Rockford
SAMPLERS: (Signature) Scott T. Prince

SF 1077

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOA						REMARKS Tag #s
D09	1/6/93	1120		X	BH3C Duplicate	3	X						016263 - 016265
S19	1/6/93	1120		X	BH3C Sample	3	X						016260 - 016262
R13	1/6/93			X	Trip Blank	3	X						016257 - 016259
S20	1/6/93	1503		X	BH3D Sample	3	X						016254 - 016256

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Scott T. Prince	1/6/93 1715				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) Sylvia Griffin	Date / Time 1-07-93 11:00 AM	Remarks Fed. ex. # 5454742086 Chain of Custody #s 178019, 178020	Ship To: CRL 536 S. Clark ST, Chicago IL. 60605 ATTN: Bill Sargent

Distribution: White — Accompanies Shipment; Pink — Coordinator Field Files; Yellow — Laboratory File

5- 07212

TFA 301

D930001077

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: TOXIC SUBSTANCES

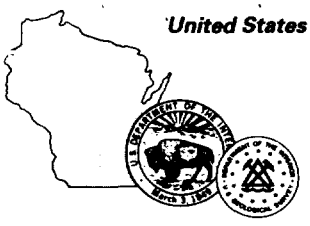
DIVISION/BRANCH Superfund SAMPLE DATE 01-06-93 LAB ARRIVAL DATE 01-07-93 DUE DATE 01-28-93

DU NUMBER TFA DATA SET NUMBER 1077 STUDY S.E. Rockford PRIORITY — CONTRACTOR

CRL LOG NUMBER	SAMPLE DESCRIPTION TAG #s	WATER VOLATILE ORGANICS SCAN UG/L TOX 17664	WATER ABN ORGANICS SCAN UG/L TOX 17674	SEDIMENTS SOLIDS VOLATILE ORGANICS SCAN MG/KG (DRY) TOX 215622	SEDIMENTS SOLIDS ABN ORGANICS SCAN MG/KG (DRY) TOX 215722
93SV01 D09	016263-016265	X			
93SV01 S19	016260-016262	X			
93SV01 R13	016257-016259	X			
93SV01 S20	016254-016256	X			

JAMES M. RAUMAN
Hydrologic Technician

Please Return
Cover TO



United States Department of the Interior
U.S. Geological Survey
Water Resources Division

6417 Normandy Lane
Madison, WI 53719

(608) 276-3856
Fax: (608) 276-3817
District: (608) 274-3535

U.S. Environmental Protection Agency Region V

Superfund Document Management System (SDMS)

Lab Data Reference Sheet

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ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 5
230 South Dearborn Street
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO.: 93SY01
PROJECT NAME: S.E. Rockford
SAMPLERS: (Signature) Scott T. Prince

D930001077

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOA						REMARKS Tag #s
S18	1/5/93			X	BH3B (MS, MSD)	~~6~~ 9 STP	X						016238 - 016246
~~D09~~	~~1/5/93~~			~~X~~	~~BH3B~~	~~3~~							~~016247 - 016249~~ NOT Needed STP
R12	1/5/93			X	Trip Blank	3	X						016326 - 016328

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Scott T. Prince	01/05/93 1740 ~~01/06~~ STP				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
		[illegible]			
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	
		[illegible]	1/6/93 10:55	Fed. ex. # 5454742090 Chain of Custody #s 178024, 178023	Ship To CRL 536 S. Clark St Chicago IL. 60605 ATTN. Bill Sargent

Distribution: White — Accompanies Shipment; Pink — Coordinator Field Files; Yellow — Laboratory File

5- 07215

D930001077 TFA301

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: TOXIC SUBSTANCES

DIVISION/BRANCH Superfund SAMPLE DATE 1-5-93 LAB ARRIVAL DATE 1-6-93 DUE DATE 1-27-93

DU NUMBER TFA DATA SET NUMBER 1077 STUDY S. E. ROCKFORD PRIORITY N CONTRACTOR

CRL LOG NUMBER 933101	SAMPLE DESCRIPTION	WATER VOLATILE ORGANICS SCAN UG/L TOX 17664	WATER ABN ORGANICS SCAN UG/L TOX 17674	SEDIMENTS SOLIDS VOLATILE ORGANICS SCAN MG/KG (DRY) TOX 215622	SEDIMENTS SOLIDS ABN ORGANICS SCAN MG/KG (DRY) TOX 215722
518	5-016238-016246	X			
512	5-016326-016328	X			

U.S. Environmental Protection Agency Region V

Superfund Document Management System (SDMS)

Lab Data Reference Sheet

Please contact the Superfund Records Manager for further information.

I. Unscannable item due to format

___ Graph

X Mail receipts

___ Sample tags

II. Image Quality (Pages follow / No. of pages ____)

___ Resolution / Contrast

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 5
230 South Dearborn Street
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO.: 93SV01
PROJECT NAME: S.E. Rockford
SAMPLERS: (Signature) Scott Z. Primor

D93008 1077

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOA						REMARKS
													Tag #s
R 11	01/04/93	1630		X	Trip Blank	3	X						016235-016237
S17	01/04/93	1630		X	BH3A	3	X						016232-016234

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Scott Z. Primor	01/04/93 1800				
Relinquished by: (Signature)	Date / Time	Received by: (Signature) Adenus D Maris	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) Adenus D Maris	Date / Time 1/6/93 9:00	Remarks Fed ex # 5454 742101 chain of custody 178022, 178021	Ship To CRL 536 S. Clark St. Chicago IL. 60605 ATTN. Bill Sargent

Distribution: White — Accompanies Shipment; Pink — Coordinator Field Files; Yellow — Laboratory File

5- 07214

D930001077

TFA301

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: TOXIC SUBSTANCES

DIVISION/BRANCH Superfund SAMPLE DATE 1-4-93 LAB ARRIVAL DATE 1-6-93 DUE DATE 1-27-93

DU NUMBER TFA DATA SET NUMBER 1077 STUDY S E Rockford PRIORITY N CONTRACTOR

CRL LOG NUMBER 935V01	SAMPLE DESCRIPTION	WATER VOLATILE ORGANICS SCAN UG/L TOX 17664	WATER ABN ORGANICS SCAN UG/L TOX 17674	SEDIMENTS SOLIDS VOLATILE ORGANICS SCAN MG/KG (DRY) TOX 215622	SEDIMENTS SOLIDS ABN ORGANICS SCAN MG/KG (DRY) TOX 215722
R11	5-016235-016237	X			
S17	5-016232-016234	X			

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: JAN 28 1993

Subject: Review of Region 5 Data for **S. E. Rockford (SF1077) 2 OF 2**

From: Charles T. Elly, Director Chuck Elly
Region 5 Central Regional Laboratory

To:

Attached are the results for: **S. E. Rockford 2 OF 2**
CRL request number: **SF1077**
Analyzed for: **VOA (Organics)**
Results are reported for sample designations: 93SV01R11, -R12, -R13, -S17, -S18, -S19, -D19 AND -S20. (8 SAMPLES)

Results Status:
(X) Acceptable for Use
( ) Data Qualified, but Acceptable for use
( ) Data Unacceptable for Use

(X) Sewer Disposal Criteria Met; Exceptions: none
Comments on Data Quality by Reviewer:

- Some outliers were present in the calibration procedure, but compounds were not detected in any of the associated samples.
- Except for the above minor problem, no other problems were observed.

Comments by Laboratory Director or Quality Control Coordinator

Review Record for **S. E. ROCKFORD (SF1077) VOA (Organics) 2 OF 2**

01/26/93 1/26/93

Team Leader and Task Monitor Date (X) Reviewed ( ) Unreviewed

1/27/93

Section Chief and Date (✓) Reviewed ( ) Unreviewed

James H. Adams, Jr. 1/27/93

QC Coordinator and Date (✓) Reviewed ( ) Unreviewed

Sylvia Griffin 1-28-93

Data Management Coordinator and Date Received

Date Transmitted JAN 28 1993

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
SL - 10C

Received by and Date

Comments:

LOCKHEED ESAT CONTRACT
DATA SET CUSTODY TRANSFER FORM

DATA SET NUMBER SF1077 CHARGE NUMBER 232-51-028

SITE NAME: S.E. Rockford TID NUMBER 05-92-12-20

PARAMETER: VOA MATRIX: WATER

SF DU/ACT NO: TFA 301 Y ____ /C ____

SAMPLE NUMBERS: 93SV01S01, -S02, -S03, -S04, -S05, -S06, -S07, -S08, -S09, -S10, -S11, -S12, -S13, -S14, -S15, -S16; 93SV01D02, -D04, -D05, -D06, -D07, -D08; 93SV01R01, -R02, -R03, -R04, -R05, -R06, -R07, -R08, -R09, -R10 and -R11.

NUMBER OF SAMPLES: 33

ESAT APPROVALS:

Anthony Guglietta	1/13/93	Kelly G. Head	1/15/93
Analyst	Date	Task Group Leader	Date
Frank Kang	1/15/93	Denise Miller	1/15/93
QA/QC Coordinator	Date	ESAT Team Manager	Date

COMMENTS: _____

The above identified data set was transferred from ESAT custody to the custody of the U.S. EPA Region V Central Regional Laboratory in its entirety on the indicated date relinquished.

[signature]	1-15-93	Nidia Fuentes	1/15/93
Relinquished by	Date	Received by	Date

EPA APPROVALS:

Nidia Fuentes	1/26/93
EPA Task Monitor	Date

[✓] Reviewed
[ ] Unreviewed
[✓] Accepted
[ ] Rejected
[ ] Returned: 1/26/93 Date

COMMENTS: _____

Chi Tang	1/27/93	[✓] Reviewed	[ ] Unreviewed
Section Chief	Date		
Jay Thomas	1-27-93	Sylvia Duffin	1-28-93 / 1-28-93
ESAT DPO	Date	DATA COORDINATOR/RECD/TRANSMTD	

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CASE NARRATIVE

Method Number: CLP SOW 2/88 Site Name: S. E. Rockford

Date Generated: January 22, 1993 Charge Number: 232-51-028

Author: Anthony Gugliotta ag TID Number: 05-92-12-20

This narrative covers the second part of data set SF1077. Sample in this second part were collected in January 1993. The previous samples were received and analyzed in December 1992, and they were covered in a previous data set. On 20 January 1993, ESAT was informed that the project was completed and that no further samples are expected from the S. E. Rockford site.

1. Case Description

A total of eight low-level water samples from data set SF1077 were submitted for volatile organic analysis (VOA) by GC/MS utilizing the CRL 624VOC SOP modified according to the S. E. Rockford QAPP of 11-16-92.

Samples 93SV01R11 and S17 were collected on 4 January 1993, and received on 5 January 1993.

Samples 93SV01R12 and S18 were collected on 5 January 1993, and received on 6 January 1993.

Samples 93SV01R13, D19, S19, and S20 were collected on 6 January 1993 and received on 7 January 1993.

All samples were analyzed within the 14-day holding time from the date of collection.

Unlike previous samples from this case, none of these eight samples were labeled as containing high levels of volatile organic compounds. All eight samples were analyzed using 5.0-mL purges, and dilutions were not required.

The samples, the duplicate, and the field blanks were analyzed on 7 January 1993. Sample 93SV01S19 was chosen as the matrix spike sample, and an MS and MSD were run on 14 January 1993. All analyses were performed using HP MS#4, which is a Hewlett-Packard (HP) 5970 GC/MS.

2. Instrument Tuning

On each day of analysis, BFB (50 ng) was analyzed by direct injection. Tune criteria were met for each BFB run.

3. Initial Calibration

One initial calibration for the TCLs was performed on December 8, 1992 at concentrations of 5, 25, 50, 100, and 150 µg/L. All analytes met the requirements for percent relative standard deviation (%RSD < 35%) and minimum response factor (RF > 0.001) except for high %RSD for vinyl acetate; 1,1,2,2-tetrachloroethane; and 1,2-dibromo-3-chloropropane. See Form VI.

4. Continuing Calibration

Two continuing calibrations at 50 µg/L were performed using the Hewlett-Packard (HP) 5970 GC/MS.

A continuing calibration was performed on 7 January 1993. All analytes met the requirements for percent differences (%D < 30%) and response factors (RF > 0.001) except for high %D for trichlorofluoromethane (31.2 %D); vinyl acetate (83.0 %D); 1,1,2,2-tetrachloroethane (52.3 %D); and 1,2-dibromo-3-chloropropane (46.3 %D). See Form VII. None of these calibration outliers were detected in any of the associated samples.

A continuing calibration was performed on 14 January 1993. All analytes met the requirements for percent differences (%D < 30%) and response factors (RF > 0.001) except for high %D for acrolein (42.1 %D); acetone (39.1 %D); *cis*-1,2-dichloroethene (35.4 %D); 2-butanone (55.0 %D); and 1,1,2,2-tetrachloroethane (55.8 %D). See Form VII. None of the calibration outliers were detected in the method blank (011493BLK1), and none of these outliers were matrix spike compounds.

5. Quality Control

a. Analysis Summary

All standards, samples, and method blanks were analyzed in a 12-hour period from the injection of BFB (50 ng).

b. Duplicate Sample

Sample 93SV01D19 is the field duplicate of 93SV01S19. Both were analyzed undiluted on 7 January 1993. As the table below shows, the results of the sample and its duplicate agree well with each other.

Analyte	Conc. (µg/L) S19	D19
1,1-dichloroethane	5.0	5.2
cis-1,2-dichloroethene	8.4	9.0
toluene	1.2	1.1
naphthalene	0.0	1.3

c. Surrogate Recovery Summary

The surrogate recoveries in all samples and method blanks were within the required QC limits (Form II).

d. Internal Standard Area and Retention Time Summary

The internal standard areas and retention times were within the required QC limits for all samples and method blanks (Form VIII).

e. Matrix Spike and Matrix Spike Duplicate

The matrix spike (MS) and the matrix spike duplicate (MSD) samples were prepared from 5.0-mL aliquots of 93SV01S19. All recoveries and relative percent differences (%RPD) are within the QC limits specified in the 624VOC SOP.

6. Sample Results.

a. Method Blank Results

Three low-level water blank were associated with this part of the data set. The results of the method blanks are as follows:

Method Blank	Number of TCLs	Number of TICs
120892BLK2	0	0
010793BLK1	0	0
011493BLK1	0	0

b. Sample Results

There were no TICs detected in any of the samples. The results of the target (TCL) compounds in the samples are as follows:

Sample	Number of TCL Compounds
93SV01R11	0
93SV01R12	0
93SV01R13	1
93SV01S17	5
93SV01S18	3
93SV01S19	3
93SV01D19	4
93SV01S20	5

7. Conclusions

Samples of data set SF-1077 were analyzed according to the CRL 624VOC SOP. No TCLs nor any TICs were detected in the field blanks, except for 3.5 µg/L of acetone in 93SV01R13. Target compounds were found in each sample, but none exceeded 25 µg/L. All QC criteria and holding times were met.

LOCKHEED ESAT CONTRACT
DATA SET CUSTODY TRANSFER FORM

DATA SET NUMBER SF1077 CHARGE NUMBER 232-51-028

SITE NAME: S.E. Rockford TID NUMBER 0592-1220

PARAMETER: VOA MATRIX: WATER

SF DU/ACT NO: TFA 301 Y ____ /C ____

SAMPLE NUMBERS: 93SV01R11, -R12, -R13, -S17, -S18, -S19, -S20 and -D19

NUMBER OF SAMPLES: 8

ESAT APPROVALS:

Anthony Guglietta 1/22/93
Analyst Date

Kelly R. Head 1-26-93
Task Group Leader Date

W. Ka Nikka for Lewis Krong 1-26-93
QA/QC Coordinator Date

Denise Mike 1-26-93
ESAT Team Manager Date

COMMENTS: _____

The above identified data set was transferred from ESAT custody to the custody of the U.S. EPA Region V Central Regional Laboratory in its entirety on the indicated date relinquished.

Anthony Guglietta 1/26/93
Relinquished by Date

Robin Romelhuezie 1/26/93 11:30 AM
Received by Date

EPA APPROVALS:

Nidia Fuentes
EPA Task Monitor Date

[✓] Reviewed
[ ] Unreviewed
[✓] Accepted
[ ] Rejected
[ ] Returned: 1/26/93
Date

COMMENTS: _____

Phil Vance 1/27/93
Section Chief Date

[✓] Reviewed [ ] Unreviewed

Jay Thackery 1-27-93
ESAT DPO Date

____/____/____
DATA COORDINATOR/RECD/TRANSMTD

A COPY OF THIS CUSTODY TRANSFER FORM WITH A RECEIVED BY EPA SIGNATURE IS TO BE FILED WITH THE AOC IN THE TID FILE. THE ORIGINAL CUSTODY TRANSFER ACCOMPANIES THE DATA SET TO BE APPROVED BY THE EPA AND A COMPLETED COPY RETURNED TO ESAT.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

120892BLK3

Lab Name: CRL SE ROCKFORD Contract: 5ESD-10C

Lab Code: 5SCRL Case No.: SF-1077 SAS No.: --- SDG No.: ---

Matrix: (soil/water) WATER Lab Sample ID: METHOD BLK#

Sample wt/vol: 5 (g/mL) mL Lab File ID: >AG013

Level: (low/med) LOW Date Received: 12/08/92

% Moisture: not dec.---- Date Analyzed: 12/08/92

Column: (pack/cap) CAP Dilution Factor: 1.00000

Final extract Volume: -- (uL) Conversion Factor: 1.0000

Aliquot Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	3.	U
74-87-3	Chloromethane	3.	U
75-01-4	Vinyl chloride	3.	U
74-83-9	Bromomethane	3.	U
75-00-3	Chloroethane	3.	U
75-69-4	Trichlorofluoromethane	3.	U
107-64-1	Acrolein	10.	U
75-35-4	1,1-Dichloroethene	2.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	2.	U
75-09-2	Methylene chloride	2.	U
156-60-5	trans-1,2-Dichloroethene	2.	U
107-13-1	Acrylonitrile	10.	U
75-34-3	1,1-Dichloroethane	2.	U
108-05-4	Vinylacetate	10.	U
594-20-7	2,2-Dichloropropane	2.	U
156-59-2	cis-1,2-Dichloroethene	2.	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	2.	U
67-66-3	Chloroform	2.	U
71-55-6	1,1,1-trichloroethane	2.	U
56-23-5	Carbon tetrachloride	2.	U
563-58-6	1,1-Dichloropropene	2.	U
71-43-2	Benzene	2.	U
107-06-2	1,2-Dichloroethane	2.	U
79-01-6	Trichloroethene	2.	U
78-87-5	1,2-Dichloropropane	2.	U
74-95-3	Dibromomethane	2.	U
	2-Chloroethyl vinylether	2.	U
75-27-4	Bromodichloromethane	2.	U
10061-01-5	cis-1,3-dichloropropene	2.	U
108-88-3	Toluene	2.	U
108-10-1	4-Methyl-2-pentanone	5.	U
10061-02-6	trans-1,3-Dichloropropene	2.	U
127-18-4	Tetrachloroethene	2.	U
79-00-5	1,1,2-Trichloroethane	2.	U
142-28-9	1,3-Dichloropropane	2.	U

Are there any TICs ? (Please check a box) YES [ ] NO [✓]

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

120892BLK3

Lab Name: CRL SE ROCKFORD Contract: 5ESD-10C

Lab Code: 5SCRL Case No.: SF-1077 SAS No.: --- SDG No.: ---

Matrix: (soil/water) WATER Lab Sample ID: METHOD BLK#

Sample wt/vol: 5 (g/mL) mL Lab File ID: >AG013

Level: (low/med) LOW Date Received: 12/08/92

% Moisture: not dec.---- Date Analyzed: 12/08/92

Column: (pack/cap) CAP Dilution Factor: 1.00000

Final extract Volume: -- (uL) Conversion Factor: 1.0000

Aliquot Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
591-78-6	2-Hexanone	5.	U
124-48-1	Dibromochloromethane	2.	U
106-93-4	1,2-Dibromoethane	2.	U
108-90-7	Chlorobenzene	2.	U
630-20-6	1,1,1,2-Tetrachloroethane	2.	U
100-41-4	Ethylbenzene	2.	U
1083836423	m &/or p-Xylene	2.	U
95-47-6	o-Xylene	2.	U
100-42-5	Styrene	2.	U
75-25-2	Bromoform	2.	U
98-82-8	Isopropylbenzene	2.	U
108-86-1	Bromobenzene	2.	U
96-18-4	1,2,3-Trichloropropane	2.	U
79-34-5	1,1,2,2-Tetrachloroethane	2.	U
103-65-1	n-Propylbenzene	2.	U
95-49-8	2-Chlorotoluene	2.	U
106-43-4	4-Chlorotoluene	2.	U
108-67-8	1,3,5-Trimethylbenzene	2.	U
98-06-6	tert-Butylbenzene	2.	U
95-63-6	1,2,4-Trimethylbenzene	2.	U
135-98-8	sec-Butylbenzene	2.	U
541-73-1	1,3-Dichlorobenzene	2.	U
106-46-7	1,4-Dichlorobenzene	2.	U
99-87-6	p-Isopropyltoluene	2.	U
95-50-1	1,2-Dichlorobenzene	2.	U
104-51-8	n-Butylbenzene	2.	U
96-12-8	1,2-Dibromo-3-chloropropane	2.	U
120-82-1	1,2,4-Trichlorobenzene	2.	U
91-20-3	Naphthalene	2.	U
87-68-3	Hexachlorobutadiene	2.	U
87-61-6	1,2,3-Trichlorobenzene	2.	U

FORM I-2 VOA 1/89 Rev.

Data Qualifiers: U = Compounds were analyzed but not detected. The value reported is the method detection limit for reagent water; J = Estimated; D=Diluted Sample; X = Result rejected for failing mass spectral confirmation; E = Concentration exceeded calibration range; B_ = Contaminant found in laboratory method blank; ARE THERE TICs ? (Circle) YES NO

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

010793BLK1

Lab Name:CRL SE ROCKFORD Contract:5ESD-10C

Lab Code: 5SCRL Case No.: SF-1077 SAS No.: --- SDG No.: ---

Matrix: (soil/water) WATER Lab Sample ID: 010793BLK1

Sample wt/vol: 5.000 (g/mL) mL Lab File ID: >AG090

Level: (low/med) LOW Date Received: 01/07/93

% Moisture: not dec.---- Date Analyzed: 1/07/93

Column: (pack/cap) CAP Dilution Factor: 1.00000

Final extract Volume: -- (uL) Conversion Factor: 1.0000

Aliquot Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	3.	U
74-87-3	Chloromethane	3.	U
75-01-4	Vinyl chloride	3.	U
74-83-9	Bromomethane	3.	U
75-00-3	Chloroethane	3.	U
75-69-4	Trichlorofluoromethane	3.	U
107-64-1	Acrolein	10.	U
75-35-4	1,1-Dichloroethene	2.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	2.	U
75-09-2	Methylene chloride	2.	U
156-60-5	trans-1,2-Dichloroethene	2.	U
107-13-1	Acrylonitrile	10.	U
75-34-3	1,1-Dichloroethane	2.	U
108-05-4	Vinylacetate	10.	U
594-20-7	2,2-Dichloropropane	2.	U
156-59-2	cis-1,2-Dichloroethene	2.	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	2.	U
67-66-3	Chloroform	2.	U
71-55-6	1,1,1-trichloroethane	2.	U
56-23-5	Carbon tetrachloride	2.	U
563-58-6	1,1-Dichloropropene	2.	U
71-43-2	Benzene	2.	U
107-06-2	1,2-Dichloroethane	2.	U
79-01-6	Trichloroethene	2.	U
78-87-5	1,2-Dichloropropane	2.	U
74-95-3	Dibromomethane	2.	U
	2-Chloroethyl vinylether	2.	U
75-27-4	Bromodichloromethane	2.	U
10061-01-5	cis-1,3-dichloropropene	2.	U
108-88-3	Toluene	2.	U
108-10-1	4-Methyl-2-pentanone	5.	U
10061-02-6	trans-1,3-Dichloropropene	2.	U
127-18-4	Tetrachloroethene	2.	U
79-00-5	1,1,2-Trichloroethane	2.	U
142-28-9	1,3-Dichloropropane	2.	U

Are there any TICs ? (Please check a box) YES |__| NO |✓|

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

010793BLK1

Lab Name:CRL SE ROCKFORD Contract:5ESD-10C

Lab Code: 5SCRL Case No.: SF-1077 SAS No.: --- SDG No.: ---

Matrix: (soil/water) WATER Lab Sample ID: 010793BLK1

Sample wt/vol: 5.000 (g/mL) mL Lab File ID: >AG090

Level: (low/med) LOW Date Received: 01/07/93

% Moisture: not dec.---- Date Analyzed: 1/07/93

Column: (pack/cap) CAP Dilution Factor: 1.00000

Final extract Volume: -- (uL) Conversion Factor: 1.0000

Aliquot Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
591-78-6	2-Hexanone	5.	U
124-48-1	Dibromochloromethane	2.	U
106-93-4	1,2-Dibromoethane	2.	U
108-90-7	Chlorobenzene	2.	U
630-20-6	1,1,1,2-Tetrachloroethane	2.	U
100-41-4	Ethylbenzene	2.	U
1083836423	m &/or p-Xylene	2.	U
95-47-6	o-Xylene	2.	U
100-42-5	Styrene	2.	U
75-25-2	Bromoform	2.	U
98-82-8	Isopropylbenzene	2.	U
108-86-1	Bromobenzene	2.	U
96-18-4	1,2,3-Trichloropropane	2.	U
79-34-5	1,1,2,2-Tetrachloroethane	2.	U
103-65-1	n-Propylbenzene	2.	U
95-49-8	2-Chlorotoluene	2.	U
106-43-4	4-Chlorotoluene	2.	U
108-67-8	1,3,5-Trimethylbenzene	2.	U
98-06-6	tert-Butylbenzene	2.	U
95-63-6	1,2,4-Trimethylbenzene	2.	U
135-98-8	sec-Butylbenzene	2.	U
541-73-1	1,3-Dichlorobenzene	2.	U
106-46-7	1,4-Dichlorobenzene	2.	U
99-87-6	p-Isopropyltoluene	2.	U
95-50-1	1,2-Dichlorobenzene	2.	U
104-51-8	n-Butylbenzene	2.	U
96-12-8	1,2-Dibromo-3-chloropropane	2.	U
120-82-1	1,2,4-Trichlorobenzene	2.	U
91-20-3	Naphthalene	2.	U
87-68-3	Hexachlorobutadiene	2.	U
87-61-6	1,2,3-Trichlorobenzene	2.	U

FORM I-2 VOA 1/89 Rev.

Data Qualifiers: U = Compounds were analyzed but not detected. The value reported is the method detection limit for reagent water; J = Estimated; D=Diluted Sample; X = Result rejected for failing mass spectral confirmation; E = Concentration exceeded calibration range; B_ = Contaminant found in laboratory method blank; ARE THERE TICs ? (Circle) YES/NO

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93SV01R11

Lab Name:CRL SE ROCKFORD Contract:5ESD-10C

Lab Code: 5SCRL Case No.: SF-1077 SAS No.: --- SDG No.: ---

Matrix: (soil/water) WATER Lab Sample ID: 93SV01R11

Sample wt/vol: 5.000 (g/mL) mL Lab File ID: >AG092

Level: (low/med) LOW Date Received: 01/06/93

% Moisture: not dec.---- Date Analyzed: 1/07/93

Column: (pack/cap) CAP Dilution Factor: 1.00000

Final extract Volume: -- (uL) Conversion Factor: 1.0000

Aliquot Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	3.	U
74-87-3	Chloromethane	3.	U
75-01-4	Vinyl chloride	3.	U
74-83-9	Bromomethane	3.	U
75-00-3	Chloroethane	3.	U
75-69-4	Trichlorofluoromethane	3.	U
107-64-1	Acrolein	10.	U
75-35-4	1,1-Dichloroethene	2.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	2.	U
75-09-2	Methylene chloride	2.	U
156-60-5	trans-1,2-Dichloroethene	2.	U
107-13-1	Acrylonitrile	10.	U
75-34-3	1,1-Dichloroethane	2.	U
108-05-4	Vinylacetate	10.	U
594-20-7	2,2-Dichloropropane	2.	U
156-59-2	cis-1,2-Dichloroethene	2.	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	2.	U
67-66-3	Chloroform	2.	U
71-55-6	1,1,1-trichloroethane	2.	U
56-23-5	Carbon tetrachloride	2.	U
563-58-6	1,1-Dichloropropene	2.	U
71-43-2	Benzene	2.	U
107-06-2	1,2-Dichloroethane	2.	U
79-01-6	Trichloroethene	2.	U
78-87-5	1,2-Dichloropropane	2.	U
74-95-3	Dibromomethane	2.	U
	2-Chloroethyl vinylether	2.	U
75-27-4	Bromodichloromethane	2.	U
10061-01-5	cis-1,3-dichloropropene	2.	U
108-88-3	Toluene	2.	U
108-10-1	4-Methyl-2-pentanone	5.	U
10061-02-6	trans-1,3-Dichloropropene	2.	U
127-18-4	Tetrachloroethene	2.	U
79-00-5	1,1,2-Trichloroethane	2.	U
142-28-9	1,3-Dichloropropane	2.	U

Are there any TICs ? (Please check a box) YES |__| NO |✓|

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93SV01R11

Lab Name:CRL SE ROCKFORD Contract:5ESD-10C

Lab Code: 5SCRL Case No.: SF-1077 SAS No.: --- SDG No.: ---

Matrix: (soil/water) WATER Lab Sample ID: 93SV01R11

Sample wt/vol: 5.000 (g/mL) mL Lab File ID: >AG092

Level: (low/med) LOW Date Received: 01/06/93

% Moisture: not dec.---- Date Analyzed: 1/07/93

Column: (pack/cap) CAP Dilution Factor: 1.00000

Final extract Volume: -- (uL) Conversion Factor: 1.0000

Aliquot Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
591-78-6	2-Hexanone	5.	U
124-48-1	Dibromochloromethane	2.	U
106-93-4	1,2-Dibromoethane	2.	U
108-90-7	Chlorobenzene	2.	U
630-20-6	1,1,1,2-Tetrachloroethane	2.	U
100-41-4	Ethylbenzene	2.	U
1083836423	m &/or p-Xylene	2.	U
95-47-6	o-Xylene	2.	U
100-42-5	Styrene	2.	U
75-25-2	Bromoform	2.	U
98-82-8	Isopropylbenzene	2.	U
108-86-1	Bromobenzene	2.	U
96-18-4	1,2,3-Trichloropropane	2.	U
79-34-5	1,1,2,2-Tetrachloroethane	2.	U
103-65-1	n-Propylbenzene	2.	U
95-49-8	2-Chlorotoluene	2.	U
106-43-4	4-Chlorotoluene	2.	U
108-67-8	1,3,5-Trimethylbenzene	2.	U
98-06-6	tert-Butylbenzene	2.	U
95-63-6	1,2,4-Trimethylbenzene	2.	U
135-98-8	sec-Butylbenzene	2.	U
541-73-1	1,3-Dichlorobenzene	2.	U
106-46-7	1,4-Dichlorobenzene	2.	U
99-87-6	p-Isopropyltoluene	2.	U
95-50-1	1,2-Dichlorobenzene	2.	U
104-51-8	n-Butylbenzene	2.	U
96-12-8	1,2-Dibromo-3-chloropropane	2.	U
120-82-1	1,2,4-Trichlorobenzene	2.	U
91-20-3	Naphthalene	2.	U
87-68-3	Hexachlorobutadiene	2.	U
87-61-6	1,2,3-Trichlorobenzene	2.	U

FORM I-2 VOA 1/89 Rev.

Data Qualifiers: U = Compounds were analyzed but not detected. The value reported is the method detection limit for reagent water; J = Estimated; D=Diluted Sample; X = Result rejected for failing mass spectral confirmation; E = Concentration exceeded calibration range; B_ = Contaminant found in laboratory method blank; ARE THERE TICs ? (Circle) YES/NO

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93SV01R12

Lab Name: CRL SE ROCKFORD Contract: 5ESD-10C

Lab Code: 5SCRL Case No.: SF-1077 SAS No.: --- SDG No.: ---

Matrix: (soil/water) WATER Lab Sample ID: 93SV01R12

Sample wt/vol: 5.000 (g/mL) mL Lab File ID: >AG093

Level: (low/med) LOW Date Received: 01/06/93

% Moisture: not dec.---- Date Analyzed: 1/07/93

Column: (pack/cap) CAP Dilution Factor: 1.00000

Final extract Volume: -- (uL) Conversion Factor: 1.0000

Aliquot Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	3.	U
74-87-3	Chloromethane	3.	U
75-01-4	Vinyl chloride	3.	U
74-83-9	Bromomethane	3.	U
75-00-3	Chloroethane	3.	U
75-69-4	Trichlorofluoromethane	3.	U
107-64-1	Acrolein	10.	U
75-35-4	1,1-Dichloroethene	2.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	2.	U
75-09-2	Methylene chloride	2.	U
156-60-5	trans-1,2-Dichloroethene	2.	U
107-13-1	Acrylonitrile	10.	U
75-34-3	1,1-Dichloroethane	2.	U
108-05-4	Vinylacetate	10.	U
594-20-7	2,2-Dichloropropane	2.	U
156-59-2	cis-1,2-Dichloroethene	2.	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	2.	U
67-66-3	Chloroform	2.	U
71-55-6	1,1,1-trichloroethane	2.	U
56-23-5	Carbon tetrachloride	2.	U
563-58-6	1,1-Dichloropropene	2.	U
71-43-2	Benzene	2.	U
107-06-2	1,2-Dichloroethane	2.	U
79-01-6	Trichloroethene	2.	U
78-87-5	1,2-Dichloropropane	2.	U
74-95-3	Dibromomethane	2.	U
	2-Chloroethyl vinylether	2.	U
75-27-4	Bromodichloromethane	2.	U
10061-01-5	cis-1,3-dichloropropene	2.	U
108-88-3	Toluene	2.	U
108-10-1	4-Methyl-2-pentanone	5.	U
10061-02-6	trans-1,3-Dichloropropene	2.	U
127-18-4	Tetrachloroethene	2.	U
79-00-5	1,1,2-Trichloroethane	2.	U
142-28-9	1,3-Dichloropropane	2.	U

Are there any TICs ? (Please check a box) YES [ ] NO [✓]

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93SV01R12

Lab Name: CRL SE ROCKFORD Contract: 5ESD-10C

Lab Code: 5SCRL Case No.: SF-1077 SAS No.: --- SDG No.: ---

Matrix: (soil/water) WATER Lab Sample ID: 93SV01R12

Sample wt/vol: 5.000 (g/mL) mL Lab File ID: >AG093

Level: (low/med) LOW Date Received: 01/06/93

% Moisture: not dec.---- Date Analyzed: 1/07/93

Column: (pack/cap) CAP Dilution Factor: 1.00000

Final extract Volume: -- (uL) Conversion Factor: 1.0000

Aliquot Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
591-78-6	2-Hexanone	5.	U
124-48-1	Dibromochloromethane	2.	U
106-93-4	1,2-Dibromoethane	2.	U
108-90-7	Chlorobenzene	2.	U
630-20-6	1,1,1,2-Tetrachloroethane	2.	U
100-41-4	Ethylbenzene	2.	U
1083836423	m &/or p-Xylene	2.	U
95-47-6	o-Xylene	2.	U
100-42-5	Styrene	2.	U
75-25-2	Bromoform	2.	U
98-82-8	Isopropylbenzene	2.	U
108-86-1	Bromobenzene	2.	U
96-18-4	1,2,3-Trichloropropane	2.	U
79-34-5	1,1,2,2-Tetrachloroethane	2.	U
103-65-1	n-Propylbenzene	2.	U
95-49-8	2-Chlorotoluene	2.	U
106-43-4	4-Chlorotoluene	2.	U
108-67-8	1,3,5-Trimethylbenzene	2.	U
98-06-6	tert-Butylbenzene	2.	U
95-63-6	1,2,4-Trimethylbenzene	2.	U
135-98-8	sec-Butylbenzene	2.	U
541-73-1	1,3-Dichlorobenzene	2.	U
106-46-7	1,4-Dichlorobenzene	2.	U
99-87-6	p-Isopropyltoluene	2.	U
95-50-1	1,2-Dichlorobenzene	2.	U
104-51-8	n-Butylbenzene	2.	U
96-12-8	1,2-Dibromo-3-chloropropane	2.	U
120-82-1	1,2,4-Trichlorobenzene	2.	U
91-20-3	Naphthalene	2.	U
87-68-3	Hexachlorobutadiene	2.	U
87-61-6	1,2,3-Trichlorobenzene	2.	U

FORM I-2 VOA 1/89 Rev.

Data Qualifiers: U = Compounds were analyzed but not detected. The value reported is the method detection limit for reagent water; J = Estimated; D=Diluted Sample; X = Result rejected for failing mass spectral confirmation; E = Concentration exceeded calibration range; B_ = Contaminant found in laboratory method blank; ARE THERE TICs ? (Circle) YES/NO

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93SV01R13

Lab Name: CRL SE ROCKFORD Contract: 5ESD-10C

Lab Code: 5SCRL Case No.: SF-1077 SAS No.: --- SDG No.: ---

Matrix: (soil/water) WATER Lab Sample ID: 93SV01R13

Sample wt/vol: 5.000 (g/mL) mL Lab File ID: >AG094

Level: (low/med) LOW Date Received: 01/07/93

% Moisture: not dec.---- Date Analyzed: 1/07/93

Column: (pack/cap) CAP Dilution Factor: 1.00000

Final extract Volume: -- (uL) Conversion Factor: 1.0000

Aliquot Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	3.	U
74-87-3	Chloromethane	3.	U
75-01-4	Vinyl chloride	3.	U
74-83-9	Bromomethane	3.	U
75-00-3	Chloroethane	3.	U
75-69-4	Trichlorofluoromethane	3.	U
107-64-1	Acrolein	10.	U
75-35-4	1,1-Dichloroethene	2.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	2.	U
75-09-2	Methylene chloride	2.	U
156-60-5	trans-1,2-Dichloroethene	2.	U
107-13-1	Acrylonitrile	10.	U
75-34-3	1,1-Dichloroethane	2.	U
108-05-4	Vinylacetate	10.	U
594-20-7	2,2-Dichloropropane	2.	U
156-59-2	cis-1,2-Dichloroethene	2.	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	2.	U
67-66-3	Chloroform	2.	U
71-55-6	1,1,1-trichloroethane	2.	U
56-23-5	Carbon tetrachloride	2.	U
563-58-6	1,1-Dichloropropene	2.	U
71-43-2	Benzene	2.	U
107-06-2	1,2-Dichloroethane	2.	U
79-01-6	Trichloroethene	2.	U
78-87-5	1,2-Dichloropropane	2.	U
74-95-3	Dibromomethane	2.	U
	2-Chloroethyl vinylether	2.	U
75-27-4	Bromodichloromethane	2.	U
10061-01-5	cis-1,3-dichloropropene	2.	U
108-88-3	Toluene	2.	U
108-10-1	4-Methyl-2-pentanone	5.	U
10061-02-6	trans-1,3-Dichloropropene	2.	U
127-18-4	Tetrachloroethene	2.	U
79-00-5	1,1,2-Trichloroethane	2.	U
142-28-9	1,3-Dichloropropane	2.	U

Are there any TICs ? (Please check a box) YES [ ] NO [✓]

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93SV01R13

Lab Name:CRL SE ROCKFORD Contract:5ESD-10C

Lab Code: 5SCRL Case No.: SF-1077 SAS No.: --- SDG No.: ---

Matrix: (soil/water) WATER Lab Sample ID: 93SV01R13

Sample wt/vol: 5.000 (g/mL) mL Lab File ID: >AG094

Level: (low/med) LOW Date Received: 01/07/93

% Moisture: not dec.---- Date Analyzed: 1/07/93

Column: (pack/cap) CAP Dilution Factor: 1.00000

Final extract Volume: -- (uL) Conversion Factor: 1.0000

Aliquot Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
591-78-6	2-Hexanone	5.	U
124-48-1	Dibromochloromethane	2.	U
106-93-4	1,2-Dibromoethane	2.	U
108-90-7	Chlorobenzene	2.	U
630-20-6	1,1,1,2-Tetrachloroethane	2.	U
100-41-4	Ethylbenzene	2.	U
1083836423	m &/or p-Xylene	2.	U
95-47-6	o-Xylene	2.	U
100-42-5	Styrene	2.	U
75-25-2	Bromoform	2.	U
98-82-8	Isopropylbenzene	2.	U
108-86-1	Bromobenzene	2.	U
96-18-4	1,2,3-Trichloropropane	2.	U
79-34-5	1,1,2,2-Tetrachloroethane	2.	U
103-65-1	n-Propylbenzene	2.	U
95-49-8	2-Chlorotoluene	2.	U
106-43-4	4-Chlorotoluene	2.	U
108-67-8	1,3,5-Trimethylbenzene	2.	U
98-06-6	tert-Butylbenzene	2.	U
95-63-6	1,2,4-Trimethylbenzene	2.	U
135-98-8	sec-Butylbenzene	2.	U
541-73-1	1,3-Dichlorobenzene	2.	U
106-46-7	1,4-Dichlorobenzene	2.	U
99-87-6	p-Isopropyltoluene	2.	U
95-50-1	1,2-Dichlorobenzene	2.	U
104-51-8	n-Butylbenzene	2.	U
96-12-8	1,2-Dibromo-3-chloropropane	2.	U
120-82-1	1,2,4-Trichlorobenzene	2.	U
91-20-3	Naphthalene	2.	U
87-68-3	Hexachlorobutadiene	2.	U
87-61-6	1,2,3-Trichlorobenzene	2.	U

FORM I-2 VOA 1/89 Rev.

Data Qualifiers: U = Compounds were analyzed but not detected. The value reported is the method detection limit for reagent water; J = Estimated; D=Diluted Sample; X = Result rejected for failing mass spectral confirmation; E = Concentration exceeded calibration range; B_ = Contaminant found in laboratory method blank; ARE THERE TICs ? (Circle) YES/NO

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93SV01D19

Lab Name:CRL SE ROCKFORD Contract:5ESD-10C

Lab Code: 5SCRL Case No.: SF-1077 SAS No.: --- SDG No.: ---

Matrix: (soil/water) WATER Lab Sample ID: 93SV01D19

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: >AG098

Level: (low/med) LOW Date Received: 01/07/93

% Moisture: not dec.---- Date Analyzed: 1/07/93

Column: (pack/cap) CAP Dilution Factor: 1.00000

Final extract Volume: -- (uL) Conversion Factor: 1.0000

Aliquot Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	3.	U
74-87-3	Chloromethane	3.	U
75-01-4	Vinyl chloride	3.	U
74-83-9	Bromomethane	3.	U
75-00-3	Chloroethane	3.	U
75-69-4	Trichlorofluoromethane	3.	U
107-64-1	Acrolein	10.	U
75-35-4	1,1-Dichloroethene	2.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	2.	U
75-09-2	Methylene chloride	2.	U
156-60-5	trans-1,2-Dichloroethene	2.	U
107-13-1	Acrylonitrile	10.	U
75-34-3	1,1-Dichloroethane	5.	
108-05-4	Vinylacetate	10.	U
594-20-7	2,2-Dichloropropane	2.	U
156-59-2	cis-1,2-Dichloroethene	9.	
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	2.	U
67-66-3	Chloroform	2.	U
71-55-6	1,1,1-trichloroethane	2.	U
56-23-5	Carbon tetrachloride	2.	U
563-58-6	1,1-Dichloropropene	2.	U
71-43-2	Benzene	2.	U
107-06-2	1,2-Dichloroethane	2.	U
79-01-6	Trichloroethene	2.	U
78-87-5	1,2-Dichloropropane	2.	U
74-95-3	Dibromomethane	2.	U
	2-Chloroethyl vinylether	2.	U
75-27-4	Bromodichloromethane	2.	U
10061-01-5	cis-1,3-dichloropropene	2.	U
108-88-3	Toluene	1.	J
108-10-1	4-Methyl-2-pentanone	5.	U
10061-02-6	trans-1,3-Dichloropropene	2.	U
127-18-4	Tetrachloroethene	2.	U
79-00-5	1,1,2-Trichloroethane	2.	U
142-28-9	1,3-Dichloropropane	2.	U

Are there any TICs ? (Please check a box) YES |__| NO |✓|

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93SV01D19

Lab Name:CRL SE ROCKFORD Contract:5ESD-10C

Lab Code: 5SCRL Case No.: SF-1077 SAS No.: --- SDG No.: ---

Matrix: (soil/water) WATER Lab Sample ID: 93SV01D19

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: >AG098

Level: (low/med) LOW Date Received: 01/07/93

% Moisture: not dec.---- Date Analyzed: 1/07/93

Column: (pack/cap) CAP Dilution Factor: 1.00000

Final extract Volume: -- (uL) Conversion Factor: 1.0000

Aliquot Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
591-78-6	2-Hexanone	5.	U
124-48-1	Dibromochloromethane	2.	U
106-93-4	1,2-Dibromoethane	2.	U
108-90-7	Chlorobenzene	2.	U
630-20-6	1,1,1,2-Tetrachloroethane	2.	U
100-41-4	Ethylbenzene	2.	U
1083836423	m &/or p-Xylene	2.	U
95-47-6	o-Xylene	2.	U
100-42-5	Styrene	2.	U
75-25-2	Bromoform	2.	U
98-82-8	Isopropylbenzene	2.	U
108-86-1	Bromobenzene	2.	U
96-18-4	1,2,3-Trichloropropane	2.	U
79-34-5	1,1,2,2-Tetrachloroethane	2.	U
103-65-1	n-Propylbenzene	2.	U
95-49-8	2-Chlorotoluene	2.	U
106-43-4	4-Chlorotoluene	2.	U
108-67-8	1,3,5-Trimethylbenzene	2.	U
98-06-6	tert-Butylbenzene	2.	U
95-63-6	1,2,4-Trimethylbenzene	2.	U
135-98-8	sec-Butylbenzene	2.	U
541-73-1	1,3-Dichlorobenzene	2.	U
106-46-7	1,4-Dichlorobenzene	2.	U
99-87-6	p-Isopropyltoluene	2.	U
95-50-1	1,2-Dichlorobenzene	2.	U
104-51-8	n-Butylbenzene	2.	U
96-12-8	1,2-Dibromo-3-chloropropane	2.	U
120-82-1	1,2,4-Trichlorobenzene	2.	U
91-20-3	Naphthalene	1.	J
87-68-3	Hexachlorobutadiene	2.	U
87-61-6	1,2,3-Trichlorobenzene	2.	U

FORM I-2 VOA 1/89 Rev.

Data Qualifiers: U = Compounds were analyzed but not detected. The value reported is the method detection limit for reagent water; J = Estimated; D=Diluted Sample; X = Result rejected for failing mass spectral confirmation; E = Concentration exceeded calibration range; B_ = Contaminant found in laboratory method blank; ARE THERE TICs ? (Circle) YES/NO

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93SV01S17

Lab Name:CRL SE ROCKFORD Contract:5ESD-10C

Lab Code: 5SCRL Case No.: SF-1077 SAS No.: --- SDG No.: ---

Matrix: (soil/water) WATER Lab Sample ID: 93SV01S17

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: >AG099

Level: (low/med) LOW Date Received: 01/07/93

% Moisture: not dec.---- Date Analyzed: 1/07/93

Column: (pack/cap) CAP Dilution Factor: 1.00000

Final extract Volume: -- (uL) Conversion Factor: 1.0000

Aliquot Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	3.	U
74-87-3	Chloromethane	3.	U
75-01-4	Vinyl chloride	3.	U
74-83-9	Bromomethane	3.	U
75-00-3	Chloroethane	3.	U
75-69-4	Trichlorofluoromethane	3.	U
107-64-1	Acrolein	10.	U
75-35-4	1,1-Dichloroethene	2.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	2.	U
75-09-2	Methylene chloride	2.	U
156-60-5	trans-1,2-Dichloroethene	2.	U
107-13-1	Acrylonitrile	10.	U
75-34-3	1,1-Dichloroethane	13.	
108-05-4	Vinylacetate	10.	U
594-20-7	2,2-Dichloropropane	2.	U
156-59-2	cis-1,2-Dichloroethene	25.	
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	2.	U
67-66-3	Chloroform	2.	U
71-55-6	1,1,1-trichloroethane	2.	
56-23-5	Carbon tetrachloride	2.	U
563-58-6	1,1-Dichloropropene	2.	U
71-43-2	Benzene	2.	U
107-06-2	1,2-Dichloroethane	2.	
79-01-6	Trichloroethene	2.	U
78-87-5	1,2-Dichloropropane	2.	U
74-95-3	Dibromomethane	2.	U
	2-Chloroethyl vinylether	2.	U
75-27-4	Bromodichloromethane	2.	U
10061-01-5	cis-1,3-dichloropropene	2.	U
108-88-3	Toluene	.7	J
108-10-1	4-Methyl-2-pentanone	5.	U
10061-02-6	trans-1,3-Dichloropropene	2.	U
127-18-4	Tetrachloroethene	2.	U
79-00-5	1,1,2-Trichloroethane	2.	U
142-28-9	1,3-Dichloropropane	2.	U

Are there any TICs ? (Please check a box) YES |__| NO |✓|

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93SV01S17

Lab Name:CRL SE ROCKFORD Contract:5ESD-10C

Lab Code: 5SCRL Case No.: SF-1077 SAS No.: --- SDG No.: ---

Matrix: (soil/water) WATER Lab Sample ID: 93SV01S17

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: >AG099

Level: (low/med) LOW Date Received: 01/07/93

% Moisture: not dec.---- Date Analyzed: 1/07/93

Column: (pack/cap) CAP Dilution Factor: 1.00000

Final extract Volume: -- (uL) Conversion Factor: 1.0000

Aliquot Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
591-78-6	2-Hexanone	5.	U
124-48-1	Dibromochloromethane	2.	U
106-93-4	1,2-Dibromoethane	2.	U
108-90-7	Chlorobenzene	2.	U
630-20-6	1,1,1,2-Tetrachloroethane	2.	U
100-41-4	Ethylbenzene	2.	U
1083836423	m &/or p-Xylene	2.	U
95-47-6	o-Xylene	2.	U
100-42-5	Styrene	2.	U
75-25-2	Bromoform	2.	U
98-82-8	Isopropylbenzene	2.	U
108-86-1	Bromobenzene	2.	U
96-18-4	1,2,3-Trichloropropane	2.	U
79-34-5	1,1,2,2-Tetrachloroethane	2.	U
103-65-1	n-Propylbenzene	2.	U
95-49-8	2-Chlorotoluene	2.	U
106-43-4	4-Chlorotoluene	2.	U
108-67-8	1,3,5-Trimethylbenzene	2.	U
98-06-6	tert-Butylbenzene	2.	U
95-63-6	1,2,4-Trimethylbenzene	2.	U
135-98-8	sec-Butylbenzene	2.	U
541-73-1	1,3-Dichlorobenzene	2.	U
106-46-7	1,4-Dichlorobenzene	2.	U
99-87-6	p-Isopropyltoluene	2.	U
95-50-1	1,2-Dichlorobenzene	2.	U
104-51-8	n-Butylbenzene	2.	U
96-12-8	1,2-Dibromo-3-chloropropane	2.	U
120-82-1	1,2,4-Trichlorobenzene	2.	U
91-20-3	Naphthalene	2.	U
87-68-3	Hexachlorobutadiene	2.	U
87-61-6	1,2,3-Trichlorobenzene	2.	U

FORM I-2 VOA 1/89 Rev.

Data Qualifiers: U = Compounds were analyzed but not detected. The value reported is the method detection limit for reagent water; J = Estimated; D=Diluted Sample; X = Result rejected for failing mass spectral confirmation; E = Concentration exceeded calibration range; B_ = Contaminant found in laboratory method blank; ARE THERE TICs ? (Circle) YES/NO

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93SV01S18

Lab Name: CRL SE ROCKFORD Contract: 5ESD-10C

Lab Code: 5SCRL Case No.: SF-1077 SAS No.: --- SDG No.: ---

Matrix: (soil/water) WATER Lab Sample ID: 93SV01S18

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: >AG100

Level: (low/med) LOW Date Received: 01/07/93

% Moisture: not dec.---- Date Analyzed: 1/07/93

Column: (pack/cap) CAP Dilution Factor: 1.00000

Final extract Volume: -- (uL) Conversion Factor: 1.0000

Aliquot Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	3.	U
74-87-3	Chloromethane	3.	U
75-01-4	Vinyl chloride	3.	U
74-83-9	Bromomethane	3.	U
75-00-3	Chloroethane	3.	U
75-69-4	Trichlorofluoromethane	3.	U
107-64-1	Acrolein	10.	U
75-35-4	1,1-Dichloroethene	2.	U
67-64-1	Acetone	15.	
75-15-0	Carbon disulfide	2.	U
75-09-2	Methylene chloride	2.	U
156-60-5	trans-1,2-Dichloroethene	2.	U
107-13-1	Acrylonitrile	10.	U
75-34-3	1,1-Dichloroethane	2.	U
108-05-4	Vinylacetate	10.	U
594-20-7	2,2-Dichloropropane	2.	U
156-59-2	cis-1,2-Dichloroethene	2.	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	2.	U
67-66-3	Chloroform	2.	U
71-55-6	1,1,1-trichloroethane	2.	U
56-23-5	Carbon tetrachloride	2.	U
563-58-6	1,1-Dichloropropene	2.	U
71-43-2	Benzene	2.	U
107-06-2	1,2-Dichloroethane	2.	U
79-01-6	Trichloroethene	2.	U
78-87-5	1,2-Dichloropropane	2.	U
74-95-3	Dibromomethane	2.	U
	2-Chloroethyl vinylether	2.	U
75-27-4	Bromodichloromethane	2.	U
10061-01-5	cis-1,3-dichloropropene	2.	U
108-88-3	Toluene	3.	
108-10-1	4-Methyl-2-pentanone	5.	U
10061-02-6	trans-1,3-Dichloropropene	2.	U
127-18-4	Tetrachloroethene	2.	U
79-00-5	1,1,2-Trichloroethane	2.	U
142-28-9	1,3-Dichloropropane	2.	U

Are there any TICs ? (Please check a box) YES |__| NO |✓|

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93SV01S18

Lab Name: CRL SE ROCKFORD Contract: 5ESD-10C

Lab Code: 5SCRL Case No.: SF-1077 SAS No.: --- SDG No.: ---

Matrix: (soil/water) WATER Lab Sample ID: 93SV01S18

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: >AG100

Level: (low/med) LOW Date Received: 01/07/93

% Moisture: not dec.---- Date Analyzed: 1/07/93

Column: (pack/cap) CAP Dilution Factor: 1.00000

Final extract Volume: -- (uL) Conversion Factor: 1.0000

Aliquot Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
591-78-6	2-Hexanone	5.	U
124-48-1	Dibromochloromethane	2.	U
106-93-4	1,2-Dibromoethane	2.	U
108-90-7	Chlorobenzene	2.	U
630-20-6	1,1,1,2-Tetrachloroethane	2.	U
100-41-4	Ethylbenzene	2.	U
1083836423	m &/or p-Xylene	2.	U
95-47-6	o-Xylene	2.	U
100-42-5	Styrene	2.	U
75-25-2	Bromoform	2.	U
98-82-8	Isopropylbenzene	2.	U
108-86-1	Bromobenzene	2.	U
96-18-4	1,2,3-Trichloropropane	2.	U
79-34-5	1,1,2,2-Tetrachloroethane	2.	U
103-65-1	n-Propylbenzene	2.	U
95-49-8	2-Chlorotoluene	2.	U
106-43-4	4-Chlorotoluene	2.	U
108-67-8	1,3,5-Trimethylbenzene	2.	U
98-06-6	tert-Butylbenzene	2.	U
95-63-6	1,2,4-Trimethylbenzene	2.	U
135-98-8	sec-Butylbenzene	2.	U
541-73-1	1,3-Dichlorobenzene	2.	U
106-46-7	1,4-Dichlorobenzene	2.	U
99-87-6	p-Isopropyltoluene	2.	U
95-50-1	1,2-Dichlorobenzene	2.	U
104-51-8	n-Butylbenzene	2.	U
96-12-8	1,2-Dibromo-3-chloropropane	2.	U
120-82-1	1,2,4-Trichlorobenzene	2.	U
91-20-3	Naphthalene	2.	U
87-68-3	Hexachlorobutadiene	2.	U
87-61-6	1,2,3-Trichlorobenzene	2.	U

FORM I-2 VOA 1/89 Rev.

Data Qualifiers: U = Compounds were analyzed but not detected. The value reported is the method detection limit for reagent water; J = Estimated; D=Diluted Sample; X = Result rejected for failing mass spectral confirmation; E = Concentration exceeded calibration range; B_ = Contaminant found in laboratory method blank; ARE THERE TICs ? (Circle) YES/NO

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93SV01S19

Lab Name: CRL SE ROCKFORD Contract: 5ESD-10C

Lab Code: 5SCRL Case No.: SF-1077 SAS No.: --- SDG No.: ---

Matrix: (soil/water) WATER Lab Sample ID: 93SV01S19

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: >AG101

Level: (low/med) LOW Date Received: 01/07/93

% Moisture: not dec.---- Date Analyzed: 1/07/93

Column: (pack/cap) CAP Dilution Factor: 1.00000

Final extract Volume: -- (uL) Conversion Factor: 1.0000

Aliquot Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	3.	U
74-87-3	Chloromethane	3.	U
75-01-4	Vinyl chloride	3.	U
74-83-9	Bromomethane	3.	U
75-00-3	Chloroethane	3.	U
75-69-4	Trichlorofluoromethane	3.	U
107-64-1	Acrolein	10.	U
75-35-4	1,1-Dichloroethene	2.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	2.	U
75-09-2	Methylene chloride	2.	U
156-60-5	trans-1,2-Dichloroethene	2.	U
107-13-1	Acrylonitrile	10.	U
75-34-3	1,1-Dichloroethane	5.	
108-05-4	Vinylacetate	10.	U
594-20-7	2,2-Dichloropropane	2.	U
156-59-2	cis-1,2-Dichloroethene	8.	
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	2.	U
67-66-3	Chloroform	2.	U
71-55-6	1,1,1-trichloroethane	2.	U
56-23-5	Carbon tetrachloride	2.	U
563-58-6	1,1-Dichloropropene	2.	U
71-43-2	Benzene	2.	U
107-06-2	1,2-Dichloroethane	2.	U
79-01-6	Trichloroethene	2.	U
78-87-5	1,2-Dichloropropane	2.	U
74-95-3	Dibromomethane	2.	U
	2-Chloroethyl vinylether	2.	U
75-27-4	Bromodichloromethane	2.	U
10061-01-5	cis-1,3-dichloropropene	2.	U
108-88-3	Toluene	1.	J
108-10-1	4-Methyl-2-pentanone	5.	U
10061-02-6	trans-1,3-Dichloropropene	2.	U
127-18-4	Tetrachloroethene	2.	U
79-00-5	1,1,2-Trichloroethane	2.	U
142-28-9	1,3-Dichloropropane	2.	U

Are there any TICs ? (Please check a box) YES [ ] NO [✓]

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93SV01S19

Lab Name: CRL SE ROCKFORD Contract: 5ESD-10C

Lab Code: 5SCRL Case No.: SF-1077 SAS No.: --- SDG No.: ---

Matrix: (soil/water) WATER Lab Sample ID: 93SV01S19

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: >AG101

Level: (low/med) LOW Date Received: 01/07/93

% Moisture: not dec.---- Date Analyzed: 1/07/93

Column: (pack/cap) CAP Dilution Factor: 1.00000

Final extract Volume: -- (uL) Conversion Factor: 1.0000

Aliquot Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
591-78-6	2-Hexanone	5.	U
124-48-1	Dibromochloromethane	2.	U
106-93-4	1,2-Dibromoethane	2.	U
108-90-7	Chlorobenzene	2.	U
630-20-6	1,1,1,2-Tetrachloroethane	2.	U
100-41-4	Ethylbenzene	2.	U
1083836423	m &/or p-Xylene	2.	U
95-47-6	o-Xylene	2.	U
100-42-5	Styrene	2.	U
75-25-2	Bromoform	2.	U
98-82-8	Isopropylbenzene	2.	U
108-86-1	Bromobenzene	2.	U
96-18-4	1,2,3-Trichloropropane	2.	U
79-34-5	1,1,2,2-Tetrachloroethane	2.	U
103-65-1	n-Propylbenzene	2.	U
95-49-8	2-Chlorotoluene	2.	U
106-43-4	4-Chlorotoluene	2.	U
108-67-8	1,3,5-Trimethylbenzene	2.	U
98-06-6	tert-Butylbenzene	2.	U
95-63-6	1,2,4-Trimethylbenzene	2.	U
135-98-8	sec-Butylbenzene	2.	U
541-73-1	1,3-Dichlorobenzene	2.	U
106-46-7	1,4-Dichlorobenzene	2.	U
99-87-6	p-Isopropyltoluene	2.	U
95-50-1	1,2-Dichlorobenzene	2.	U
104-51-8	n-Butylbenzene	2.	U
96-12-8	1,2-Dibromo-3-chloropropane	2.	U
120-82-1	1,2,4-Trichlorobenzene	2.	U
91-20-3	Naphthalene	2.	U
87-68-3	Hexachlorobutadiene	2.	U
87-61-6	1,2,3-Trichlorobenzene	2.	U

FORM I-2 VOA 1/89 Rev.

Data Qualifiers: U = Compounds were analyzed but not detected. The value reported is the method detection limit for reagent water; J = Estimated; D=Diluted Sample; X = Result rejected for failing mass spectral confirmation; E = Concentration exceeded calibration range; B_ = Contaminant found in laboratory method blank; ARE THERE TICs ? (Circle) YES/NO

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93SV01S20

Lab Name:CRL SE ROCKFORD Contract:5ESD-10C

Lab Code: 5SCRL Case No.: SF-1077 SAS No.: --- SDG No.: ---

Matrix: (soil/water) WATER Lab Sample ID: 93SV01S20

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: >AG102

Level: (low/med) LOW Date Received: 01/07/93

% Moisture: not dec.---- Date Analyzed: 1/07/93

Column: (pack/cap) CAP Dilution Factor: 1.00000

Final extract Volume: -- (uL) Conversion Factor: 1.0000

Aliquot Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	3.	U
74-87-3	Chloromethane	3.	U
75-01-4	Vinyl chloride	3.	U
74-83-9	Bromomethane	3.	U
75-00-3	Chloroethane	3.	U
75-69-4	Trichlorofluoromethane	3.	U
107-64-1	Acrolein	10.	U
75-35-4	1,1-Dichloroethene	2.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	2.	U
75-09-2	Methylene chloride	2.	U
156-60-5	trans-1,2-Dichloroethene	2.	U
107-13-1	Acrylonitrile	10.	U
75-34-3	1,1-Dichloroethane	11.	
108-05-4	Vinylacetate	10.	U
594-20-7	2,2-Dichloropropane	2.	U
156-59-2	cis-1,2-Dichloroethene	21.	
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	2.	U
67-66-3	Chloroform	2.	U
71-55-6	1,1,1-trichloroethane	3.	
56-23-5	Carbon tetrachloride	2.	U
563-58-6	1,1-Dichloropropene	2.	U
71-43-2	Benzene	2.	U
107-06-2	1,2-Dichloroethane	2.	J
79-01-6	Trichloroethene	2.	U
78-87-5	1,2-Dichloropropane	2.	U
74-95-3	Dibromomethane	2.	U
	2-Chloroethyl vinylether	2.	U
75-27-4	Bromodichloromethane	2.	U
10061-01-5	cis-1,3-dichloropropene	2.	U
108-88-3	Toluene	.9	J
108-10-1	4-Methyl-2-pentanone	5.	U
10061-02-6	trans-1,3-Dichloropropene	2.	U
127-18-4	Tetrachloroethene	2.	U
79-00-5	1,1,2-Trichloroethane	2.	U
142-28-9	1,3-Dichloropropane	2.	U

Are there any TICs ? (Please check a box) YES |__| NO |✓|

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93SV01S20

Lab Name:CRL SE ROCKFORD Contract:5ESD-10C

Lab Code: 5SCRL Case No.: SF-1077 SAS No.: --- SDG No.: ---

Matrix: (soil/water) WATER Lab Sample ID: 93SV01S20

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: >AG102

Level: (low/med) LOW Date Received: 01/07/93

% Moisture: not dec.---- Date Analyzed: 1/07/93

Column: (pack/cap) CAP Dilution Factor: 1.00000

Final extract Volume: -- (uL) Conversion Factor: 1.0000

Aliquot Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
591-78-6	2-Hexanone	5.	U
124-48-1	Dibromochloromethane	2.	U
106-93-4	1,2-Dibromoethane	2.	U
108-90-7	Chlorobenzene	2.	U
630-20-6	1,1,1,2-Tetrachloroethane	2.	U
100-41-4	Ethylbenzene	2.	U
1083836423	m &/or p-Xylene	2.	U
95-47-6	o-Xylene	2.	U
100-42-5	Styrene	2.	U
75-25-2	Bromoform	2.	U
98-82-8	Isopropylbenzene	2.	U
108-86-1	Bromobenzene	2.	U
96-18-4	1,2,3-Trichloropropane	2.	U
79-34-5	1,1,2,2-Tetrachloroethane	2.	U
103-65-1	n-Propylbenzene	2.	U
95-49-8	2-Chlorotoluene	2.	U
106-43-4	4-Chlorotoluene	2.	U
108-67-8	1,3,5-Trimethylbenzene	2.	U
98-06-6	tert-Butylbenzene	2.	U
95-63-6	1,2,4-Trimethylbenzene	2.	U
135-98-8	sec-Butylbenzene	2.	U
541-73-1	1,3-Dichlorobenzene	2.	U
106-46-7	1,4-Dichlorobenzene	2.	U
99-87-6	p-Isopropyltoluene	2.	U
95-50-1	1,2-Dichlorobenzene	2.	U
104-51-8	n-Butylbenzene	2.	U
96-12-8	1,2-Dibromo-3-chloropropane	2.	U
120-82-1	1,2,4-Trichlorobenzene	2.	U
91-20-3	Naphthalene	2.	U
87-68-3	Hexachlorobutadiene	2.	U
87-61-6	1,2,3-Trichlorobenzene	2.	U

FORM I-2 VOA 1/89 Rev.

Data Qualifiers: U = Compounds were analyzed but not detected. The value reported is the method detection limit for reagent water; J = Estimated; D=Diluted Sample; X = Result rejected for failing mass spectral confirmation; E = Concentration exceeded calibration range; B_ = Contaminant found in laboratory method blank; ARE THERE TICs ? (Circle) YES/NO

ESAT-5-007.0

To: Jay Thakkar, DPO EPA

For: Transmittal to Babu Paruchuri, EPA Task Monitor

Thru: Dennis Miller, ESAT Team Manager

From: Anthony Gugliotta, ESAT Chemist
Ziyad A. Rajabi, ESAT Chemist

Copies: Ira Wilson, ESAT Assistant Team Manager
Kelly Head, ESAT Organic Group Leader

Date: January 22, 1993

SUBJECT: Data Set SF1077 (Part 2 of 2)
Volatile Organic Analysis (VOA)

U.S. Environmental Protection Agency Region V

Superfund Document Management System (SDMS)

Lab Data Reference Sheet

Please contact the Superfund Records Manager for further information.

I. Unscannable item due to format

___ Graph

___ Mail receipts

X Sample tags

II. Image Quality (Pages follow / No. of pages ____)

___ Resolution / Contrast

Tune files: LEAK 1 and MTMSD1

Repeller	(0 - 10.2 V)	10.20	Ion Focus	(0 - 204 V)	0
Ent. lens	(0 - 255 mv/AMU)	50	X - ray	(0 - 204 V)	76
El. Mult	(0 - 3000 V)	1913			
AMU Gain	(0 - 255)	150	AMU Offset	(0 - 255)	52
Axis Gain	(0 - +/- 999)	57	Axis Offset	(0 - +/- 999)	11

LOCKHEED ENGINEERING AND SCIENCE COMPANY
REGION 5
ESAT PROJECT
536 SOUTH CLARK STREET
CHICAGO, IL 60605

RAW DATA ARCHIVING AND DATA SET RECONSTRUCTION FORM

DISK OR TAPE NUMBER: TAPE 9

RUN DATE(S): 12/8/92, 1/7/93 and 1/14/93
INSTRUMENT NO: HP MS #4
ANALYST(S): A. Gugliotta, LESAT

SAMPLE SUMMARY MATRIX

DATA SET NUMBER:	SF1077				
TASK NUMBER:	232-51-028				
DU/ACTIVITY NUMBER:	301				
PARAMETER:	VOA				
MATRIX:	WATER				
NUMBER OF SAMPLES:	8				
DATE RECEIVED:	Jan. 5-7, 1993				
DATE EXTRACTED:	NA				
NOTEBOOK/PAGE NO:					
DATE ASSAYED:	Jan 7+14, 1993				

FILE IDENTIFICATION SUMMARY

TUNING FILE:	>AG004	>AG088	>AG103		
BLANK FILE:	>AG011	>AG090	>AG106		

PRIMARY COLUMN

INITIAL CALIBRATION FILE: >AG005 - >AG009
CONTINUING CALIBRATION FILES: >AG089, >AG105
STANDARDS FILES: >AG089 >AG105
SAMPLE FILES: >AG092, >AG093, >AG094, >AG098 - >AG102, >AG107 and >AG108
ID/METHOD FILES: ID FILES: IDAG1B, IDAG1F, IDAG1G
METHOD FILES: BFB#1, VOA #1

SECONDARY COLUMN

INITIAL CALIBRATION FILE: N/A
CONTINUING CALIBRATION FILES:
STANDARDS FILES:
SAMPLE FILES:
ID/METHOD FILES:

ESAT-5-018.1

LOCKHEED
ANALYTICAL LABORATORY
TIME TRACKING RECORD

Task Number: 231-51-028
TID Number: 05-92-12-20
SF Number: SF1077
Site Name: SE Rockford
Assigned To:

Date Assigned: ~~12-92~~ 12-4-92 KDH 1-20-93
Date Due: 12-31-92
Estimated Hours: 480

VOA ✓ BNA _____ Pest/PCBs _____ Other _____

****

Extraction Record

Person:	Date:	Hours:
Person:	Date:	Hours:
Person:	Date:	Hours:
Person:	Date:	Hours:

****

Analysis Record

Person: KDH/AG	Date: 12/4	Hours: 1.5/5/
Person: ZR/AG/KH	Date: 12/11	Hours: 20/18/15
Person: ZR/KH/AG	Date: 12/18	Hours: 16/13/32
Person: ZR/AG	Date: 12/25	Hours: 4/28
Person: AG	Date: 1/1	Hours: 4/
Person: ZR/AG ZR/AG AG/ZR	Date: 1/8 1/15 1/22	Hours: 18/32 32/6 12.5/29.5 3

****

QA/QC Record

Person: KH	Date: 1/15	Hours: 1
Person: KDH/LK	Date: 1/22+25	Hours: 2
Person:	Date:	Hours:

****

LIMS Data Entry

Person:	Date:	Hours:
Person:	Date:	Hours:

****

Comments: This not all of the samples from this site.

****

Total Hours: ~~249.5~~ KDH 289.5 as of 1-26-93 total hrs. for TID

EMT: _____

LOCKHEED ENGINEERING & SCIENCES COMPANY

VOLATILE ORGANIC DELIVERABLES CHECK-OFF LIST

DATA SET NUMBER: SF 1077 CHARGE NUMBER: 232-51-028

PRESENT	NOT REQD	ITEM
		REPORTING INFORMATION
[ ]	[✓]	SAMPLE REPORT LOG
[✓]	[ ]	DATA SET CUSTODY TRANSFER FORM
[✓]	[ ]	NARRATIVE
[✓]	[ ]	RUN SEQUENCE
[ ]	[✓]	ABN BENCH SHEET
		AQC
[✓]	[ ]	SURROGATE RECOVERY (FORM II)
[✓]	[ ]	MATRIX SPIKE/DUP (FORM III)
[✓]	[ ]	MS/MSD RAW DATA
[✓]	[ ]	METHOD BLANK (FORM VI)
[✓]	[ ]	MASS CAL/TUNING (FORM V)
[✓]	[ ]	MASS CAL RAW DATA
[ ]	[✓]	MDL RESULTS

PRESENT	NOT REQD	ITEM
		CALIBRATION DATA
[✓]	[ ]	INITIAL CAL RRF (FORM VI)
[✓]	[ ]	ICV RAW DATA
[✓]	[ ]	CONT CAL VERIFI (FORM VII)
[✓]	[ ]	CCV RAW DATA
[✓]	[ ]	INT STD AREA & RT (FORM VIII)
		SAMPLE DATA
[✓]	[ ]	ID FILE (SHORT) (HP ONLY)
[✓]	[ ]	TCL RESULTS (FORM I)
[✓]	[ ]	TIC RESULTS (FORM I-TIC)
[✓]	[ ]	SAMPLE RAW DATA
[✓]	[ ]	SAMPLE TAGS
[✓]	[ ]	ARCHIVE REFERENCE
[✓]	[ ]	QC SUMMARY PACKAGE (FORMS 2-8)

2A
WATER VOLATILE SURROGATE RECOVERY

Lab Name:CRL SE ROCKFORD Contract:5ESD-10C

Lab Code: 5SCRL Case No.: SF-1077 SAS No.: --- SDG No.: ---

	EPA SAMPLE NO.	S1 (BEN)#	S2 (BFB)#	S3 (DCB)#	OTHER	TOT OUT
01	010793BLK1	103	97	103		0
02	93SV01R11	103	99	103		0
03	93SV01R12	102	101	104		0
04	93SV01R13	100	102	108		0
05	93SV01D19	100	107	110		0
06	93SV01S17	99	105	106		0
07	93SV01S18	100	102	107		0
08	93SV01S19	99	101	106		0
09	93SV01S20	98	106	109		0
10	011493BLK1	102	97	102		0
11	93SV01S19MS	104	103	98		0
12	93SV01S19MD	102	103	101		0
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	QC LIMITS
S1 (BEN) = Benzene-d6	(70-130)
S2 (BFB) = Bromofluorobenzene	(70-130)
S3 (DCB) = 1,2-Dichlorobenzene-d4	(70-130)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

FORM II VOA-1 1/87 Rev.

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:CRL SE ROCKFORD Contract:5ESD-10C

Lab Code: 5SCRL Case No.: SF-1077 SAS No.: --- SDG No.: ---

Matrix Spike - EPA Sample No.: 93SV01S19

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	10.00	0.00	9.50	95	70-130
Trichloroethene	10.00	0.00	8.60	86	70-130
Benzene	10.00	0.00	11.00	110	70-130
Toluene	10.00	1.20	13.00	120	70-130
Chlorobenzene	10.00	0.00	12.00	120	70-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	10.00	8.80	88	7	25	70-130
Trichloroethene	10.00	8.80	88	2	25	70-130
Benzene	10.00	10.00	100	9	25	70-130
Toluene	10.00	12.00	100	18	25	70-130
Chlorobenzene	10.00	11.00	110	8	25	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of qc limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: CRL SE ROCKFORD Contract: 5ESD-10C

Lab Code: 5SCRL Case No.: SF-1077 SAS No.: --- SDG No.: ---

Lab File ID: >AG011 Lab Sample ID: 120892BLK2

Date Analyzed: 12/08/92 Time Analyzed: 16:33

Matrix: (soil/water) WATER Level: (low/med) LOW

Instrument ID: HP MS#4

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	ICAL CHECK	ICAL CHECK	>AG012	17:13
02	120892BLK3	METHOD BLK#3	>AG013	17:52
03				
04				
05				
06				
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COMMENTS:

FORM IV VOA 1/87 Rev.

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: CRL SE ROCKFORD Contract: 5ESD-10C

Lab Code: 5SCRL Case No.: SF-1077 SAS No.: --- SDG No.: ---

Lab File ID: >AG090 Lab Sample ID: 010793BLK1

Date Analyzed: 1/07/93 Time Analyzed: 10:16

Matrix: (soil/water) WATER Level: (low/med) LOW

Instrument ID: HP MS#4

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	93SV01R11	93SV01R11	>AG092	11:51
02	93SV01R12	93SV01R12	>AG093	12:30
03	93SV01R13	93SV01R13	>AG094	13:17
04	93SV01D19	93SV01D19	>AG098	15:53
05	93SV01S17	93SV01S17	>AG099	16:32
06	93SV01S18	93SV01S18	>AG100	17:12
07	93SV01S19	93SV01S19	>AG101	17:51
08	93SV01S20	93SV01S20	>AG102	18:30
09				
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COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name:CRL SE ROCKFORD Contract:5ESD-10C

Lab Code: 5SCRL Case No.: SF-1077 SAS No.: --- SDG No.: ---

Lab File ID: >AG106 Lab Sample ID: 011493BLK1

Date Analyzed: 1/14/93 Time Analyzed: 13:48

Matrix: (soil/water) WATER Level:(low/med) LOW

Instrument ID: HP MS#4

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	93SV01S19MS	93SV01S19MS	>AG107	14:38
02	93SV01S19MD	93SV01S19MSD	>AG108	15:17
03				
04				
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COMMENTS:

FORM IV VOA 1/87 Rev.

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: CRL SE ROCKFORD Contract: 5ESD-10C

Lab Code: 5SCRL Case No.: SF-1077 SAS No.: --- SDG No.: ---

Lab File ID: >AG004 BFB Injection Date: 12/08/92

Instrument ID: HP MS#4 BFB Injection Time: 11:24

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% OF MASS 95	23.4
75	30.0 - 60.0% OF MASS 95	54.7
95	Base peak, 100% relative abundance	100.
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	.9(1.3)1
174	Greater than 50.0% of mass 95	70.1
175	5.0 - 9.0% of mass 174	6.1(8.6)1
176	Greater than 95.0%, but less than 101.0% of mass 174	68.4(97.6)1
177	5.0 - 9.0% of mass 176	4.8(7.0)2

1-Value is % mass 174 2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VOASTD5	VOASTD05PPB	>AG005	12/08/92	11:50
02	VOASTD25	VOASTD25PPB	>AG006	12/08/92	13:17
03	VOASTD50	VOASTD50PPB	>AG007	12/08/92	13:56
04	VOASTD100	VOASTD100PPB	>AG008	12/08/92	14:36
05	VOASTD150	VOASTD150PPB	>AG009	12/08/92	15:15
06	120892BLK2	METHOD BLK#2	>AG011	12/08/92	16:33
07	ICAL CHECK	ICAL CHECK	>AG012	12/08/92	17:13
08	120892BLK3	METHOD BLK#3	>AG013	12/08/92	17:52
09					
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22					

FORM V VOA 1/87 Rev.

GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

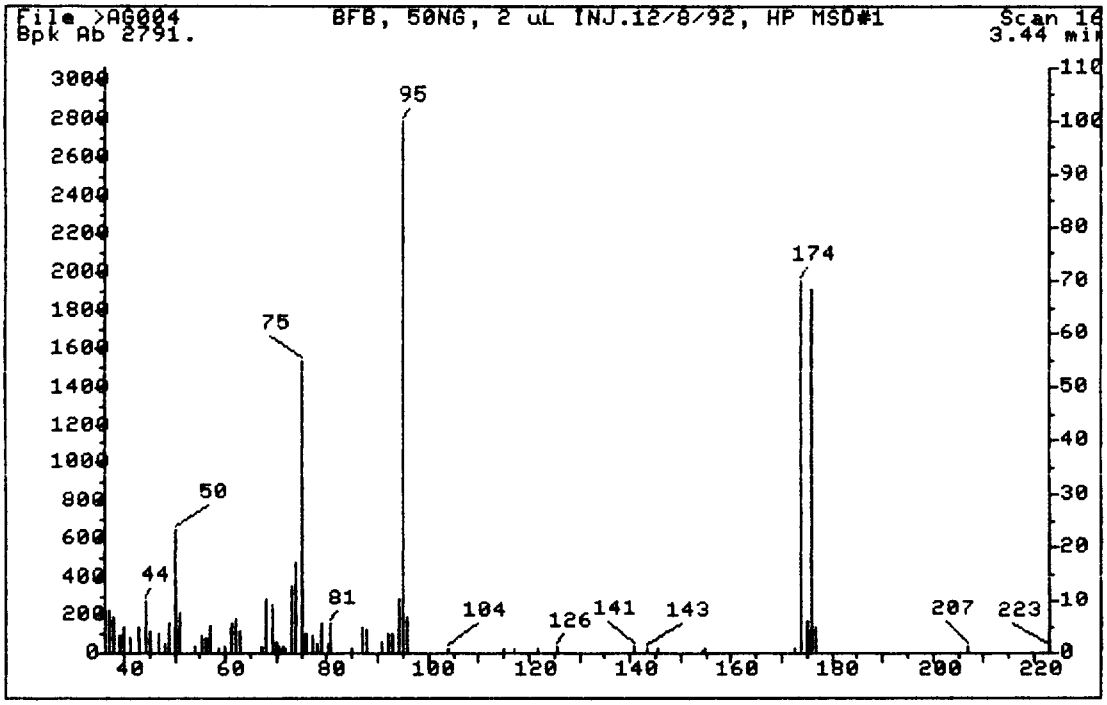
m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
50	15-40% of mass 95	23.40	23.40	Ok
75	30-60% of mass 95	54.68	54.68	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	6.95	6.95	Ok
173	Less than 2% of mass 174	.93	1.33	Ok
174	Greater than 50% of mass 95	70.08	70.08	Ok
175	5-9% of mass 174	6.06	8.64	Ok
176	95-101% of mass 174	68.43	97.65	Ok
177	5-9% of mass 176	4.80	7.02	Ok

Injection Date: 12/08/92
Injection Time: 11:24
Data File: >AG004
Scan: 165

MS data file header from : >AG108::D5

Sample: 93SV01S19MSD Operator: KELLY REG. GRP. 1/14/93 15:17
Misc : 1/14/93 HP MS#4, 1uL SPK/5mL PURGE
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS # : 0 Equip ID: HP MS#4
Method file: VOA#1 Tuning file: MTMSD1 No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	10.	160.	0.	0.	0.
Chromatographic times, min. :	5.0	5.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	6.0	0.0	0.0	.1	0.0



MS data file header from : >AG108::D5

Sample: 93SV01S19MSD Operator: KELLY REG. GRP. 1/14/93 15:17
Misc : 1/14/93 HP MS#4, 1uL SPK/5mL PURGE
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS # : 0 Equip ID: HP MS#4
Method file: VOA#1 Tuning file: MTMSD1 No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	10.	160.	0.	0.	0.
Chromatographic times, min. :	5.0	5.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	6.0	0.0	0.0	.1	0.0

>AG004 BFB, 50NG, 2 uL INJ.12/8/92, HP MSD#1
165

File: >AG004 Scan #: 165 Retn. time: 3.44

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
36.05	60.00	54.05	38.00	70.65	37.00	84.95	21.00	125.70	31.00
37.05	228.00	55.05	86.00	71.15	29.00	87.00	139.00	140.80	30.00
38.05	188.00	56.05	79.00	71.35	28.00	87.90	121.00	143.20	23.00
39.05	94.00	57.05	145.00	71.85	23.00	90.90	57.00	145.65	22.00
40.05	136.00	58.55	19.00	73.05	353.00	92.10	99.00	154.25	16.00
41.05	77.00	60.05	32.00	74.05	477.00	93.10	103.00	154.75	21.00
43.05	136.00	61.05	155.00	75.05	1526.00	94.10	290.00	172.75	26.00
44.05	278.00	61.95	181.00	75.95	102.00	95.10	2791.00	173.95	1956.00
45.05	108.00	63.05	113.00	77.05	85.00	96.00	194.00	174.95	169.00
46.95	97.00	67.05	31.00	77.95	43.00	104.10	25.00	175.95	1910.00
48.05	49.00	68.05	290.00	78.95	152.00	114.80	18.00	176.95	134.00
49.05	162.00	69.05	263.00	80.15	47.00	117.00	23.00	207.00	37.00
50.05	653.00	70.05	52.00	80.85	160.00	121.80	24.00	223.10	28.00
51.05	215.00								

MS data file header from : >AG108::D5

Sample: 93SV01S19MSD Operator: KELLY REG. GRP. 1/14/93 15:17
Misc : 1/14/93 HP MS#4, 1uL SPK/5mL PURGE
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS # : 0 Equip ID: HP MS#4
Method file: VOA#1 Tuning file: MTMSD1 No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	10.	160.	0.	0.	0.
Chromatographic times, min. :	5.0	5.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	6.0	0.0	0.0	.1	0.0

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name:CRL SE ROCKFORD Contract:5ESD-10C

Lab Code: 5SCRL Case No.: SF-1077 SAS No.: --- SDG No.: ---

Lab File ID: >AG088 BFB Injection Date: 1/07/93

Instrument ID: HP MS#4 BFB Injection Time: 9:04

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% OF MASS 95	23.6
75	30.0 - 60.0% OF MASS 95	49.1
95	Base peak, 100% relative abundance	100.
96	5.0 - 9.0% of mass 95	7.5
173	Less than 2.0% of mass 174	0.0(0.0)1
174	Greater than 50.0% of mass 95	71.5
175	5.0 - 9.0% of mass 174	5.7(7.9)1
176	Greater than 95.0%, but less than 101.0% of mass 174	68.7(96.1)1
177	5.0 - 9.0% of mass 176	5.3(7.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	50 PPB STD	50 PPB STD	>AG089	1/07/93	9:38
02	010793BLK1	010793BLK1	>AG090	1/07/93	10:16
03	93SV01R11	93SV01R11	>AG092	1/07/93	11:51
04	93SV01R12	93SV01R12	>AG093	1/07/93	12:30
05	93SV01R13	93SV01R13	>AG094	1/07/93	13:17
06	93SV01D19	93SV01D19	>AG098	1/07/93	15:53
07	93SV01S17	93SV01S17	>AG099	1/07/93	16:32
08	93SV01S18	93SV01S18	>AG100	1/07/93	17:12
09	93SV01S19	93SV01S19	>AG101	1/07/93	17:51
10	93SV01S20	93SV01S20	>AG102	1/07/93	18:30
11					
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22					

FORM V VOA 1/87 Rev.

GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

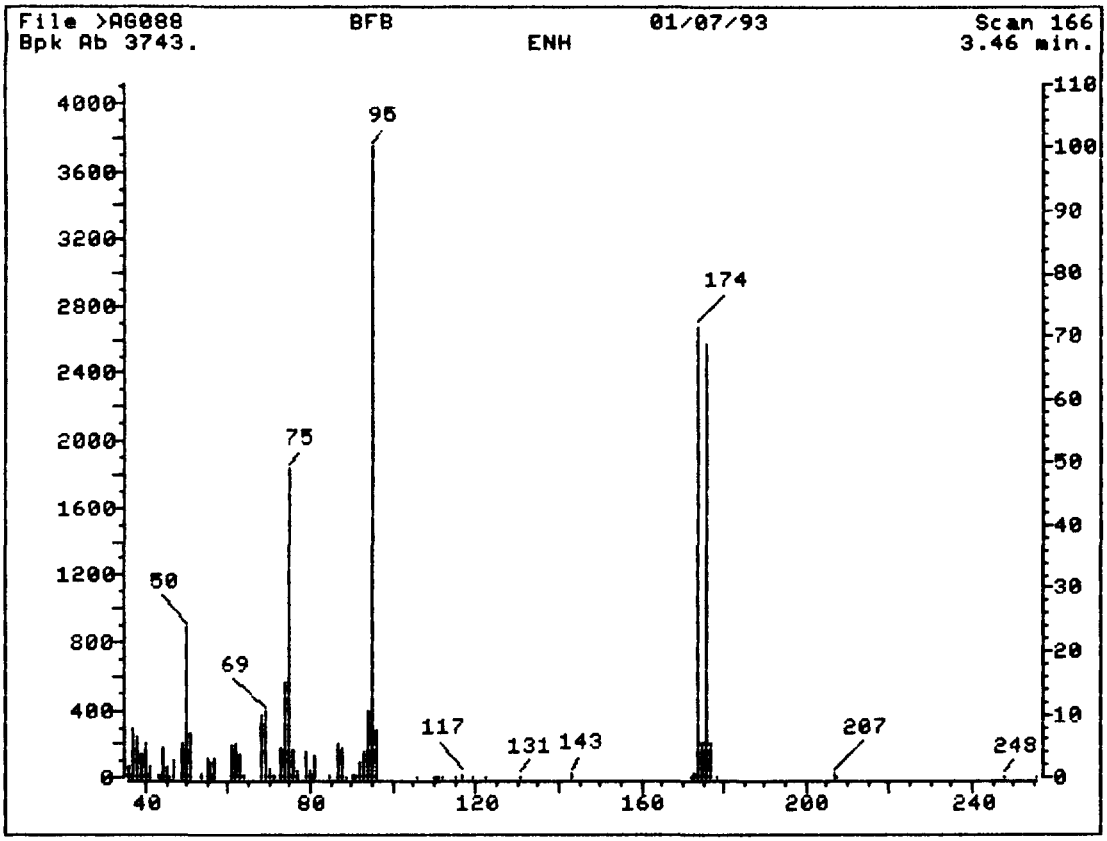
m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
50	15-40% of mass 95	23.59	23.59	Ok
75	30-60% of mass 95	49.05	49.05	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	7.55	7.55	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	71.49	71.49	Ok
175	5-9% of mass 174	5.65	7.91	Ok
176	95-101% of mass 174	68.71	96.10	Ok
177	5-9% of mass 176	5.33	7.76	Ok

Injection Date: 01/07/93
Injection Time: 09:04
Data File: >AG088
Scan: 166

MS data file header from : >AG088::D5

Sample: BFB Operator: KELLY REG. GRP. 1/07/93 9:04
Misc : 01/07/93
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS # : 0 Equip ID: HP MS#4
Method file: BFB#1 Tuning file: MTMSD1 No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	100.	160.	0.	0.	0.
Chromatographic times, min. :	0.0	1.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	15.0	0.0	0.0	.1	0.0



MS data file header from : >AG088::D5

Sample: BFB Operator: KELLY REG. GRP. 1/07/93 9:04
Misc : 01/07/93
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS # : 0 Equip ID: HP MS#4
Method file: BFB#1 Tuning file: MTMSD1 No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	100.	160.	0.	0.	0.
Chromatographic times, min. :	0.0	1.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	15.0	0.0	0.0	.1	0.0

>AG088 BFB 01/07/93
166 ENH

File: >AG088 Scan #: 166 Retn. time: 3.46

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
36.05	69.80	53.75	26.40	74.95	1836.20	92.90	157.00	130.80	7.00
37.05	290.80	55.15	113.40	75.95	168.00	94.00	391.20	142.90	26.00
37.95	240.00	55.85	85.80	76.65	46.20	95.00	3743.20	172.15	8.40
38.95	140.20	56.05	16.20	77.05	35.80	96.00	282.60	172.65	22.40
39.85	205.80	56.85	110.80	78.85	159.00	105.70	9.20	173.85	2676.20
41.05	70.60	60.95	193.20	79.75	37.60	110.10	5.60	174.85	211.60
43.25	20.60	61.95	203.00	80.25	14.80	110.40	4.60	175.85	2571.80
43.45	10.20	62.95	138.60	80.85	131.00	110.90	6.80	176.95	199.60
44.05	183.00	63.85	10.00	84.65	10.00	111.20	5.20	178.25	5.00
45.05	60.20	67.95	374.00	86.90	200.80	112.30	4.60	206.90	25.20
45.95	9.20	68.95	390.40	87.90	178.20	115.00	8.20	207.10	5.20
47.05	101.20	69.95	47.60	88.60	5.40	116.80	18.80	207.50	4.20
48.95	207.60	71.25	9.80	90.50	13.20	119.30	5.40	248.00	4.20
50.05	883.20	72.95	179.60	90.90	21.20	122.40	3.40	255.70	3.20
50.95	273.00	73.95	557.40	92.00	92.20				

MS data file header from : >AG088::D5

Sample: BFB Operator: KELLY REG. GRP. 1/07/93 9:04
Misc : 01/07/93
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS # : 0 Equip ID: HP MS#4
Method file: BFB#1 Tuning file: MTMSD1 No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	100.	160.	0.	0.	0.
Chromatographic times, min. :	0.0	1.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	15.0	0.0	0.0	.1	0.0

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name:CRL SE ROCKFORD Contract:5ESD-10C

Lab Code: 5SCRL Case No.: SF-1077 SAS No.: --- SDG No.: ---

Lab File ID: >AG103 BFB Injection Date: 1/14/93

Instrument ID: HP MS#4 BFB Injection Time: 10:28

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% OF MASS 95	22.9
75	30.0 - 60.0% OF MASS 95	45.1
95	Base peak, 100% relative abundance	100.
96	5.0 - 9.0% of mass 95	6.2
173	Less than 2.0% of mass 174	0.0(0.0)1
174	Greater than 50.0% of mass 95	74.7
175	5.0 - 9.0% of mass 174	4.9(6.6)1
176	Greater than 95.0%, but less than 101.0% of mass 174	72.5(97.0)1
177	5.0 - 9.0% of mass 176	4.5(6.2)2

1-Value is % mass 174 2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	50 PPB STD	50 PPB STD	>AG105	1/14/93	13:10
02	011493BLK1	011493BLK1	>AG106	1/14/93	13:48
03	93SV01S19MS	93SV01S19MS	>AG107	1/14/93	14:38
04	93SV01S19MD	93SV01S19MSD	>AG108	1/14/93	15:17
05					
06					
07					
08					
09					
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12					
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14					
15					
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17					
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20					
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22					

FORM V VOA 1/87 Rev.

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name:CRL SE ROCKFORD Contract:5ESD-10C

Lab Code: 5SCRL Case No.: SF1077 SAS No.: --- SDG No.: ---

Instrument ID: HP MS Calibration Date(s):12/08/92 --/--/--

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

Min $\overline{RRF}$ for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 35.0%

LAB FILE ID: RRF5 =>AG005 RRF25 =>AG006
RRF50 =>AG007 RRF100=>AG008 RRF150=>AG009

COMPOUND		RRF5	RRF25	RRF50	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane		.200	.180	.158	.194	.173	.181	9.4
Chloromethane	#	.234	.295	.241	.229	.225	.245	11.6#
Vinyl chloride	*	.254	.260	.215	.220	.207	.231	10.4*
Bromomethane		.124	.119	.100	.104	.101	.110	10.2
Chloroethane		.096	.065	.056	.050	.049	.063	30.5
Trichlorofluoromethane		.427	.362	.216	.225	.209	.288	34.8
Acrolein		.016	.020	.020	.013	.014	.016	20.0
1,1-Dichloroethene	*	.218	.268	.229	.188	.189	.218	15.2*
Acetone		.229	.271	.277	.209	.219	.241	12.9
Carbon disulfide		.531	.902	.799	.584	.549	.673	24.8
Methylene chloride		.098	.132	.128	.105	.105	.114	13.3
trans-1,2-Dichloroethene		.216	.228	.225	.204	.199	.214	5.9
Acrylonitrile		.084	.100	.104	.087	.090	.093	9.1
1,1-Dichloroethane	#	.412	.468	.471	.432	.420	.441	6.2#
Vinyl acetate		.263	.018	.358	.332	.316	.257	53.6
2,2-Dichloropropane		.233	.368	.408	.381	.370	.352	19.4
cis-1,2-Dichloroethene		.160	.308	.316	.286	.279	.270	23.4
2-Butanone		.201	.315	.314	.249	.264	.269	17.9
Bromochloromethane		.077	.158	.159	.141	.133	.134	25.2
Chloroform	*	.269	.555	.560	.507	.496	.477	25.1*
1,1,1-trichloroethane		.202	.383	.389	.361	.352	.337	22.9
Carbon tetrachloride		.125	.283	.298	.287	.282	.255	28.6
1,1-Dichloropropene		.211	.404	.403	.376	.359	.350	22.9
Benzene		.408	1.082	1.090	.984	.955	.904	31.4
1,2-Dichloroethane	*	.225	.463	.461	.404	.418	.394	24.8*
Trichloroethene		.259	.512	.325	.300	.300	.339	29.4
1,2-Dichloropropane		.309	.356	.364	.330	.338	.339	6.4
Dibromomethane		.190	.228	.234	.200	.205	.211	8.9
Bromodichloromethane		.339	.373	.414	.368	.385	.376	7.3
cis-1,3-dichloropropene		.187	.200	.243	.229	.239	.220	11.3
Toluene	*	.500	.622	.624	.556	.553	.571	9.1*
4-Methyl-2-pentanone		.381	.435	.467	.367	.401	.410	10.0
trans-1,3-Dichloropropene		.140	.132	.178	.162	.173	.157	12.9
Tetrachloroethene		.226	.307	.302	.268	.262	.273	12.1
1,1,2-Trichloroethane		.028	.023	.022	.019	.020	.023	15.2
1,3-Dichloropropane		.387	.466	.490	.424	.434	.440	9.0
2-Hexanone		.326	.395	.401	.315	.351	.357	11.0

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name:CRL SE ROCKFORD Contract:5ESD-10C

Lab Code: 5SCRL Case No.: SF1077 SAS No.: --- SDG No.: ---

Instrument ID: HP MS Calibration Date(s):12/08/92 --/--/--

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

Min $\overline{RRF}$ for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 35.0%

LAB FILE ID: RRF5 =>AG005 RRF25 =>AG006
RRF50 =>AG007 RRF100=>AG008 RRF150=>AG009

COMPOUND	RRF5	RRF25	RRF50	RRF100	RRF150	$\overline{RRF}$	% RSD
Dibromochloromethane	.220	.239	.290	.259	.269	.256	10.6
1,2-Dibromoethane	.240	.241	.289	.250	.262	.256	7.9
Chlorobenzene #	.749	.957	.981	.891	.899	.895	10.1#
1,1,1,2-Tetrachloroethane	.243	.245	.342	.304	.313	.289	15.1
Ethylbenzene *	1.232	1.594	1.632	1.483	1.501	1.488	10.5*
m &/or p-Xylene	.429	.563	.562	.485	.472	.502	11.7
o-Xylene	.422	.569	.572	.513	.507	.516	11.8
Styrene	.563	.747	.774	.700	.702	.697	11.6
Bromoform #	.195	.192	.275	.247	.262	.234	16.4#
Isopropylbenzene	1.081	1.477	1.544	1.413	1.426	1.388	12.9
Bromobenzene	.322	.411	.424	.380	.381	.384	10.3
1,2,3-Trichloropropane	.333	.310	.417	.343	.360	.353	11.4
1,1,2,2-Tetrachloroethane	.440	.011	.504	.399	.429	.357	55.2
n-Propylbenzene	.277	.365	.386	.341	.346	.343	11.9
2-Chlorotoluene	.283	.361	.365	.330	.333	.334	9.9
4-Chlorotoluene	.278	.359	.358	.307	.306	.322	11.1
1,3,5-Trimethylbenzene	.918	1.111	1.181	1.049	1.042	1.060	9.2
tert-Butylbenzene	.694	.988	1.012	.931	.944	.914	13.9
1,2,4-Trimethylbenzene	.866	1.095	1.179	1.079	1.098	1.063	11.0
sec-Butylbenzene	1.152	1.608	1.672	1.514	1.540	1.497	13.5
1,3-Dichlorobenzene	.548	.723	.736	.644	.653	.661	11.4
1,4-Dichlorobenzene	.461	.597	.585	.491	.479	.523	12.1
p-Isopropyltoluene	.876	1.178	1.224	1.064	1.048	1.078	12.6
1,2-Dichlorobenzene	.549	.685	.698	.614	.612	.631	9.6
n-Butylbenzene	1.050	1.256	1.352	1.220	1.254	1.226	9.0
1,2-Dibromo-3-chloropropane	.072	.001	.092	.073	.081	.064	56.5
1,2,4-Trichlorobenzene	.367	.384	.414	.366	.373	.381	5.2
Naphthalene	.701	.470	.696	.580	.612	.612	15.5
Hexachlorobutadiene	.265	.376	.380	.334	.327	.336	13.7
1,2,3-Trichlorobenzene	.369	.348	.381	.334	.341	.354	5.5
Benzene-d6	.502	1.140	1.095	1.096	1.069	.980	27.4
p-Bromofluorobenzene	.414	.431	.435	.453	.460	.439	4.2
1,2-Dichlorobenzene-d4	.467	.458	.457	.453	.441	.455	2.0

GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

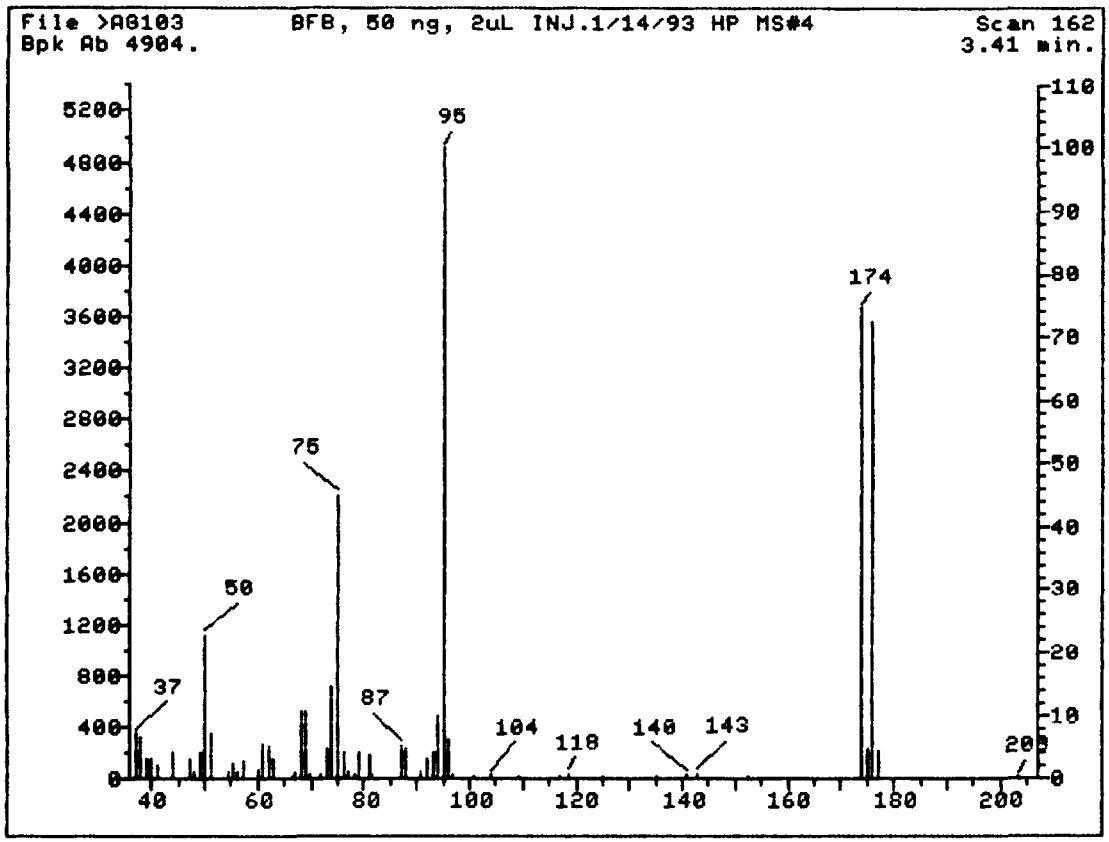
m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
50	15-40% of mass 95	22.86	22.86	Ok
75	30-60% of mass 95	45.13	45.13	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	6.20	6.20	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	74.73	74.73	Ok
175	5-9% of mass 174	4.93	6.60	Ok
176	95-101% of mass 174	72.49	97.00	Ok
177	5-9% of mass 176	4.51	6.22	Ok

Injection Date: 01/14/93
Injection Time: 10:28
Data File: >AG103
Scan: 162

MS data file header from : >AG103::D5

Sample: BFB, 50 ng, 2uL INJ. Operator: KELLY REG. GRP. 1/14/93 10:28
Misc : 1/14/93 HP MS#4
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS # : 0 Equip ID: HP MS#4
Method file: BFB#1 Tuning file: MTMSD1 No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	100.	160.	0.	0.	0.
Chromatographic times, min. :	0.0	1.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	15.0	0.0	0.0	.1	0.0



MS data file header from : >AG103::D5

Sample: BFB, 50 ng, 2uL INJ. Operator: KELLY REG. GRP. 1/14/93 10:28
Misc : 1/14/93 HP MS#4
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS # : 0 Equip ID: HP MS#4
Method file: BFB#1 Tuning file: MTMSD1 No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	100.	160.	0.	0.	0.
Chromatographic times, min. :	0.0	1.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	15.0	0.0	0.0	.1	0.0

>AG103 BFB, 50 ng, 2uL INJ.1/14/93 HP MS#4
162

File: >AG103 Scan #: 162 Retn. time: 3.41

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
35.95	97.00	54.35	55.00	69.95	45.00	88.00	242.00	118.60	42.00
36.95	350.00	55.05	128.00	71.95	43.00	90.80	48.00	124.90	26.00
38.05	318.00	55.85	62.00	72.95	242.00	92.00	149.00	135.00	20.00
38.95	155.00	57.05	134.00	73.95	712.00	93.10	201.00	140.60	36.00
39.95	160.00	59.95	66.00	74.95	2213.00	94.00	477.00	142.90	41.00
41.15	97.00	60.95	266.00	76.05	196.00	95.00	4904.00	152.45	28.00
44.05	197.00	62.05	251.00	76.95	52.00	96.10	304.00	173.95	3665.00
47.05	149.00	63.05	153.00	78.15	40.00	96.70	38.00	175.05	242.00
47.95	54.00	66.35	26.00	78.95	205.00	101.00	18.00	175.95	3555.00
49.05	204.00	66.95	50.00	80.85	180.00	103.90	37.00	176.95	221.00
50.05	1121.00	67.95	511.00	81.45	44.00	109.50	24.00	203.30	15.00
51.05	357.00	68.95	522.00	87.00	256.00	116.90	27.00	207.10	27.00

MS data file header from : >AG103::D5

Sample: BFB, 50 ng, 2uL INJ. Operator: KELLY REG. GRP. 1/14/93 10:28
Misc : 1/14/93 HP MS#4
Sys. #: 1 MS model: 70 SW/HW rev.: LF ALS # : 0 Equip ID: HP MS#4
Method file: BFB#1 Tuning file: MTMSD1 No. of extra records: 2
Source temp.: N/A Analyzer temp.: N/A Transfer line temp. : 0

Chromatographic temperatures :	100.	160.	0.	0.	0.
Chromatographic times, min. :	0.0	1.0	0.0	0.0	0.0
Chromatographic rate, deg/min:	15.0	0.0	0.0	.1	0.0

Calibration Report

Title: VOC 74 COMPOUNDS
Calibrated: 930106 10:12

Compound	Files: >AG005 RF 5.00	>AG006 RF 25.00	>AG007 RF 50.00	>AG008 RF 100.00	>AG009 RF 150.00	$\overline{RRT}$	$\overline{RF}$	% RSD	
Dichlorodifluoromethane	.19971	.17954	.15771	.19450	.17275	.189	.18084	9.354	(Conc=10.0,25.0,50.0,100.0,150.0)
Chloromethane	.23353	.29484	.24108	.22945	.22549	.219	.24488	11.647	(Conc=10.0,25.0,50.0,100.0,150.0)
Vinyl chloride	.25392	.25952	.21512	.21951	.20684	.238	.23098	10.397	(Conc=10.0,25.0,50.0,100.0,150.0)
Bromomethane	.12401	.11945	.10010	.10399	.10108	.300	.10973	10.175	(Conc=10.0,25.0,50.0,100.0,150.0)
Chloroethane	.09573	.06477	.05621	.05013	.04899	.324	.06317	30.476	(Conc=10.0,25.0,50.0,100.0,150.0)
Trichlorofluoromethane	.42652	.36185	.21561	.22503	.20922	.375	.28765	34.788	(Conc=10.0,25.0,50.0,100.0,150.0)
Acrolein	.01576	.01973	.01977	.01266	.01395	.489	.01637	19.976	(Conc=25.0,125.0,250.0,500.0,750.0
1,1-Dichloroethene	.21788	.26814	.22944	.18766	.18875	.489	.21837	15.223	
Acetone	.22919	.27054	.27708	.20869	.21878	.530	.24086	12.885	(Conc=25.0,125.0,250.0,500.0,750.0
Carbon disulfide	.53105	.90158	.79864	.58428	.54945	.513	.67300	24.788	
Methylene chloride	.09836	.13155	.12800	.10500	.10491	.603	.11356	13.291	
trans-1,2-Dichloroethene	.21583	.22841	.22445	.20389	.19901	.648	.21432	5.933	
Acrylonitrile	.08451	.10040	.10409	.08714	.09034	.662	.09330	9.137	(Conc=25.0,125.0,250.0,500.0,750.0
1,1-Dichloroethane	.41189	.46806	.47141	.43217	.42038	.725	.44078	6.221	
Vinyl acetate	.26264	.01842	.35812	.33170	.31634	.752	.25744	53.640	(Conc=10.0,50.0,100.0,200.0,300.0)
2,2-Dichloropropane	.23342	.36745	.40809	.38091	.36968	.817	.35191	19.374	
cis-1,2-Dichloroethene	.16031	.30805	.31639	.28610	.27884	.824	.26994	23.408	
2-Butanone	.20086	.31503	.31403	.24917	.26406	.840	.26863	17.860	(Conc=25.0,125.0,250.0,500.0,750.0
Bromochloromethane	.07676	.15793	.15927	.14074	.13331	.861	.13360	25.196	
Chloroform	.26932	.55468	.55963	.50714	.49598	.882	.47735	25.065	
1,1,1-Trichloroethane	.20161	.38322	.38899	.36129	.35170	.894	.33736	22.949	
Carbon tetrachloride	.12499	.28248	.29770	.28672	.28172	.917	.25472	28.581	
1,1-Dichloropropene	.21065	.40352	.40292	.37583	.35922	.922	.35043	22.933	
BENZENE-D6	.50201	1.13994	1.09481	1.09570	1.06911	.947	.98031	27.399	(Conc=10.0,10.0,10.0,10.0,10.0)
Benzene	.40795	1.08158	1.08967	.98432	.95541	.952	.90379	31.352	
1,2-Dichloroethane	.22525	.46334	.46049	.40442	.41807	.963	.39432	24.847	
Trichloroethene	.25881	.51213	.32449	.29967	.30003	.851	.33903	29.379	
1,2-Dichloropropane	.30886	.35581	.36414	.32966	.33763	.879	.33922	6.445	
Dibromomethane	.18975	.22789	.23373	.19983	.20513	.893	.21127	8.894	
2-Chloroethyl vinylether	-	-	-	-	-	-	-	-	
Bromodichloromethane	.33854	.37261	.41362	.36852	.38508	.918	.37568	7.250	
cis-1,3-Dichloropropene	.37142	.39646	.48208	.45513	.47451	.972	.43592	11.300	(Conc=2.52,12.6,25.2,50.4,75.6)
Toluene	.50041	.62166	.62388	.55626	.55246	1.008	.57094	9.146	
4-Methyl-2-pentanone	.38108	.43467	.46753	.36651	.40153	.996	.41026	9.989	(Conc=10.0,50.0,100.0,200.0,300.0)
trans-1,3-Dichloropropene	.31374	.29623	.39976	.36200	.38724	1.044	.35179	12.868	(Conc=2.23,11.1,22.3,44.6,66.9)
Tetrachloroethene	.22575	.30733	.30145	.26762	.26207	1.073	.27284	12.113	
1,1,2-Trichloroethane	.02811	.02325	.02236	.01949	.01998	1.059	.02264	15.198	
1,3-Dichloropropane	.38731	.46620	.49036	.42441	.43372	1.084	.44040	8.997	
2-Hexanone	.32547	.39449	.40078	.31465	.35149	1.101	.35738	10.963	(Conc=10.0,50.0,100.0,200.0,300.0)

RF - Response Factor (Subscript is amount in UG/L)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

Calibration Report

Title: VOC 74 COMPOUNDS
Calibrated: 930106 10:12

Compound	Files: >AG005 RF 5.00	>AG006 RF 25.00	>AG007 RF 50.00	>AG008 RF 100.00	>AG009 RF 150.00	$\overline{RRT}$	$\overline{RF}$	% RSD	
Dibromochloromethane	.21996	.23899	.29038	.25928	.26911	1.110	.25554	10.631	
1,2-Dibromoethane	.24002	.24100	.28871	.24958	.26236	1.120	.25633	7.878	
Chlorobenzene	.74862	.95748	.98090	.89066	.89892	1.003	.89531	10.106	
1,1,1,2-Tetrachloroethane	.24316	.24515	.34210	.30432	.31272	1.015	.28949	15.098	
Ethylbenzene	1.23171	1.59392	1.63229	1.48335	1.50063	1.017	1.48838	10.511	
m &/or p-Xylene	.42929	.56268	.56170	.48490	.47201	1.031	.50212	11.666	(Conc=10.0,50.0,100.0,200.0,300.0)
o-Xylene	.42161	.56900	.57180	.51305	.50709	1.073	.51651	11.824	
Styrene	.56307	.74668	.77401	.69994	.70234	1.077	.69721	11.646	
Bromoform	.19500	.19245	.27483	.24701	.26220	1.095	.23430	16.362	
Isopropylbenzene	1.08100	1.47663	1.54364	1.41274	1.42627	1.116	1.38806	12.908	
p-BROMOFLUOROBENZENE	.41381	.43140	.43539	.45306	.45995	1.132	.43872	4.174	(Conc=10.0,10.0,10.0,10.0,10.0)
Bromobenzene	.32239	.41133	.42454	.38003	.38083	1.145	.38382	10.268	
1,2,3-Trichloropropane	.33281	.31014	.41709	.34308	.36050	1.158	.35272	11.434	
1,1,2,2-Tetrachloroethane	.44031	.01148	.50422	.39883	.42888	1.157	.35675	55.164	
n-Propylbenzene	.27691	.36553	.38555	.34150	.34573	1.163	.34304	11.926	
2-Chlorotoluene	.28261	.36083	.36547	.32968	.33303	1.169	.33432	9.886	
4-Chlorotoluene	.27810	.35912	.35764	.30718	.30585	1.182	.32158	11.055	
1,3,5-Trimethylbenzene	.91825	1.11127	1.18080	1.04927	1.04170	1.184	1.06025	9.164	
tert-Butylbenzene	.69358	.98764	1.01203	.93117	.94375	1.220	.91363	13.931	
1,2,4-Trimethylbenzene	.86590	1.09473	1.17912	1.07891	1.09767	1.226	1.06327	11.008	
sec-Butylbenzene	1.15216	1.60770	1.67183	1.51379	1.53972	1.245	1.49704	13.519	
1,3-Dichlorobenzene	.54802	.72266	.73599	.64416	.65251	1.254	.66067	11.363	
1,4-Dichlorobenzene	.46074	.59693	.58472	.49112	.47891	1.265	.52248	12.147	
p-Isopropyltoluene	.87557	1.17853	1.22444	1.06407	1.04761	1.264	1.07805	12.587	
1,2-DICHLOROBENZENE-D4	.46681	.45784	.45683	.45341	.44118	1.304	.45522	2.037	(Conc=10.0,10.0,10.0,10.0,10.0)
1,2-Dichlorobenzene	.54867	.68460	.69818	.61413	.61152	1.307	.63142	9.643	
n-Butylbenzene	1.04972	1.25638	1.35158	1.22045	1.25363	1.311	1.22635	8.985	
1,2-Dibromo-3-chloropropane	.07159	.00098	.09234	.07328	.08111	1.400	.06386	56.519	
1,2,4-Trichlorobenzene	.36668	.38365	.41363	.36601	.37301	1.495	.38059	5.196	
Naphthalene	.70132	.47044	.69620	.57984	.61149	1.522	.61186	15.536	
Hexachlorobutadiene	.26541	.37572	.37970	.33394	.32728	1.518	.33641	13.742	
1,2,3-Trichlorobenzene	.36947	.34747	.38046	.33434	.34059	1.551	.35447	5.548	

RF - Response Factor (Subscript is amount in UG/L)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

FMGR : IDLST,IDAG1B

Quant ID File: IDAG1B::SC

Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG

Last EDIT Date: 921203 12:09 Last Calib Date: 921130 16:22
Last Qcal Date: 921209 11:18 Calib File: CBNF2A::SC
Qcal File: ^AG016:14906:D3

RT Window (+min -%)	: .5000	Subtraction Method	: 2
Max Hits/Compound	: 1	Ignore max check	: NO
Minimum Area	: 1000	Auto Qdel Method	: 5
Peak/Base Peak Ratio	: 35.00 %	Quantitate Using	: AREA
Up Slope Sensitivity	: -.500000	Units of Conc	: UG/L
Down Slope Sensitivity	: .0000000	Bunching	: 1

Number of Compounds: 74

Comp No.	Compound Name	(Type)	Retention Time Min.	(Rel)	R.F.	Conc.	
1)	*FLUOROBENZENE	(I)	13.14	(1.000)	1.00000	10.00	**
2)	Dichlorodifluoromethane	(T)	2.50	(.190)	.14696	50.00	**
3)	Chloromethane	(T)	2.88	(.219)	.22413	50.00	
4)	Vinyl chloride	(T)	3.16	(.241)	.21319	50.00	**
5)	Bromomethane	(T)	3.95	(.300)	.09915	50.00	
6)	Chloroethane	(T)	4.28	(.325)	.05857	50.00	**
7)	Trichlorofluoromethane	(T)	4.94	(.376)	.20091	50.00	
8)	Acrolein	(T)	6.39	(.486)	.01787	250.00	
9)	1,1-Dichloroethene	(M)	6.43	(.489)	.22792	50.00	
10)	Acetone	(T)	6.92	(.527)	.26588	250.00	**
11)	Carbon disulfide	(T)	6.74	(.513)	.77596	50.00	**
12)	Methylene chloride	(T)	7.92	(.603)	.12529	50.00	
13)	trans-1,2-Dichloroethene	(T)	8.51	(.648)	.22005	50.00	
14)	Acrylonitrile	(T)	8.67	(.660)	.09896	250.00	
15)	1,1-Dichloroethane	(T)	9.52	(.725)	.47187	50.00	
16)	Vinyl acetate	(T)	9.86	(.750)	.39392	100.00	
17)	2,2-Dichloropropane	(T)	10.73	(.817)	.41058	50.00	
18)	cis-1,2-Dichloroethene	(T)	10.81	(.823)	.31704	50.00	
19)	2-Butanone	(T)	11.02	(.839)	.28864	250.00	**
20)	Bromochloromethane	(T)	11.30	(.860)	.15532	50.00	**
21)	Chloroform	(T)	11.58	(.881)	.55664	50.00	**
22)	1,1,1-Trichloroethane	(T)	11.74	(.894)	.39249	50.00	**
23)	Carbon tetrachloride	(T)	12.04	(.917)	.30456	50.00	**
24)	1,1-Dichloropropene	(T)	12.10	(.921)	.39774	50.00	
25)	BENZENE-D6	(S)	12.43	(.946)	1.09362	10.00	
26)	Benzene	(M)	12.51	(.952)	1.08997	50.00	
27)	1,2-Dichloroethane	(T)	12.65	(.963)	.46940	50.00	**
28)	*TOLUENE-D8	(I)	16.27	(1.000)	1.00000	10.00	**
29)	Trichloroethene	(M)	13.86	(.852)	.34118	50.00	
30)	1,2-Dichloropropane	(T)	14.30	(.879)	.38929	50.00	**
31)	Dibromomethane	(T)	14.54	(.894)	.23124	50.00	**
32)	2-Chloroethyl vinylether	(T)	15.49	(.952)	0.00000	50.00	
33)	Bromodichloromethane	(T)	14.94	(.918)	.43467	50.00	
34)	cis-1,3-Dichloropropene	(T)	15.83	(.972)	.50841	25.20	**
35)	Toluene	(M)	16.40	(1.008)	.64977	50.00	
36)	4-Methyl-2-pentanone	(T)	16.20	(.996)	.46681	100.00	
37)	trans-1,3-Dichloropropene	(T)	16.99	(1.044)	.41737	22.32	
38)	Tetrachloroethene	(T)	17.46	(1.073)	.29462	50.00	

39)	1,1,2-Trichloroethane	(T)	17.22(	1.064)	.02270	50.00	
40)	1,3-Dichloropropane	(T)	17.63(	1.083)	.50297	50.00	
41)	2-Hexanone	(T)	17.91(	1.100)	.36746	100.00	**
42)	Dibromochloromethane	(T)	18.07(	1.110)	.29915	50.00	**
43)	1,2-Dibromoethane	(T)	18.22(	1.119)	.30568	50.00	**
44)	*CHLOROBENZENE-D5	(I)	19.18(	1.000)	1.00000	10.00	
45)	Chlorobenzene	(M)	19.24(	1.003)	.97538	50.00	
46)	1,1,1,2-Tetrachloroethane	(T)	19.47(	1.015)	.33673	50.00	**
47)	Ethylbenzene	(T)	19.52(	1.018)	1.65469	50.00	**
48)	m &/or p-Xylene	(T)	19.78(	1.031)	.56928	100.00	**
49)	o-Xylene	(T)	20.60(	1.074)	.57317	50.00	
50)	Styrene	(T)	20.65(	1.077)	.78977	50.00	
51)	Bromoform	(T)	21.00(	1.095)	.26683	50.00	**
52)	Isopropylbenzene	(T)	21.41(	1.116)	1.55196	50.00	**
53)	p-BROMOFLUOROBENZENE	(S)	21.72(	1.132)	.43518	10.00	**
54)	Bromobenzene	(T)	21.97(	1.145)	.40517	50.00	**
55)	1,2,3-Trichloropropane	(T)	22.21(	1.158)	.40933	50.00	**
56)	1,1,2,2-Tetrachloroethane	(T)	22.19(	1.157)	.50946	50.00	**
57)	n-Propylbenzene	(T)	22.31(	1.163)	.37338	50.00	**
58)	2-Chlorotoluene	(T)	22.42(	1.169)	.35401	50.00	**
59)	4-Chlorotoluene	(T)	22.68(	1.182)	.35897	50.00	**
60)	1,3,5-Trimethylbenzene	(T)	22.72(	1.184)	1.22432	50.00	
61)	tert-Butylbenzene	(T)	23.39(	1.220)	.99784	50.00	
62)	1,2,4-Trimethylbenzene	(T)	23.51(	1.226)	1.24334	50.00	
63)	sec-Butylbenzene	(T)	23.88(	1.245)	1.66654	50.00	
64)	1,3-Dichlorobenzene	(T)	24.05(	1.254)	.72448	50.00	**
65)	1,4-Dichlorobenzene	(T)	24.26(	1.265)	.57792	50.00	**
66)	p-Isopropyltoluene	(T)	24.24(	1.264)	1.21713	50.00	
67)	1,2-DICHLOROBENZENE-D4	(S)	25.02(	1.304)	.44995	10.00	**
68)	1,2-Dichlorobenzene	(T)	25.06(	1.306)	.69635	50.00	
69)	n-Butylbenzene	(T)	25.15(	1.311)	1.38438	50.00	
70)	1,2-Dibromo-3-chloropropane	(T)	26.86(	1.400)	.08485	50.00	**
71)	1,2,4-Trichlorobenzene	(T)	28.68(	1.495)	.41747	50.00	**
72)	Naphthalene	(T)	29.20(	1.522)	.72221	50.00	
73)	Hexachlorobutadiene	(T)	29.12(	1.518)	.35727	50.00	**
74)	1,2,3-Trichlorobenzene	(T)	29.75(	1.551)	.38793	50.00	**

* Compound is ISTD
** Compound uses different Quant parameters

Operator ID: KELLY Quant Rev: 7 Quant Time: 921208 12:23
Output File: ^AG005::D3 Injected at: 921208 11:50
Data File: >AG005::D6 Dilution Factor: 1.00000
Name: 5 PPB IC STD Instrument ID: HP MSD#1
Misc: 12/8/92 HP MS#4, 5mL PURGE

ID File: IDNF2D::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921130 16:22 Last Qcal Time: 921203 13:33

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.05	96.0	27410M	10.00	UG/L	99
2)	Dichlorodifluoromethane	2.43	85.0	5474	.962	UG/L	98
3)	Chloromethane	2.81	50.0	6401	.651	UG/L	80
4)	Vinyl chloride	3.09	62.0	6960	1.21	UG/L	96
5)	Bromomethane	3.90	94.0	3399	1.01	UG/L	89
6)	Chloroethane	4.21	64.0	2624M	2.93	UG/L	
7)	Trichlorofluoromethane	4.90	101.0	11691	2.08	UG/L	89
8)	Acrolein	6.36	56.0	1080	14.67	UG/L	87
9)	1,1-Dichloroethene	6.43	96.0	2986	3.33	UG/L	97
10)	Acetone	6.88	43.0	15705	16.10	UG/L	92
11)	Carbon disulfide	6.74	76.0	7278	3.03	UG/L	94
12)	Methylene chloride	7.89	84.0	1348	1.33	UG/L	95
13)	trans-1,2-Dichloroethene	8.51	96.0	2958	3.40	UG/L	85
14)	Acrylonitrile	8.68	53.0	5791	16.56	UG/L	96
15)	1,1-Dichloroethane	9.51	63.0	5645	3.12	UG/L	94
16)	Vinyl acetate	9.85	43.0	7199	5.35	UG/L	100
17)	2,2-Dichloropropane	10.68	77.0	3199	3.18	UG/L	84
18)	cis-1,2-Dichloroethene	10.77	96.0	2197	3.25	UG/L	89
19)	2-Butanone	10.97	43.0	13764M	19.86	UG/L	67
20)	Bromochloromethane	11.25	128.0	1052M	3.79	UG/L	
21)	Chloroform	11.52	83.0	3691	3.23	UG/L	84
22)	1,1,1-Trichloroethane	11.66	97.0	2763	3.34	UG/L	91
23)	Carbon tetrachloride	11.95	117.0	1713	2.70	UG/L	80
24)	1,1-Dichloropropene	12.02	75.0	2887M	3.80	UG/L	84
25)	BENZENE-D6	12.35	84.0	13760	10.38	UG/L	98
26)	Benzene	12.42	78.0	5591	3.13	UG/L	98
27)	1,2-Dichloroethane	12.56	62.0	3087	3.21	UG/L	76
28)	*TOLUENE-D8	16.25	98.0	26614	10.00	UG/L	96
29)	Trichloroethene	13.78	95.0	3444	3.19	UG/L	90
30)	1,2-Dichloropropane	14.24	63.0	4110	3.46	UG/L	91
31)	Dibromomethane	14.49	174.0	2525	3.26	UG/L	94
33)	Bromodichloromethane	14.89	83.0	4505	3.25	UG/L	98
34)	cis-1,3-Dichloropropene	15.78	75.0	2491	1.58	UG/L	87
35)	Toluene	16.37	92.0	6659	3.18	UG/L	98
36)	4-Methyl-2-pentanone	16.20	43.0	10142	6.82	UG/L	83
37)	trans-1,3-Dichloropropene	16.99	75.0	1862M	1.41	UG/L	
38)	Tetrachloroethene	17.43	166.0	3004	2.97	UG/L	97
39)	1,1,2-Trichloroethane	16.83	132.0	374M	4.60	UG/L	
40)	1,3-Dichloropropane	17.61	76.0	5154	3.21	UG/L	98
41)	2-Hexanone	17.91	43.0	8662	6.56	UG/L	80

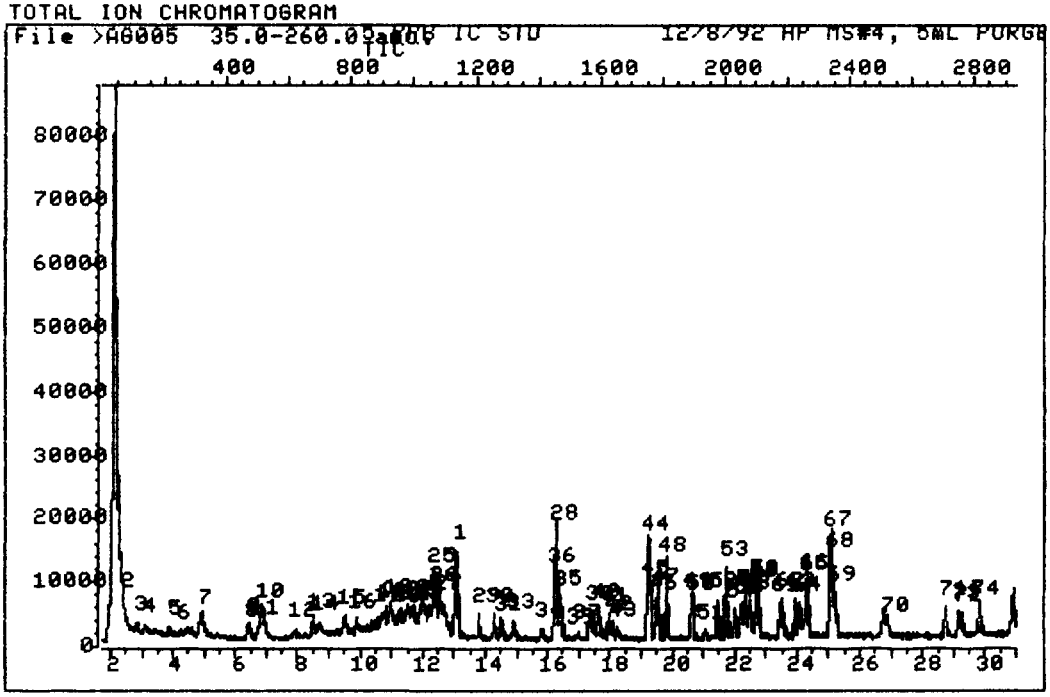
Operator ID: KELLY Quant Rev: 7 Quant Time: 921208 12:23
Output File: ^AG005::D3 Injected at: 921208 11:50
Data File: >AG005::D6 Dilution Factor: 1.00000
Name: 5 PPB IC STD Instrument ID: HP MSD#1
Misc: 12/8/92 HP MS#4, 5mL PURGE

ID File: IDNF2D::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921130 16:22 Last Qcal Time: 921203 13:33

	Compound	R.T.	Q ion	Area	Conc	Units	q
42)	Dibromochloromethane	18.06	129.0	2927	2.94	UG/L	93
43)	1,2-Dibromoethane	18.20	107.0	3194	3.38	UG/L	91
44)	*CHLOROBENZENE-D5	19.19	117.0	18605	10.00	UG/L	95
45)	Chlorobenzene	19.25	112.0	6964	3.15	UG/L	90
46)	1,1,1,2-Tetrachloroethane	19.48	131.0	2262	2.94	UG/L	87
47)	Ethylbenzene	19.52	91.0	11458	3.12	UG/L	93
48)	m &/or p-Xylene	19.77	106.0	7987	6.26	UG/L	81
49)	o-Xylene	20.60	106.0	3922	3.01	UG/L	99
50)	Styrene	20.66	104.0	5238	2.98	UG/L	96
51)	Bromoform	21.02	173.0	1814M	2.93	UG/L	
52)	Isopropylbenzene	21.42	105.0	10056	2.78	UG/L	92
53)	p-BROMOFLUOROBENZENE	21.73	174.0	7699	8.05	UG/L	98
54)	Bromobenzene	21.98	156.0	2999	3.13	UG/L	94
55)	1,2,3-Trichloropropane	22.22	75.0	3096	3.47	UG/L	89
56)	1,1,2,2-Tetrachloroethane	22.22	83.0	4096	3.83	UG/L	95
57)	n-Propylbenzene	22.32	120.0	2576	3.00	UG/L	96
58)	2-Chlorotoluene	22.45	126.0	2629	3.18	UG/L	90
59)	4-Chlorotoluene	22.70	126.0	2587	3.12	UG/L	90
60)	1,3,5-Trimethylbenzene	22.74	105.0	8542	3.10	UG/L	81
61)	tert-Butylbenzene	23.42	119.0	6452	2.86	UG/L	89
62)	1,2,4-Trimethylbenzene	23.54	105.0	8055	2.71	UG/L	88
63)	sec-Butylbenzene	23.90	105.0	10718	2.86	UG/L	89
64)	1,3-Dichlorobenzene	24.07	146.0	5098	3.06	UG/L	93
65)	1,4-Dichlorobenzene	24.29	146.0	4286	3.22	UG/L	95
66)	p-Isopropyltoluene	24.27	119.0	8145	2.91	UG/L	88
67)	1,2-DICHLOROBENZENE-D4	25.05	152.0	8685	8.53	UG/L	92
68)	1,2-Dichlorobenzene	25.09	146.0	5104	3.21	UG/L	93
69)	n-Butylbenzene	25.17	91.0	9765	3.05	UG/L	84
70)	1,2-Dibromo-3-chloropropane	26.90	157.0	666	3.76	UG/L	91
71)	1,2,4-Trichlorobenzene	28.72	180.0	3411	3.30	UG/L	96
72)	Naphthalene	29.24	128.0	6524	3.81	UG/L	100
73)	Hexachlorobutadiene	29.16	225.0	2469	2.91	UG/L	82
74)	1,2,3-Trichlorobenzene	29.80	180.0	3437	3.54	UG/L	92

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AG005::D6 Quant Output File: ^AG005::D3
Name: 5 PPB IC STD Instrument ID: HP MSD#1
Misc: 12/8/92 HP MS#4, 5mL PURGE

Id File: IDNF2D::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921130 16:22 Last Qcal Time: 921203 13:33

Operator ID: KELLY
Quant Time : 921208 12:23
Injected at: 921208 11:50

QUANT REPORT

Operator ID: KELLY Quant Rev: 7 Quant Time: 921208 13:50
Output File: ^AG006::D3 Injected at: 921208 13:17
Data File: >AG006::D6 Dilution Factor: 1.00000
Name: 25 PPB IC STD Instrument ID: HP MSD#1
Misc: 12/8/92 HP MS#4, 5mL PURGE

ID File: IDNF2D::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921130 16:22 Last Qcal Time: 921203 13:33

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.14	96.0	32249	10.00	UG/L	97
2)	Dichlorodifluoromethane	2.51	85.0	14475	2.16	UG/L	96
3)	Chloromethane	2.91	50.0	23771	2.06	UG/L	89
4)	Vinyl chloride	3.16	62.0	20923	3.09	UG/L	99
5)	Bromomethane	3.97	94.0	9630	2.43	UG/L	88
6)	Chloroethane	4.28	64.0	5222	4.95	UG/L	82
7)	Trichlorofluoromethane	4.95	101.0	29173	4.41	UG/L	94
8)	Acrolein	6.41	56.0	7953	91.79	UG/L	92
9)	1,1-Dichloroethene	6.45	96.0	21618	20.48	UG/L	89
10)	Acetone	6.93	43.0	109060	95.03	UG/L	98
11)	Carbon disulfide	6.75	76.0	72688	25.74	UG/L	99
12)	Methylene chloride	7.92	84.0	10606	8.89	UG/L	84
13)	trans-1,2-Dichloroethene	8.52	96.0	18415	17.98	UG/L	94
14)	Acrylonitrile	8.68	53.0	40471	98.37	UG/L	94
15)	1,1-Dichloroethane	9.51	63.0	37736	17.74	UG/L	95
16)	Vinyl acetate	9.86	43.0	2970M	1.88	UG/L	100
17)	2,2-Dichloropropane	10.73	77.0	29625	25.07	UG/L	97
18)	cis-1,2-Dichloroethene	10.82	96.0	24836	31.22	UG/L	96
19)	2-Butanone	11.02	43.0	126994	155.77	UG/L	71
20)	Bromochloromethane	11.30	128.0	12733	39.03	UG/L	95
21)	Chloroform	11.58	83.0	44720	33.25	UG/L	95
22)	1,1,1-Trichloroethane	11.75	97.0	30896	31.78	UG/L	94
23)	Carbon tetrachloride	12.06	117.0	22774	30.49	UG/L	88
24)	1,1-Dichloropropene	12.12	75.0	32533	36.37	UG/L	98
25)	BENZENE-D6	12.44	84.0	36762	23.57	UG/L	96
26)	Benzene	12.51	78.0	87200	41.52	UG/L	97
27)	1,2-Dichloroethane	12.65	62.0	37356	33.06	UG/L	98
28)	*TOLUENE-D8	16.28	98.0	30524	10.00	UG/L	96
29)	Trichloroethene	13.86	95.0	39081M	31.61	UG/L	90
30)	1,2-Dichloropropane	14.31	63.0	27152	19.91	UG/L	94
31)	Dibromomethane	14.54	174.0	17390	19.56	UG/L	96
32)	2-Chloroethyl vinylether	15.48	63.0	1703	1703.00	NO CALIB	87
33)	Bromodichloromethane	14.94	83.0	28434	17.91	UG/L	98
34)	cis-1,3-Dichloropropene	15.83	75.0	15248	8.44	UG/L	92
35)	Toluene	16.41	92.0	47439	19.73	UG/L	96
36)	4-Methyl-2-pentanone	16.21	43.0	66339	38.89	UG/L	85
37)	trans-1,3-Dichloropropene	16.99	75.0	10082	6.66	UG/L	99
38)	Tetrachloroethene	17.46	166.0	23452	20.22	UG/L	98
39)	1,1,2-Trichloroethane	17.32	132.0	1774	19.01	UG/L	97
40)	1,3-Dichloropropane	17.63	76.0	35576	19.35	UG/L	97

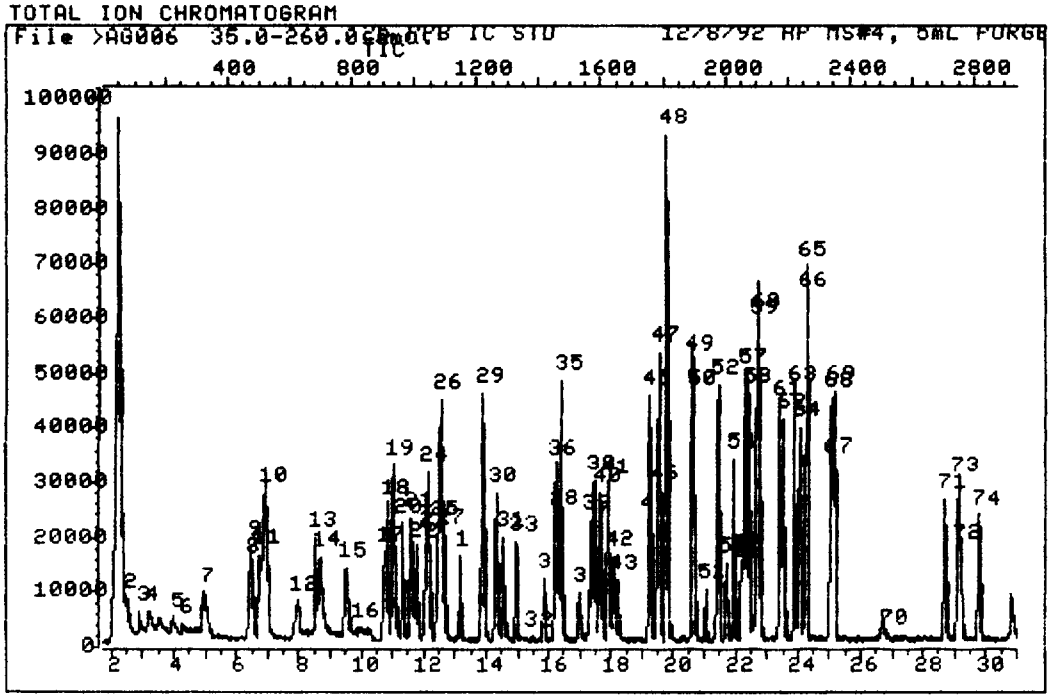
Operator ID: KELLY Quant Rev: 7 Quant Time: 921208 13:50
Output File: ^AG006::D3 Injected at: 921208 13:17
Data File: >AG006::D6 Dilution Factor: 1.00000
Name: 25 PPB IC STD Instrument ID: HP MSD#1
Misc: 12/8/92 HP MS#4, 5mL PURGE

ID File: IDNF2D::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921130 16:22 Last Qcal Time: 921203 13:33

	Compound	R.T.	Q ion	Area	Conc	Units	q
41)	2-Hexanone	17.91	43.0	60207	39.76	UG/L	86
42)	Dibromochloromethane	18.06	129.0	18237	16.00	UG/L	97
43)	1,2-Dibromoethane	18.22	107.0	18391	16.99	UG/L	98
44)	*CHLOROBENZENE-D5	19.18	117.0	21597	10.00	UG/L	95
45)	Chlorobenzene	19.24	112.0	51697	20.15	UG/L	92
46)	1,1,1,2-Tetrachloroethane	19.46	131.0	13236	14.80	UG/L	97
47)	Ethylbenzene	19.51	91.0	86060	20.17	UG/L	94
48)	m &/or p-Xylene	19.77	106.0	60761	41.03	UG/L	80
49)	o-Xylene	20.59	106.0	30722	20.31	UG/L	96
50)	Styrene	20.65	104.0	40315	19.74	UG/L	91
51)	Bromoform	21.01	173.0	10391	14.44	UG/L	98
52)	Isopropylbenzene	21.40	105.0	79727	18.96	UG/L	97
53)	p-BROMOFLUOROBENZENE	21.71	174.0	9317	8.39	UG/L	96
54)	Bromobenzene	21.96	156.0	22209	19.97	UG/L	98
55)	1,2,3-Trichloropropane	22.20	75.0	16745	16.16	UG/L	77
56)	1,1,2,2-Tetrachloroethane	22.19	83.0	620M	.500	UG/L	
57)	n-Propylbenzene	22.29	120.0	19736	19.78	UG/L	98
58)	2-Chlorotoluene	22.42	126.0	19482	20.31	UG/L	90
59)	4-Chlorotoluene	22.67	126.0	19390	20.15	UG/L	89
60)	1,3,5-Trimethylbenzene	22.71	105.0	60000	18.78	UG/L	87
61)	tert-Butylbenzene	23.39	119.0	53325	20.39	UG/L	86
62)	1,2,4-Trimethylbenzene	23.51	105.0	59107	17.11	UG/L	89
63)	sec-Butylbenzene	23.88	105.0	86804	19.93	UG/L	93
64)	1,3-Dichlorobenzene	24.05	146.0	39018	20.17	UG/L	92
65)	1,4-Dichlorobenzene	24.25	146.0	32230	20.85	UG/L	97
66)	p-Isopropyltoluene	24.23	119.0	63632	19.58	UG/L	92
67)	1,2-DICHLOROBENZENE-D4	25.02	152.0	9888	8.36	UG/L	99
68)	1,2-Dichlorobenzene	25.05	146.0	36963	20.04	UG/L	93
69)	n-Butylbenzene	25.14	91.0	67835	18.25	UG/L	90
70)	1,2-Dibromo-3-chloropropane	26.86	157.0	53M	.257	UG/L	
71)	1,2,4-Trichlorobenzene	28.67	180.0	20714	17.27	UG/L	95
72)	Naphthalene	29.18	128.0	25400	12.78	UG/L	100
73)	Hexachlorobutadiene	29.11	225.0	20286	20.62	UG/L	98
74)	1,2,3-Trichlorobenzene	29.75	180.0	18761	16.65	UG/L	94

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AG006::D6 Quant Output File: ^AG006::D3
Name: 25 PPB IC STD Instrument ID: HP MSD#1
Misc: 12/8/92 HP MS#4, 5mL PURGE

Id File: IDNF2D::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921130 16:22 Last Qcal Time: 921203 13:33

Operator ID: KELLY
Quant Time : 921208 13:50
Injected at: 921208 13:17

Operator ID: KELLY Quant Rev: 7 Quant Time: 921208 14:29
Output File: ^AG007::D3 Injected at: 921208 13:56
Data File: >AG007::D6 Dilution Factor: 1.00000
Name: 50 PPB IC STD Instrument ID: HP MSD#1
Misc: 12/8/92 HP MS#4, 5mL PURGE

ID File: IDNF2D::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921130 16:22 Last Qcal Time: 921203 13:33

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.13	96.0	32232	10.00	UG/L	95
2)	Dichlorodifluoromethane	2.48	85.0	25417	3.80	UG/L	93
3)	Chloromethane	2.88	50.0	38853	3.36	UG/L	98
4)	Vinyl chloride	3.13	62.0	34668	5.12	UG/L	99
5)	Bromomethane	3.93	94.0	16132	4.07	UG/L	89
6)	Chloroethane	4.27	64.0	9059	8.59	UG/L	93
7)	Trichlorofluoromethane	4.92	101.0	34747	5.26	UG/L	97
8)	Acrolein	6.40	56.0	15928	183.93	UG/L	95
9)	1,1-Dichloroethene	6.42	96.0	36977	35.05	UG/L	96
10)	Acetone	6.92	43.0	223273	194.65	UG/L	99
11)	Carbon disulfide	6.73	76.0	128709	45.60	UG/L	99
12)	Methylene chloride	7.92	84.0	20628	17.31	UG/L	94
13)	trans-1,2-Dichloroethene	8.50	96.0	36173	35.34	UG/L	94
14)	Acrylonitrile	8.67	53.0	83873	203.97	UG/L	97
15)	1,1-Dichloroethane	9.51	63.0	75973	35.73	UG/L	99
16)	Vinyl acetate	9.86	43.0	115429	72.95	UG/L	100
17)	2,2-Dichloropropane	10.72	77.0	65767	55.68	UG/L	97
18)	cis-1,2-Dichloroethene	10.81	96.0	50990	64.13	UG/L	96
19)	2-Butanone	11.02	43.0	253044	310.55	UG/L	71
20)	Bromochloromethane	11.30	128.0	25668	78.72	UG/L	99
21)	Chloroform	11.58	83.0	90190	67.09	UG/L	94
22)	1,1,1-Trichloroethane	11.73	97.0	62690	64.52	UG/L	97
23)	Carbon tetrachloride	12.04	117.0	47978	64.27	UG/L	92
24)	1,1-Dichloropropene	12.10	75.0	64935	72.63	UG/L	96
25)	BENZENE-D6	12.43	84.0	35288	22.64	UG/L	99
26)	Benzene	12.50	78.0	175611	83.66	UG/L	99
27)	1,2-Dichloroethane	12.64	62.0	74213	65.71	UG/L	97
28)	*TOLUENE-D8	16.27	98.0	30389	10.00	UG/L	92
29)	Trichloroethene	13.85	95.0	49304	40.05	UG/L	89
30)	1,2-Dichloropropane	14.30	63.0	55329	40.75	UG/L	92
31)	Dibromomethane	14.54	174.0	35514	40.11	UG/L	97
32)	2-Chloroethyl vinylether	15.47	63.0	1141	1141.00	NO CALIB	94
33)	Bromodichloromethane	14.94	83.0	62847	39.76	UG/L	96
34)	cis-1,3-Dichloropropene	15.82	75.0	36918	20.52	UG/L	95
35)	Toluene	16.40	92.0	94796	39.59	UG/L	94
36)	4-Methyl-2-pentanone	16.20	43.0	142079	83.67	UG/L	87
37)	trans-1,3-Dichloropropene	16.99	75.0	27091	17.97	UG/L	99
38)	Tetrachloroethene	17.45	166.0	45804	39.67	UG/L	99
39)	1,1,2-Trichloroethane	17.32	132.0	3397	36.57	UG/L	91
40)	1,3-Dichloropropane	17.63	76.0	74507	40.70	UG/L	98

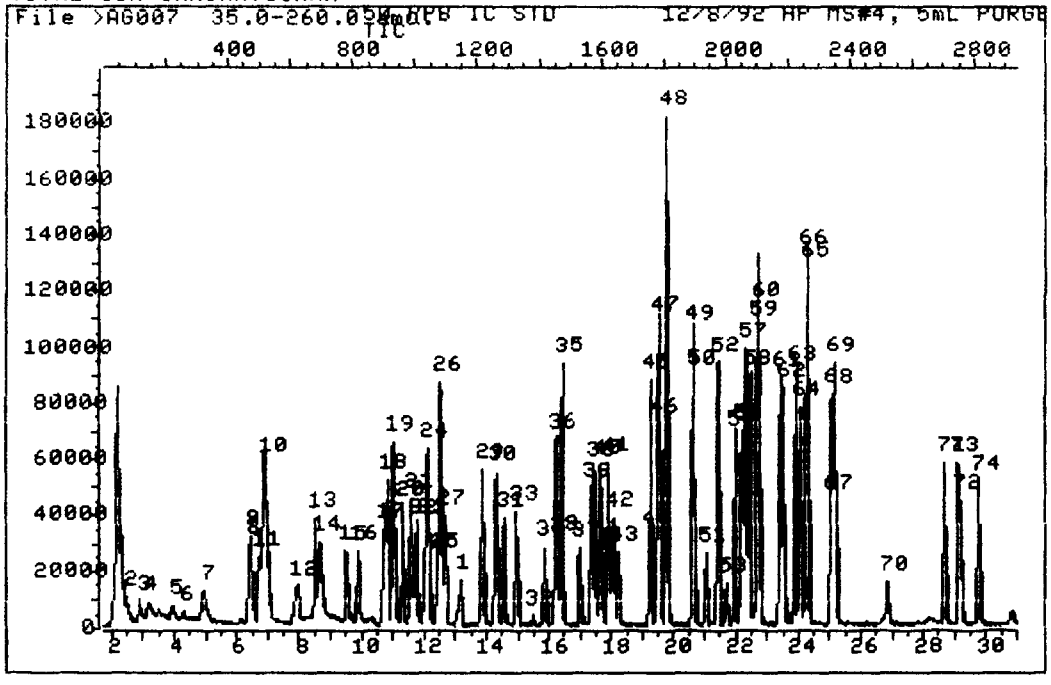
Operator ID: KELLY Quant Rev: 7 Quant Time: 921208 14:29
Output File: ^AG007::D3 Injected at: 921208 13:56
Data File: >AG007::D6 Dilution Factor: 1.00000
Name: 50 PPB IC STD Instrument ID: HP MSD#1
Misc: 12/8/92 HP MS#4, 5mL PURGE

ID File: IDNF2D::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921130 16:22 Last Qcal Time: 921203 13:33

	Compound	R.T.	Q ion	Area	Conc	Units	q
41)	2-Hexanone	17.91	43.0	121794	80.80	UG/L	85
42)	Dibromochloromethane	18.07	129.0	44122	38.87	UG/L	94
43)	1,2-Dibromoethane	18.22	107.0	43868	40.70	UG/L	99
44)	*CHLOROBENZENE-D5	19.19	117.0	21266	10.00	UG/L	98
45)	Chlorobenzene	19.24	112.0	104299	41.29	UG/L	93
46)	1,1,1,2-Tetrachloroethane	19.47	131.0	36376	41.31	UG/L	98
47)	Ethylbenzene	19.52	91.0	173561	41.32	UG/L	97
48)	m &/or p-Xylene	19.78	106.0	119451	81.91	UG/L	80
49)	o-Xylene	20.59	106.0	60800	40.82	UG/L	93
50)	Styrene	20.65	104.0	82300	40.93	UG/L	93
51)	Bromoform	21.00	173.0	29223	41.25	UG/L	97
52)	Isopropylbenzene	21.40	105.0	164135	39.64	UG/L	94
53)	p-BROMOFLUOROBENZENE	21.71	174.0	9259	8.47	UG/L	94
54)	Bromobenzene	21.96	156.0	45141	41.23	UG/L	99
55)	1,2,3-Trichloropropane	22.20	75.0	44349	43.47	UG/L	84
56)	1,1,2,2-Tetrachloroethane	22.19	83.0	53614	43.91	UG/L	99
57)	n-Propylbenzene	22.30	120.0	40995	41.72	UG/L	99
58)	2-Chlorotoluene	22.42	126.0	38860	41.15	UG/L	93
59)	4-Chlorotoluene	22.67	126.0	38028	40.14	UG/L	89
60)	1,3,5-Trimethylbenzene	22.72	105.0	125554	39.92	UG/L	84
61)	tert-Butylbenzene	23.40	119.0	107609	41.80	UG/L	84
62)	1,2,4-Trimethylbenzene	23.52	105.0	125376	36.86	UG/L	88
63)	sec-Butylbenzene	23.87	105.0	177766	41.46	UG/L	93
64)	1,3-Dichlorobenzene	24.05	146.0	78258	41.09	UG/L	95
65)	1,4-Dichlorobenzene	24.26	146.0	62173	40.85	UG/L	97
66)	p-Isopropyltoluene	24.24	119.0	130195	40.69	UG/L	90
67)	1,2-DICHLOROBENZENE-D4	25.02	152.0	9715	8.34	UG/L	91
68)	1,2-Dichlorobenzene	25.06	146.0	74238	40.87	UG/L	93
69)	n-Butylbenzene	25.15	91.0	143713	39.27	UG/L	88
70)	1,2-Dibromo-3-chloropropane	26.85	157.0	9819	48.44	UG/L	99
71)	1,2,4-Trichlorobenzene	28.67	180.0	43981	37.24	UG/L	97
72)	Naphthalene	29.19	128.0	74027	37.83	UG/L	100
73)	Hexachlorobutadiene	29.11	225.0	40373	41.67	UG/L	99
74)	1,2,3-Trichlorobenzene	29.75	180.0	40454	36.47	UG/L	96

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AG007::D6 Quant Output File: ^AG007::D3
Name: 50 PPB IC STD Instrument ID: HP MSD#1
Misc: 12/8/92 HP MS#4, 5mL PURGE

Id File: IDNF2D::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921130 16:22 Last Qcal Time: 921203 13:33

Operator ID: KELLY
Quant Time : 921208 14:29
Injected at: 921208 13:56

QUANT REPORT

Operator ID: KELLY
Quant Rev: 7
Quant Time: 921208 15:09
Output File: ^AG008::D3
Injected at: 921208 14:36
Data File: >AG008::D6
Dilution Factor: 1.00000
Name: 100 PPB IC STD
Instrument ID: HP MSD#1
Misc: 12/8/92 HP MS#4, 5mL PURGE

ID File: IDNF2D::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921130 16:22
Last Qcal Time: 921203 13:33

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.14	96.0	35571	10.00	UG/L	95
2)	Dichlorodifluoromethane	2.48	85.0	69187	9.37	UG/L	94
3)	Chloromethane	2.87	50.0	81619	6.40	UG/L	94
4)	Vinyl chloride	3.14	62.0	78082	10.44	UG/L	98
5)	Bromomethane	3.94	94.0	36992	8.45	UG/L	97
6)	Chloroethane	4.25	64.0	17831	15.32	UG/L	95
7)	Trichlorofluoromethane	4.93	101.0	80047	10.98	UG/L	95
8)	Acrolein	6.46	56.0	22519	235.63	UG/L	87
9)	1,1-Dichloroethene	6.40	96.0	66753	57.33	UG/L	96
10)	Acetone	7.02	43.0	371158	293.21	UG/L	97
11)	Carbon disulfide	6.71	76.0	207835	66.72	UG/L	99
12)	Methylene chloride	7.91	84.0	37348	28.39	UG/L	95
13)	trans-1,2-Dichloroethene	8.50	96.0	72524	64.21	UG/L	96
14)	Acrylonitrile	8.70	53.0	154989	341.54	UG/L	93
15)	1,1-Dichloroethane	9.51	63.0	153726	65.51	UG/L	98
16)	Vinyl acetate	9.87	43.0	235975	135.13	UG/L	100
17)	2,2-Dichloropropane	10.72	77.0	135493	103.94	UG/L	99
18)	cis-1,2-Dichloroethene	10.82	96.0	101769	115.99	UG/L	98
19)	2-Butanone	11.05	43.0	443153	492.82	UG/L	69
20)	Bromochloromethane	11.30	128.0	50064	139.12	UG/L	98
21)	Chloroform	11.58	83.0	180394	121.59	UG/L	96
22)	1,1,1-Trichloroethane	11.75	97.0	128513	119.84	UG/L	96
23)	Carbon tetrachloride	12.05	117.0	101990	123.79	UG/L	91
24)	1,1-Dichloropropene	12.10	75.0	133686	135.49	UG/L	99
25)	BENZENE-D6	12.43	84.0	38975	22.65	UG/L	99
26)	Benzene	12.51	78.0	350134	151.15	UG/L	98
27)	1,2-Dichloroethane	12.65	62.0	143857	115.42	UG/L	98
28)	*TOLUENE-D8	16.26	98.0	33242	10.00	UG/L	87
29)	Trichloroethene	13.85	95.0	99615	73.97	UG/L	88
30)	1,2-Dichloropropane	14.30	63.0	109585	73.79	UG/L	97
31)	Dibromomethane	14.54	174.0	66427	68.59	UG/L	98
32)	2-Chloroethyl vinylether	15.46	63.0	2567	2567.00	NO CALIB	96
33)	Bromodichloromethane	14.94	83.0	122504	70.85	UG/L	99
34)	cis-1,3-Dichloropropene	15.83	75.0	76252	38.74	UG/L	94
35)	Toluene	16.39	92.0	184912	70.60	UG/L	94
36)	4-Methyl-2-pentanone	16.21	43.0	243669	131.18	UG/L	86
37)	trans-1,3-Dichloropropene	16.99	75.0	53670	32.54	UG/L	97
38)	Tetrachloroethene	17.45	166.0	88961	70.44	UG/L	98
39)	1,1,2-Trichloroethane	17.32	132.0	6479	63.76	UG/L	93
40)	1,3-Dichloropropane	17.63	76.0	141082	70.45	UG/L	99

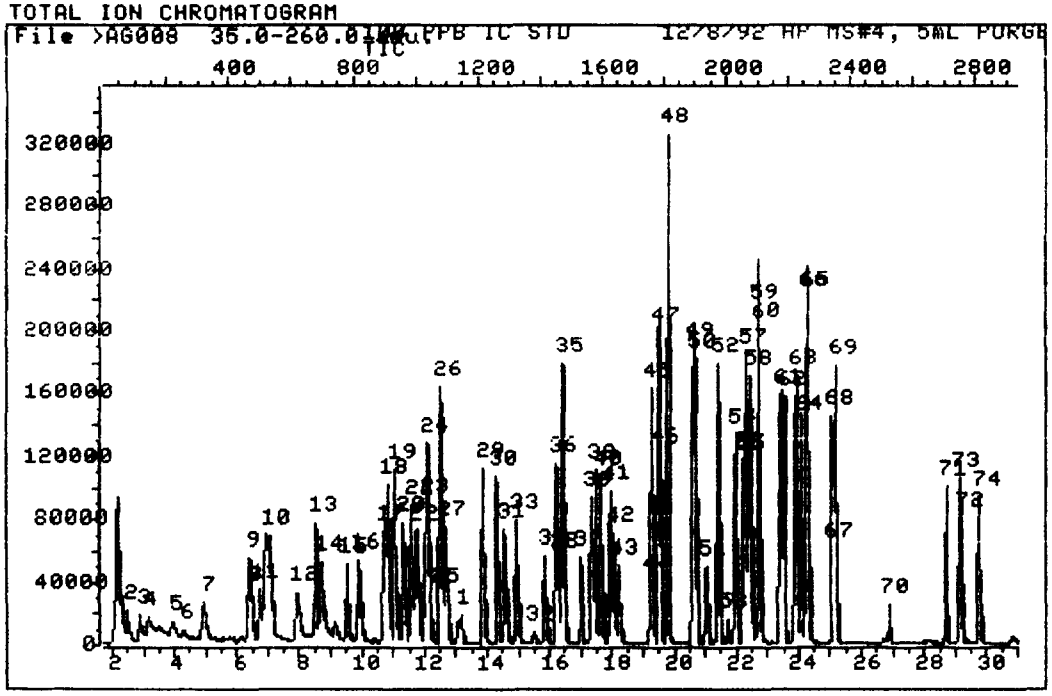
Operator ID: KELLY Quant Rev: 7 Quant Time: 921208 15:09
Output File: ^AG008::D3 Injected at: 921208 14:36
Data File: >AG008::D6 Dilution Factor: 1.00000
Name: 100 PPB IC STD Instrument ID: HP MSD#1
Misc: 12/8/92 HP MS#4, 5mL PURGE

ID File: IDNF2D::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921130 16:22 Last Qcal Time: 921203 13:33

	Compound	R.T.	Q ion	Area	Conc	Units	q
41)	2-Hexanone	17.91	43.0	209195	126.87	UG/L	85
42)	Dibromochloromethane	18.07	129.0	86189	69.41	UG/L	97
43)	1,2-Dibromoethane	18.22	107.0	82965	70.37	UG/L	97
44)	*CHLOROBENZENE-D5	19.18	117.0	22527	10.00	UG/L	94
45)	Chlorobenzene	19.24	112.0	200638	74.98	UG/L	90
46)	1,1,1,2-Tetrachloroethane	19.46	131.0	68554	73.49	UG/L	98
47)	Ethylbenzene	19.52	91.0	334155	75.10	UG/L	93
48)	m &/or p-Xylene	19.78	106.0	218465	141.42	UG/L	78
49)	o-Xylene	20.59	106.0	115575	73.26	UG/L	94
50)	Styrene	20.65	104.0	157676	74.03	UG/L	93
51)	Bromoform	21.01	173.0	55643	74.14	UG/L	98
52)	Isopropylbenzene	21.40	105.0	318247	72.56	UG/L	94
53)	p-BROMOFLUOROBENZENE	21.70	174.0	10206	8.81	UG/L	99
54)	Bromobenzene	21.96	156.0	85609	73.82	UG/L	99
55)	1,2,3-Trichloropropane	22.20	75.0	77286	71.52	UG/L	83
56)	1,1,2,2-Tetrachloroethane	22.19	83.0	89845	69.46	UG/L	99
57)	n-Propylbenzene	22.30	120.0	76930	73.91	UG/L	99
58)	2-Chlorotoluene	22.42	126.0	74268	74.24	UG/L	90
59)	4-Chlorotoluene	22.67	126.0	69199	68.95	UG/L	88
60)	1,3,5-Trimethylbenzene	22.72	105.0	236368	70.94	UG/L	84
61)	tert-Butylbenzene	23.39	119.0	209765	76.92	UG/L	84
62)	1,2,4-Trimethylbenzene	23.51	105.0	243046	67.46	UG/L	87
63)	sec-Butylbenzene	23.88	105.0	341012	75.08	UG/L	91
64)	1,3-Dichlorobenzene	24.05	146.0	145111	71.93	UG/L	93
65)	1,4-Dichlorobenzene	24.27	146.0	110635	68.63	UG/L	95
66)	p-Isopropyltoluene	24.24	119.0	239703	70.72	UG/L	89
67)	1,2-DICHLOROBENZENE-D4	25.01	152.0	10214	8.28	UG/L	89
68)	1,2-Dichlorobenzene	25.06	146.0	138344	71.90	UG/L	92
69)	n-Butylbenzene	25.14	91.0	274931	70.92	UG/L	88
70)	1,2-Dibromo-3-chloropropane	26.85	157.0	16508	76.88	UG/L	99
71)	1,2,4-Trichlorobenzene	28.67	180.0	82451	65.91	UG/L	97
72)	Naphthalene	29.19	128.0	130620	63.02	UG/L	100
73)	Hexachlorobutadiene	29.12	225.0	75226	73.29	UG/L	97
74)	1,2,3-Trichlorobenzene	29.76	180.0	75317	64.09	UG/L	96

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AG008::D6 Quant Output File: ^AG008::D3
Name: 100 PPB IC STD Instrument ID: HP MSD#1
Misc: 12/8/92 HP MS#4, 5mL PURGE

Id File: IDNF2D::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921130 16:22 Last Qcal Time: 921203 13:33

Operator ID: KELLY
Quant Time : 921208 15:09
Injected at: 921208 14:36

QUANT REPORT

Operator ID: KELLY Quant Rev: 7 Quant Time: 921208 15:48
Output File: ^AG009::D3 Injected at: 921208 15:15
Data File: >AG009::D6 Dilution Factor: 1.00000
Name: 150 PPB IC STD Instrument ID: HP MSD#1
Misc: 12/8/92 HP MS#4, 5mL PURGE

ID File: IDNF2D::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921130 16:22 Last Qcal Time: 921203 13:33

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.14	96.0	34639	10.00	UG/L	96
2)	Dichlorodifluoromethane	2.47	85.0	89760	12.48	UG/L	99
3)	Chloromethane	2.87	50.0	117160	9.44	UG/L	94
4)	Vinyl chloride	3.13	62.0	107469	14.76	UG/L	99
5)	Bromomethane	3.92	94.0	52522	12.33	UG/L	99
6)	Chloroethane	4.24	64.0	25455	22.46	UG/L	99
7)	Trichlorofluoromethane	4.91	101.0	108706	15.31	UG/L	96
8)	Acrolein	6.42	56.0	36245	389.46	UG/L	90
9)	1,1-Dichloroethene	6.39	96.0	98070	86.50	UG/L	97
10)	Acetone	7.00	43.0	568363	461.07	UG/L	97
11)	Carbon disulfide	6.70	76.0	285485	94.11	UG/L	99
12)	Methylene chloride	7.91	84.0	54512	42.56	UG/L	92
13)	trans-1,2-Dichloroethene	8.50	96.0	103405	94.01	UG/L	95
14)	Acrylonitrile	8.69	53.0	234697	531.11	UG/L	92
15)	1,1-Dichloroethane	9.51	63.0	218421	95.59	UG/L	99
16)	Vinyl acetate	9.86	43.0	328733	193.31	UG/L	100
17)	2,2-Dichloropropane	10.71	77.0	192079	151.31	UG/L	99
18)	cis-1,2-Dichloroethene	10.81	96.0	144883	169.57	UG/L	97
19)	2-Butanone	11.03	43.0	686000	783.40	UG/L	68
20)	Bromochloromethane	11.30	128.0	69268	197.67	UG/L	98
21)	Chloroform	11.58	83.0	257706	178.37	UG/L	94
22)	1,1,1-Trichloroethane	11.74	97.0	182739	175.00	UG/L	98
23)	Carbon tetrachloride	12.04	117.0	146377	182.45	UG/L	95
24)	1,1-Dichloropropene	12.11	75.0	186646	194.26	UG/L	98
25)	BENZENE-D6	12.44	84.0	37033	22.10	UG/L	97
26)	Benzene	12.51	78.0	496419	220.06	UG/L	99
27)	1,2-Dichloroethane	12.65	62.0	217225	178.98	UG/L	98
28)	*TOLUENE-D8	16.27	98.0	31250M	10.00	UG/L	
29)	Trichloroethene	13.85	95.0	140641	111.09	UG/L	88
30)	1,2-Dichloropropane	14.31	63.0	158265	113.35	UG/L	94
31)	Dibromomethane	14.54	174.0	96157	105.62	UG/L	97
32)	2-Chloroethyl vinylether	15.48	63.0	2384	2384.00	NO CALIB	92
33)	Bromodichloromethane	14.94	83.0	180508	111.05	UG/L	99
34)	cis-1,3-Dichloropropene	15.82	75.0	112102	60.59	UG/L	95
35)	Toluene	16.40	92.0	258966	105.18	UG/L	92
36)	4-Methyl-2-pentanone	16.21	43.0	376432	215.57	UG/L	86
37)	trans-1,3-Dichloropropene	16.99	75.0	80957	52.21	UG/L	99
38)	Tetrachloroethene	17.46	166.0	122845	103.46	UG/L	98
39)	1,1,2-Trichloroethane	17.32	132.0	9364	98.03	UG/L	94
40)	1,3-Dichloropropane	17.63	76.0	203305	107.99	UG/L	99

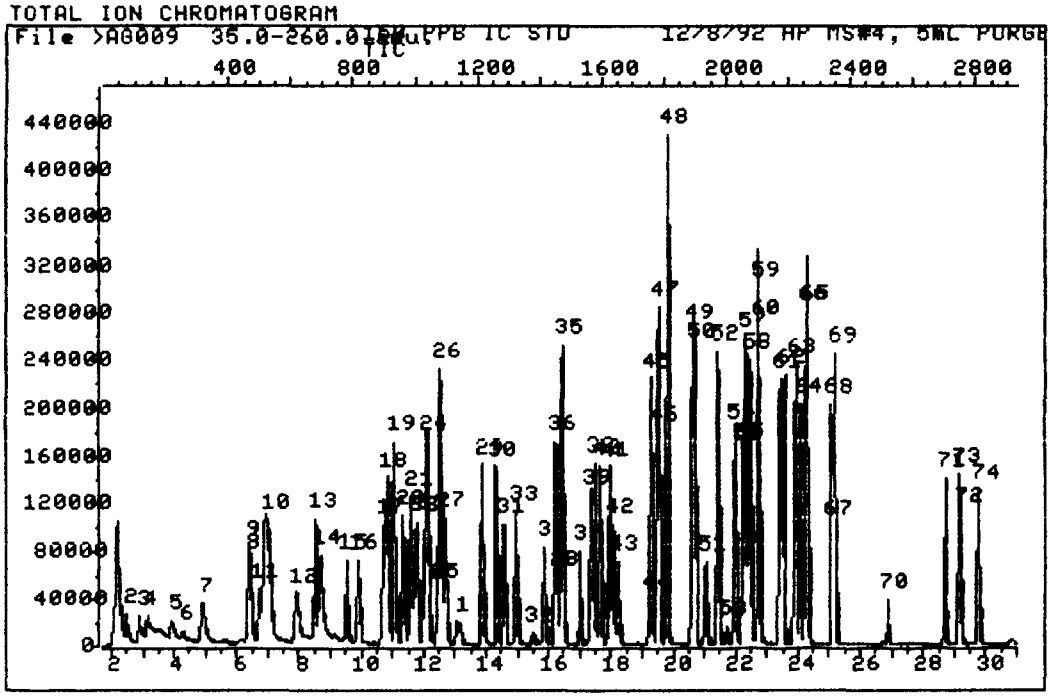
Operator ID: KELLY Quant Rev: 7 Quant Time: 921208 15:48
Output File: ^AG009::D3 Injected at: 921208 15:15
Data File: >AG009::D6 Dilution Factor: 1.00000
Name: 150 PPB IC STD Instrument ID: HP MSD#1
Misc: 12/8/92 HP MS#4, 5mL PURGE

ID File: IDNF2D::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921130 16:22 Last Qcal Time: 921203 13:33

	Compound	R.T.	Q ion	Area	Conc	Units	q
41)	2-Hexanone	17.91	43.0	329518	212.58	UG/L	84
42)	Dibromochloromethane	18.07	129.0	126146	108.07	UG/L	97
43)	1,2-Dibromoethane	18.22	107.0	122979	110.96	UG/L	98
44)	*CHLOROBENZENE-D5	19.18	117.0	20887	10.00	UG/L	95
45)	Chlorobenzene	19.24	112.0	281635	113.51	UG/L	91
46)	1,1,1,2-Tetrachloroethane	19.47	131.0	97978	113.28	UG/L	97
47)	Ethylbenzene	19.52	91.0	470156	113.96	UG/L	93
48)	m &/or p-Xylene	19.79	106.0	295766	206.50	UG/L	78
49)	o-Xylene	20.60	106.0	158873	108.61	UG/L	91
50)	Styrene	20.66	104.0	220048	111.43	UG/L	92
51)	Bromoform	21.01	173.0	82149	118.06	UG/L	96
52)	Isopropylbenzene	21.41	105.0	446859	109.89	UG/L	93
53)	p-BROMOFLUOROBENZENE	21.71	174.0	9607	8.95	UG/L	99
54)	Bromobenzene	21.96	156.0	119315	110.96	UG/L	99
55)	1,2,3-Trichloropropane	22.21	75.0	112947	112.73	UG/L	84
56)	1,1,2,2-Tetrachloroethane	22.19	83.0	134369	112.04	UG/L	97
57)	n-Propylbenzene	22.31	120.0	108318	112.24	UG/L	98
58)	2-Chlorotoluene	22.43	126.0	104339	112.49	UG/L	89
59)	4-Chlorotoluene	22.68	126.0	95824	102.98	UG/L	87
60)	1,3,5-Trimethylbenzene	22.73	105.0	326370	105.65	UG/L	83
61)	tert-Butylbenzene	23.40	119.0	295682	116.93	UG/L	83
62)	1,2,4-Trimethylbenzene	23.52	105.0	343906	102.94	UG/L	85
63)	sec-Butylbenzene	23.89	105.0	482403	114.55	UG/L	90
64)	1,3-Dichlorobenzene	24.06	146.0	204436	109.29	UG/L	93
65)	1,4-Dichlorobenzene	24.28	146.0	150045	100.38	UG/L	94
66)	p-Isopropyltoluene	24.24	119.0	328222	104.44	UG/L	88
67)	1,2-DICHLOROBENZENE-D4	25.02	152.0	9215	8.06	UG/L	70
68)	1,2-Dichlorobenzene	25.06	146.0	191591	107.40	UG/L	92
69)	n-Butylbenzene	25.15	91.0	392769	109.28	UG/L	88
70)	1,2-Dibromo-3-chloropropane	26.85	157.0	25413	127.65	UG/L	95
71)	1,2,4-Trichlorobenzene	28.68	180.0	116866	100.75	UG/L	97
72)	Naphthalene	29.20	128.0	191582	99.68	UG/L	100
73)	Hexachlorobutadiene	29.12	225.0	102537	107.75	UG/L	98
74)	1,2,3-Trichlorobenzene	29.76	180.0	106708	97.93	UG/L	96

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AG009::D6 Quant Output File: ^AG009::D3
Name: 150 PPB IC STD Instrument ID: HP MSD#1
Misc: 12/8/92 HP MS#4, 5mL PURGE

Id File: IDNF2D::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921130 16:22 Last Qcal Time: 921203 13:33

Operator ID: KELLY
Quant Time : 921208 15:48
Injected at: 921208 15:15

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:CRL SE ROCKFORD Contract:5ESD-10C

Lab Code: 5SCRL Case No.: SF-1077 SAS No.: --- SDG No.: ---

Instrument ID: HP MS Calibration Date: 1/07/93 Time: 9:38

Lab File ID: >AG089 Init. Calib. Date(s):12/08/92 --/--/--

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = ~~25.0%~~ 30% ag 1/20/93

COMPOUND		RRF	RRF50	%D	
Dichlorodifluoromethane		.181	.158	12.5	
Chloromethane	#	.245	.227	7.5	#
Vinyl chloride	*	.231	.190	17.9	*
Bromomethane		.110	.098	10.3	
Chloroethane		.063	.053	16.8	
Trichlorofluoromethane		.288	.198	31.2	
Acrolein		.016	.012	29.3	
1,1-Dichloroethene	*	.218	.218	.2	*
Acetone		.241	.200	17.0	
Carbon disulfide		.673	.662	1.7	
Methylene chloride		.114	.117	2.8	
trans-1,2-Dichloroethene		.214	.218	1.8	
Acrylonitrile		.093	.107	14.2	
1,1-Dichloroethane	#	.441	.452	2.6	#
Vinyl acetate		.257	.471	83.0	
2,2-Dichloropropane		.352	.408	15.8	
cis-1,2-Dichloroethene		.270	.309	14.5	
2-Butanone		.269	.219	18.5	
Bromochloromethane		.134	.146	9.5	
Chloroform	*	.477	.546	14.5	*
1,1,1-trichloroethane		.337	.381	12.9	
Carbon tetrachloride		.255	.294	15.6	
1,1-Dichloropropene		.350	.402	14.6	
Benzene		.904	1.077	19.2	
1,2-Dichloroethane	*	.394	.462	17.1	*
Trichloroethene		.339	.317	6.4	
1,2-Dichloropropane		.339	.372	9.7	
Dibromomethane		.211	.230	8.9	
Bromodichloromethane		.376	.406	8.2	
cis-1,3-dichloropropene		.436	.490	12.5	
Toluene	*	.571	.616	7.9	*
4-Methyl-2-pentanone		.410	.473	15.3	
trans-1,3-Dichloropropene		.352	.409	16.4	
Tetrachloroethene		.273	.290	6.5	
1,1,2-Trichloroethane		.023	.023	.3	
1,3-Dichloropropane		.440	.496	12.7	
2-Hexanone		.357	.389	8.9	

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:CRL SE ROCKFORD Contract:5ESD-10C

Lab Code: 5SCRL Case No.: SF-1077 SAS No.: --- SDG No.: ---

Instrument ID: HP MS Calibration Date: 1/07/93 Time: 9:38

Lab File ID: >AG089 Init. Calib. Date(s):12/08/92 --/--/--

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = ~~25.0%~~ 30%

ag 1/20/93

COMPOUND		RRF	RRF50	%D	
Dibromochloromethane		.256	.291	13.8	
1,2-Dibromoethane		.256	.285	11.4	
Chlorobenzene	#	.895	.980	9.4	#
1,1,1,2-Tetrachloroethane		.289	.340	17.5	
Ethylbenzene	*	1.488	1.652	11.0	*
m &/or p-Xylene		.502	.565	12.5	
o-Xylene		.516	.572	10.7	
Styrene		.697	.767	10.0	
Bromoform	#	.234	.281	19.8	#
Isopropylbenzene		1.388	1.533	10.4	
Bromobenzene		.384	.414	7.8	
1,2,3-Trichloropropane		.353	.438	24.1	
1,1,2,2-Tetrachloroethane		.357	.543	52.3	
n-Propylbenzene		.343	.377	10.0	
2-Chlorotoluene		.334	.357	6.8	
4-Chlorotoluene		.322	.352	9.5	
1,3,5-Trimethylbenzene		1.060	1.239	16.8	
tert-Butylbenzene		.914	.993	8.6	
1,2,4-Trimethylbenzene		1.063	1.246	17.1	
sec-Butylbenzene		1.497	1.633	9.1	
1,3-Dichlorobenzene		.661	.693	4.9	
1,4-Dichlorobenzene		.523	.559	6.9	
p-Isopropyltoluene		1.078	1.220	13.2	
1,2-Dichlorobenzene		.631	.675	6.9	
n-Butylbenzene		1.226	1.376	12.2	
1,2-Dibromo-3-chloropropane		.064	.093	46.2	
1,2,4-Trichlorobenzene		.381	.419	10.0	
Naphthalene		.612	.659	7.8	
Hexachlorobutadiene		.336	.379	12.7	
1,2,3-Trichlorobenzene		.354	.373	5.3	
Benzene-d6		.980	1.101	12.3	
p-Bromofluorobenzene		.439	.430	2.0	
1,2-Dichlorobenzene-d4		.455	.446	2.1	

Calibration Check Report

Title: VOC 74 COMPOUNDS
Calibrated: 930106 10:12

Check Standard Data File: >AG089
Injection Time: 930107 09:38

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
Dichlorodifluoromethane	.18084	.15829	12.47	Average	
Chloromethane	.24488	.22657	7.48	Average	
Vinyl chloride	.23098	.18959	17.92	Average	
Bromomethane	.10973	.09835	10.37	Average	
Chloroethane	.06317	.05260	16.73	Average	
Trichlorofluoromethane	.28765	.19785	31.22	Average	
Acrolein	.01637	.01160	29.17	Average	(Conc=250.00)
1,1-Dichloroethene	.21837	.21794	.20	Average	
Acetone	.24086	.19992	17.00	Average	(Conc=250.00)
Carbon disulfide	.67300	.66178	1.67	Average	
Methylene chloride	.11356	.11680	2.85	Average	
trans-1,2-Dichloroethene	.21432	.21819	1.80	Average	
Acrylonitrile	.09330	.10651	14.16	Average	(Conc=250.00)
1,1-Dichloroethane	.44078	.45241	2.64	Average	
Vinyl acetate	.25744	.47107	82.98	Average ✓	(Conc=100.00)
2,2-Dichloropropane	.35191	.40756	15.81	Average	
cis-1,2-Dichloroethene	.26994	.30912	14.51	Average	
2-Butanone	.26863	.21901	18.47	Average	(Conc=250.00)
Bromochloromethane	.13360	.14625	9.47	Average	
Chloroform	.47735	.54645	14.48	Average	
1,1,1-Trichloroethane	.33736	.38089	12.90	Average	
Carbon tetrachloride	.25472	.29434	15.55	Average	
1,1-Dichloropropene	.35043	.40161	14.60	Average	
BENZENE-D6	.98031	1.10081	12.29	Average	(Conc=10.00)
Benzene	.90379	1.07724	19.19	Average	
1,2-Dichloroethane	.39432	.46157	17.06	Average	
Trichloroethene	.33903	.31738	6.38	Average	
1,2-Dichloropropane	.33922	.37194	9.64	Average	
Dibromomethane	.21127	.23010	8.92	Average	
2-Chloroethyl vinylether	-	-	-	Average	
Bromodichloromethane	.37568	.40632	8.16	Average	
cis-1,3-Dichloropropene	.43592	.49042	12.50	Average	(Conc=25.20)
Toluene	.57094	.61609	7.91	Average	
4-Methyl-2-pentanone	.41026	.47327	15.36	Average	(Conc=100.00)
trans-1,3-Dichloropropene	.35179	.40936	16.36	Average	(Conc=22.30)
Tetrachloroethene	.27284	.29044	6.45	Average	
1,1,2-Trichloroethane	.02264	.02254	.44	Average	
1,3-Dichloropropane	.44040	.49627	12.69	Average	
2-Hexanone	.35738	.38907	8.87	Average	(Conc=100.00)
Dibromochloromethane	.25554	.29079	13.79	Average	

RF - Response Factor from daily standard file at 50.00 UG/L

$\overline{RF}$ - Average Response Factor from Initial Calibration

%Diff - % Difference from original average or curve

Calibration Check Report

Title: VOC 74 COMPOUNDS
Calibrated: 930106 10:12

Check Standard Data File: >AG089
Injection Time: 930107 09:38

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
1,2-Dibromoethane	.25633	.28542	11.35	Average	
Chlorobenzene	.89531	.97982	9.44	Average	
1,1,1,2-Tetrachloroethane	.28949	.34016	17.50	Average	
Ethylbenzene	1.48838	1.65214	11.00	Average	
m &/or p-Xylene	.50212	.56471	12.47	Average	(Conc=100.00)
o-Xylene	.51651	.57153	10.65	Average	
Styrene	.69721	.76712	10.03	Average	
Bromoform	.23430	.28079	19.84	Average	
Isopropylbenzene	1.38806	1.53314	10.45	Average	
p-BROMOFLUOROBENZENE	.43872	.42993	2.01	Average	(Conc=10.00)
Bromobenzene	.38382	.41359	7.76	Average	
1,2,3-Trichloropropane	.35272	.43774	24.10	Average	
1,1,2,2-Tetrachloroethane	.35675	.54316	52.26	Average ✓	
n-Propylbenzene	.34304	.37747	10.04	Average	
2-Chlorotoluene	.33432	.35705	6.80	Average	
4-Chlorotoluene	.32158	.35230	9.55	Average	
1,3,5-Trimethylbenzene	1.06025	1.23857	16.82	Average	
tert-Butylbenzene	.91363	.99258	8.64	Average	
1,2,4-Trimethylbenzene	1.06327	1.24550	17.14	Average	
sec-Butylbenzene	1.49704	1.63301	9.08	Average	
1,3-Dichlorobenzene	.66067	.69277	4.86	Average	
1,4-Dichlorobenzene	.52248	.55880	6.95	Average	
p-Isopropyltoluene	1.07805	1.21988	13.16	Average	
1,2-DICHLOROBENZENE-D4	.45522	.44557	2.12	Average	(Conc=10.00)
1,2-Dichlorobenzene	.63142	.67490	6.89	Average	
n-Butylbenzene	1.22635	1.37646	12.24	Average	
1,2-Dibromo-3-chloropropane	.06386	.09341	46.26	Average ✓	
1,2,4-Trichlorobenzene	.38059	.41857	9.98	Average	
Naphthalene	.61186	.65942	7.77	Average	
Hexachlorobutadiene	.33641	.37896	12.65	Average	
1,2,3-Trichlorobenzene	.35447	.37315	5.27	Average	

RF - Response Factor from daily standard file at 50.00 UG/L

$\overline{RF}$ - Average Response Factor from Initial Calibration

%Diff - % Difference from original average or curve

QUANT REPORT

Operator ID: KELLY
Quant Rev: 7
Quant Time: 930107 10:11
Output File: ^AG089::D3
Injected at: 930107 09:38
Data File: >AG089::D5
Dilution Factor: 1.00000
Name: 50 PPB CC STD
Instrument ID: HP MS#4
Misc: 1/7/93 HP MS#4, 5mL PURGE

ID File: IDAG1F::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921223 14:04
Last Qcal Time: 921222 12:27

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.16	96.0	36136	10.00	UG/L	99
2)	Dichlorodifluoromethane	2.49	85.0	28600	54.22	UG/L	93
3)	Chloromethane	2.89	50.0	40937	49.75	UG/L	93
4)	Vinyl chloride	3.16	62.0	34256	39.54	UG/L	96
5)	Bromomethane	3.98	94.0	17770	44.75	UG/L	99
6)	Chloroethane	4.28	64.0	9504	38.19	UG/L	93
7)	Trichlorofluoromethane	4.97	101.0	35748	42.92	UG/L	95
8)	Acrolein	6.44	56.0	10478	292.24	UG/L	93
9)	1,1-Dichloroethene	6.45	96.0	39378	48.89	UG/L	95
10)	Acetone	6.97	43.0	180604	237.79	UG/L	98
11)	Carbon disulfide	6.77	76.0	119570	49.52	UG/L	99
12)	Methylene chloride	7.95	84.0	21103	45.49	UG/L	94
13)	trans-1,2-Dichloroethene	8.53	96.0	39422	50.83	UG/L	89
14)	Acrylonitrile	8.70	53.0	96217	243.19	UG/L	90
15)	1,1-Dichloroethane	9.54	63.0	81741	49.27	UG/L	98
16)	Vinyl acetate	9.87	43.0	170225	182.24	UG/L	100
17)	2,2-Dichloropropane	10.74	77.0	73638	72.72	UG/L	98
18)	cis-1,2-Dichloroethene	10.84	96.0	55852	68.04	UG/L	97
19)	2-Butanone	11.04	43.0	197853	200.83	UG/L	69
20)	Bromochloromethane	11.32	128.0	26425	50.66	UG/L	97
21)	Chloroform	11.59	83.0	98733	49.89	UG/L	92
22)	1,1,1-Trichloroethane	11.76	97.0	68819	51.55	UG/L	96
23)	Carbon tetrachloride	12.06	117.0	53182	48.27	UG/L	95
24)	1,1-Dichloropropene	12.13	75.0	72562	52.63	UG/L	98
25)	BENZENE-D6	12.46	84.0	39779	10.30	UG/L	98
26)	Benzene	12.53	78.0	194635	51.33	UG/L	98
27)	1,2-Dichloroethane	12.67	62.0	83396	51.23	UG/L	98
28)	*TOLUENE-D8	16.30	98.0	33146	10.00	UG/L	88
29)	Trichloroethene	13.88	95.0	52600	31.39	UG/L	84
30)	1,2-Dichloropropane	14.34	63.0	61641	50.49	UG/L	93
31)	Dibromomethane	14.57	174.0	38135	54.25	UG/L	95
32)	2-Chloroethyl vinylether	15.49	63.0	1127	22.00	UG/L	87
33)	Bromodichloromethane	14.96	83.0	67339	52.85	UG/L	99
34)	cis-1,3-Dichloropropene	15.85	75.0	40964	26.78	UG/L	92
35)	Toluene	16.43	92.0	102105	51.40	UG/L	94
36)	4-Methyl-2-pentanone	16.24	43.0	156869	96.27	UG/L	85
37)	trans-1,3-Dichloropropene	17.03	75.0	30258	23.47	UG/L	94
38)	Tetrachloroethene	17.48	166.0	48135	55.10	UG/L	95
39)	1,1,2-Trichloroethane	17.34	132.0	3735	53.12	UG/L	93
40)	1,3-Dichloropropane	17.65	76.0	82247	52.39	UG/L	98

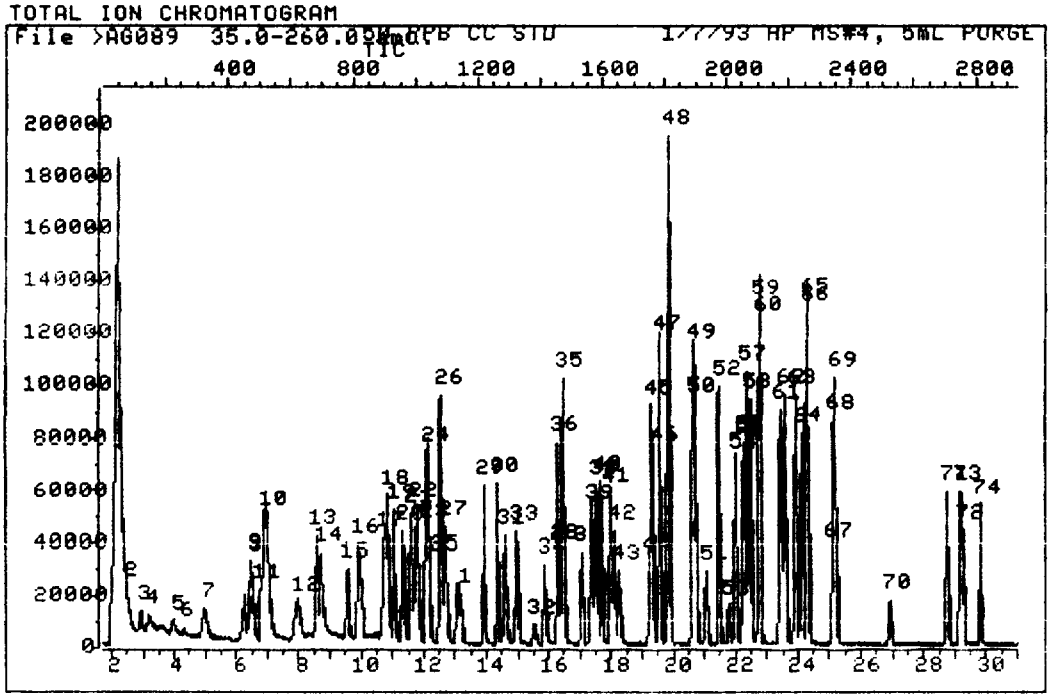
Operator ID: KELLY Quant Rev: 7 Quant Time: 930107 10:11
Output File: ^AG089::D3 Injected at: 930107 09:38
Data File: >AG089::D5 Dilution Factor: 1.00000
Name: 50 PPB CC STD Instrument ID: HP MS#4
Misc: 1/7/93 HP MS#4, 5mL PURGE

ID File: IDAG1F::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921223 14:04 Last Qcal Time: 921222 12:27

	Compound	R.T.	Q ion	Area	Conc	Units	q
41)	2-Hexanone	17.94	43.0	128962	89.17	UG/L	85
42)	Dibromochloromethane	18.09	129.0	48192	55.88	UG/L	99
43)	1,2-Dibromoethane	18.25	107.0	47302	50.23	UG/L	98
44)	*CHLOROBENZENE-D5	19.22	117.0	22369	10.00	UG/L	95
45)	Chlorobenzene	19.28	112.0	109588	53.78	UG/L	91
46)	1,1,1,2-Tetrachloroethane	19.50	131.0	38045	64.06	UG/L	97
47)	Ethylbenzene	19.55	91.0	184784	52.89	UG/L	94
48)	m &/or p-Xylene	19.81	106.0	126320	105.64	UG/L	80
49)	o-Xylene	20.62	106.0	63923	52.88	UG/L	92
50)	Styrene	20.68	104.0	85798	51.42	UG/L	93
51)	Bromoform	21.03	173.0	31405	60.02	UG/L	98
52)	Isopropylbenzene	21.44	105.0	171474	52.55	UG/L	94
53)	p-BROMOFLUOROBENZENE	21.74	174.0	9617	10.27	UG/L	96
54)	Bromobenzene	21.99	156.0	46258	55.72	UG/L	95
55)	1,2,3-Trichloropropane	22.23	75.0	48959	53.51	UG/L	82
56)	1,1,2,2-Tetrachloroethane	22.22	83.0	60750	498.69	UG/L	97
57)	n-Propylbenzene	22.33	120.0	42218	54.30	UG/L	99
58)	2-Chlorotoluene	22.45	126.0	39934	54.14	UG/L	90
59)	4-Chlorotoluene	22.71	126.0	39403	53.54	UG/L	90
60)	1,3,5-Trimethylbenzene	22.75	105.0	138528	53.10	UG/L	84
61)	tert-Butylbenzene	23.43	119.0	111015	53.59	UG/L	84
62)	1,2,4-Trimethylbenzene	23.55	105.0	139303	51.59	UG/L	86
63)	sec-Butylbenzene	23.91	105.0	182644	52.54	UG/L	91
64)	1,3-Dichlorobenzene	24.09	146.0	77483	52.49	UG/L	91
65)	1,4-Dichlorobenzene	24.30	146.0	62499	52.29	UG/L	96
66)	p-Isopropyltoluene	24.27	119.0	136438	53.34	UG/L	89
67)	1,2-DICHLOROBENZENE-D4	25.04	152.0	9967	9.94	UG/L	94
68)	1,2-Dichlorobenzene	25.09	146.0	75484	53.15	UG/L	94
69)	n-Butylbenzene	25.18	91.0	153950	51.10	UG/L	89
70)	1,2-Dibromo-3-chloropropane	26.89	157.0	10447	121.58	UG/L	92
71)	1,2,4-Trichlorobenzene	28.71	180.0	46815	50.90	UG/L	97
72)	Naphthalene	29.23	128.0	73753	41.56	UG/L	100
73)	Hexachlorobutadiene	29.15	225.0	42385	62.62	UG/L	98
74)	1,2,3-Trichlorobenzene	29.78	180.0	41735	48.68	UG/L	98

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AG089::D5 Quant Output File: ^AG089::D3
Name: 50 PPB CC STD Instrument ID: HP MS#4
Misc: 1/7/93 HP MS#4, 5mL PURGE

Id File: IDAG1F::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921223 14:04 Last Qcal Time: 921222 12:27

Operator ID: KELLY
Quant Time : 930107 10:11
Injected at: 930107 09:38

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:CRL SE ROCKFORD Contract:5ESD-10C

Lab Code: 5SCRL Case No.: SF-1077 SAS No.: --- SDG No.: ---

Instrument ID: HP MS#4 Calibration Date: 1/14/93 Time: 13:10

Lab File ID: >AG105 Init. Calib. Date(s):12/08/92 --/--/--

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 30.0%

COMPOUND		$\overline{RRF}$	RRF50	%D	
Dichlorodifluoromethane		.181	.153	15.6	
Chloromethane	#	.245	.231	5.6	#
Vinyl chloride	*	.231	.212	8.2	*
Bromomethane		.110	.109	.8	
Chloroethane		.063	.066	3.8	
Trichlorofluoromethane		.288	.233	18.9	
Acrolein		.016	.010	42.1	
1,1-Dichloroethene	*	.218	.224	2.5	*
Acetone		.241	.147	39.1	
Carbon disulfide		.673	.525	22.0	
Methylene chloride		.114	.128	12.4	
trans-1,2-Dichloroethene		.214	.216	1.0	
Acrylonitrile		.093	.083	11.2	
1,1-Dichloroethane	#	.441	.435	1.3	#
Vinyl acetate		.257	.309	20.1	
2,2-Dichloropropane		.352	.258	26.8	
cis-1,2-Dichloroethene		.270	.174	35.4	
2-Butanone		.269	.121	55.0	
Bromochloromethane		.134	.139	4.4	
Chloroform	*	.477	.541	13.4	*
1,1,1-trichloroethane		.337	.378	12.0	
Carbon tetrachloride		.255	.292	14.6	
1,1-Dichloropropene		.350	.393	12.1	
Benzene		.904	1.066	18.0	
1,2-Dichloroethane	*	.394	.447	13.4	*
Trichloroethene		.339	.420	24.0	
1,2-Dichloropropane		.339	.348	2.6	
Dibromomethane		.211	.239	13.3	
Bromodichloromethane		.376	.389	3.7	
cis-1,3-dichloropropene		.436	.446	2.3	
Toluene	*	.571	.613	7.3	*
4-Methyl-2-pentanone		.410	.395	3.8	
trans-1,3-Dichloropropene		.352	.366	4.2	
Tetrachloroethene		.273	.313	14.7	
1,1,2-Trichloroethane		.023	.024	7.0	
1,3-Dichloropropane		.440	.460	4.5	
2-Hexanone		.357	.347	3.0	

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:CRL SE ROCKFORD Contract:5ESD-10C

Lab Code: 5SCRL Case No.: SF-1077 SAS No.: --- SDG No.: ---

Instrument ID: HP MS#4 Calibration Date: 1/14/93 Time: 13:10

Lab File ID: >AG105 Init. Calib. Date(s):12/08/92 --/--/--

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 30.0%

COMPOUND		$\overline{RRF}$	RRF50	%D	
Dibromochloromethane		.256	.278	8.6	
1,2-Dibromoethane		.256	.278	8.3	
Chlorobenzene	#	.895	.984	9.9	#
1,1,1,2-Tetrachloroethane		.289	.315	8.7	
Ethylbenzene	*	1.488	1.588	6.7	*
m &/or p-Xylene		.502	.551	9.8	
o-Xylene		.516	.567	9.7	
Styrene		.697	.767	10.0	
Bromoform	#	.234	.262	12.0	#
Isopropylbenzene		1.388	1.507	8.5	
Bromobenzene		.384	.431	12.3	
1,2,3-Trichloropropane		.353	.370	4.8	
1,1,2,2-Tetrachloroethane		.357	.158	55.8	
n-Propylbenzene		.343	.379	10.5	
2-Chlorotoluene		.334	.362	8.2	
4-Chlorotoluene		.322	.355	10.5	
1,3,5-Trimethylbenzene		1.060	1.198	13.0	
tert-Butylbenzene		.914	.983	7.6	
1,2,4-Trimethylbenzene		1.063	1.218	14.6	
sec-Butylbenzene		1.497	1.614	7.8	
1,3-Dichlorobenzene		.661	.732	10.7	
1,4-Dichlorobenzene		.523	.597	14.2	
p-Isopropyltoluene		1.078	1.208	12.0	
1,2-Dichlorobenzene		.631	.701	11.1	
n-Butylbenzene		1.226	1.337	9.0	
1,2-Dibromo-3-chloropropane		.064	.058	8.5	
1,2,4-Trichlorobenzene		.381	.458	20.3	
Naphthalene		.612	.687	12.2	
Hexachlorobutadiene		.336	.437	29.8	
1,2,3-Trichlorobenzene		.354	.421	18.7	
Benzene-d6		.980	1.083	10.5	
p-Bromofluorobenzene		.439	.460	4.9	
1,2-Dichlorobenzene-d4		.455	.468	2.8	

Calibration Check Report

Title: VOC 74 COMPOUNDS
Calibrated: 930106 10:12

Check Standard Data File: >AG105
Injection Time: 930114 13:10

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
Dichlorodifluoromethane	.18084	.15251	15.67	Average	
Chloromethane	.24488	.23117	5.60	Average	
Vinyl chloride	.23098	.21217	8.14	Average	
Bromomethane	.10973	.10883	.82	Average	
Chloroethane	.06317	.06563	3.89	Average	
Trichlorofluoromethane	.28765	.23323	18.92	Average	
Acrolein	.01637	.00950	41.96	Average	(Conc=250.00)
1,1-Dichloroethene	.21837	.22388	2.52	Average	
Acetone	.24086	.14663	39.12	Average	(Conc=250.00)
Carbon disulfide	.67300	.52486	22.01	Average	
Methylene chloride	.11356	.12772	12.47	Average	
trans-1,2-Dichloroethene	.21432	.21637	.96	Average	
Acrylonitrile	.09330	.08287	11.18	Average	(Conc=250.00)
1,1-Dichloroethane	.44078	.43511	1.29	Average	
Vinyl acetate	.25744	.30911	20.07	Average	(Conc=100.00)
2,2-Dichloropropane	.35191	.25770	26.77	Average	
cis-1,2-Dichloroethene	.26994	.17428	35.44	Average	
2-Butanone	.26863	.12079	55.04	Average	(Conc=250.00)
Bromochloromethane	.13360	.13944	4.36	Average	
Chloroform	.47735	.54143	13.42	Average	
1,1,1-Trichloroethane	.33736	.37801	12.05	Average	
Carbon tetrachloride	.25472	.29186	14.58	Average	
1,1-Dichloropropene	.35043	.39268	12.06	Average	
BENZENE-D6	.98031	1.08329	10.50	Average	(Conc=10.00)
Benzene	.90379	1.06650	18.00	Average	
1,2-Dichloroethane	.39432	.44716	13.40	Average	
Trichloroethene	.33903	.42020	23.94	Average	
1,2-Dichloropropane	.33922	.34793	2.57	Average	
Dibromomethane	.21127	.23948	13.35	Average	
2-Chloroethyl vinylether	-	-	-	Average	
Bromodichloromethane	.37568	.38943	3.66	Average	
cis-1,3-Dichloropropene	.43592	.44595	2.30	Average	(Conc=25.20)
Toluene	.57094	.61268	7.31	Average	
4-Methyl-2-pentanone	.41026	.39482	3.76	Average	(Conc=100.00)
trans-1,3-Dichloropropene	.35179	.36648	4.18	Average	(Conc=22.30)
Tetrachloroethene	.27284	.31284	14.66	Average	
1,1,2-Trichloroethane	.02264	.02418	6.82	Average	
1,3-Dichloropropane	.44040	.46012	4.48	Average	
2-Hexanone	.35738	.34669	2.99	Average	(Conc=100.00)
Dibromochloromethane	.25554	.27757	8.62	Average	

RF - Response Factor from daily standard file at 50.00 UG/L

$\overline{RF}$ - Average Response Factor from Initial Calibration

%Diff - % Difference from original average or curve

Calibration Check Report

Title: VOC 74 COMPOUNDS
Calibrated: 930106 10:12

Check Standard Data File: >AG105
Injection Time: 930114 13:10

Compound	$\overline{RF}$	RF	%Diff	Calib Meth	
1,2-Dibromoethane	.25633	.27764	8.31	Average	
Chlorobenzene	.89531	.98350	9.85	Average	
1,1,1,2-Tetrachloroethane	.28949	.31461	8.68	Average	
Ethylbenzene	1.48838	1.58757	6.66	Average	
m &/or p-Xylene	.50212	.55126	9.79	Average	(Conc=100.00)
o-Xylene	.51651	.56658	9.69	Average	
Styrene	.69721	.76700	10.01	Average	
Bromoform	.23430	.26245	12.02	Average	
Isopropylbenzene	1.38806	1.50646	8.53	Average	
p-BROMOFLUOROBENZENE	.43872	.46008	4.87	Average	(Conc=10.00)
Bromobenzene	.38382	.43093	12.27	Average	
1,2,3-Trichloropropane	.35272	.36976	4.83	Average	
1,1,2,2-Tetrachloroethane	.35675	.15756	55.83	Average	
n-Propylbenzene	.34304	.37902	10.49	Average	
2-Chlorotoluene	.33432	.36186	8.24	Average	
4-Chlorotoluene	.32158	.35541	10.52	Average	
1,3,5-Trimethylbenzene	1.06025	1.19840	13.03	Average	
tert-Butylbenzene	.91363	.98268	7.56	Average	
1,2,4-Trimethylbenzene	1.06327	1.21813	14.57	Average	
sec-Butylbenzene	1.49704	1.61397	7.81	Average	
1,3-Dichlorobenzene	.66067	.73156	10.73	Average	
1,4-Dichlorobenzene	.52248	.59678	14.22	Average	
p-Isopropyltoluene	1.07805	1.20766	12.02	Average	
1,2-DICHLOROBENZENE-D4	.45522	.46787	2.78	Average	(Conc=10.00)
1,2-Dichlorobenzene	.63142	.70127	11.06	Average	
n-Butylbenzene	1.22635	1.33724	9.04	Average	
1,2-Dibromo-3-chloropropane	.06386	.05845	8.48	Average	
1,2,4-Trichlorobenzene	.38059	.45793	20.32	Average	
Naphthalene	.61186	.68681	12.25	Average	
Hexachlorobutadiene	.33641	.43670	29.81	Average	
1,2,3-Trichlorobenzene	.35447	.42064	18.67	Average	

RF - Response Factor from daily standard file at 50.00 UG/L

$\overline{RF}$ - Average Response Factor from Initial Calibration

%Diff - % Difference from original average or curve

QUANT REPORT

Operator ID: KELLY Quant Rev: 7 Quant Time: 930114 13:43
Output File: ^AG105::D3 Injected at: 930114 13:10
Data File: >AG105::D5 Dilution Factor: 1.00000
Name: 50 PPB CC STD Instrument ID: HP MS#4
Misc: 1/14/93 HP MS#4, 5mL PURGE

ID File: IDAG1G::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921223 14:04 Last Qcal Time: 930114 11:07

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.15	96.0	38250	10.00	UG/L	99
2)	Dichlorodifluoromethane	2.50	85.0	29168	48.96	UG/L	94
3)	Chloromethane	2.91	50.0	44212	51.72	UG/L	93
4)	Vinyl chloride	3.16	62.0	40577	50.01	UG/L	96
5)	Bromomethane	3.97	94.0	20814	50.35	UG/L	99
6)	Chloroethane	4.28	64.0	12551	55.11	UG/L	95
7)	Trichlorofluoromethane	4.97	101.0	44606M	52.37	UG/L	97
8)	Acrolein	6.43	56.0	9087M	241.02	UG/L	83
9)	1,1-Dichloroethene	6.46	96.0	42818	48.01	UG/L	98
10)	Acetone	6.97	43.0	140215M	236.26	UG/L	99
11)	Carbon disulfide	6.77	76.0	100379	48.03	UG/L	99
12)	Methylene chloride	7.94	84.0	24427	49.80	UG/L	89
13)	trans-1,2-Dichloroethene	8.53	96.0	41381	48.90	UG/L	96
14)	Acrylonitrile	8.69	53.0	79242	248.22	UG/L	90
15)	1,1-Dichloroethane	9.53	63.0	83215	47.84	UG/L	99
16)	Vinyl acetate	9.87	43.0	118234	71.85	UG/L	100
17)	2,2-Dichloropropane	10.72	77.0	49286	48.37	UG/L	98
18)	cis-1,2-Dichloroethene	10.81	96.0	33331M	50.63	UG/L	94
19)	2-Butanone	11.01	43.0	115502	260.28	UG/L	66
20)	Bromochloromethane	11.29	128.0	26667	119.98	UG/L	98
21)	Chloroform	11.58	83.0	103549	91.74	UG/L	94
22)	1,1,1-Trichloroethane	11.74	97.0	72295	73.11	UG/L	95
23)	Carbon tetrachloride	12.05	117.0	55819	48.13	UG/L	92
24)	1,1-Dichloropropene	12.11	75.0	75101	48.12	UG/L	97
25)	BENZENE-D6	12.44	84.0	41436	10.00	UG/L	97
26)	Benzene	12.51	78.0	203969	48.45	UG/L	99
27)	1,2-Dichloroethane	12.65	62.0	85519	48.14	UG/L	96
28)	*TOLUENE-D8	16.29	98.0	35815	10.00	UG/L	89
29)	Trichloroethene	13.86	95.0	75248	65.17	UG/L	89
30)	1,2-Dichloropropane	14.32	63.0	62305	46.95	UG/L	94
31)	Dibromomethane	14.55	174.0	42884	48.75	UG/L	98
32)	2-Chloroethyl vinylether	15.48	63.0	1968	1968.00	NO CALIB	97
33)	Bromodichloromethane	14.95	83.0	69738	46.61	UG/L	99
34)	cis-1,3-Dichloropropene	15.84	75.0	40249	22.49	UG/L	94
35)	Toluene	16.42	92.0	109716	47.60	UG/L	95
36)	4-Methyl-2-pentanone	16.23	43.0	141405	97.45	UG/L	88
37)	trans-1,3-Dichloropropene	17.01	75.0	29270	20.02	UG/L	97
38)	Tetrachloroethene	17.47	166.0	56022	48.15	UG/L	96
39)	1,1,2-Trichloroethane	17.34	132.0	4330	48.02	UG/L	94
40)	1,3-Dichloropropane	17.65	76.0	82396	47.08	UG/L	98

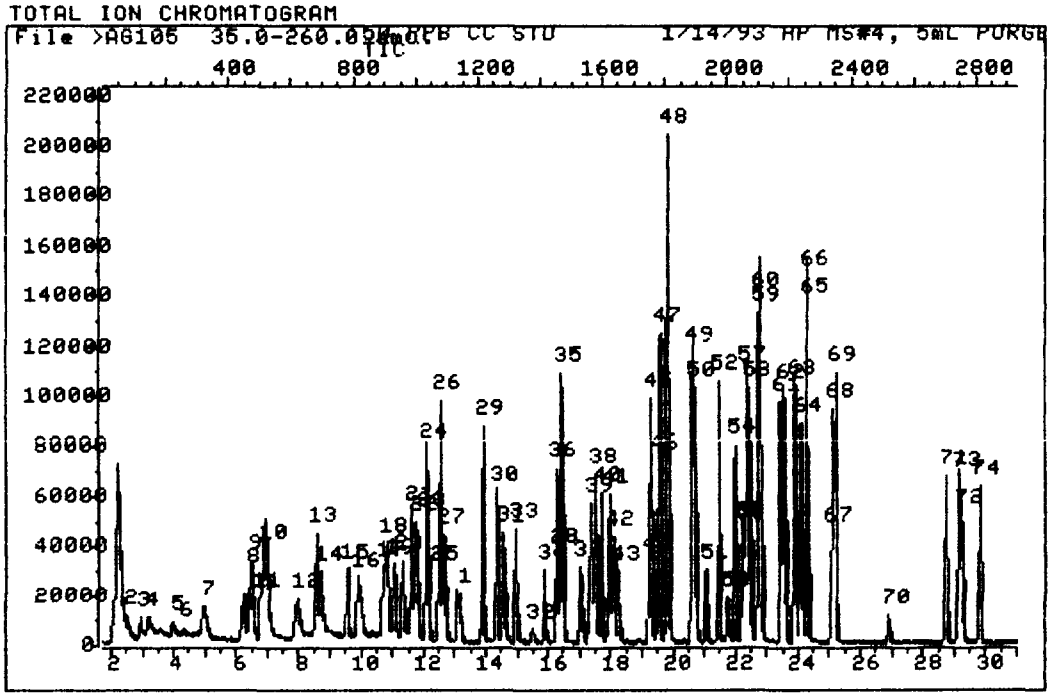
Operator ID: KELLY Quant Rev: 7 Quant Time: 930114 13:43
Output File: ^AG105::D3 Injected at: 930114 13:10
Data File: >AG105::D5 Dilution Factor: 1.00000
Name: 50 PPB CC STD Instrument ID: HP MS#4
Misc: 1/14/93 HP MS#4, 5mL PURGE

ID File: IDAG1G::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921223 14:04 Last Qcal Time: 930114 11:07

	Compound	R.T.	Q ion	Area	Conc	Units	q
41)	2-Hexanone	17.93	43.0	124167	104.40	UG/L	87
42)	Dibromochloromethane	18.08	129.0	49705	47.17	UG/L	98
43)	1,2-Dibromoethane	18.24	107.0	49719	47.25	UG/L	99
44)	*CHLOROBENZENE-D5	19.21	117.0	24887	10.00	UG/L	98
45)	Chlorobenzene	19.26	112.0	122382	48.70	UG/L	95
46)	1,1,1,2-Tetrachloroethane	19.49	131.0	39149	44.98	UG/L	98
47)	Ethylbenzene	19.54	91.0	197549	48.51	UG/L	95
48)	m &/or p-Xylene	19.80	106.0	137192	96.77	UG/L	80
49)	o-Xylene	20.61	106.0	70502	48.48	UG/L	97
50)	Styrene	20.67	104.0	95442	48.80	UG/L	95
51)	Bromoform	21.03	173.0	32658	46.24	UG/L	98
52)	Isopropylbenzene	21.43	105.0	187456	48.07	UG/L	97
53)	p-BROMOFLUOROBENZENE	21.74	174.0	11450	9.99	UG/L	94
54)	Bromobenzene	21.99	156.0	53623	49.18	UG/L	99
55)	1,2,3-Trichloropropane	22.24	75.0	46011	47.52	UG/L	79
56)	1,1,2,2-Tetrachloroethane	22.21	83.0	19606	15.35	UG/L	94
57)	n-Propylbenzene	22.32	120.0	47163	48.74	UG/L	99
58)	2-Chlorotoluene	22.45	126.0	45028	47.36	UG/L	91
59)	4-Chlorotoluene	22.70	126.0	44225	47.77	UG/L	89
60)	1,3,5-Trimethylbenzene	22.74	105.0	149123	47.79	UG/L	87
61)	tert-Butylbenzene	23.42	119.0	122280	47.04	UG/L	85
62)	1,2,4-Trimethylbenzene	23.54	105.0	151578	47.70	UG/L	87
63)	sec-Butylbenzene	23.90	105.0	200834	47.69	UG/L	93
64)	1,3-Dichlorobenzene	24.07	146.0	91032	47.56	UG/L	93
65)	1,4-Dichlorobenzene	24.29	146.0	74260	49.34	UG/L	95
66)	p-Isopropyltoluene	24.26	119.0	150275	47.89	UG/L	91
67)	1,2-DICHLOROBENZENE-D4	25.04	152.0	11644	10.28	UG/L	94
68)	1,2-Dichlorobenzene	25.08	146.0	87263	48.36	UG/L	94
69)	n-Butylbenzene	25.17	91.0	166400	47.34	UG/L	90
70)	1,2-Dibromo-3-chloropropane	26.88	157.0	7273	32.75	UG/L	92
71)	1,2,4-Trichlorobenzene	28.71	180.0	56983	47.98	UG/L	99
72)	Naphthalene	29.22	128.0	85463	48.20	UG/L	100
73)	Hexachlorobutadiene	29.14	225.0	54341	48.12	UG/L	96
74)	1,2,3-Trichlorobenzene	29.78	180.0	52342	48.22	UG/L	98

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AG105::D5 Quant Output File: ^AG105::D3
Name: 50 PPB CC STD Instrument ID: HP MS#4
Misc: 1/14/93 HP MS#4, 5mL PURGE

Id File: IDAG1G::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921223 14:04 Last Qcal Time: 930114 11:07

Operator ID: KELLY
Quant Time : 930114 13:43
Injected at: 930114 13:10

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name:CRL SE ROCKFORD Contract:5ESD-10C

Lab Code: 5SCRL Case No.: SF1077 SAS No.: --- SDG No.: ---

Lab File ID (Standard): >AG007 Date Analyzed:12/08/92

Instrument ID: HP MS#4 Time Analyzed: 13:56

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

		IS1(FBZ) AREA #	RT	IS2(TOL) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	32232.	13.13	30389.	16.27	21266.	19.19
	UPPER LIMIT	64464.	13.63	60778.	16.77	42532.	19.69
	LOWER LIMIT	16116.	12.63	15194.	15.77	10633.	18.69
	EPA SAMPLE NO.						
01	VOASTD5	27410.	13.05	26614.	16.25	18605.	19.19
02	VOASTD25	32249.	13.14	30524.	16.28	21597.	19.18
03	VOASTD50	32232.	13.13	30389.	16.27	21266.	19.19
04	VOASTD100	35571.	13.14	33242.	16.26	22527.	19.18
05	VOASTD150	34639.	13.14	31250.	16.27	20887.	19.18
06	120892BLK2	25130.	13.14	22626.	16.27	16230.	19.18
07	ICAL CHECK	30198.	13.14	28850.	16.28	20313.	19.18
08	120892BLK3	29779.	13.13	26614.	16.27	18687.	19.19
09							
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19							
20							
21							
22							

IS1 (FBZ) = Fluorobenzene
IS2 (TOL) = Toluene-d8
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = + 100%
of internal standard area.
LOWER LIMIT = - 50%
of internal standard area.

Column used to flag internal standard area values with an asterisk

FORM VIII VOA 1/87 Rev.

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name:CRL SE ROCKFORD Contract:5ESD-10C

Lab Code: 5SCRL Case No.: SF-1077 SAS No.: --- SDG No.: ---

Lab File ID (Standard): >AG089 Date Analyzed: 1/07/93

Instrument ID: HP MS#4 Time Analyzed: 9:38

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

		IS1(FBZ) AREA #	RT	IS2(TOL) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	36136.	13.16	33146.	16.30	22369.	19.22
	UPPER LIMIT	72272.	13.66	66292.	16.80	44738.	19.72
	LOWER LIMIT	18068.	12.66	16573.	15.80	11184.	18.72
	EPA SAMPLE NO.						
01	010793BLK1	29008.	13.16	25718.	16.28	18240.	19.21
02	93SV01R11	31232.	13.16	28323.	16.28	20546.	19.19
03	93SV01R12	31555.	13.15	28090.	16.28	20450.	19.19
04	93SV01R13	29975.	13.14	26787.	16.27	19680.	19.19
05	93SV01D19	32357.	13.14	28799.	16.28	21399.	19.19
06	93SV01S17	27361.	13.14	23747.	16.27	17314.	19.19
07	93SV01S18	33184.	13.14	28770.	16.28	21311.	19.19
08	93SV01S19	29730.	13.14	25805.	16.28	18682.	19.18
09	93SV01S20	28724.	13.14	24516.	16.28	18112.	19.19
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21							
22							

IS1 (FBZ) = Fluorobenzene
IS2 (TOL) = Toluene-d8
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = + 100%
of internal stansard area.
LOWER LIMIT = - 50%
of internal standard area.

Column used to flag internal standard area values with an asterisk

FORM VIII VOA 1/87 Rev.

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name:CRL SE ROCKFORD Contract:5ESD-10C

Lab Code: 5SCRL Case No.: SF-1077 SAS No.: --- SDG No.: ---

Lab File ID (Standard): >AG105 Date Analyzed: 1/14/93

Instrument ID: HP MS Time Analyzed: 13:10

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

		IS1(FBZ) AREA #	RT	IS2(TOL) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	38250.	13.15	35815.	16.29	24887.	19.21
	UPPER LIMIT	76500.	13.65	71630.	16.79	49774.	19.71
	LOWER LIMIT	19125.	12.65	17908.	15.79	12443.	18.71
	EPA SAMPLE NO.						
01	011493BLK1	33457.	13.13	29518.	16.29	21134.	19.21
02	93SV01S19MS	33129.	13.14	32320.	16.28	22259.	19.20
03	93SV01S19MD	33273.	13.14	32461.	16.28	22849.	19.20
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22							

IS1 (FBZ) = Fluorobenzene
IS2 (TOL) = Toluene-d8
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = + 100%
of internal stansard area.
LOWER LIMIT = - 50%
of internal standard area.

Column used to flag internal standard area values with an asterisk

FORM VIII VOA 1/87 Rev.

TFA 301

D930001077

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: TOXIC SUBSTANCES

DIVISION/BRANCH Superfund SAMPLE DATE 01-06-93 LAB ARRIVAL DATE 01-07-93 DUE DATE 01-28-93

DU NUMBER TFA DATA SET NUMBER 1077 STUDY S.E. Rockford PRIORITY — CONTRACTOR

CRL LOG NUMBER	SAMPLE DESCRIPTION TAG #s	WATER VOLATILE ORGANICS SCAN UG/L TOX 17684	WATER ABN ORGANICS SCAN UG/L TOX 17674	SEDIMENTS SOLIDS VOLATILE ORGANICS SCAN MG/KG (DRY) TOX 215622	SEDIMENTS SOLIDS ABN ORGANICS SCAN MG/KG (DRY) TOX 215722
93SV01 D09	016263-016265	X			
93SV01 S19	016260-016262	X			
93SV01 R13	016257-016259	X			
93SV01 S20	016254-016256	X			
Anthony Guglotta 1/22/93					

D930001077

TFA 301

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: TOXIC SUBSTANCES

DIVISION/BRANCH Superfund SAMPLE DATE 1-4-93 LAB ARRIVAL DATE 1-6-93 DUE DATE 1-27-93

DU NUMBER TFA DATA SET NUMBER 1077 STUDY S.E. Rockford PRIORITY N CONTRACTOR

CRL LOG NUMBER 935V01	SAMPLE DESCRIPTION	WATER VOLATILE ORGANICS SCAN UG/L TOX 17664	WATER ABN ORGANICS SCAN UG/L TOX 17574	SEDIMENTS SOLIDS VOLATILE ORGANICS SCAN MG/KG (DRY) TOX 215622	SEDIMENTS SOLIDS ABN ORGANICS SCAN MG/KG (DRY) TOX 215722
R11	5-016235-016237	X			
S17	5-016232-016234	X			
A. Guglietta 1/22/93					

TFA 301

D930001077

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: TOXIC SUBSTANCES

DIVISION/BRANCH Superfund SAMPLE DATE 01-06-93 LAB ARRIVAL DATE 01-07-93 DUE DATE 01-28-93

DU NUMBER IFA DATA SET NUMBER 1077 STUDY S.E. Rockford PRIORITY — CONTRACTOR

CRL LOG NUMBER	SAMPLE DESCRIPTION TAG #s	WATER VOLATILE ORGANICS SCAN UG/L TOX 17684	WATER ABN ORGANICS SCAN UG/L TOX 17674	SEDIMENTS SOLIDS VOLATILE ORGANICS SCAN MG/KG (DRY) TOX 215622	SEDIMENTS SOLIDS ABN ORGANICS SCAN MG/KG (DRY) TOX 215722
93SV01 D09	016263-016265	X			
93SV01 S19	016260-016262	X			
93SV01 R13	016257-016259	X			
93SV01 S20	016254-016256	X			
A. Guglietta	1/22/93				

D930001077 TFA301

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: TOXIC SUBSTANCES

DIVISION/BRANCH Superfund SAMPLE DATE 1-5-93 LAB ARRIVAL DATE 1-6-93 DUE DATE 1-27-93

DU NUMBER TFA DATA SET NUMBER 1077 STUDY S.E. Rockford PRIORITY N CONTRACTOR

CRL LOG NUMBER 93301	SAMPLE DESCRIPTION	WATER VOLATILE ORGANICS SCAN UG/L TOX 17564	WATER ABN ORGANICS SCAN UG/L TOX 17574	SEDIMENTS SOLIDS VOLATILE ORGANICS SCAN MG/KG (DRY) TOX 215622	SEDIMENTS SOLIDS ABN ORGANICS SCAN MG/KG (DRY) TOX 215722
518	5-016238-016246	X			
R12	5-016326-016328	X			
A. Guglietta	1/22/93				

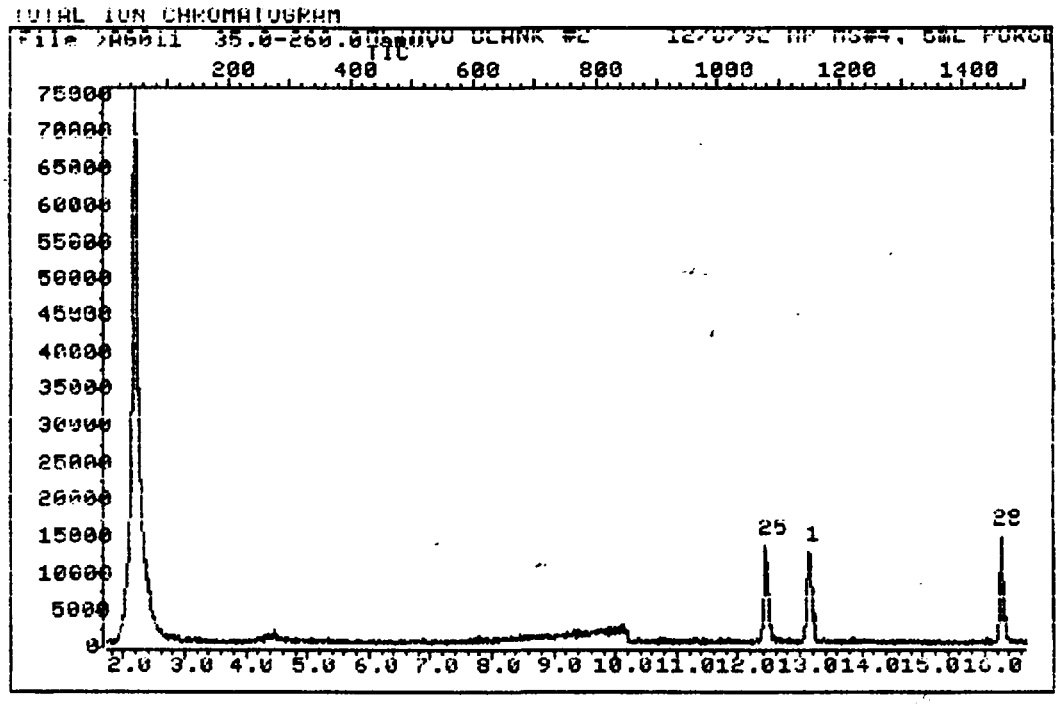
QUANT REPORT

Operator ID: KELLY Quant Rev: 7 Quant Time: 921222 10:12
Output File: ^AG011::D6 Injected at: 921208 16:33
Data File: >AG011::D6 Dilution Factor: 1.00000
Name: METHOD BLANK #2 Instrument ID: HP MSD#1
Misc: 12/8/92 HP MS#4, 5mL PURGE

ID File: IDAG01::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921222 09:38 Last Qcal Time: <none>

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.14	96.0	25130	10.00	UG/L	97
25)	BENZENE-D6	12.44	84.0	28122	11.42	UG/L	99
28)	*TOLUENE-D8	16.27	98.0	22626	10.00	UG/L	97
44)	*CHLOROBENZENE-D5	19.18	117.0	16230	10.00	UG/L	99
53)	p-BROMOFLUOROBENZENE	21.72	174.0	7047	9.90	UG/L	97
67)	1,2-DICHLOROBENZENE-D4	25.01	152.0	7476	10.12	UG/L	94

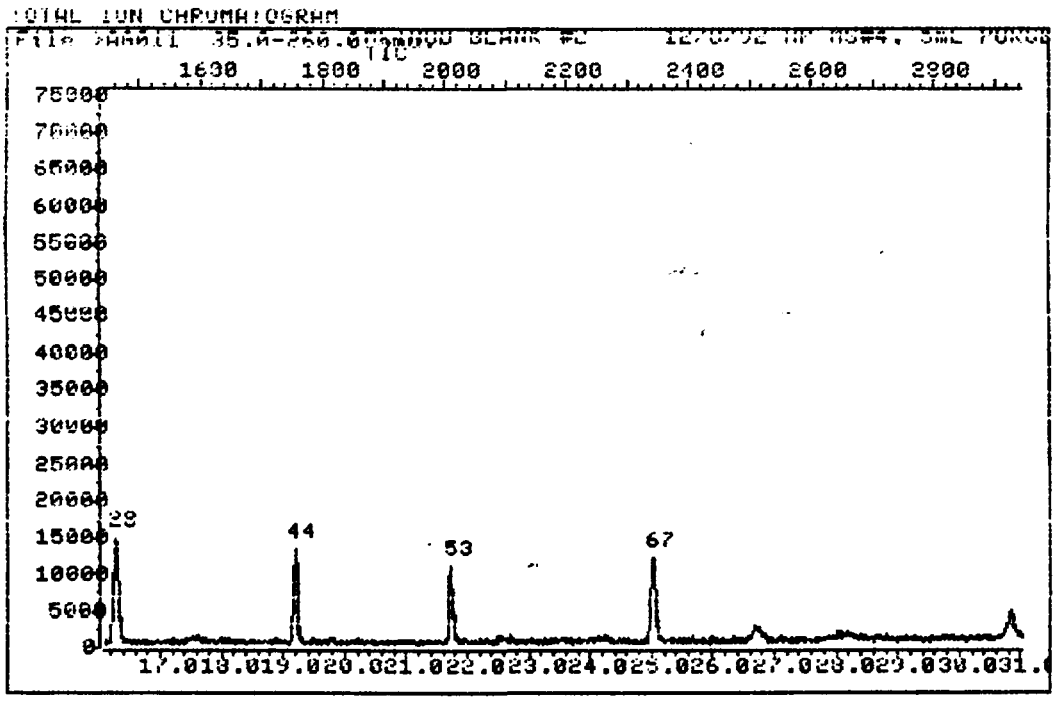
* Compound is ISTD



Data File: >AG011::D6 Quant Output File: ^AG011::D6
Name: METHOD BLANK #2 Instrument ID: HP MSD#1
Misc: 12/8/92 HP MS#4, 5mL PURGE

Id File: IDAG01::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921222 09:38 Last Qcal Time: <none>

Operator ID: KELLY
Quant Time : 921222 10:12
Injected at: 921208 16:33



Data File: >AG011::D6 Quant Output File: ^AG011::D6
Name: METHOD BLANK #2 Instrument ID: HP MSD#1
Misc: 12/8/92 HP MS#4, 5mL PURGE

Id File: IDAG01::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921222 09:38 Last Wcal Time: <none>

Operator ID: KELLY
Quant Time : 921222 10:12
Injected at: 921208 16:33

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ICAL CHECK

Lab Name: CRL SE ROCKFORD Contract: 5ESD-10C

Lab Code: 5SCRL Case No.: SF-1077 SAS No.: --- SDG No.: ---

Matrix: (soil/water) WATER Lab Sample ID: ICAL CHECK

Sample wt/vol: 5 (g/mL) mL Lab File ID: >AG012

Level: (low/med) LOW Date Received: 12/08/92

% Moisture: not dec.---- Date Analyzed: 12/08/92

Column: (pack/cap) CAP Dilution Factor: 1.00000

Final extract Volume: -- (uL) Conversion Factor: 1.0000

Aliquot Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	3.	U
74-87-3	Chloromethane	29.	
75-01-4	Vinyl chloride	34.	
74-83-9	Bromomethane	39.	
75-00-3	Chloroethane	35.	
75-69-4	Trichlorofluoromethane	3.	U
107-64-1	Acrolein	10.	U
75-35-4	1,1-Dichloroethene	42.	
67-64-1	Acetone	19.	
75-15-0	Carbon disulfide	44.	
75-09-2	Methylene chloride	47.	
156-60-5	trans-1,2-Dichloroethene	43.	
107-13-1	Acrylonitrile	10.	U
75-34-3	1,1-Dichloroethane	44.	
108-05-4	Vinylacetate	10.	U
594-20-7	2,2-Dichloropropane	2.	U
156-59-2	cis-1,2-Dichloroethene	48.	
78-93-3	2-Butanone	28.	
74-97-5	Bromochloromethane	2.	U
67-66-3	Chloroform	48.	
71-55-6	1,1,1-trichloroethane	52.	
56-23-5	Carbon tetrachloride	48.	
563-58-6	1,1-Dichloropropene	2.	U
71-43-2	Benzene	50.	
107-06-2	1,2-Dichloroethane	47.	
79-01-6	Trichloroethene	41.	
78-87-5	1,2-Dichloropropane	45.	
74-95-3	Dibromomethane	2.	U
	2-Chloroethyl vinylether	2.	U
75-27-4	Bromodichloromethane	48.	
10061-01-5	cis-1,3-dichloropropene	100.	
108-88-3	Toluene	46.	
108-10-1	4-Methyl-2-pentanone	39.	
10061-02-6	trans-1,3-Dichloropropene	110.	
127-18-4	Tetrachloroethene	46.	
79-00-5	1,1,2-Trichloroethane	45.	
142-28-9	1,3-Dichloropropane	2.	U

Are there any TICs ? (Please check a box) YES [ ] NO [✓]

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ICAL CHECK

Lab Name: CRL SE ROCKFORD Contract: 5ESD-10C

Lab Code: 5SCRL Case No.: SF-1077 SAS No.: --- SDG No.: ---

Matrix: (soil/water) WATER Lab Sample ID: ICAL CHECK

Sample wt/vol: 5 (g/mL) mL Lab File ID: >AG012

Level: (low/med) LOW Date Received: 12/08/92

% Moisture: not dec.---- Date Analyzed: 12/08/92

Column: (pack/cap) CAP Dilution Factor: 1.00000

Final extract Volume: -- (uL) Conversion Factor: 1.0000

Aliquot Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
591-78-6	2-Hexanone	29.	
124-48-1	Dibromochloromethane	52.	
106-93-4	1,2-Dibromoethane	2.	U
108-90-7	Chlorobenzene	46.	
630-20-6	1,1,1,2-Tetrachloroethane	2.	U
100-41-4	Ethylbenzene	49.	
1083836423	m &/or p-Xylene	95.	
95-47-6	o-Xylene	45.	
100-42-5	Styrene	60.	
75-25-2	Bromoform	58.	
98-82-8	Isopropylbenzene	2.	U
108-86-1	Bromobenzene	2.	U
96-18-4	1,2,3-Trichloropropane	2.	U
79-34-5	1,1,2,2-Tetrachloroethane	60.	
103-65-1	n-Propylbenzene	2.	U
95-49-8	2-Chlorotoluene	2.	U
106-43-4	4-Chlorotoluene	2.	U
108-67-8	1,3,5-Trimethylbenzene	2.	U
98-06-6	tert-Butylbenzene	2.	U
95-63-6	1,2,4-Trimethylbenzene	2.	U
135-98-8	sec-Butylbenzene	2.	U
541-73-1	1,3-Dichlorobenzene	2.	U
106-46-7	1,4-Dichlorobenzene	2.	U
99-87-6	p-Isopropyltoluene	2.	U
95-50-1	1,2-Dichlorobenzene	2.	U
104-51-8	n-Butylbenzene	2.	U
96-12-8	1,2-Dibromo-3-chloropropane	2.	U
120-82-1	1,2,4-Trichlorobenzene	2.	U
91-20-3	Naphthalene	2.	U
87-68-3	Hexachlorobutadiene	2.	U
87-61-6	1,2,3-Trichlorobenzene	2.	U

FORM I-2 VOA 1/89 Rev.

Data Qualifiers: U = Compounds were analyzed but not detected. The value reported is the method detection limit for reagent water; J = Estimated; D=Diluted Sample; X = Result rejected for failing mass spectral confirmation; E = Concentration exceeded calibration range; B_ = Contaminant found in laboratory method blank; ARE THERE TICs ? (Circle) YES/NO

QUANT REPORT

Operator ID: KELLY Quant Rev: 7 Quant Time: 921222 10:18
Output File: ^AG012::D6 Injected at: 921208 17:13
Data File: >AG012::D6 Dilution Factor: 1.00000
Name: ICALCHK Instrument ID: HP MSD#1
Misc: 12/8/92 HP MS#4, 5mL PURGE

ID File: IDAG01::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921222 09:38 Last Qcal Time: <none>

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.14	96.0	50198	10.00	UG/L	98
3)	Chloromethane	2.87	50.0	21592	29.20	UG/L	89
4)	Vinyl chloride	3.14	62.0	23676	33.94	UG/L	92
5)	Bromomethane	3.94	94.0	12932	39.03	UG/L	95
6)	Chloroethane	4.27	64.0	6711	35.18	UG/L	98
9)	1,1-Dichloroethene	6.42	96.0	27847	42.23	UG/L	97
10)	Acetone	6.91	43.0	13497	18.56	UG/L	94
11)	Carbon disulfide	6.73	76.0	88828	43.71	UG/L	97
12)	Methylene chloride	7.90	84.0	16209	47.27	UG/L	82
13)	trans-1,2-Dichloroethene	8.50	96.0	27580	42.61	UG/L	93
15)	1,1-Dichloroethane	9.51	63.0	57937	43.53	UG/L	99
16)	Vinyl acetate	9.85	43.0	40062	51.53	UG/L	100
18)	cis-1,2-Dichloroethene	10.81	96.0	39344	48.27	UG/L	98
19)	2-Butanone	11.00	43.0	22694	27.98	UG/L	73
21)	Chloroform	11.58	83.0	69474	48.20	UG/L	95
22)	1,1,1-Trichloroethane	11.74	97.0	53252	52.27	UG/L	94
23)	Carbon tetrachloride	12.05	117.0	37262	48.44	UG/L	92
25)	BENZENE-D6	12.43	84.0	34438	11.63	UG/L	97
26)	Benzene	12.51	78.0	137390	50.34	UG/L	98
27)	1,2-Dichloroethane	12.64	62.0	56077	47.09	UG/L	98
28)	*TOLUENE-D8	16.27	98.0	28850	10.00	UG/L	97
29)	Trichloroethene	13.86	95.0	40048	40.95	UG/L	87
30)	1,2-Dichloropropane	14.30	63.0	44345	45.31	UG/L	97
33)	Bromodichloromethane	14.94	83.0	52288	48.24	UG/L	99
34)	cis-1,3-Dichloropropene	15.83	75.0	65654	103.58	UG/L	92
35)	Toluene	16.39	92.0	76260	46.30	UG/L	95
36)	4-Methyl-2-pentanone	16.21	43.0	46725	39.48	UG/L	87
37)	trans-1,3-Dichloropropene	16.99	75.0	47857	105.72	UG/L	99
38)	Tetrachloroethene	17.46	166.0	36377	46.21	UG/L	99
39)	1,1,2-Trichloroethane	17.32	132.0	2938	44.99	UG/L	99
41)	2-Hexanone	17.91	43.0	29721	28.83	UG/L	83
42)	Dibromochloromethane	18.07	129.0	38533	52.27	UG/L	99
44)	*CHLOROBENZENE-D5	19.18	117.0	20313	10.00	UG/L	97
45)	Chlorobenzene	19.24	112.0	83913	46.14	UG/L	92
47)	Ethylbenzene	19.52	91.0	147801	48.89	UG/L	95
48)	m &/or p-Xylene	19.78	106.0	96880	94.99	UG/L	80
49)	o-Xylene	20.59	106.0	46930	44.73	UG/L	92
50)	Styrene	20.65	104.0	84883	59.94	UG/L	93
51)	Bromoform	21.00	173.0	27372	57.51	UG/L	97
53)	p-BROMOFLUOROBENZENE	21.72	174.0	8788	9.86	UG/L	98

QUANT REPORT

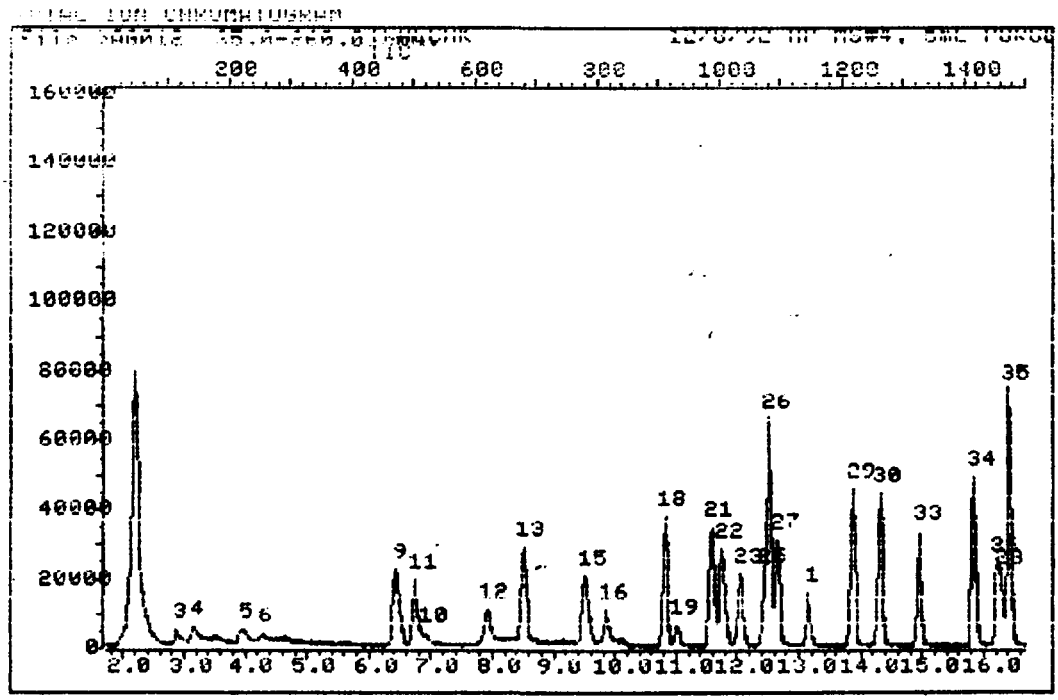
Operator ID: KELLY
Output File: ^AG012::D6
Data File: >AG012::D6
Name: ICALCHK
Misc: 12/8/92 HP MS#4, 5mL PURGE

Quant Rev: 7
Quant Time: 921222 10:18
Injected at: 921208 17:13
Dilution Factor: 1.00000
Instrument ID: HP MSD#1

ID File: IDAG01::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921222 09:38
Last Qcal Time: <none>

	Compound	R.T.	Q ion	Area	Conc	Units	q
56)	1,1,2,2-Tetrachloroethane	22.19	83.0	43682	611.28	UG/L	98
67)	1,2-DICHLOROBENZENE-D4	25.02	152.0	9134	9.88	UG/L	97

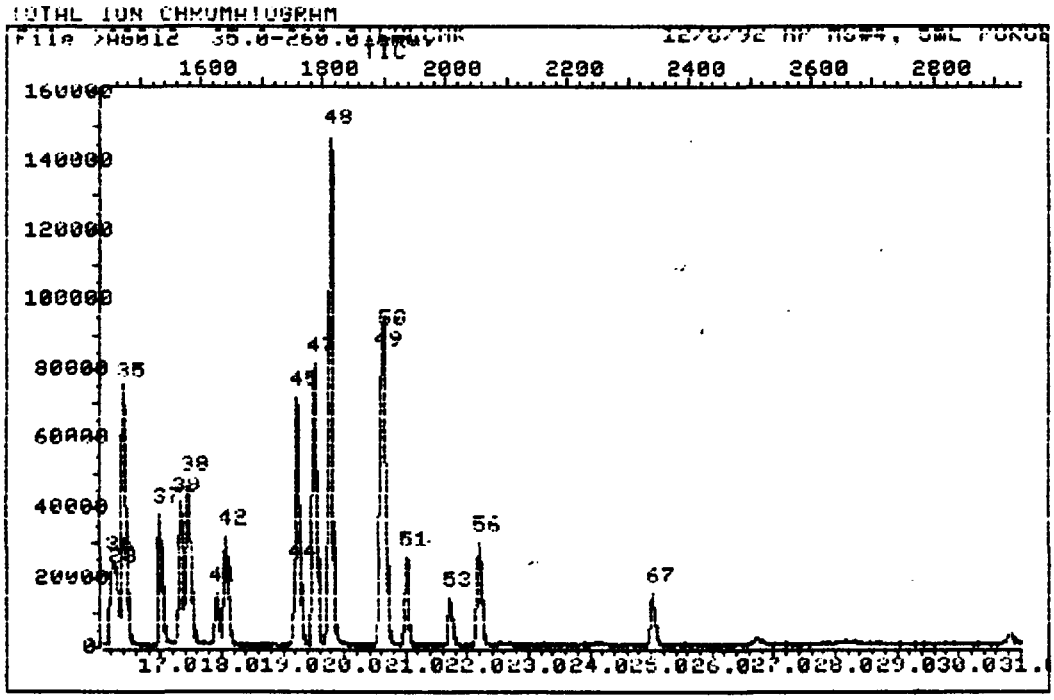
* Compound is ISTD



Data File: >AG012::D6 Quant Output File: ^AG012::D6
Name: ICALCHK Instrument ID: HP MSD#1
Misc: 12/8/92 HP MS#4, 5mL PURGE

Id File: IDAG01::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921222 09:38 Last Qcal Time: <none>

Operator ID: KELLY
Quant Time : 921222 10:18
Injected at: 921208 17:13



Data File: >AG012::D6 Quant Output File: ^AG012::D6
Name: ICALCHK Instrument ID: HP MSD#1
Misc: 12/8/92 HP MS#4, 5mL PURGE

Id File: IDAGD1::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921222 09:38 Last Qcal Time: <none>

Operator ID: KELLY
Quant Time : 921222 10:18
Injected at: 921208 17:13

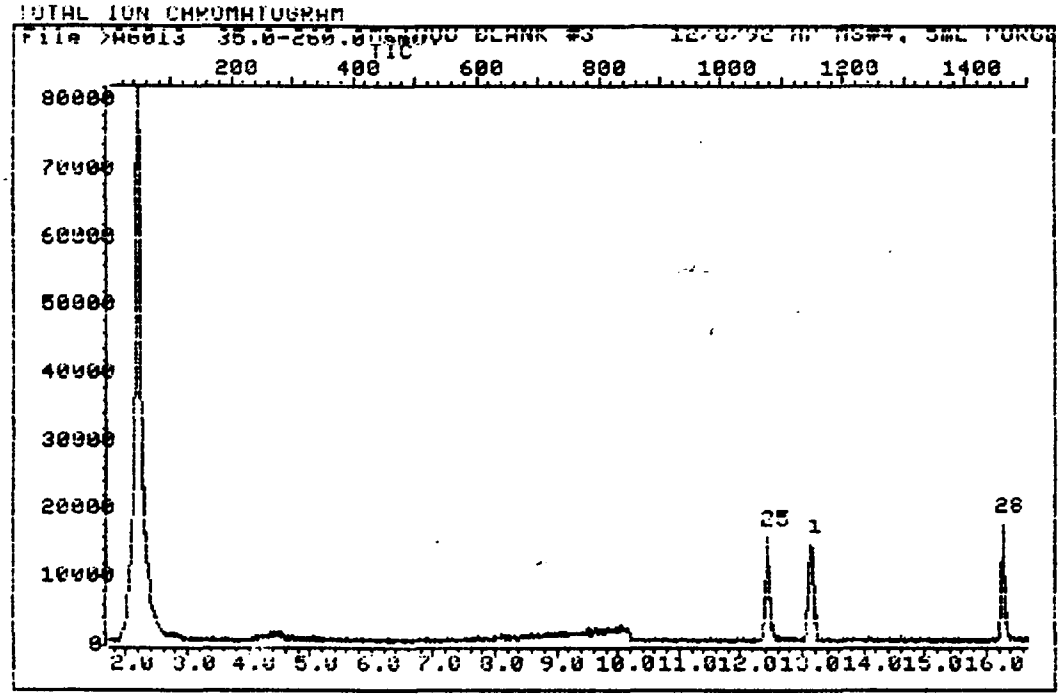
QUANT REPORT

Operator ID: KELLY Quant Rev: 2 Quant Time: 921222 10:21
Output File: ^AG013::D6 Injected at: 921208 12:52
Data File: >AG013::D6 Dilution Factor: 1.00000
Name: METHOD BLANK #3 Instrument ID: HP MSD#1
Misc: 12/8/92 HP MS#4, 5mL PURGE

ID File: IDAG01::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921222 09:38 Last Qcal Time: <none>

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.13	96.0	29279	10.00	UG/L	92
25)	BENZENE-D6	12.43	84.0	33429	11.42	UG/L	99
28)	*TOLUENE-D8	16.27	98.0	26614	10.00	UG/L	92
44)	*CHLOROBENZENE-D5	19.19	117.0	18687	10.00	UG/L	98
53)	p-BROMOFLUOROBENZENE	21.21	174.0	7221	9.48	UG/L	98
67)	1,2-DICHLOROBENZENE-D4	25.02	152.0	8117	9.54	UG/L	91

* Compound is ISTD

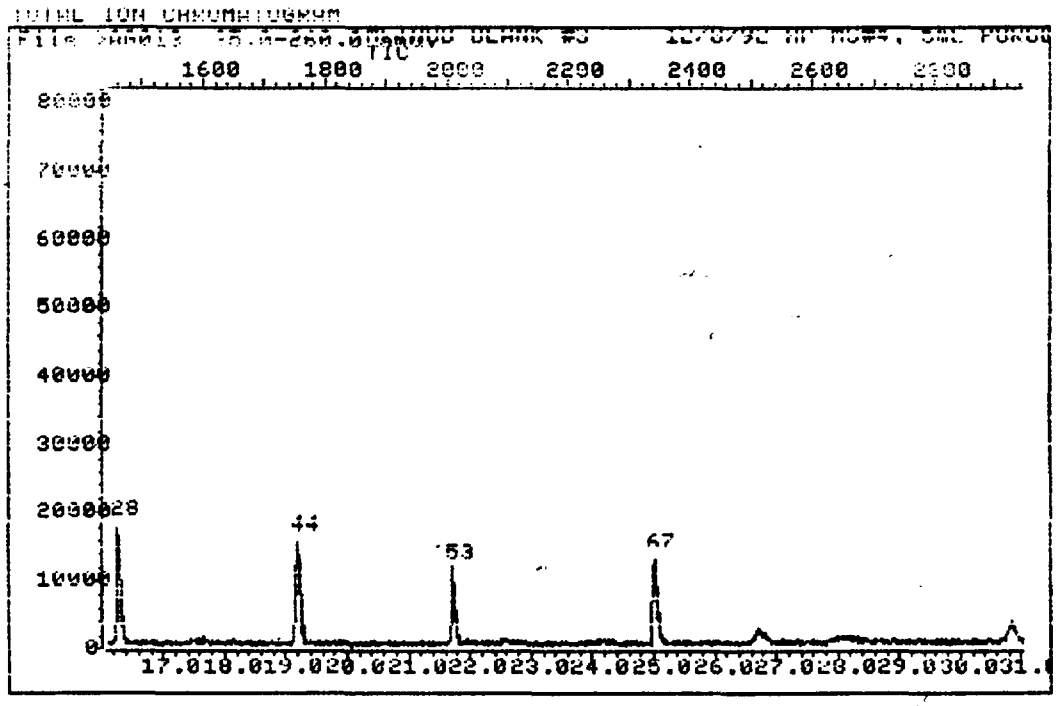


Data File: >AG013::D6 Quant Output File: ^AG013::D6
Name: METHOD BLANK #3 Instrument ID: HP MSD#1
Misc: 12/8/92 HP MS#4, 5mL PURGE

Id File: IDAG01::SC
Title: ID FILE FOR EXTENDED [illegible] METHOD [illegible] [illegible]/91 RW/AG
Last Calibration: 921222 09:18 Last Qual Time: <none>

Operator ID: KELLY
Quant Time : 921222 10:21
Injected at: 921208 17:52

Page 1 of 2



Data File: >AG013::D6 Quant Output File: ^AG013::D6
Name: METHOD BLANK #3 Instrument ID: HP MSD#1
Misc: 12/8/92 HP MS#4, 5mL PURGE

Id File: IDAG01::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921222 09:38 Last Qcal Time: <none>

Operator ID: KELLY
Quant Time : 921222 10:21
Injected at: 921208 17:52

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

120892BLK2

Lab Name: CRL SE ROCKFORD Contract: 5ESD-10C

Lab Code: 5SCRL Case No.: SF-1077 SAS No.: --- SDG No.: ---

Matrix: (soil/water) WATER Lab Sample ID: METHOD BLK#

Sample wt/vol: 5 (g/mL) mL Lab File ID: >AG011

Level: (low/med) LOW Date Received: 12/08/92

% Moisture: not dec.---- Date Analyzed: 12/08/92

Column: (pack/cap) CAP Dilution Factor: 1.00000

Final extract Volume: -- (uL) Conversion Factor: 1.0000

Aliquot Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	3.	U
74-87-3	Chloromethane	3.	U
75-01-4	Vinyl chloride	3.	U
74-83-9	Bromomethane	3.	U
75-00-3	Chloroethane	3.	U
75-69-4	Trichlorofluoromethane	3.	U
107-64-1	Acrolein	10.	U
75-35-4	1,1-Dichloroethene	2.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	2.	U
75-09-2	Methylene chloride	2.	U
156-60-5	trans-1,2-Dichloroethene	2.	U
107-13-1	Acrylonitrile	10.	U
75-34-3	1,1-Dichloroethane	2.	U
108-05-4	Vinylacetate	10.	U
594-20-7	2,2-Dichloropropane	2.	U
156-59-2	cis-1,2-Dichloroethene	2.	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	2.	U
67-66-3	Chloroform	2.	U
71-55-6	1,1,1-trichloroethane	2.	U
56-23-5	Carbon tetrachloride	2.	U
563-58-6	1,1-Dichloropropene	2.	U
71-43-2	Benzene	2.	U
107-06-2	1,2-Dichloroethane	2.	U
79-01-6	Trichloroethene	2.	U
78-87-5	1,2-Dichloropropane	2.	U
74-95-3	Dibromomethane	2.	U
	2-Chloroethyl vinylether	2.	U
75-27-4	Bromodichloromethane	2.	U
10061-01-5	cis-1,3-dichloropropene	2.	U
108-88-3	Toluene	2.	U
108-10-1	4-Methyl-2-pentanone	5.	U
10061-02-6	trans-1,3-Dichloropropene	2.	U
127-18-4	Tetrachloroethene	2.	U
79-00-5	1,1,2-Trichloroethane	2.	U
142-28-9	1,3-Dichloropropane	2.	U

Are there any TICs ? (Please check a box) YES |__| NO |✓|

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

120892BLK2

Lab Name:CRL SE ROCKFORD Contract:5ESD-10C

Lab Code: 5SCRL Case No.: SF-1077 SAS No.: --- SDG No.: ---

Matrix: (soil/water) WATER Lab Sample ID: METHOD BLK#

Sample wt/vol: 5 (g/mL) mL Lab File ID: >AG011

Level: (low/med) LOW Date Received: 12/08/92

% Moisture: not dec.---- Date Analyzed: 12/08/92

Column: (pack/cap) CAP Dilution Factor: 1.00000

Final extract Volume: -- (uL) Conversion Factor: 1.0000

Aliquot Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
591-78-6	2-Hexanone	5.	U
124-48-1	Dibromochloromethane	2.	U
106-93-4	1,2-Dibromoethane	2.	U
108-90-7	Chlorobenzene	2.	U
630-20-6	1,1,1,2-Tetrachloroethane	2.	U
100-41-4	Ethylbenzene	2.	U
1083836423	m &/or p-Xylene	2.	U
95-47-6	o-Xylene	2.	U
100-42-5	Styrene	2.	U
75-25-2	Bromoform	2.	U
98-82-8	Isopropylbenzene	2.	U
108-86-1	Bromobenzene	2.	U
96-18-4	1,2,3-Trichloropropane	2.	U
79-34-5	1,1,2,2-Tetrachloroethane	2.	U
103-65-1	n-Propylbenzene	2.	U
95-49-8	2-Chlorotoluene	2.	U
106-43-4	4-Chlorotoluene	2.	U
108-67-8	1,3,5-Trimethylbenzene	2.	U
98-06-6	tert-Butylbenzene	2.	U
95-63-6	1,2,4-Trimethylbenzene	2.	U
135-98-8	sec-Butylbenzene	2.	U
541-73-1	1,3-Dichlorobenzene	2.	U
106-46-7	1,4-Dichlorobenzene	2.	U
99-87-6	p-Isopropyltoluene	2.	U
95-50-1	1,2-Dichlorobenzene	2.	U
104-51-8	n-Butylbenzene	2.	U
96-12-8	1,2-Dibromo-3-chloropropane	2.	U
120-82-1	1,2,4-Trichlorobenzene	2.	U
91-20-3	Naphthalene	2.	U
87-68-3	Hexachlorobutadiene	2.	U
87-61-6	1,2,3-Trichlorobenzene	2.	U

FORM I-2 VOA 1/89 Rev.

Data Qualifiers: U = Compounds were analyzed but not detected. The value reported is the method detection limit for reagent water; J = Estimated; D=Diluted Sample; X = Result rejected for failing mass spectral confirmation; E = Concentration exceeded calibration range; B = Contaminant found in laboratory method blank; ARE THERE TICs ? (Circle) YES/NO

QUANT REPORT

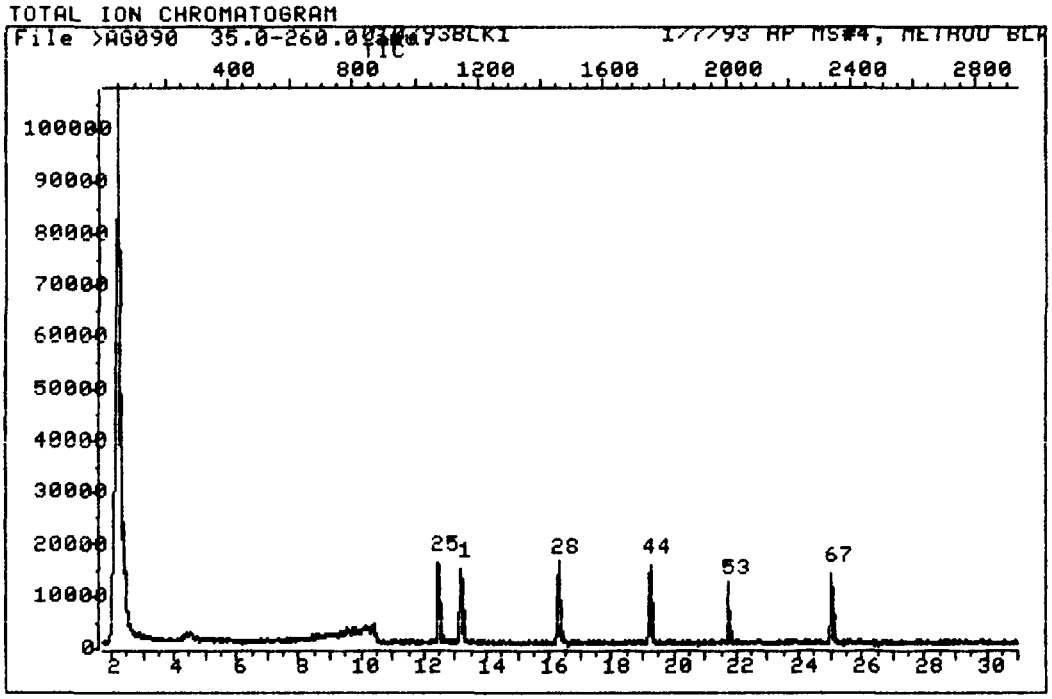
Operator ID: KELLY Quant Rev: 7 Quant Time: 930107 10:49
Output File: ^AG090::QT Injected at: 930107 10:16
Data File: >AG090::D5 Dilution Factor: 1.00000
Name: 010793BLK1 Instrument ID: HP MS#4
Misc: 1/7/93 HP MS#4, METHOD BLANK, 5mL PURGE

ID File: IDAG1F::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921223 14:04 Last Qcal Time: 930107 09:38

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.16	96.0	29008	10.00	UG/L	95
25)	BENZENE-D6	12.45	84.0	32868	10.29	UG/L	95
28)	*TOLUENE-D8	16.28	98.0	25718	10.00	UG/L	96
44)	*CHLOROBENZENE-D5	19.21	117.0	18240	10.00	UG/L	98
53)	p-BROMOFLUOROBENZENE	21.75	174.0	7618	9.71	UG/L	97
67)	1,2-DICHLOROBENZENE-D4	25.04	152.0	8350	10.27	UG/L	90

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AG090::D5 Quant Output File: ^AG090::QT
Name: 010793BLK1 Instrument ID: HP MS#4
Misc: 1/7/93 HP MS#4, METHOD BLANK, 5mL PURGE

Id File: IDAG1F::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921223 14:04 Last Qcal Time: 930107 09:38

Operator ID: KELLY
Quant Time : 930107 10:49
Injected at: 930107 10:16

QUANT REPORT

Operator ID: KELLY
Output File: ^AG092::D3
Data File: >AG092::D5
Name: SF 1077 93SV01R11
Misc: 01/07/93 SAMPLE 01/04/93

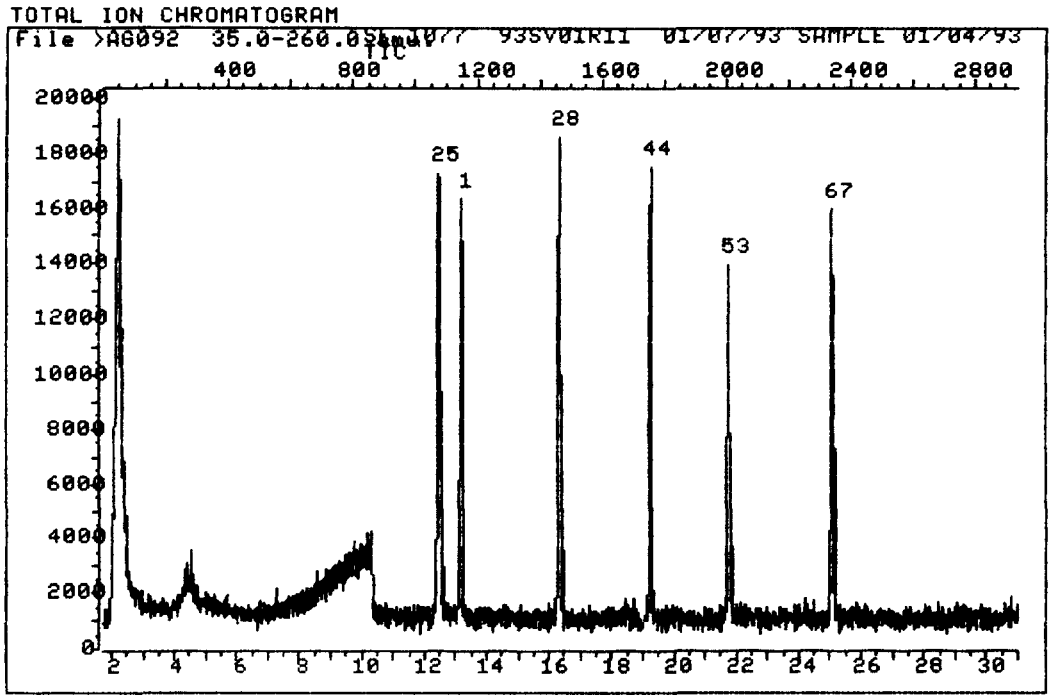
Quant Rev: 7
Quant Time: 930107 12:24
Injected at: 930107 11:51
Dilution Factor: 1.00000
Instrument ID: HP MS#4

ID File: IDAG1F::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921223 14:04
Last Qcal Time: 930107 09:38

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.16	96.0	31232	10.00	UG/L	98
25)	BENZENE-D6	12.44	84.0	35572	10.35	UG/L	96
28)	*TOLUENE-D8	16.28	98.0	28323	10.00	UG/L	92
44)	*CHLOROBENZENE-D5	19.20	117.0	20546	10.00	UG/L	95
53)	p-BROMOFLUOROBENZENE	21.72	174.0	8752	9.91	UG/L	99
67)	1,2-DICHLOROBENZENE-D4	25.03	152.0	9436	10.31	UG/L	94

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AG092::D5 Quant Output File: ^AG092::D3
Name: SF 1077 93SV01R11 Instrument ID: HP MS#4
Misc: 01/07/93 SAMPLE 01/04/93

Id File: IDAG1F::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921223 14:04 Last Qcal Time: 930107 09:38

Operator ID: KELLY
Quant Time : 930107 12:24
Injected at: 930107 11:51

QUANT REPORT

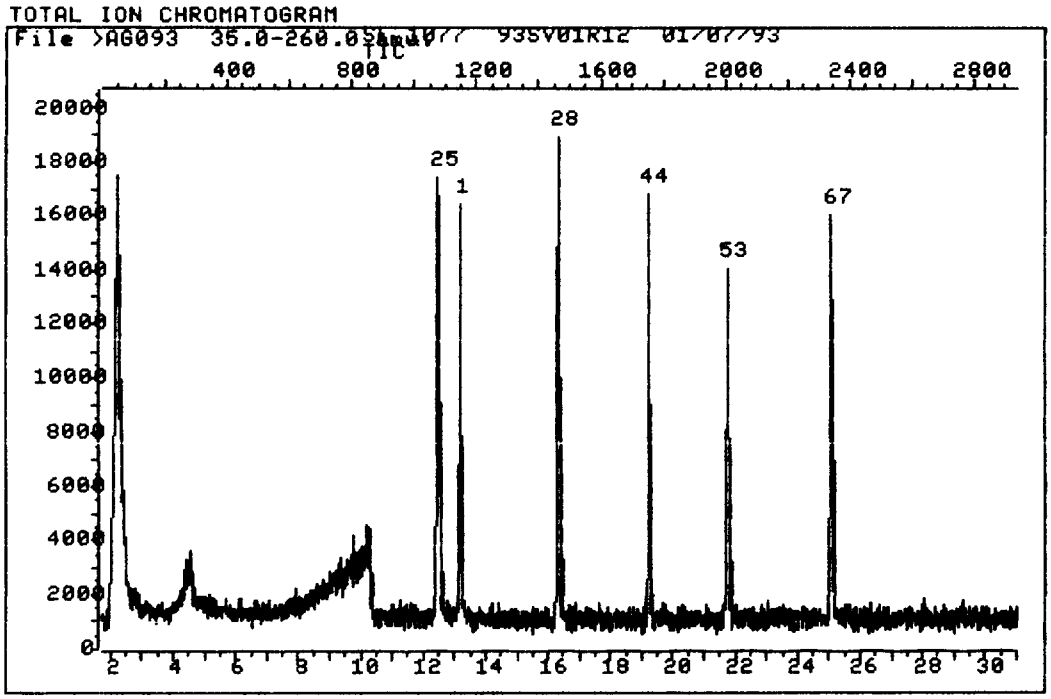
Operator ID: KELLY Quant Rev: 7 Quant Time: 930107 13:03
Output File: ^AG093::D3 Injected at: 930107 12:30
Data File: >AG093::D5 Dilution Factor: 1.00000
Name: SF 1077 93SV01R12 Instrument ID: HP MS#4
Misc: 01/07/93

ID File: IDAG1F::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921223 14:04 Last Qcal Time: 930107 09:38

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.15	96.0	31555	10.00	UG/L	98
25)	BENZENE-D6	12.44	84.0	35344	10.17	UG/L	98
28)	*TOLUENE-D8	16.28	98.0	28090	10.00	UG/L	95
44)	*CHLOROBENZENE-D5	19.18	117.0	20450	10.00	UG/L	98
53)	p-BROMOFLUOROBENZENE	21.72	174.0	8907	10.13	UG/L	97
67)	1,2-DICHLOROBENZENE-D4	25.03	152.0	9444	10.36	UG/L	99

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AG093::D5 Quant Output File: ^AG093::D3
Name: SF 1077 93SV01R12 Instrument ID: HP MS#4
Misc: 01/07/93

Id File: IDAG1F::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921223 14:04 Last Qcal Time: 930107 09:38

Operator ID: KELLY
Quant Time : 930107 13:03
Injected at: 930107 12:30

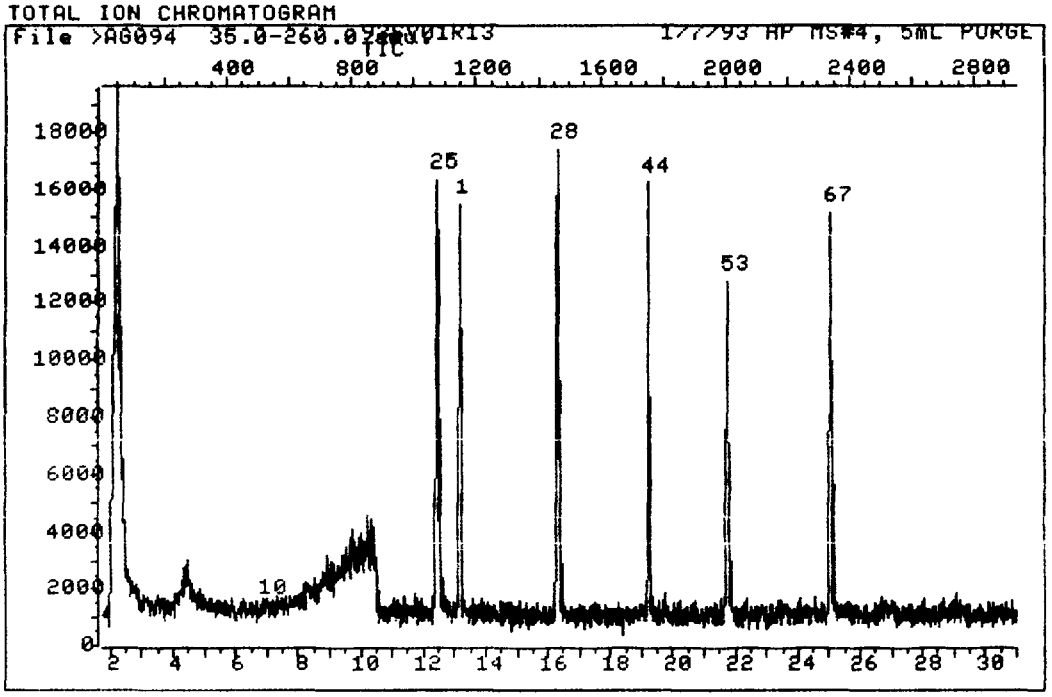
Operator ID: KELLY Quant Rev: 7 Quant Time: 930107 13:50
Output File: ^AG094::D3 Injected at: 930107 13:17
Data File: >AG094::D5 Dilution Factor: 1.00000
Name: 93SV01R13 Instrument ID: HP MS#4
Misc: 1/7/93 HP MS#4, 5mL PURGE

ID File: IDAG1F::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921223 14:04 Last Qcal Time: 930107 09:38

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.14	96.0	29975	10.00	UG/L	97
10)	Acetone	6.96	43.0	2086	3.48	UG/L	78
25)	BENZENE-D6	12.44	84.0	33115	10.04	UG/L	99
28)	*TOLUENE-D8	16.27	98.0	26787	10.00	UG/L	93
44)	*CHLOROBENZENE-D5	19.19	117.0	19680	10.00	UG/L	98
53)	p-BROMOFLUOROBENZENE	21.73	174.0	8614	10.18	UG/L	99
67)	1,2-DICHLOROBENZENE-D4	25.03	152.0	9450	10.78	UG/L	97

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AG094::D5 Quant Output File: ^AG094::D3
Name: 93SV01R13 Instrument ID: HP MS#4
Misc: 1/7/93 HP MS#4, 5mL PURGE

Id File: IDAG1F::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921223 14:04 Last Qcal Time: 930107 09:38

Operator ID: KELLY
Quant Time : 930107 13:50
Injected at: 930107 13:17

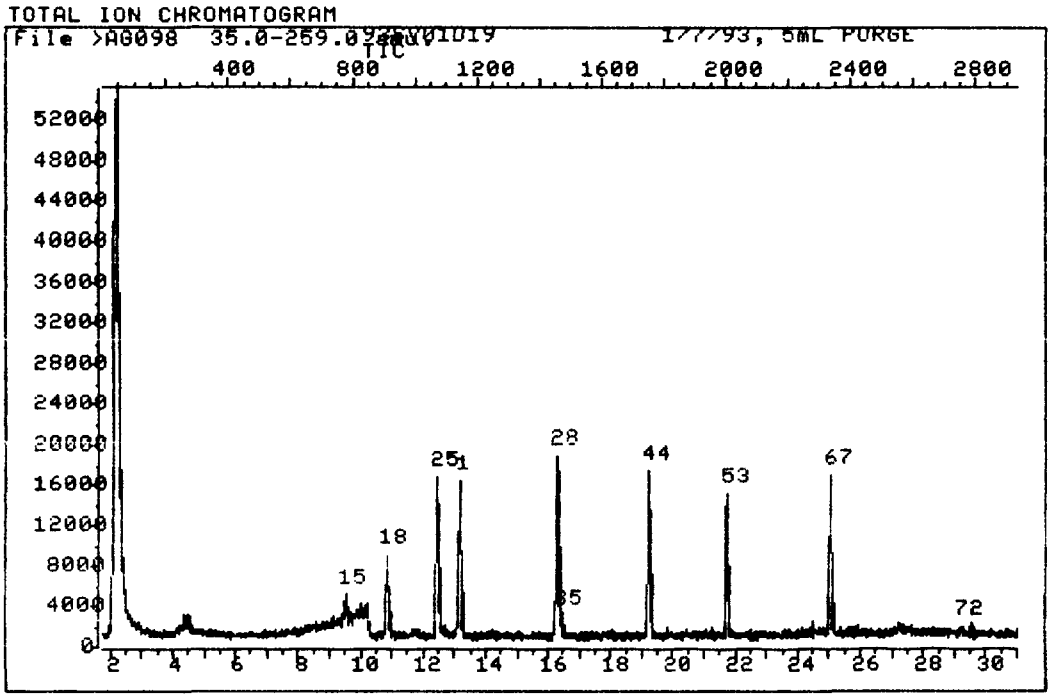
Operator ID: KELLY Quant Rev: 7 Quant Time: 930108 15:44
Output File: ^AG098::D3 Injected at: 930107 15:53
Data File: >AG098::D4 Dilution Factor: 1.00000
Name: 93SV01D19 Instrument ID: HP MS#4
Misc: 1/7/93, 5mL PURGE

ID File: IDAG1F::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921223 14:04 Last Qcal Time: 930107 09:38

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.14	96.0	32357	10.00	UG/L	94
15)	1,1-Dichloroethane	9.51	63.0	7551	5.16	UG/L	99
18)	cis-1,2-Dichloroethene	10.81	96.0	9028	9.03	UG/L	91
25)	BENZENE-D6	12.44	84.0	35574	9.99	UG/L	95
28)	*TOLUENE-D8	16.28	98.0	28799	10.00	UG/L	93
35)	Toluene	16.40	92.0	1888	1.06	UG/L	95
44)	*CHLOROBENZENE-D5	19.19	117.0	21399	10.00	UG/L	93
53)	p-BROMOFLUOROBENZENE	21.72	174.0	9814	10.67	UG/L	97
67)	1,2-DICHLOROBENZENE-D4	25.02	152.0	10468	10.98	UG/L	92
72)	Naphthalene	29.20	128.0	1796	1.27	UG/L	100

* Compound is ISTD

TOTAL ION CHROMATOGRAM

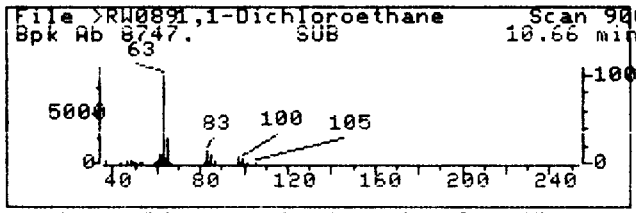


Data File: >AG098::D4 Quant Output File: ^AG098::D3
Name: 93SV01D19 Instrument ID: HP MS#4
Misc: 1/7/93, 5mL PURGE

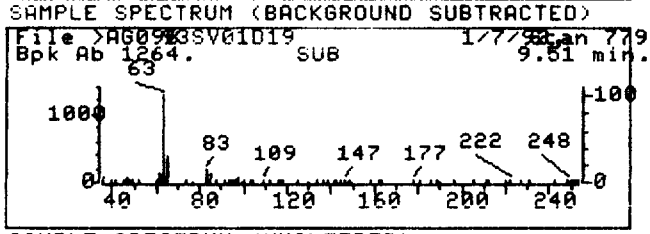
Id File: IDAG1F::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921223 14:04 Last Qcal Time: 930107 09:38

Operator ID: KELLY
Quant Time : 930108 15:44
Injected at: 930107 15:53

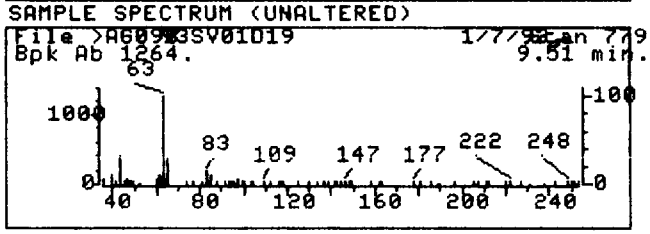
REFERENCE STANDARD SPECTRUM

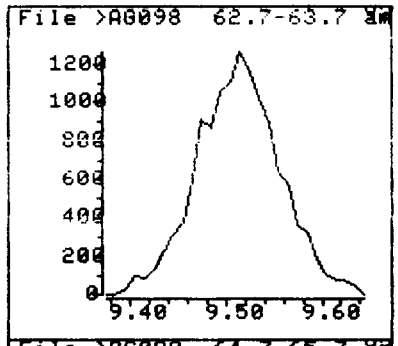


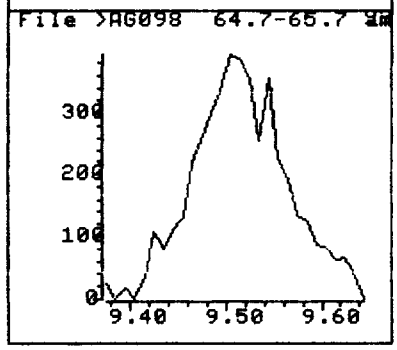
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)





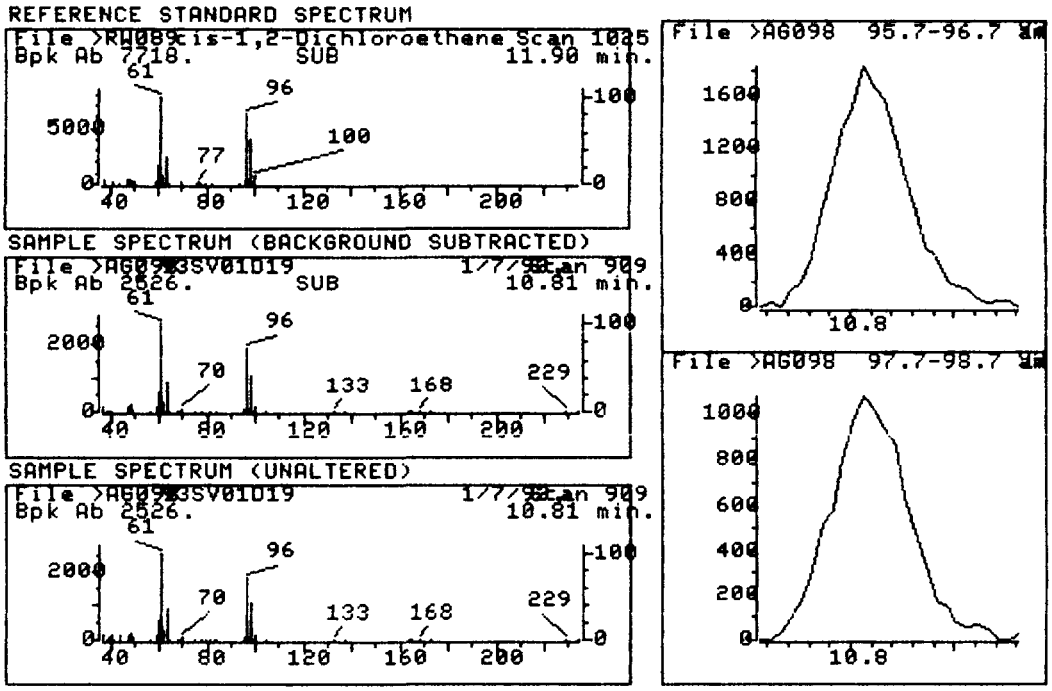


Data File: >AG098::D4
Name: 93SV01D19
Misc: 1/7/93, 5mL PURGE
Quant Time: 930108 15:44
Injected at: 930107 15:53
Last Qcal Time: 930107 09:38

Quant Output File: ^AG098::D3
Instrument ID: HP MS#4

Quant ID File: IDAG1F::SC
Last Calibration: 921223 14:04

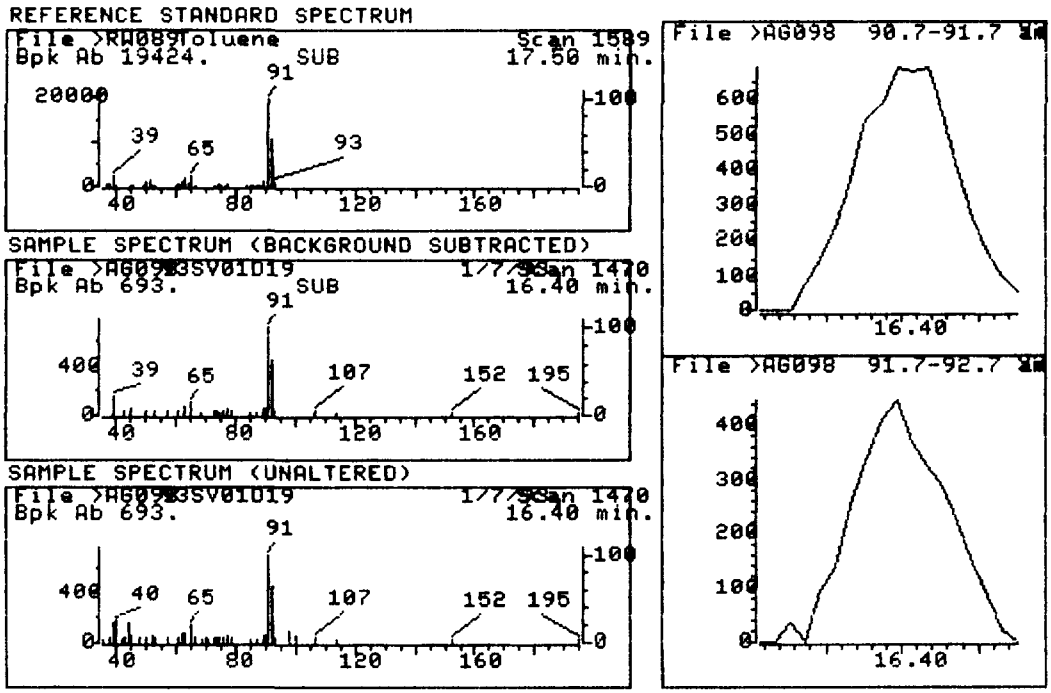
Compound No : 15
Compound Name : 1,1-Dichloroethane
Scan Number : 779
Retention Time: 9.51 min.
Quant Ion : 63.0
Area : 7551
Concentration : 5.16 UG/L
q-value : 99



Data File: >AG098::D4
Name: 93SV01D19
Misc: 1/7/93, 5mL PURGE
Quant Time: 930108 15:44
Injected at: 930107 15:53
Last Qcal Time: 930107 09:38

Quant Output File: ^AG098::D3
Instrument ID: HP MS#4
Quant ID File: IDAG1F::SC
Last Calibration: 921223 14:04

Compound No : 18
Compound Name : cis-1,2-Dichloroethene
Scan Number : 909
Retention Time: 10.81 min.
Quant Ion : 96.0
Area : 9028
Concentration : 9.03 UG/L
q-value : 91

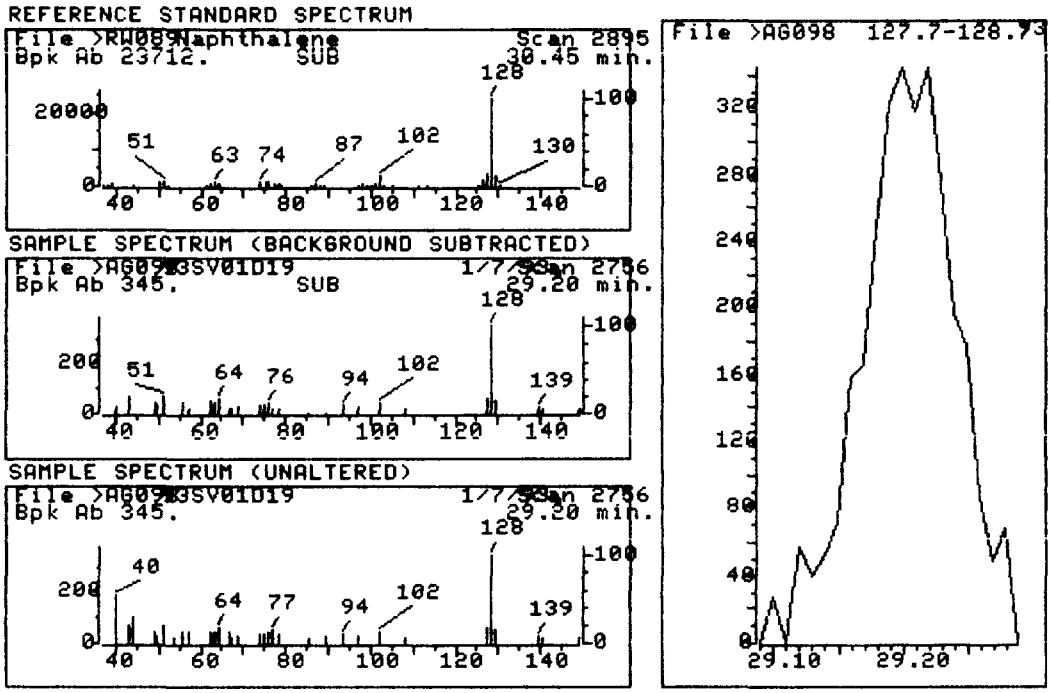


Data File: >AG098::D4
Name: 93SV01D19
Misc: 1/7/93, 5mL PURGE
Quant Time: 930108 15:44
Injected at: 930107 15:53
Last Qcal Time: 930107 09:38

Quant Output File: ^AG098::D3
Instrument ID: HP MS#4

Quant ID File: IDAG1F::SC
Last Calibration: 921223 14:04

Compound No : 35
Compound Name : Toluene
Scan Number : 1470
Retention Time: 16.40 min.
Quant Ion : 92.0
Area : 1888
Concentration : 1.06 UG/L
q-value : 95



Data File: >AG098::D4
Name: 93SV01D19
Misc: 1/7/93, 5mL PURGE
Quant Time: 930108 15:44
Injected at: 930107 15:53
Last Qcal Time: 930107 09:38

Quant Output File: ^AG098::D3
Instrument ID: HP MS#4

Quant ID File: IDAG1F::SC
Last Calibration: 921223 14:04

Compound No : 72
Compound Name : Naphthalene
Scan Number : 2756
Retention Time: 29.20 min.
Quant Ion : 128.0
Area : 1796
Concentration : 1.27 UG/L
q-value : 100

QUANT REPORT

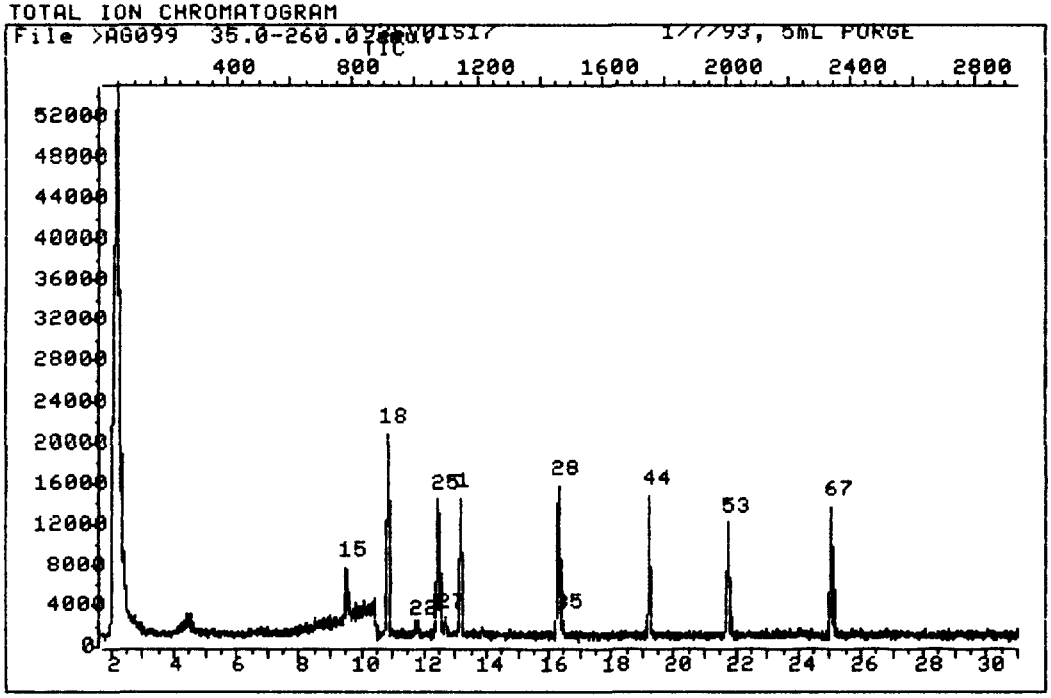
Operator ID: KELLY
Quant Rev: 7
Quant Time: 930107 17:05
Output File: ^AG099::D3
Injected at: 930107 16:32
Data File: >AG099::D5
Dilution Factor: 1.00000
Name: 93SV01S17
Instrument ID: HP MS#4
Misc: 1/7/93, 5mL PURGE

ID File: IDAG1F::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921223 14:04
Last Qcal Time: 930107 09:38

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.14	96.0	27361	10.00	UG/L	94
15)	1,1-Dichloroethane	9.50	63.0	16678	13.47	UG/L	99
18)	cis-1,2-Dichloroethene	10.81	96.0	20780	24.57	UG/L	95
22)	1,1,1-Trichloroethane	11.74	97.0	2356	2.26	UG/L	84
25)	BENZENE-D6	12.43	84.0	29770	9.88	UG/L	99
27)	1,2-Dichloroethane	12.64	62.0	2677	2.12	UG/L	77
28)	*TOLUENE-D8	16.27	98.0	23747	10.00	UG/L	89
35)	Toluene	16.39	92.0	1087	.743	UG/L	93
44)	*CHLOROBENZENE-D5	19.19	117.0	17314	10.00	UG/L	94
53)	p-BROMOFLUOROBENZENE	21.73	174.0	7847	10.54	UG/L	89
67)	1,2-DICHLOROBENZENE-D4	25.02	152.0	8188	10.61	UG/L	97

* Compound is ISTD

TOTAL ION CHROMATOGRAM

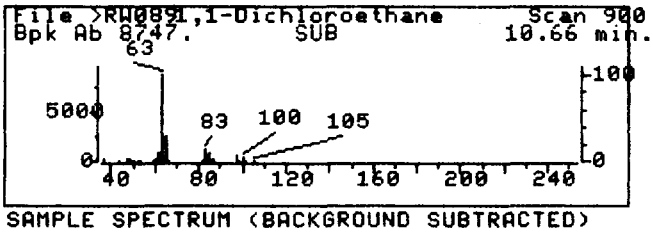


Data File: >AG099::D5 Quant Output File: ^AG099::D3
Name: 93SV01S17 Instrument ID: HP MS#4
Misc: 1/7/93, 5mL PURGE

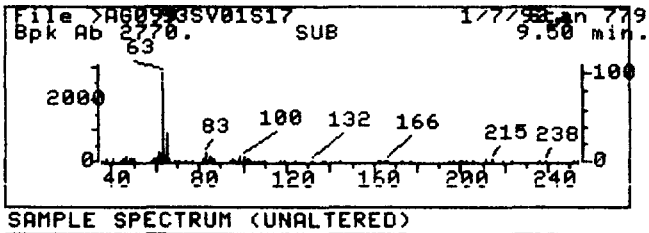
Id File: IDAG1F::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921223 14:04 Last Qcal Time: 930107 09:38

Operator ID: KELLY
Quant Time : 930107 17:05
Injected at: 930107 16:32

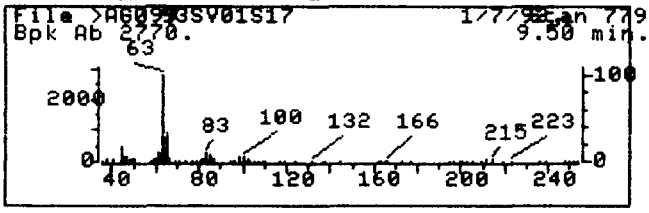
REFERENCE STANDARD SPECTRUM

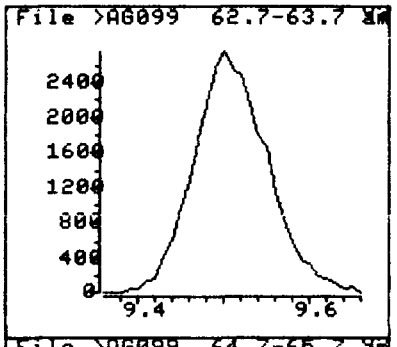


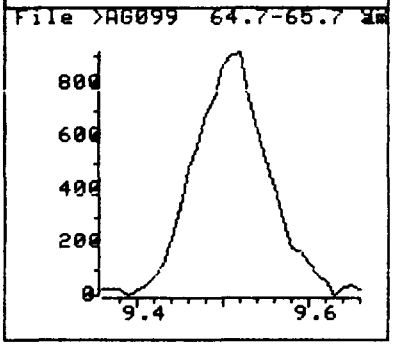
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)





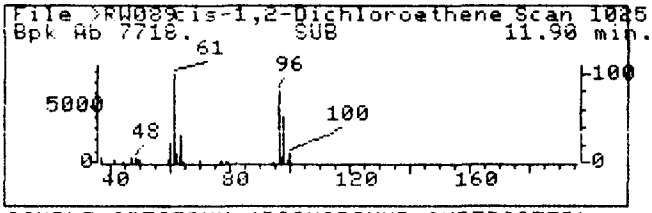


Data File: >AG099::D5
Name: 93SV01S17
Misc: 1/7/93, 5mL PURGE
Quant Time: 930107 17:05
Injected at: 930107 16:32
Last Qcal Time: 930107 09:38

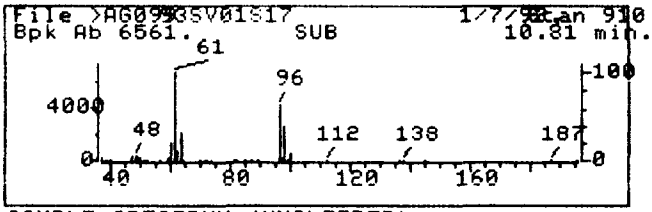
Quant Output File: ^AG099::D3
Instrument ID: HP MS#4
Quant ID File: IDAG1F::SC
Last Calibration: 921223 14:04

Compound No : 15
Compound Name : 1,1-Dichloroethane
Scan Number : 779
Retention Time: 9.50 min.
Quant Ion : 63.0
Area : 16678
Concentration : 13.47 UG/L
q-value : 99

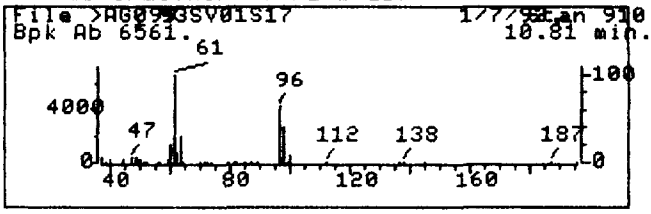
REFERENCE STANDARD SPECTRUM

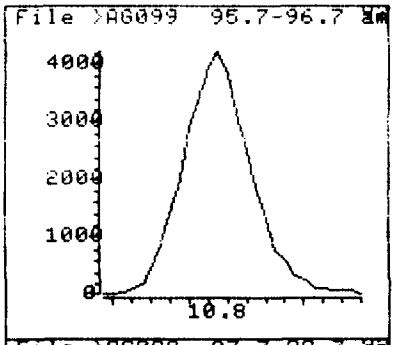


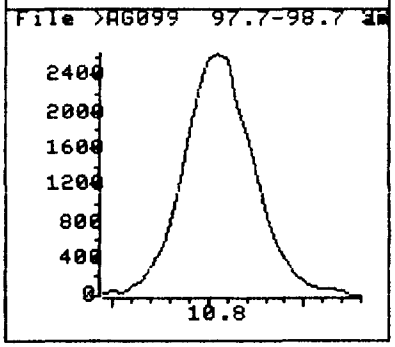
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)





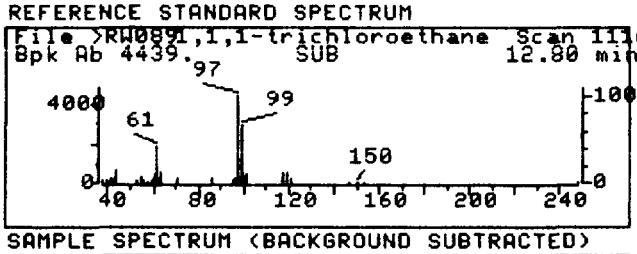


Data File: >AG099::D5
Name: 93SV01S17
Misc: 1/7/93, 5mL PURGE
Quant Time: 930107 17:05
Injected at: 930107 16:32
Last Qcal Time: 930107 09:38

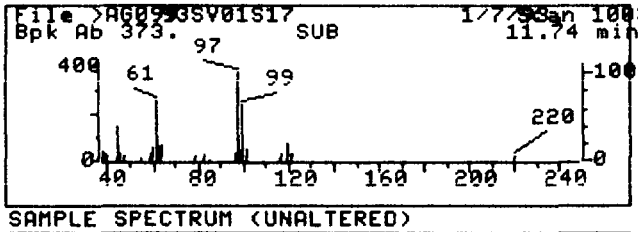
Quant Output File: ^AG099::D3
Instrument ID: HP MS#4
Quant ID File: IDAG1F::SC
Last Calibration: 921223 14:04

Compound No : 18
Compound Name : cis-1,2-Dichloroethene
Scan Number : 910
Retention Time: 10.81 min.
Quant Ion : 96.0
Area : 20780
Concentration : 24.57 UG/L
q-value : 95

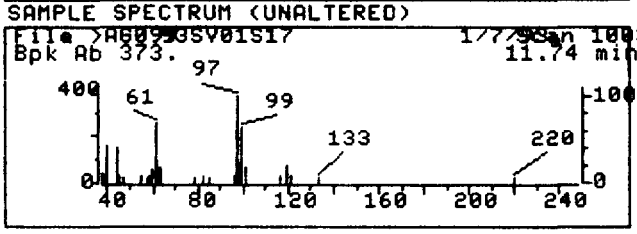
REFERENCE STANDARD SPECTRUM

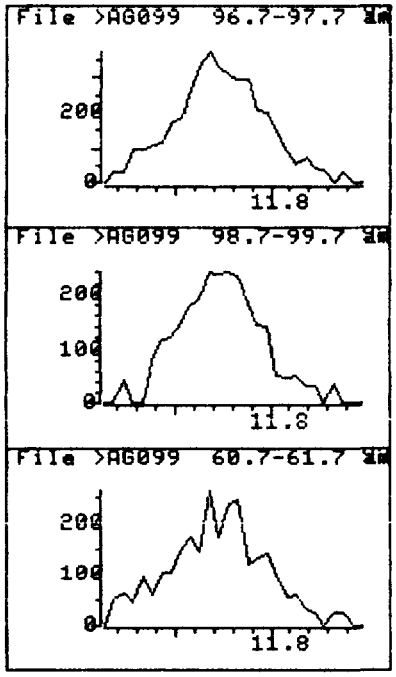


SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)





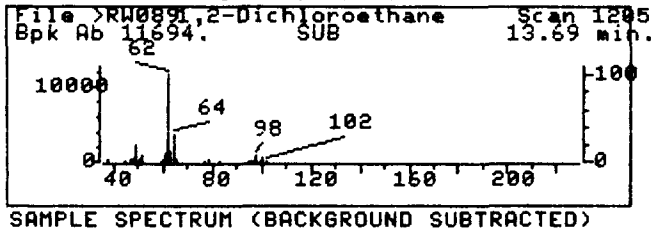
Data File: >AG099::D5
Name: 93SV01S17
Misc: 1/7/93, 5mL PURGE
Quant Time: 930107 17:05
Injected at: 930107 16:32
Last Qcal Time: 930107 09:38

Quant Output File: ^AG099::D3
Instrument ID: HP MS#4

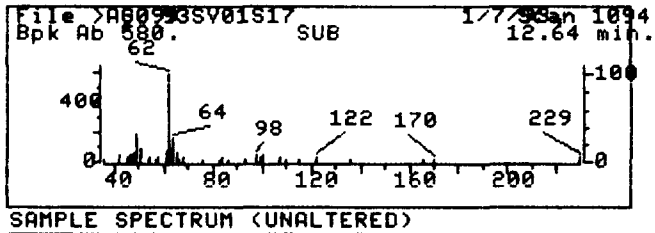
Quant ID File: IDAG1F::SC
Last Calibration: 921223 14:04

Compound No : 22
Compound Name : 1,1,1-Trichloroethane
Scan Number : 1003
Retention Time: 11.74 min.
Quant Ion : 97.0
Area : 2356
Concentration : 2.26 UG/L
q-value : 84

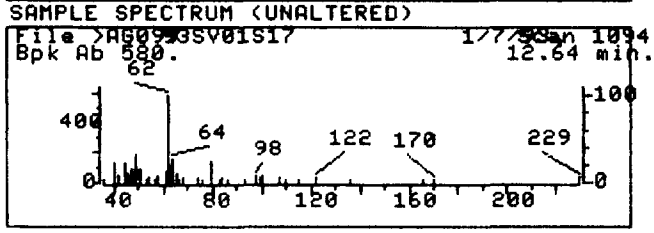
REFERENCE STANDARD SPECTRUM

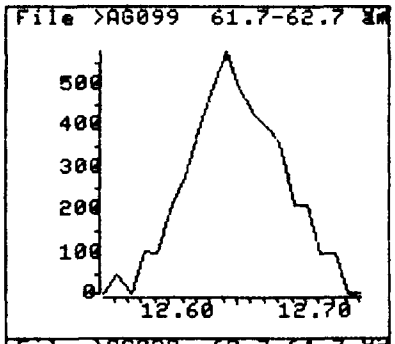


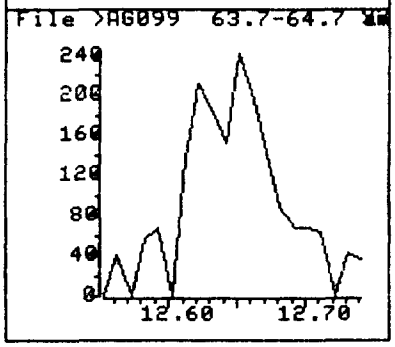
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







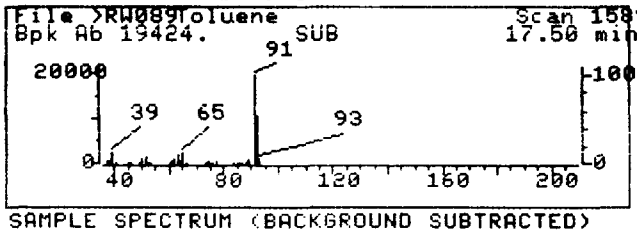
Data File: >AG099::D5
Name: 93SV01S17
Misc: 1/7/93, 5mL PURGE
Quant Time: 930107 17:05
Injected at: 930107 16:32
Last Qcal Time: 930107 09:38

Quant Output File: ^AG099::D3
Instrument ID: HP MS#4

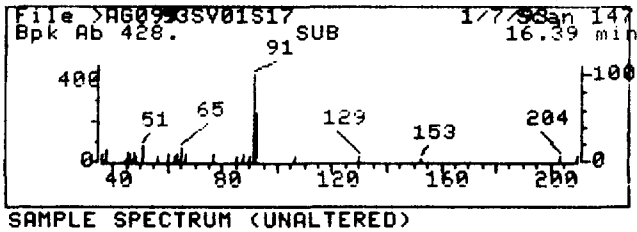
Quant ID File: IDAG1F::SC
Last Calibration: 921223 14:04

Compound No : 27
Compound Name : 1,2-Dichloroethane
Scan Number : 1094
Retention Time: 12.64 min.
Quant Ion : 62.0
Area : 2677
Concentration : 2.12 UG/L
q-value : 77

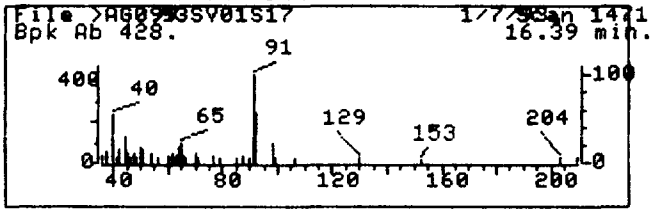
REFERENCE STANDARD SPECTRUM

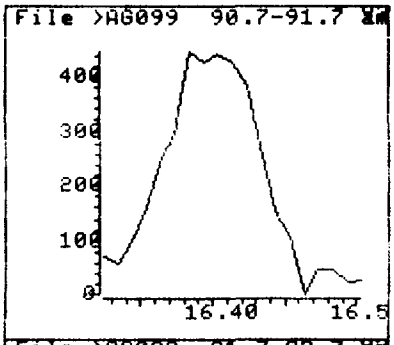


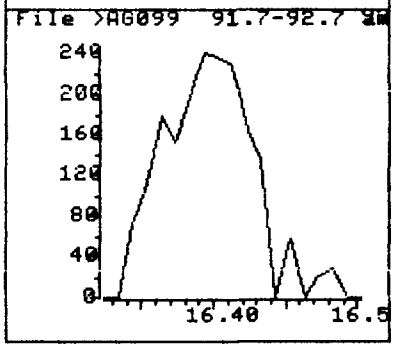
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







Data File: >AG099::D5
Name: 93SV01S17
Misc: 1/7/93, 5mL PURGE
Quant Time: 930107 17:05
Injected at: 930107 16:32
Last Qcal Time: 930107 09:38

Quant Output File: ^AG099::D3
Instrument ID: HP MS#4

Quant ID File: IDAG1F::SC
Last Calibration: 921223 14:04

Compound No : 35
Compound Name : Toluene
Scan Number : 1471
Retention Time: 16.39 min.
Quant Ion : 92.0
Area : 1087
Concentration : .743 UG/L
q-value : 93

QUANT REPORT

Operator ID: KELLY
Output File: ^AG100::D3
Data File: >AG100::D5
Name: 93SV01S18
Misc: 1/7/93, 5mL PURGE

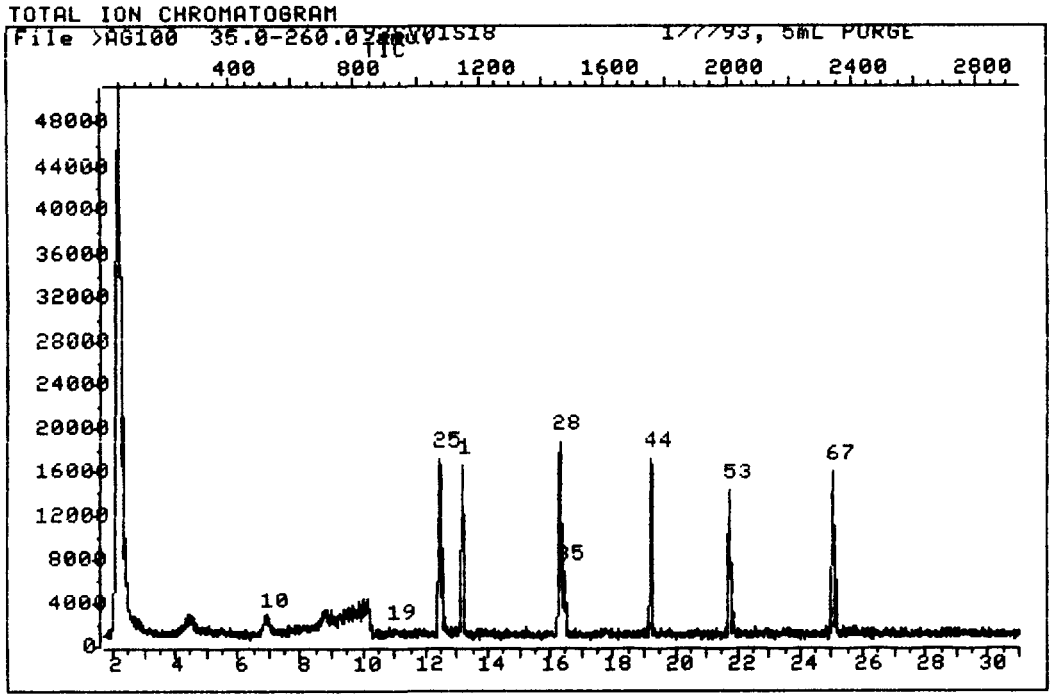
Quant Rev: 7
Quant Time: 930107 17:45
Injected at: 930107 17:12
Dilution Factor: 1.00000
Instrument ID: HP MS#4

ID File: IDAG1F::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921223 14:04
Last Qcal Time: 930107 09:38

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.14	96.0	33184	10.00	UG/L	98
10)	Acetone	6.93	43.0	9619	14.50	UG/L	92
19)	2-Butanone	11.02	43.0	1558	2.14	UG/L	93
25)	BENZENE-D6	12.43	84.0	36450	9.98	UG/L	98
28)	*TOLUENE-D8	16.27	98.0	28770	10.00	UG/L	91
35)	Toluene	16.40	92.0	5584	3.15	UG/L	97
44)	*CHLOROBENZENE-D5	19.19	117.0	21311	10.00	UG/L	96
53)	p-BROMOFLUOROBENZENE	21.72	174.0	9328	10.18	UG/L	95
67)	1,2-DICHLOROBENZENE-D4	25.02	152.0	10127	10.66	UG/L	97

* Compound is ISTD

TOTAL ION CHROMATOGRAM

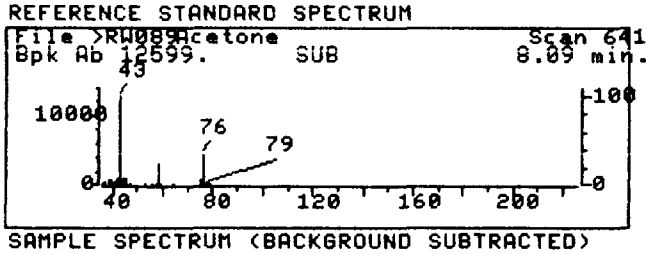


Data File: >AG100::D5 Quant Output File: ^AG100::D3
Name: 93SV01S18 Instrument ID: HP MS#4
Misc: 1/7/93, 5mL PURGE

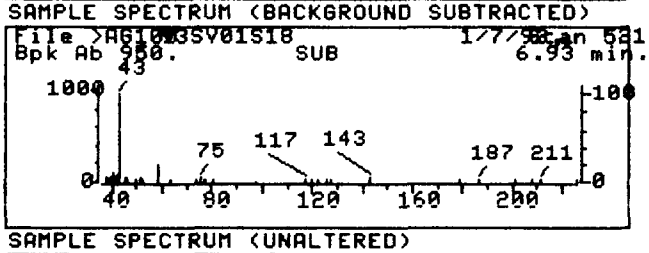
Id File: IDAG1F::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921223 14:04 Last Qcal Time: 930107 09:38

Operator ID: KELLY
Quant Time : 930107 17:45
Injected at: 930107 17:12

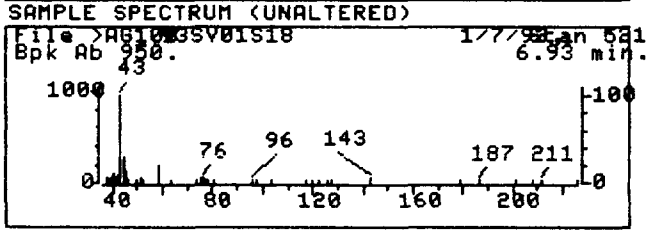
REFERENCE STANDARD SPECTRUM

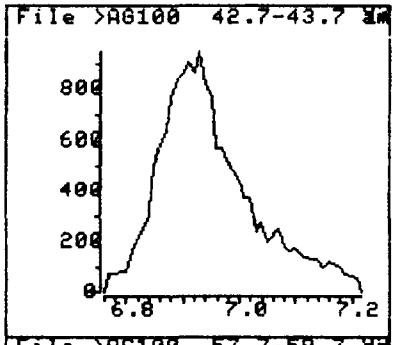


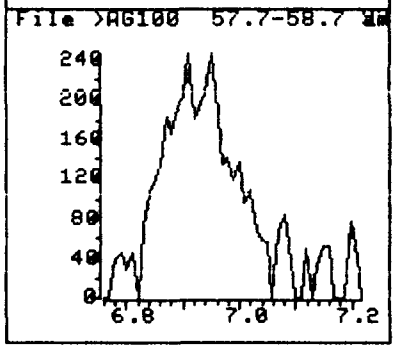
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







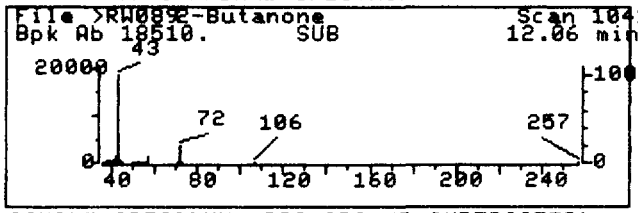
Data File: >AG100::D5
Name: 93SV01S18
Misc: 1/7/93, 5mL PURGE
Quant Time: 930107 17:45
Injected at: 930107 17:12
Last Qcal Time: 930107 09:38

Quant Output File: ^AG100::D3
Instrument ID: HP MS#4

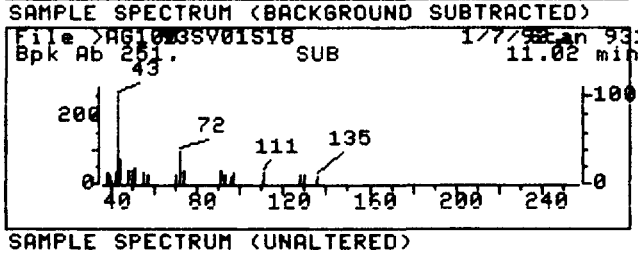
Quant ID File: IDAG1F::SC
Last Calibration: 921223 14:04

Compound No : 10
Compound Name : Acetone
Scan Number : 521
Retention Time: 6.93 min.
Quant Ion : 43.0
Area : 9619
Concentration : 14.50 UG/L
q-value : 92

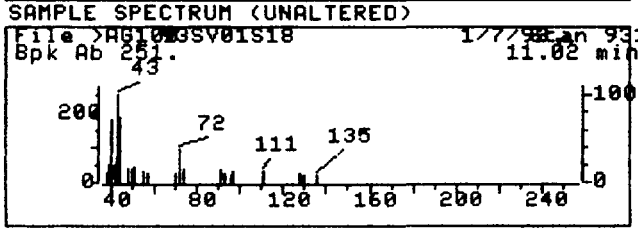
REFERENCE STANDARD SPECTRUM

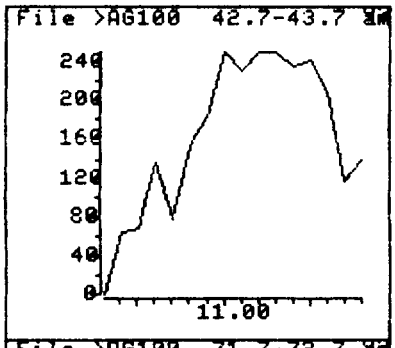


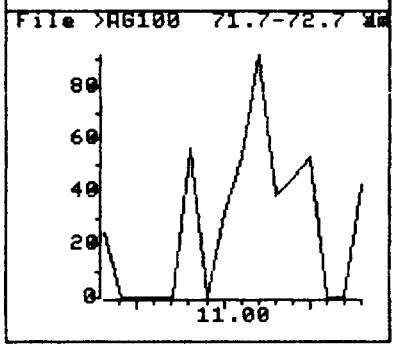
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







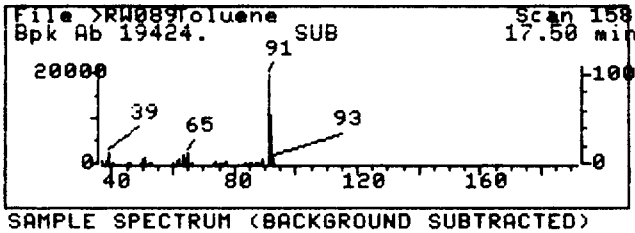
Data File: >AG100::D5
Name: 93SV01S18
Misc: 1/7/93, 5mL PURGE
Quant Time: 930107 17:45
Injected at: 930107 17:12
Last Qcal Time: 930107 09:38

Quant Output File: ^AG100::D3
Instrument ID: HP MS#4

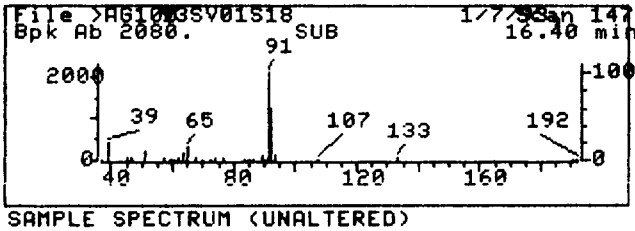
Quant ID File: IDAG1F::SC
Last Calibration: 921223 14:04

Compound No : 19
Compound Name : 2-Butanone
Scan Number : 931
Retention Time: 11.02 min.
Quant Ion : 43.0
Area : 1558
Concentration : 2.14 UG/L
q-value : 93

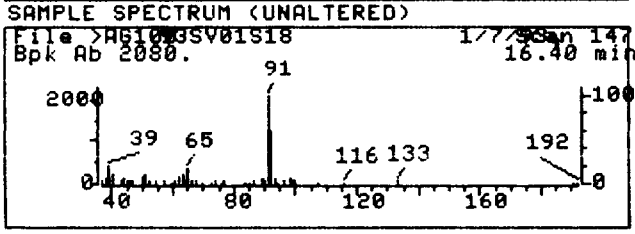
REFERENCE STANDARD SPECTRUM

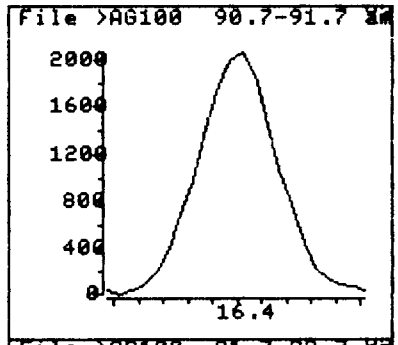


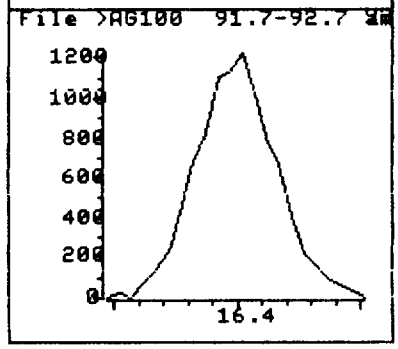
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







Data File: >AG100::D5
Name: 93SV01S18
Misc: 1/7/93, 5mL PURGE
Quant Time: 930107 17:45
Injected at: 930107 17:12
Last Qcal Time: 930107 09:38

Quant Output File: ^AG100::D3
Instrument ID: HP MS#4

Quant ID File: IDAG1F::SC
Last Calibration: 921223 14:04

Compound No : 35
Compound Name : Toluene
Scan Number : 1472
Retention Time: 16.40 min.
Quant Ion : 92.0
Area : 5584
Concentration : 3.15 UG/L
q-value : 97

QUANT REPORT

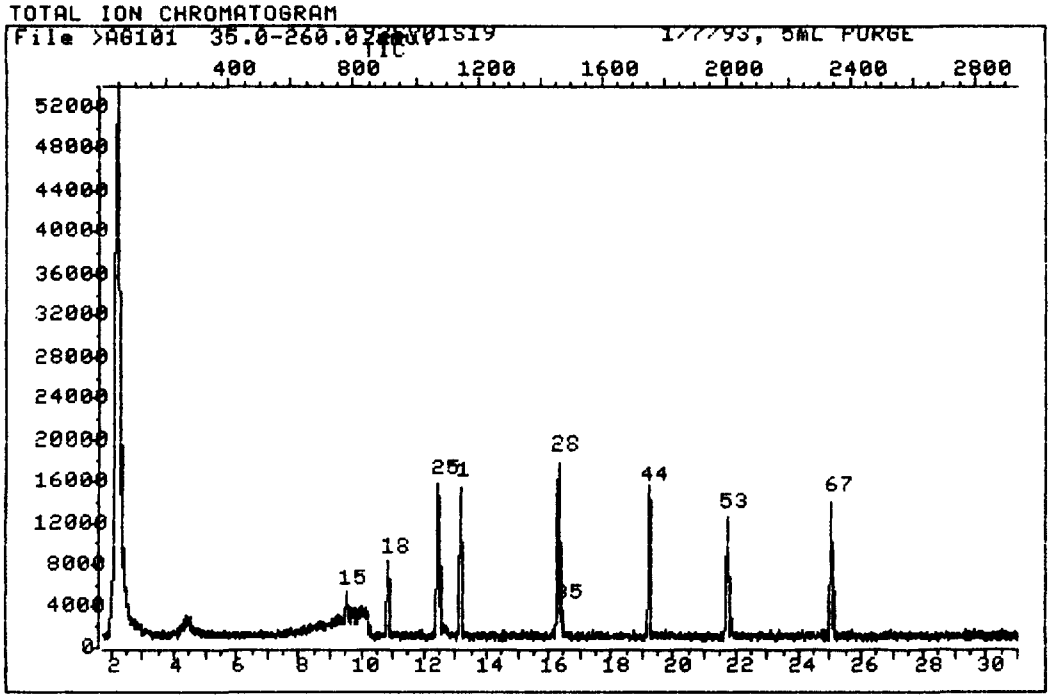
Operator ID: KELLY Quant Rev: 7 Quant Time: 930107 18:24
Output File: ^AG101::D3 Injected at: 930107 17:51
Data File: >AG101::D5 Dilution Factor: 1.00000
Name: 93SV01S19 Instrument ID: HP MS#4
Misc: 1/7/93, 5mL PURGE

ID File: IDAG1F::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921223 14:04 Last Qcal Time: 930107 09:38

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.14	96.0	29730	10.00	UG/L	96
15)	1,1-Dichloroethane	9.52	63.0	6799	5.05	UG/L	99
18)	cis-1,2-Dichloroethene	10.82	96.0	7683	8.36	UG/L	91
25)	BENZENE-D6	12.45	84.0	32489	9.93	UG/L	96
28)	*TOLUENE-D8	16.28	98.0	25805	10.00	UG/L	93
35)	Toluene	16.40	92.0	1962	1.23	UG/L	94
44)	*CHLOROBENZENE-D5	19.18	117.0	18682	10.00	UG/L	99
53)	p-BROMOFLUOROBENZENE	21.72	174.0	8146	10.14	UG/L	99
67)	1,2-DICHLOROBENZENE-D4	25.03	152.0	8793	10.56	UG/L	87

* Compound is ISTD

TOTAL ION CHROMATOGRAM

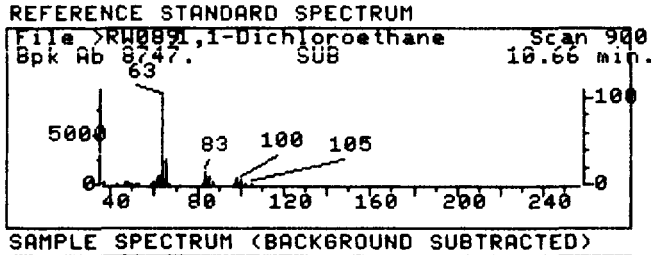


Data File: >AG101::D5 Quant Output File: ^AG101::D3
Name: 93SV01S19 Instrument ID: HP MS#4
Misc: 1/7/93, 5mL PURGE

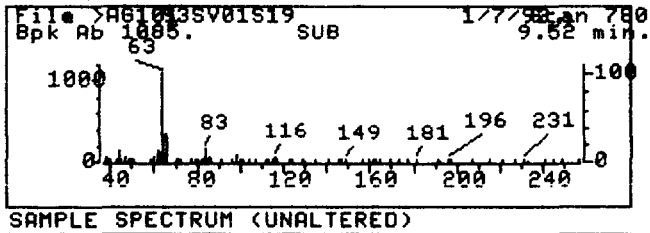
Id File: IDAG1F::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921223 14:04 Last Qcal Time: 930107 09:38

Operator ID: KELLY
Quant Time : 930107 18:24
Injected at: 930107 17:51

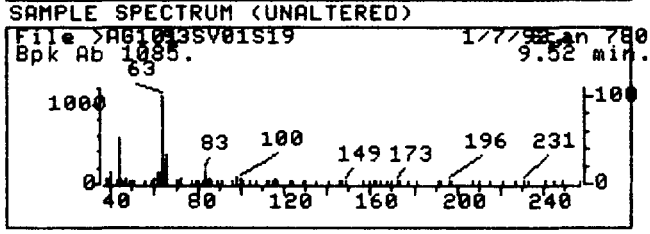
REFERENCE STANDARD SPECTRUM

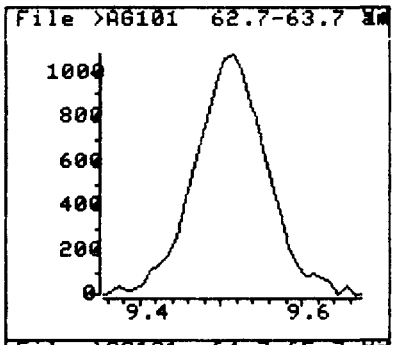


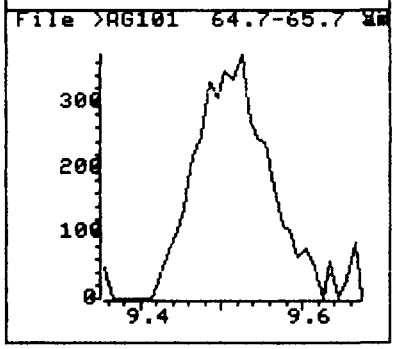
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







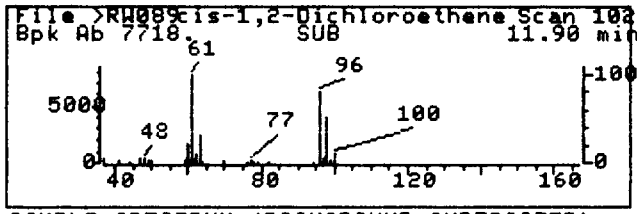
Data File: >AG101::D5
Name: 93SV01S19
Misc: 1/7/93, 5mL PURGE
Quant Time: 930107 18:24
Injected at: 930107 17:51
Last Qcal Time: 930107 09:38

Quant Output File: ^AG101::D3
Instrument ID: HP MS#4

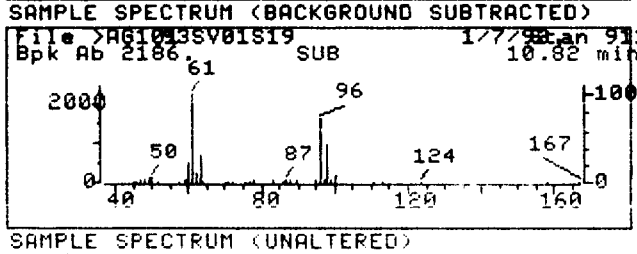
Quant ID File: IDAG1F::SC
Last Calibration: 921223 14:04

Compound No : 15
Compound Name : 1,1-Dichloroethane
Scan Number : 780
Retention Time: 9.52 min.
Quant Ion : 63.0
Area : 6799
Concentration : 5.05 UG/L
q-value : 99

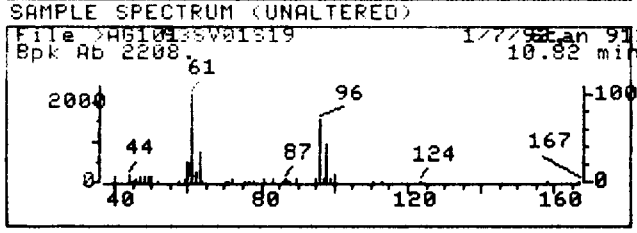
REFERENCE STANDARD SPECTRUM

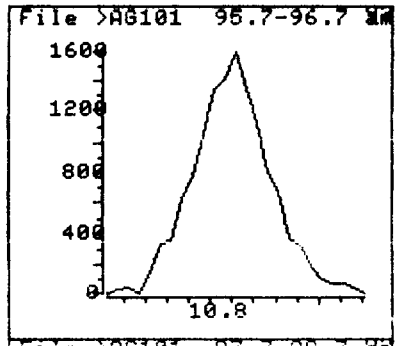


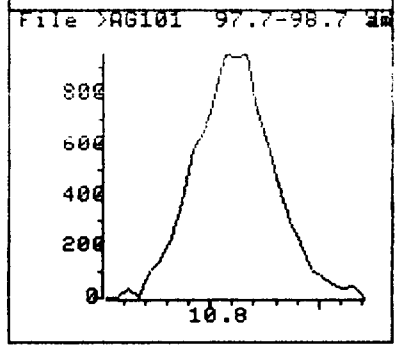
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)





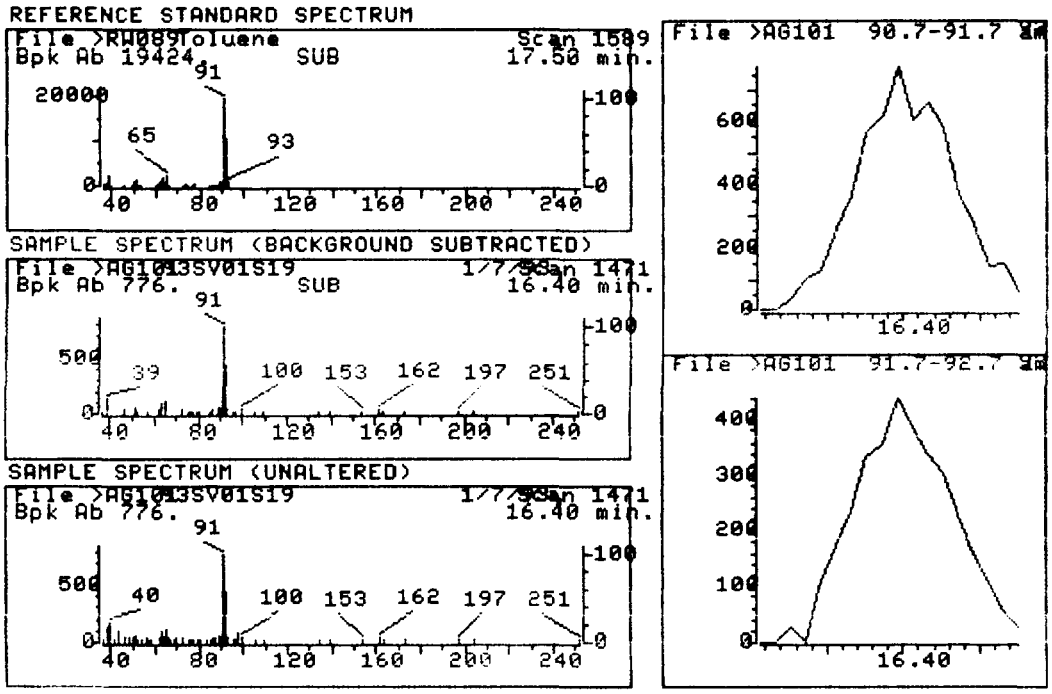


Data File: >AG101::D5
Name: 93SV01S19
Misc: 1/7/93, 5mL PURGE
Quant Time: 930107 18:24
Injected at: 930107 17:51
Last Qcal Time: 930107 09:38

Quant Output File: ^AG101::D3
Instrument ID: HP MS#4

Quant ID File: IDAG1F::SC
Last Calibration: 921223 14:04

Compound No : 18
Compound Name : cis-1,2-Dichloroethene
Scan Number : 911
Retention Time: 10.82 min.
Quant Ion : 96.0
Area : 7683
Concentration : 8.36 UG/L
q-value : 91



Data File: >AG101::D5
Name: 93SV01S19
Misc: 1/7/93, 5mL PURGE
Quant Time: 930107 18:24
Injected at: 930107 17:51
Last Qcal Time: 930107 09:38

Quant Output File: ^AG101::D3
Instrument ID: HP MS#4

Quant ID File: IDAG1F::SC
Last Calibration: 921223 14:04

Compound No : 35
Compound Name : Toluene
Scan Number : 1471
Retention Time: 16.40 min.
Quant Ion : 92.0
Area : 1962
Concentration : 1.23 UG/L
q-value : 94

QUANT REPORT

Operator ID: KELLY
Output File: ^AG102::D3
Data File: >AG102::D5
Name: 93SV01S20
Misc: 1/7/93, 5mL PURGE

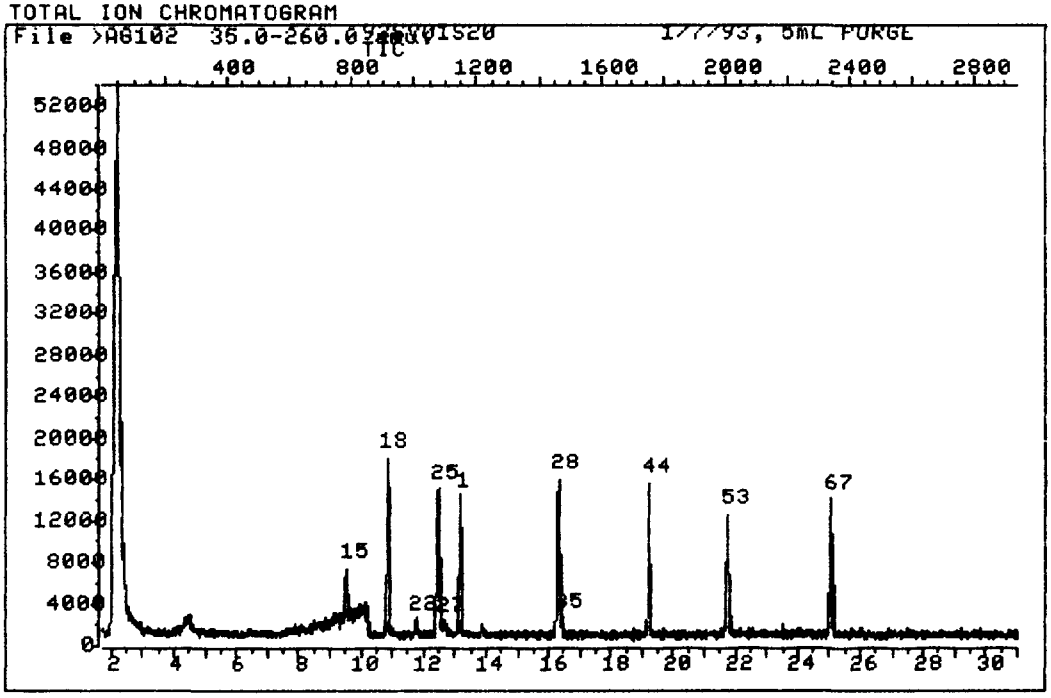
Quant Rev: 7
Quant Time: 930107 19:03
Injected at: 930107 18:30
Dilution Factor: 1.00000
Instrument ID: HP MS#4

ID File: IDAG1F::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921223 14:04
Last Qcal Time: 930107 09:38

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.14	96.0	28724	10.00	UG/L	94
15)	1,1-Dichloroethane	9.52	63.0	14620	11.25	UG/L	99
18)	cis-1,2-Dichloroethene	10.82	96.0	18747	21.11	UG/L	93
22)	1,1,1-Trichloroethane	11.74	97.0	2783	2.54	UG/L	91
25)	BENZENE-D6	12.44	84.0	30859	9.76	UG/L	98
27)	1,2-Dichloroethane	12.65	62.0	2372	1.79	UG/L	96
28)	*TOLUENE-D8	16.28	98.0	24516	10.00	UG/L	95
35)	Toluene	16.39	92.0	1346	.891	UG/L	99
44)	*CHLOROBENZENE-D5	19.19	117.0	18112	10.00	UG/L	93
53)	p-BROMOFLUOROBENZENE	21.73	174.0	8273	10.62	UG/L	90
67)	1,2-DICHLOROBENZENE-D4	25.03	152.0	8785	10.89	UG/L	91

* Compound is ISTD

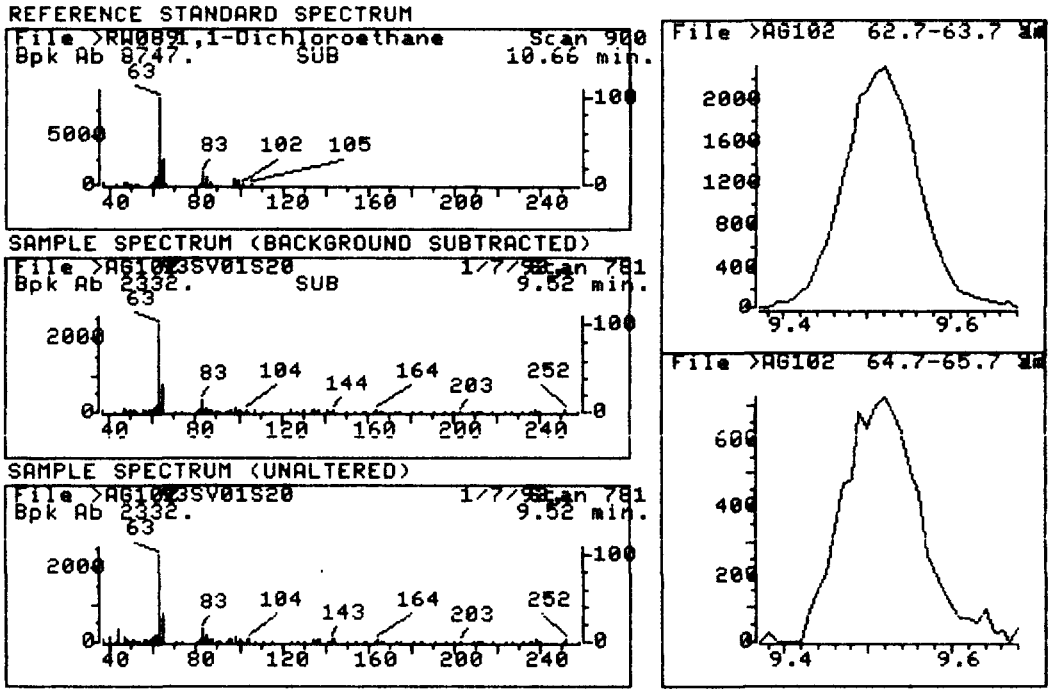
TOTAL ION CHROMATOGRAM



Data File: >AG102::D5 Quant Output File: ^AG102::D3
Name: 93SV01S20 Instrument ID: HP MS#4
Misc: 1/7/93, 5mL PURGE

Id File: IDAG1F::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921223 14:04 Last Qcal Time: 930107 09:38

Operator ID: KELLY
Quant Time : 930107 19:03
Injected at: 930107 18:30

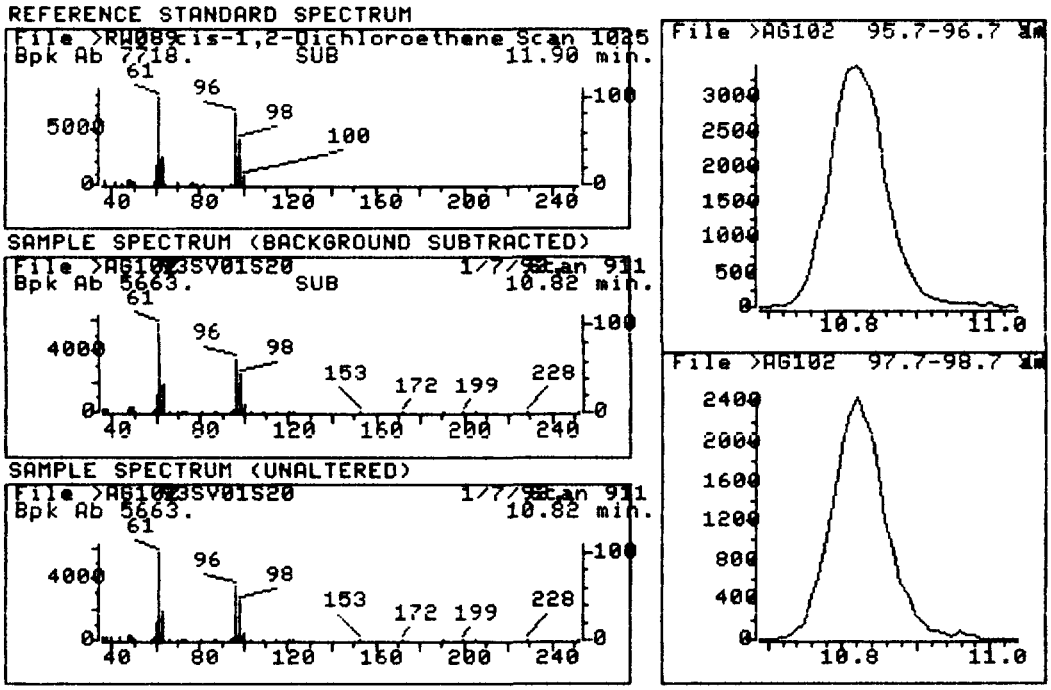


Data File: >AG102::D5
Name: 93SV01S20
Misc: 1/7/93, 5mL PURGE
Quant Time: 930107 19:03
Injected at: 930107 18:30
Last Qcal Time: 930107 09:38

Quant Output File: ^AG102::D3
Instrument ID: HP MS#4

Quant ID File: IDAG1F::SC
Last Calibration: 921223 14:04

Compound No : 15
Compound Name : 1,1-Dichloroethane
Scan Number : 781
Retention Time: 9.52 min.
Quant Ion : 63.0
Area : 14620
Concentration : 11.25 UG/L
q-value : 99

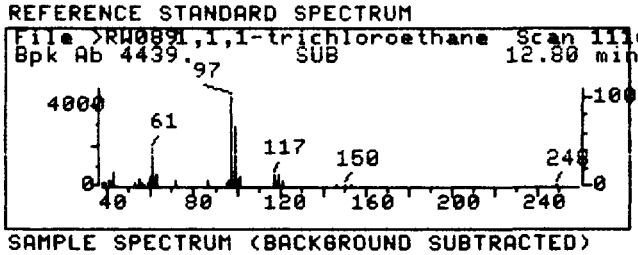


Data File: >AG102::D5
Name: 93SV01S20
Misc: 1/7/93, 5mL PURGE
Quant Time: 930107 19:03
Injected at: 930107 18:30
Last Qcal Time: 930107 09:38

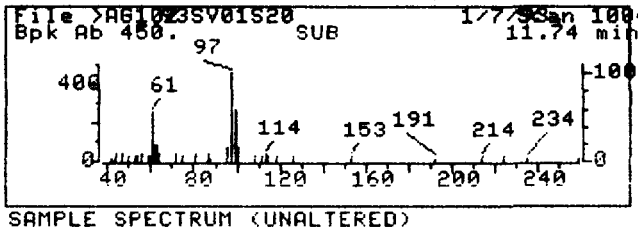
Quant Output File: ^AG102::D3
Instrument ID: HP MS#4
Quant ID File: IDAG1F::SC
Last Calibration: 921223 14:04

Compound No : 18
Compound Name : cis-1,2-Dichloroethene
Scan Number : 911
Retention Time: 10.82 min.
Quant Ion : 96.0
Area : 18747
Concentration : 21.11 UG/L
q-value : 93

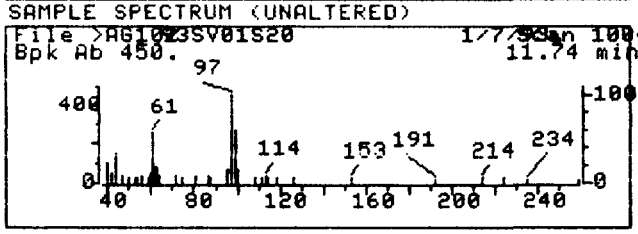
REFERENCE STANDARD SPECTRUM

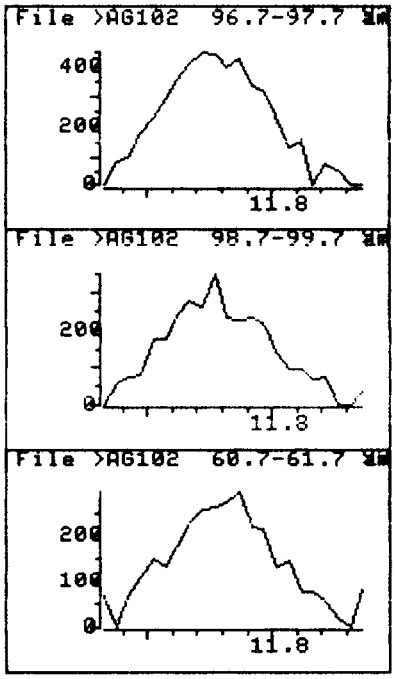


SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

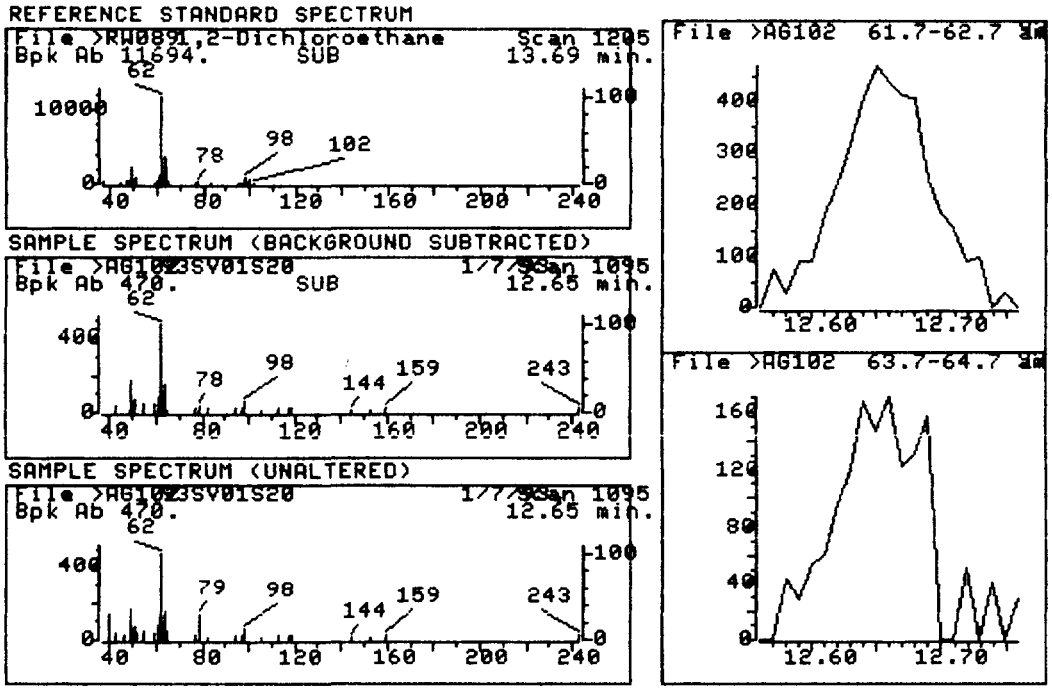




Data File: >AG102::D5
Name: 93SV01S20
Misc: 1/7/93, 5mL PURGE
Quant Time: 930107 19:03
Injected at: 930107 18:30
Last Qcal Time: 930107 09:38

Quant Output File: ^AG102::D3
Instrument ID: HP MS#4
Quant ID File: IDAG1F::SC
Last Calibration: 921223 14:04

Compound No : 22
Compound Name : 1,1,1-Trichloroethane
Scan Number : 1004
Retention Time: 11.74 min.
Quant Ion : 97.0
Area : 2783
Concentration : 2.54 UG/L
q-value : 91



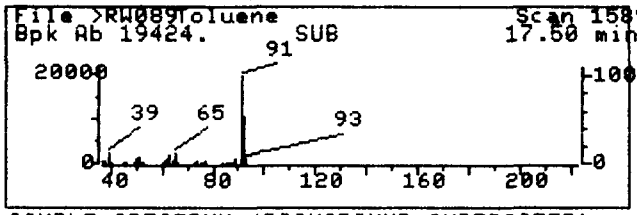
Data File: >AG102::D5
Name: 93SV01S20
Misc: 1/7/93, 5mL PURGE
Quant Time: 930107 19:03
Injected at: 930107 18:30
Last Qcal Time: 930107 09:38

Quant Output File: ^AG102::D3
Instrument ID: HP MS#4

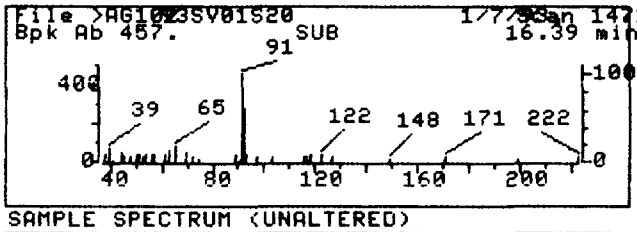
Quant ID File: IDAG1F::SC
Last Calibration: 921223 14:04

Compound No : 27
Compound Name : 1,2-Dichloroethane
Scan Number : 1095
Retention Time: 12.65 min.
Quant Ion : 62.0
Area : 2372
Concentration : 1.79 UG/L
q-value : 96

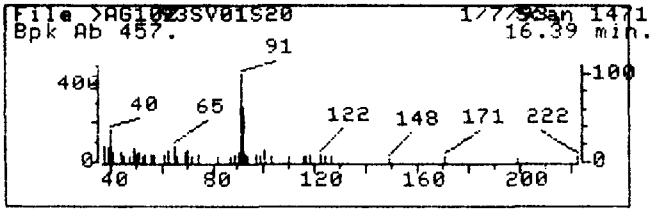
REFERENCE STANDARD SPECTRUM

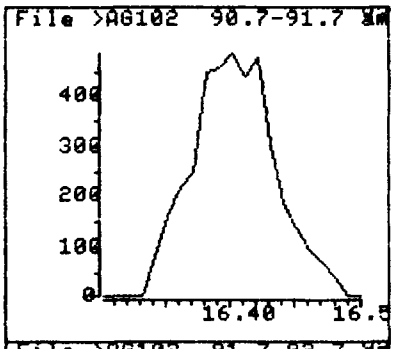


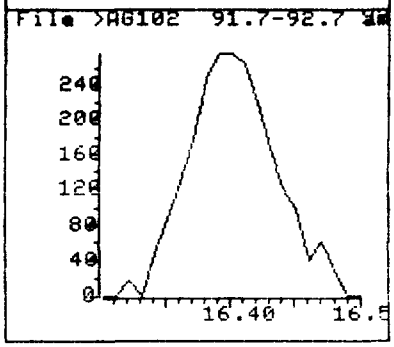
SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)







Data File: >AG102::D5
Name: 93SV01S20
Misc: 1/7/93, 5mL PURGE
Quant Time: 930107 19:03
Injected at: 930107 18:30
Last Qcal Time: 930107 09:38

Quant Output File: ^AG102::D3
Instrument ID: HP MS#4

Quant ID File: IDAG1F::SC
Last Calibration: 921223 14:04

Compound No : 35
Compound Name : Toluene
Scan Number : 1471
Retention Time: 16.39 min.
Quant Ion : 92.0
Area : 1346
Concentration : .891 UG/L
q-value : 99

QUANT REPORT

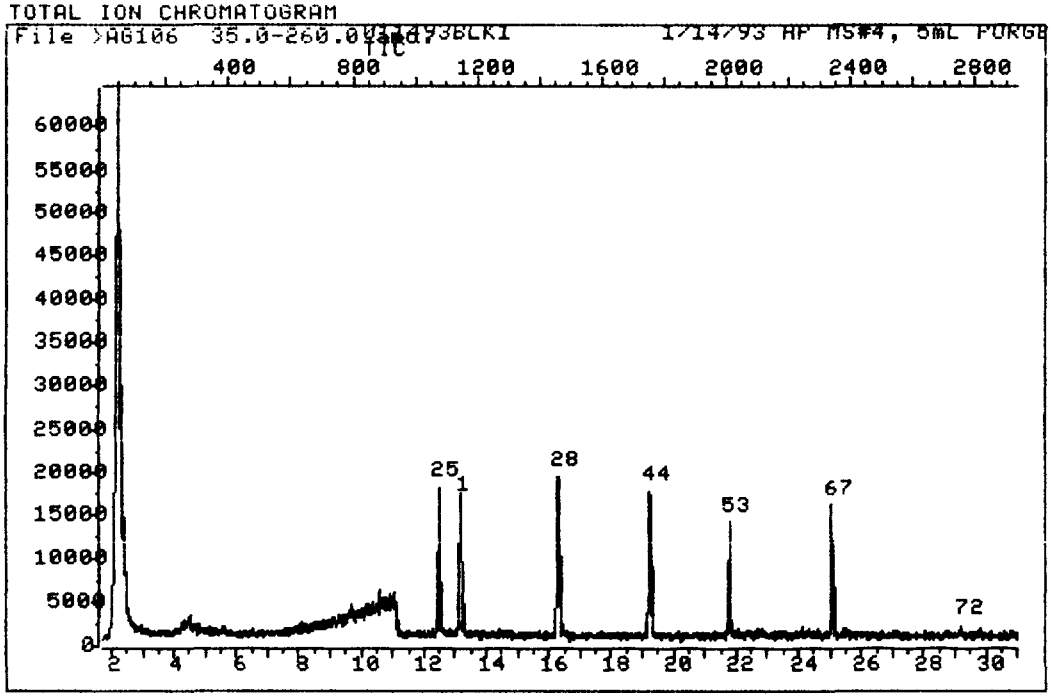
Operator ID: KELLY Quant Rev: 7 Quant Time: 930114 14:21
Output File: ^AG106::D3 Injected at: 930114 13:48
Data File: >AG106::D5 Dilution Factor: 1.00000
Name: 011493BLK1 Instrument ID: HP MS#4
Misc: 1/14/93 HP MS#4, 5mL PURGE

ID File: IDAG1G::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921223 14:04 Last Qcal Time: 930114 13:10

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.13	96.0	33457	10.00	UG/L	95
25)	BENZENE-D6	12.43	84.0	36812	10.16	UG/L	95
28)	*TOLUENE-D8	16.29	98.0	29518	10.00	UG/L	97
44)	*CHLOROBENZENE-D5	19.21	117.0	21134	10.00	UG/L	95
53)	p-BROMOFLUOROBENZENE	21.73	174.0	9395	9.66	UG/L	96
67)	1,2-DICHLOROBENZENE-D4	25.04	152.0	10051	10.16	UG/L	93
72)	Naphthalene	29.23	128.0	1586	1.09	UG/L	100

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AG106::D5 Quant Output File: ^AG106::D3
Name: 011493BLK1 Instrument ID: HP MS#4
Misc: 1/14/93 HP MS#4, 5mL PURGE

Id File: IDAG1G::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921223 14:04 Last Qcal Time: 930114 13:10

Operator ID: KELLY
Quant Time : 930114 14:21
Injected at: 930114 13:48

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

011493BLK1

Lab Name: CRL SE ROCKFORD Contract: 5ESD-10C

Lab Code: 5SCRL Case No.: SF-1077 SAS No.: --- SDG No.: ---

Matrix: (soil/water) WATER Lab Sample ID: 011493BLK1

Sample wt/vol: 5.000 (g/mL) mL Lab File ID: >AG106

Level: (low/med) LOW Date Received: 01/14/93

% Moisture: not dec.---- Date Analyzed: 1/14/93

Column: (pack/cap) CAP Dilution Factor: 1.00000

Final extract Volume: -- (uL) Conversion Factor: 1.0000

Aliquot Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	3.	U
74-87-3	Chloromethane	3.	U
75-01-4	Vinyl chloride	3.	U
74-83-9	Bromomethane	3.	U
75-00-3	Chloroethane	3.	U
75-69-4	Trichlorofluoromethane	3.	U
107-64-1	Acrolein	10.	U
75-35-4	1,1-Dichloroethene	2.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	2.	U
75-09-2	Methylene chloride	2.	U
156-60-5	trans-1,2-Dichloroethene	2.	U
107-13-1	Acrylonitrile	10.	U
75-34-3	1,1-Dichloroethane	2.	U
108-05-4	Vinylacetate	10.	U
594-20-7	2,2-Dichloropropane	2.	U
156-59-2	cis-1,2-Dichloroethene	2.	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	2.	U
67-66-3	Chloroform	2.	U
71-55-6	1,1,1-trichloroethane	2.	U
56-23-5	Carbon tetrachloride	2.	U
563-58-6	1,1-Dichloropropene	2.	U
71-43-2	Benzene	2.	U
107-06-2	1,2-Dichloroethane	2.	U
79-01-6	Trichloroethene	2.	U
78-87-5	1,2-Dichloropropane	2.	U
74-95-3	Dibromomethane	2.	U
	2-Chloroethyl vinylether	2.	U
75-27-4	Bromodichloromethane	2.	U
10061-01-5	cis-1,3-dichloropropene	2.	U
108-88-3	Toluene	2.	U
108-10-1	4-Methyl-2-pentanone	5.	U
10061-02-6	trans-1,3-Dichloropropene	2.	U
127-18-4	Tetrachloroethene	2.	U
79-00-5	1,1,2-Trichloroethane	2.	U
142-28-9	1,3-Dichloropropane	2.	U

Are there any TICs ? (Please check a box) YES [ ] NO [✓]

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

011493BLK1

Lab Name:CRL SE ROCKFORD Contract:5ESD-10C

Lab Code: 5SCRL Case No.: SF-1077 SAS No.: --- SDG No.: ---

Matrix: (soil/water) WATER Lab Sample ID: 011493BLK1

Sample wt/vol: 5.000 (g/mL) mL Lab File ID: >AG106

Level: (low/med) LOW Date Received: 01/14/93

% Moisture: not dec.---- Date Analyzed: 1/14/93

Column: (pack/cap) CAP Dilution Factor: 1.00000

Final extract Volume: -- (uL) Conversion Factor: 1.0000

Aliquot Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
591-78-6	2-Hexanone	5.	U
124-48-1	Dibromochloromethane	2.	U
106-93-4	1,2-Dibromoethane	2.	U
108-90-7	Chlorobenzene	2.	U
630-20-6	1,1,1,2-Tetrachloroethane	2.	U
100-41-4	Ethylbenzene	2.	U
1083836423	m &/or p-Xylene	2.	U
95-47-6	o-Xylene	2.	U
100-42-5	Styrene	2.	U
75-25-2	Bromoform	2.	U
98-82-8	Isopropylbenzene	2.	U
108-86-1	Bromobenzene	2.	U
96-18-4	1,2,3-Trichloropropane	2.	U
79-34-5	1,1,2,2-Tetrachloroethane	2.	U
103-65-1	n-Propylbenzene	2.	U
95-49-8	2-Chlorotoluene	2.	U
106-43-4	4-Chlorotoluene	2.	U
108-67-8	1,3,5-Trimethylbenzene	2.	U
98-06-6	tert-Butylbenzene	2.	U
95-63-6	1,2,4-Trimethylbenzene	2.	U
135-98-8	sec-Butylbenzene	2.	U
541-73-1	1,3-Dichlorobenzene	2.	U
106-46-7	1,4-Dichlorobenzene	2.	U
99-87-6	p-Isopropyltoluene	2.	U
95-50-1	1,2-Dichlorobenzene	2.	U
104-51-8	n-Butylbenzene	2.	U
96-12-8	1,2-Dibromo-3-chloropropane	2.	U
120-82-1	1,2,4-Trichlorobenzene	2.	U
91-20-3	Naphthalene	1.	JB
87-68-3	Hexachlorobutadiene	2.	U
87-61-6	1,2,3-Trichlorobenzene	2.	U

FORM I-2 VOA 1/89 Rev.

Data Qualifiers: U = Compounds were analyzed but not detected. The value reported is the method detection limit for reagent water; J = Estimated; D=Diluted Sample; X = Result rejected for failing mass spectral confirmation; E = Concentration exceeded calibration range; B_ = Contaminant found in laboratory method blank; ARE THERE TICs ? (Circle) YES/NO

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93SV01S19MS

Lab Name: CRL SE ROCKFORD Contract: 5ESD-10C

Lab Code: 5SCRL Case No.: SF-1077 SAS No.: --- SDG No.: ---

Matrix: (soil/water) WATER Lab Sample ID: 93SV01S19MS

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: >AG107

Level: (low/med) LOW Date Received: 01/14/93

% Moisture: not dec.---- Date Analyzed: 1/14/93

Column: (pack/cap) CAP Dilution Factor: 1.00000

Final extract Volume: -- (uL) Conversion Factor: 1.0000

Aliquot Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	3.	U
74-87-3	Chloromethane	3.	U
75-01-4	Vinyl chloride	4.	
74-83-9	Bromomethane	3.	U
75-00-3	Chloroethane	3.	U
75-69-4	Trichlorofluoromethane	3.	U
107-64-1	Acrolein	10.	U
75-35-4	1,1-Dichloroethene	10.	
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	8.	
75-09-2	Methylene chloride	11.	
156-60-5	trans-1,2-Dichloroethene	11.	
107-13-1	Acrylonitrile	10.	U
75-34-3	1,1-Dichloroethane	17.	
108-05-4	Vinylacetate	10.	U
594-20-7	2,2-Dichloropropane	2.	U
156-59-2	cis-1,2-Dichloroethene	35.	
78-93-3	2-Butanone	16.	
74-97-5	Bromochloromethane	2.	U
67-66-3	Chloroform	12.	
71-55-6	1,1,1-trichloroethane	13.	
56-23-5	Carbon tetrachloride	10.	
563-58-6	1,1-Dichloropropene	2.	U
71-43-2	Benzene	11.	
107-06-2	1,2-Dichloroethane	12.	
79-01-6	Trichloroethene	9.	
78-87-5	1,2-Dichloropropane	11.	
74-95-3	Dibromomethane	2.	U
	2-Chloroethyl vinylether	2.	U
75-27-4	Bromodichloromethane	13.	
10061-01-5	cis-1,3-dichloropropene	12.	
108-88-3	Toluene	13.	
108-10-1	4-Methyl-2-pentanone	9.	
10061-02-6	trans-1,3-Dichloropropene	11.	
127-18-4	Tetrachloroethene	12.	
79-00-5	1,1,2-Trichloroethane	2.	U
142-28-9	1,3-Dichloropropane	2.	U

Are there any TICs ? (Please check a box) YES [ ] NO [✓]

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93SV01S19MS

Lab Name:CRL SE ROCKFORD Contract:5ESD-10C

Lab Code: 5SCRL Case No.: SF-1077 SAS No.: --- SDG No.: ---

Matrix: (soil/water) WATER Lab Sample ID: 93SV01S19MS

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: >AG107

Level: (low/med) LOW Date Received: 01/14/93

% Moisture: not dec.---- Date Analyzed: 1/14/93

Column: (pack/cap) CAP Dilution Factor: 1.00000

Final extract Volume: -- (uL) Conversion Factor: 1.0000

Aliquot Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
591-78-6	2-Hexanone	5.	
124-48-1	Dibromochloromethane	13.	
106-93-4	1,2-Dibromoethane	2.	U
108-90-7	Chlorobenzene	12.	
630-20-6	1,1,1,2-Tetrachloroethane	2.	U
100-41-4	Ethylbenzene	12.	
1083836423	m &/or p-Xylene	26.	
95-47-6	o-Xylene	12.	
100-42-5	Styrene	15.	
75-25-2	Bromoform	14.	
98-82-8	Isopropylbenzene	2.	U
108-86-1	Bromobenzene	2.	U
96-18-4	1,2,3-Trichloropropane	2.	U
79-34-5	1,1,2,2-Tetrachloroethane	35.	
103-65-1	n-Propylbenzene	2.	U
95-49-8	2-Chlorotoluene	2.	U
106-43-4	4-Chlorotoluene	2.	U
108-67-8	1,3,5-Trimethylbenzene	2.	U
98-06-6	tert-Butylbenzene	2.	U
95-63-6	1,2,4-Trimethylbenzene	2.	U
135-98-8	sec-Butylbenzene	2.	U
541-73-1	1,3-Dichlorobenzene	2.	U
106-46-7	1,4-Dichlorobenzene	2.	U
99-87-6	p-Isopropyltoluene	2.	U
95-50-1	1,2-Dichlorobenzene	2.	U
104-51-8	n-Butylbenzene	2.	U
96-12-8	1,2-Dibromo-3-chloropropane	2.	U
120-82-1	1,2,4-Trichlorobenzene	2.	U
91-20-3	Naphthalene	2.	U
87-68-3	Hexachlorobutadiene	2.	U
87-61-6	1,2,3-Trichlorobenzene	2.	U

FORM I-2 VOA 1/89 Rev.

Data Qualifiers: U = Compounds were analyzed but not detected. The value reported is the method detection limit for reagent water; J = Estimated; D=Diluted Sample; X = Result rejected for failing mass spectral confirmation; E = Concentration exceeded calibration range; B_ = Contaminant found in laboratory method blank; ARE THERE TICs ? (Circle) YES/NO

QUANT REPORT

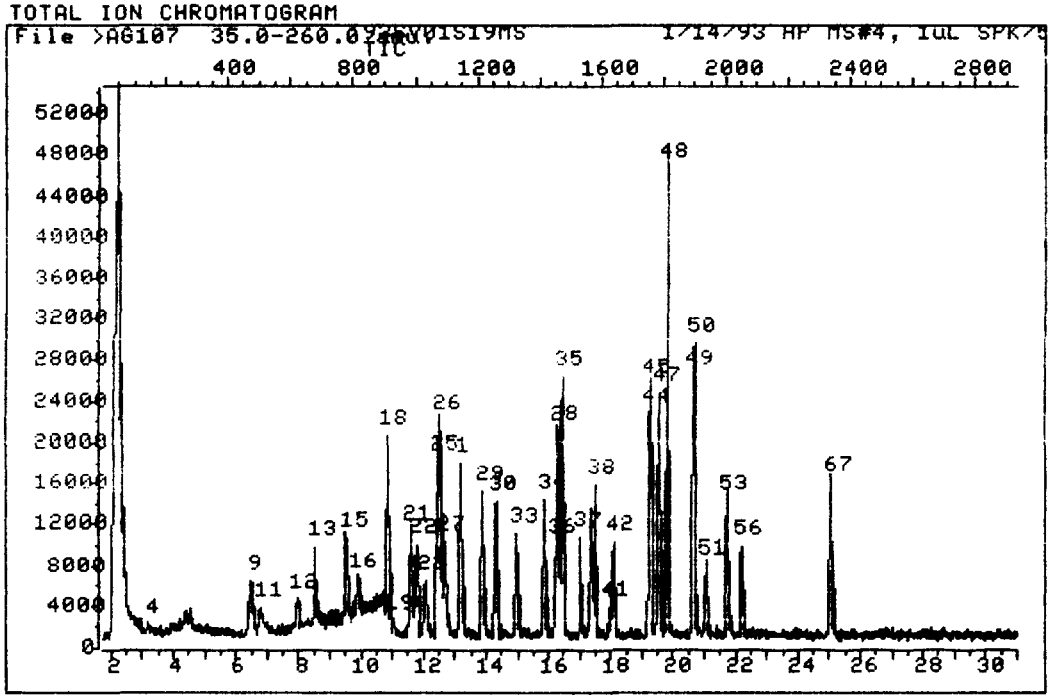
Operator ID: KELLY Quant Rev: 7 Quant Time: 930114 15:11
Output File: ^AG107::D3 Injected at: 930114 14:38
Data File: >AG107::D5 Dilution Factor: 1.00000
Name: 93SV01S19MS Instrument ID: HP MS#4
Misc: 1/14/93 HP MS#4, 1uL SPK/5mL PURGE

ID File: IDAG1G::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921223 14:04 Last Qcal Time: 930114 13:10

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.14	96.0	33129	10.00	UG/L	99
4)	Vinyl chloride	3.16	62.0	2488	3.54	UG/L	97
9)	1,1-Dichloroethene	6.45	96.0	7064	9.52	UG/L	91
11)	Carbon disulfide	6.79	76.0	13720	7.89	UG/L	95
12)	Methylene chloride	7.92	84.0	4790	11.32	UG/L	75
13)	trans-1,2-Dichloroethene	8.51	96.0	7806	10.89	UG/L	97
15)	1,1-Dichloroethane	9.52	63.0	24257	16.83	UG/L	95
16)	Vinyl acetate	9.85	43.0	16795	16.40	UG/L	100
18)	cis-1,2-Dichloroethene	10.82	96.0	20360	35.26	UG/L	96
19)	2-Butanone	11.02	43.0	6302	15.75	UG/L	76
21)	Chloroform	11.57	83.0	21195	11.82	UG/L	96
22)	1,1,1-Trichloroethane	11.74	97.0	15965	12.75	UG/L	94
23)	Carbon tetrachloride	12.05	117.0	10095	10.44	UG/L	90
25)	BENZENE-D6	12.43	84.0	37364	10.41	UG/L	98
26)	Benzene	12.51	78.0	40450	11.45	UG/L	98
27)	1,2-Dichloroethane	12.65	62.0	18379	12.41	UG/L	98
28)	*TOLUENE-D8	16.28	98.0	32320	10.00	UG/L	96
29)	Trichloroethene	13.86	95.0	11706	8.62	UG/L	92
30)	1,2-Dichloropropane	14.31	63.0	12636	11.24	UG/L	95
33)	Bromodichloromethane	14.95	83.0	15862	12.60	UG/L	97
34)	cis-1,3-Dichloropropene	15.84	75.0	17421	12.09	UG/L	96
35)	Toluene	16.40	92.0	25386	12.82	UG/L	94
36)	4-Methyl-2-pentanone	16.22	43.0	11200	8.78	UG/L	92
37)	trans-1,3-Dichloropropene	17.01	75.0	12775	10.80	UG/L	99
38)	Tetrachloroethene	17.46	166.0	12149	12.02	UG/L	93
41)	2-Hexanone	17.93	43.0	6123	5.46	UG/L	85
42)	Dibromochloromethane	18.08	129.0	11602	12.93	UG/L	94
44)	*CHLOROBENZENE-D5	19.20	117.0	22259	10.00	UG/L	95
45)	Chlorobenzene	19.25	112.0	26701	12.20	UG/L	93
47)	Ethylbenzene	19.53	91.0	44145	12.49	UG/L	97
48)	m &/or p-Xylene	19.78	106.0	31362	25.56	UG/L	84
49)	o-Xylene	20.61	106.0	14539	11.53	UG/L	93
50)	Styrene	20.66	104.0	26253	15.38	UG/L	95
51)	Bromoform	21.02	173.0	7958	13.62	UG/L	91
53)	p-BROMOFLUOROBENZENE	21.72	174.0	10592	10.34	UG/L	98
56)	1,1,2,2-Tetrachloroethane	22.20	83.0	12326	35.15	UG/L	98
67)	1,2-DICHLOROBENZENE-D4	25.03	152.0	10234	9.83	UG/L	94

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AG107::D5 Quant Output File: ^AG107::D3
Name: 93SV01S19MS Instrument ID: HP MS#4
Misc: 1/14/93 HP MS#4, 1uL SPK/5mL PURGE

Id File: IDAG1G::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921223 14:04 Last Qcal Time: 930114 13:10

Operator ID: KELLY
Quant Time : 930114 15:11
Injected at: 930114 14:38

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93SV01S19MD

Lab Name: CRL SE ROCKFORD Contract: 5ESD-10C

Lab Code: 5SCRL Case No.: SF-1077 SAS No.: --- SDG No.: ---

Matrix: (soil/water) WATER Lab Sample ID: 93SV01S19MS

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: >AG108

Level: (low/med) LOW Date Received: 01/14/93

% Moisture: not dec.---- Date Analyzed: 1/14/93

Column: (pack/cap) CAP Dilution Factor: 1.00000

Final extract Volume: -- (uL) Conversion Factor: 1.0000

Aliquot Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	3.	U
74-87-3	Chloromethane	3.	U
75-01-4	Vinyl chloride	3.	U
74-83-9	Bromomethane	5.	
75-00-3	Chloroethane	3.	U
75-69-4	Trichlorofluoromethane	3.	U
107-64-1	Acrolein	10.	U
75-35-4	1,1-Dichloroethene	9.	
67-64-1	Acetone	3.	J
75-15-0	Carbon disulfide	3.	
75-09-2	Methylene chloride	10.	
156-60-5	trans-1,2-Dichloroethene	10.	
107-13-1	Acrylonitrile	10.	U
75-34-3	1,1-Dichloroethane	15.	
108-05-4	Vinylacetate	10.	U
594-20-7	2,2-Dichloropropane	2.	U
156-59-2	cis-1,2-Dichloroethene	33.	
78-93-3	2-Butanone	15.	
74-97-5	Bromochloromethane	2.	U
67-66-3	Chloroform	10.	
71-55-6	1,1,1-trichloroethane	11.	
56-23-5	Carbon tetrachloride	9.	
563-58-6	1,1-Dichloropropene	2.	U
71-43-2	Benzene	10.	
107-06-2	1,2-Dichloroethane	10.	
79-01-6	Trichloroethene	9.	
78-87-5	1,2-Dichloropropane	10.	
74-95-3	Dibromomethane	2.	U
	2-Chloroethyl vinylether	2.	U
75-27-4	Bromodichloromethane	11.	
10061-01-5	cis-1,3-dichloropropene	10.	
108-88-3	Toluene	12.	
108-10-1	4-Methyl-2-pentanone	9.	
10061-02-6	trans-1,3-Dichloropropene	9.	
127-18-4	Tetrachloroethene	11.	
79-00-5	1,1,2-Trichloroethane	2.	U
142-28-9	1,3-Dichloropropane	2.	U

Are there any TICs ? (Please check a box) YES [ ] NO [✓]

1A-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

93SV01S19MD

Lab Name:CRL SE ROCKFORD Contract:5ESD-10C

Lab Code: 5SCRL Case No.: SF-1077 SAS No.: --- SDG No.: ---

Matrix: (soil/water) WATER Lab Sample ID: 93SV01S19MS

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: >AG108

Level: (low/med) LOW Date Received: 01/14/93

% Moisture: not dec.---- Date Analyzed: 1/14/93

Column: (pack/cap) CAP Dilution Factor: 1.00000

Final extract Volume: -- (uL) Conversion Factor: 1.0000

Aliquot Volume: -- (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
591-78-6	2-Hexanone	5.	
124-48-1	Dibromochloromethane	11.	
106-93-4	1,2-Dibromoethane	2.	U
108-90-7	Chlorobenzene	11.	
630-20-6	1,1,1,2-Tetrachloroethane	2.	U
100-41-4	Ethylbenzene	11.	
1083836423	m &/or p-Xylene	22.	
95-47-6	o-Xylene	10.	
100-42-5	Styrene	13.	
75-25-2	Bromoform	12.	
98-82-8	Isopropylbenzene	2.	U
108-86-1	Bromobenzene	2.	U
96-18-4	1,2,3-Trichloropropane	2.	U
79-34-5	1,1,2,2-Tetrachloroethane	21.	
103-65-1	n-Propylbenzene	2.	U
95-49-8	2-Chlorotoluene	2.	U
106-43-4	4-Chlorotoluene	2.	U
108-67-8	1,3,5-Trimethylbenzene	2.	U
98-06-6	tert-Butylbenzene	2.	U
95-63-6	1,2,4-Trimethylbenzene	2.	U
135-98-8	sec-Butylbenzene	2.	U
541-73-1	1,3-Dichlorobenzene	2.	U
106-46-7	1,4-Dichlorobenzene	2.	U
99-87-6	p-Isopropyltoluene	2.	U
95-50-1	1,2-Dichlorobenzene	2.	U
104-51-8	n-Butylbenzene	2.	U
96-12-8	1,2-Dibromo-3-chloropropane	2.	U
120-82-1	1,2,4-Trichlorobenzene	2.	U
91-20-3	Naphthalene	2.	U
87-68-3	Hexachlorobutadiene	2.	U
87-61-6	1,2,3-Trichlorobenzene	2.	U

FORM I-2 VOA 1/89 Rev.

Data Qualifiers: U = Compounds were analyzed but not detected. The value reported is the method detection limit for reagent water; J = Estimated; D=Diluted Sample; X = Result rejected for failing mass spectral confirmation; E = Concentration exceeded calibration range; B_ = Contaminant found in laboratory method blank; ARE THERE TICs ? (Circle) YES/NO

QUANT REPORT

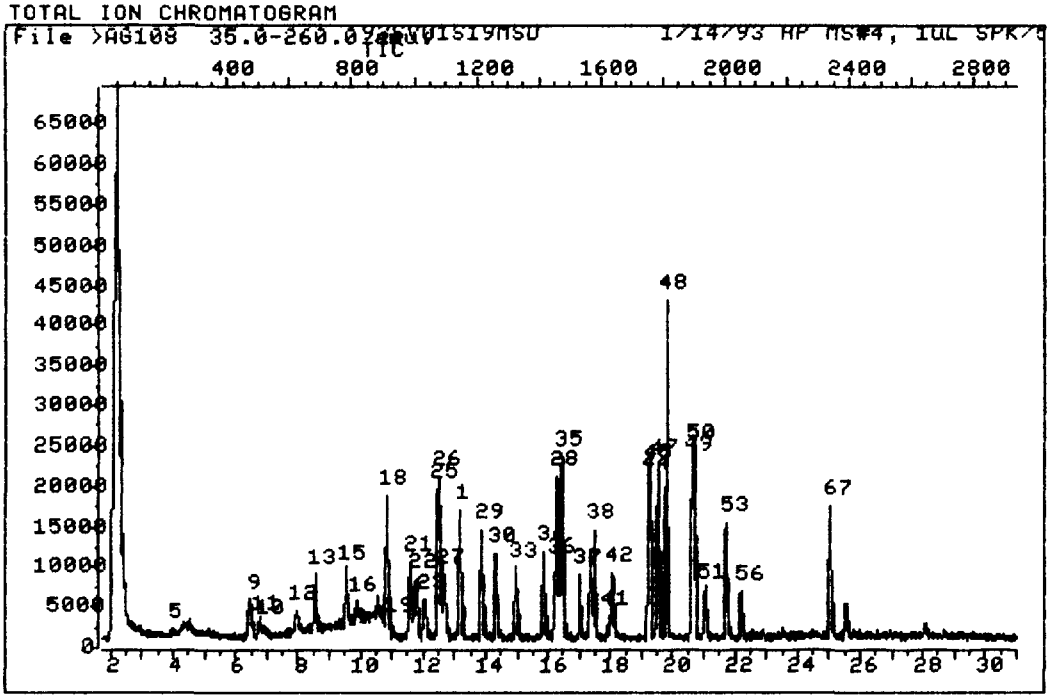
Operator ID: KELLY Quant Rev: 7 Quant Time: 930114 15:49
Output File: ^AG108::D3 Injected at: 930114 15:17
Data File: >AG108::D5 Dilution Factor: 1.00000
Name: 93SV01S19MSD Instrument ID: HP MS#4
Misc: 1/14/93 HP MS#4, 1uL SPK/5mL PURGE

ID File: IDAG1G::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921223 14:04 Last Qcal Time: 930114 13:10

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.14	96.0	33273	10.00	UG/L	99
5)	Bromomethane	3.95	94.0	1633	4.51	UG/L	80
9)	1,1-Dichloroethene	6.43	96.0	6526	8.76	UG/L	96
10)	Acetone	6.89	43.0	1470	3.01	UG/L	79
11)	Carbon disulfide	6.76	76.0	4968	2.84	UG/L	97
12)	Methylene chloride	7.92	84.0	4311	10.14	UG/L	96
13)	trans-1,2-Dichloroethene	8.53	96.0	7040	9.78	UG/L	99
15)	1,1-Dichloroethane	9.51	63.0	21782	15.05	UG/L	99
16)	Vinyl acetate	9.85	43.0	10730	10.43	UG/L	100
18)	cis-1,2-Dichloroethene	10.81	96.0	19276	33.24	UG/L	96
19)	2-Butanone	11.02	43.0	6178	15.37	UG/L	74
21)	Chloroform	11.58	83.0	18897	10.49	UG/L	95
22)	1,1,1-Trichloroethane	11.76	97.0	14181	11.27	UG/L	94
23)	Carbon tetrachloride	12.05	117.0	8694	8.95	UG/L	97
25)	BENZENE-D6	12.44	84.0	36635	10.16	UG/L	99
26)	Benzene	12.50	78.0	36691	10.34	UG/L	99
27)	1,2-Dichloroethane	12.64	62.0	15235	10.24	UG/L	92
28)	*TOLUENE-D8	16.28	98.0	32461	10.00	UG/L	95
29)	Trichloroethene	13.86	95.0	12056	8.84	UG/L	96
30)	1,2-Dichloropropane	14.31	63.0	11150	9.87	UG/L	97
33)	Bromodichloromethane	14.95	83.0	14142	11.19	UG/L	99
34)	cis-1,3-Dichloropropene	15.83	75.0	14462	9.99	UG/L	95
35)	Toluene	16.41	92.0	23275	11.70	UG/L	94
36)	4-Methyl-2-pentanone	16.23	43.0	11050	8.62	UG/L	87
37)	trans-1,3-Dichloropropene	17.01	75.0	10561	8.89	UG/L	95
38)	Tetrachloroethene	17.46	166.0	10860	10.69	UG/L	99
41)	2-Hexanone	17.93	43.0	5824	5.18	UG/L	84
42)	Dibromochloromethane	18.07	129.0	10310	11.44	UG/L	91
44)	*CHLOROBENZENE-D5	19.20	117.0	22849	10.00	UG/L	98
45)	Chlorobenzene	19.26	112.0	23791	10.59	UG/L	92
47)	Ethylbenzene	19.53	91.0	39012	10.75	UG/L	95
48)	m &/or p-Xylene	19.78	106.0	27687	21.98	UG/L	83
49)	o-Xylene	20.60	106.0	12834	9.91	UG/L	94
50)	Styrene	20.66	104.0	22712	12.96	UG/L	94
51)	Bromoform	21.01	173.0	7278	12.14	UG/L	96
53)	p-BROMOFLUOROBENZENE	21.73	174.0	10783	10.26	UG/L	96
56)	1,1,2,2-Tetrachloroethane	22.20	83.0	7704	21.40	UG/L	98
67)	1,2-DICHLOROBENZENE-D4	25.03	152.0	10792	10.09	UG/L	99

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AG108::D5 Quant Output File: ^AG108::D3
Name: 93SV01S19MSD Instrument ID: HP MS#4
Misc: 1/14/93 HP MS#4, 1uL SPK/5mL PURGE

Id File: IDAG1G::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921223 14:04 Last Qcal Time: 930114 13:10

Operator ID: KELLY
Quant Time : 930114 15:49
Injected at: 930114 15:17

QCAL,^AG089,IDAG1F,C

Quant Output File: ^AG089::D3
From ID File: IDAG1F::SC
Quant Time: 930107 10:11

Quant ID File: IDAG1F::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG

Clearing previous calibration...
Recalibrating.....

1)	FLUOROBENZENE	RT:	13.16	Scan: 1144	(ISTD)
2)	Dichlorodifluoromethane	RT:	2.49	Scan: 76	(New Rf = .15829)
3)	Chloromethane	RT:	2.89	Scan: 116	(New Rf = .22657)
4)	Vinyl chloride	RT:	3.16	Scan: 143	(New Rf = .18959)
5)	Bromomethane	RT:	3.98	Scan: 225	(New Rf = .09835)
6)	Chloroethane	RT:	4.28	Scan: 255	(New Rf = .05260)
7)	Trichlorofluoromethane	RT:	4.97	Scan: 324	(New Rf = .19785)
8)	Acrolein	RT:	6.44	Scan: 471	(New Rf = .01160)
9)	1,1-Dichloroethene	RT:	6.45	Scan: 472	(New Rf = .21794)
10)	Acetone	RT:	6.97	Scan: 524	(New Rf = .19992)
11)	Carbon disulfide	RT:	6.77	Scan: 504	(New Rf = .66178)
12)	Methylene chloride	RT:	7.95	Scan: 623	(New Rf = .11680)
13)	trans-1,2-Dichloroethene	RT:	8.53	Scan: 681	(New Rf = .21819)
14)	Acrylonitrile	RT:	8.70	Scan: 698	(New Rf = .10651)
15)	1,1-Dichloroethane	RT:	9.54	Scan: 782	(New Rf = .45241)
16)	Vinyl acetate	RT:	9.87	Scan: 815	(New Rf = .47107)
17)	2,2-Dichloropropane	RT:	10.74	Scan: 901	(New Rf = .40756)
18)	cis-1,2-Dichloroethene	RT:	10.84	Scan: 911	(New Rf = .30912)
19)	2-Butanone	RT:	11.04	Scan: 931	(New Rf = .21901)
20)	Bromochloromethane	RT:	11.32	Scan: 959	(New Rf = .14625)
21)	Chloroform	RT:	11.59	Scan: 987	(New Rf = .54645)
22)	1,1,1-Trichloroethane	RT:	11.76	Scan: 1004	(New Rf = .38089)
23)	Carbon tetrachloride	RT:	12.06	Scan: 1034	(New Rf = .29434)
24)	1,1-Dichloropropene	RT:	12.13	Scan: 1041	(New Rf = .40161)
25)	BENZENE-D6	RT:	12.46	Scan: 1074	(New Rf =1.10081)
26)	Benzene	RT:	12.53	Scan: 1081	(New Rf =1.07724)
27)	1,2-Dichloroethane	RT:	12.67	Scan: 1095	(New Rf = .46157)
28)	TOLUENE-D8	RT:	16.30	Scan: 1459	(ISTD)
29)	Trichloroethene	RT:	13.88	Scan: 1216	(New Rf = .31738)
30)	1,2-Dichloropropane	RT:	14.34	Scan: 1262	(New Rf = .37194)
31)	Dibromomethane	RT:	14.57	Scan: 1286	(New Rf = .23010)
32)	2-Chloroethyl vinylether	RT:	15.49	Scan: 1378	(New Rf = .00680)
33)	Bromodichloromethane	RT:	14.96	Scan: 1325	(New Rf = .40632)
34)	cis-1,3-Dichloropropene	RT:	15.85	Scan: 1414	(New Rf = .49042)
35)	Toluene	RT:	16.43	Scan: 1472	(New Rf = .61609)
36)	4-Methyl-2-pentanone	RT:	16.24	Scan: 1453	(New Rf = .47327)
37)	trans-1,3-Dichloropropene	RT:	17.03	Scan: 1532	(New Rf = .40899)
38)	Tetrachloroethene	RT:	17.48	Scan: 1578	(New Rf = .29044)
39)	1,1,2-Trichloroethane	RT:	17.34	Scan: 1564	(New Rf = .02254)
40)	1,3-Dichloropropane	RT:	17.65	Scan: 1595	(New Rf = .49627)
41)	2-Hexanone	RT:	17.94	Scan: 1624	(New Rf = .38907)
42)	Dibromochloromethane	RT:	18.09	Scan: 1639	(New Rf = .29079)
43)	1,2-Dibromoethane	RT:	18.25	Scan: 1655	(New Rf = .28542)
44)	CHLOROBENZENE-D5	RT:	19.22	Scan: 1752	(ISTD)

```
45) Chlorobenzene                    RT: 19.28 Scan: 1768 (New Rf = .97982)
46) 1,1,1,2-Tetrachloroethane        RT: 19.50 Scan: 1780 (New Rf = .34016)
47) Ethylbenzene                     RT: 19.55 Scan: 1785 (New Rf =1.65214)
48) m &/or p-Xylene                  RT: 19.81 Scan: 1811 (New Rf = .56471)
49) o-Xylene                         RT: 20.62 Scan: 1893 (New Rf = .57153)
50) Styrene                          RT: 20.68 Scan: 1899 (New Rf = .76712)
51) Bromoform                        RT: 21.03 Scan: 1934 (New Rf = .28079)
52) Isopropylbenzene                 RT: 21.44 Scan: 1975 (New Rf =1.53314)
53) p-BROMOFLUOROBENZENE             RT: 21.74 Scan: 2005 (New Rf = .42993)
54) Bromobenzene                     RT: 21.99 Scan: 2030 (New Rf = .41359)
55) 1,2,3-Trichloropropane           RT: 22.23 Scan: 2054 (New Rf = .43774)
56) 1,1,2,2-Tetrachloroethane        RT: 22.22 Scan: 2053 (New Rf = .54316)
57) n-Propylbenzene                  RT: 22.33 Scan: 2064 (New Rf = .37747)
58) 2-Chlorotoluene                  RT: 22.45 Scan: 2076 (New Rf = .35705)
59) 4-Chlorotoluene                  RT: 22.71 Scan: 2102 (New Rf = .35230)
60) 1,3,5-Trimethylbenzene           RT: 22.75 Scan: 2106 (New Rf =1.23857)
61) tert-Butylbenzene                RT: 23.43 Scan: 2174 (New Rf = .99258)
62) 1,2,4-Trimethylbenzene           RT: 23.55 Scan: 2186 (New Rf =1.24550)
63) sec-Butylbenzene                 RT: 23.91 Scan: 2222 (New Rf =1.63301)
64) 1,3-Dichlorobenzene              RT: 24.09 Scan: 2240 (New Rf = .69277)
65) 1,4-Dichlorobenzene              RT: 24.30 Scan: 2261 (New Rf = .55880)
66) p-Isopropyltoluene               RT: 24.27 Scan: 2258 (New Rf =1.21988)
67) 1,2-DICHLOROBENZENE-D4           RT: 25.04 Scan: 2336 (New Rf = .44557)
68) 1,2-Dichlorobenzene              RT: 25.09 Scan: 2341 (New Rf = .67490)
69) n-Butylbenzene                   RT: 25.18 Scan: 2350 (New Rf =1.37646)
70) 1,2-Dibromo-3-chloropropane      RT: 26.89 Scan: 2521 (New Rf = .09341)
71) 1,2,4-Trichlorobenzene           RT: 28.71 Scan: 2704 (New Rf = .41857)
72) Naphthalene                      RT: 29.23 Scan: 2756 (New Rf = .65942)
73) Hexachlorobutadiene              RT: 29.15 Scan: 2748 (New Rf = .37896)
74) 1,2,3-Trichlorobenzene           RT: 29.78 Scan: 2812 (New Rf = .37315)


Done

FMGR : AL, Move cursor; then press carriage return :

FMGR : BLIST,BAAG15

 Sequence File: BAAG15::SC
 -----------------------------------------

 Tune File: MTMSD1

 CR List: D5,D4,D6
 CR Cut-off:  2000 blocks.
                                                   Report Data Archive
                                                  Quant | | ID Archive
 Number of samples:   3                    Sample Size | | | | Output Archive
                                          Bottle      | | | | | | |
 Samp Data File     Sample Name                |      | | | | | | |    Quant ID
  No. Method File   Misc Data                   |      | | | | | | |    Quant Output
 ---- ------------ ------------------------ -------------------  ------------
 001) >AG091        EDO 1091 93EN04R04        0      3 Y M N N N    IDAG1F::SC
      VOA#1         01/07/93                         Dil=1.00000    ^AG091::D3
      REPRT OPTIONS: Label Meth:1, B option, Qion replaces Scan#
 002) >AG092        SF 1077  93SV01R11        0      3 Y M N N N    IDAG1F::SC
      VOA#1         01/07/93 SAMPLE 01/04/93         Dil=1.00000    ^AG092::D3
      REPRT OPTIONS: Label Meth:1, B option, Qion replaces Scan#
 003) >AG093        SF 1077  93SV01R12        0      3 Y M N N N    IDAG1F::SC
      VOA#1         01/07/93                         Dil=1.00000    ^AG093::D3
      REPRT OPTIONS: Label Meth:1, B option, Qion replaces Scan#

 End of sequence file.
```

FMGR : IDLST,IDAG1G

Quant ID File: IDAG1G::SC

Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG

Last EDIT Date: 930106 15:05 Last Calib Date: 921223 14:04
Last Qcal Date: 930114 13:10 Calib File: CBAG01::SC
Qcal File: ^AG105:14906:D3

RT Window (+min -%)	.5000	Subtraction Method	2
Max Hits/Compound	1	Ignore max check	NO
Minimum Area	1000	Auto Qdel Method	5
Peak/Base Peak Ratio	35.00 %	Quantitate Using	AREA
Up Slope Sensitivity	-.500000	Units of Conc	UG/L
Down Slope Sensitivity	.0000000	Bunching	1

Number of Compounds: 74

Comp No.	Compound Name	(Type)	Retention Time Min.	(Rel)	R.F.	Conc.	
1)	*FLUOROBENZENE	(I)	13.15	(1.000)	1.00000	10.00	**
2)	Dichlorodifluoromethane	(T)	2.50	(.190)	.15251	50.00	**
3)	Chloromethane	(T)	2.91	(.222)	.23117	50.00	
4)	Vinyl chloride	(T)	3.16	(.240)	.21217	50.00	**
5)	Bromomethane	(T)	3.97	(.302)	.10883	50.00	
6)	Chloroethane	(T)	4.28	(.325)	.06563	50.00	**
7)	Trichlorofluoromethane	(T)	4.97	(.378)	.23323	50.00	
8)	Acrolein	(T)	6.43	(.489)	.00950	250.00	
9)	1,1-Dichloroethene	(M)	6.46	(.491)	.22388	50.00	
10)	Acetone	(T)	6.97	(.530)	.14663	250.00	**
11)	Carbon disulfide	(T)	6.77	(.515)	.52486	50.00	**
12)	Methylene chloride	(T)	7.94	(.604)	.12772	50.00	
13)	trans-1,2-Dichloroethene	(T)	8.53	(.649)	.21637	50.00	
14)	Acrylonitrile	(T)	8.69	(.661)	.08287	250.00	
15)	1,1-Dichloroethane	(T)	9.53	(.724)	.43511	50.00	
16)	Vinyl acetate	(T)	9.87	(.750)	.30911	100.00	
17)	2,2-Dichloropropane	(T)	10.72	(.815)	.25770	50.00	
18)	cis-1,2-Dichloroethene	(T)	10.81	(.822)	.17428	50.00	
19)	2-Butanone	(T)	11.01	(.838)	.12079	250.00	**
20)	Bromochloromethane	(T)	11.29	(.859)	.13944	50.00	**
21)	Chloroform	(T)	11.58	(.881)	.54143	50.00	**
22)	1,1,1-Trichloroethane	(T)	11.74	(.893)	.37801	50.00	**
23)	Carbon tetrachloride	(T)	12.05	(.917)	.29186	50.00	**
24)	1,1-Dichloropropene	(T)	12.11	(.921)	.39268	50.00	
25)	BENZENE-D6	(S)	12.44	(.946)	1.08329	10.00	
26)	Benzene	(M)	12.51	(.951)	1.06650	50.00	
27)	1,2-Dichloroethane	(T)	12.65	(.962)	.44716	50.00	**
28)	*TOLUENE-D8	(I)	16.29	(1.000)	1.00000	10.00	**
29)	Trichloroethene	(M)	13.86	(.851)	.42020	50.00	
30)	1,2-Dichloropropane	(T)	14.32	(.879)	.34793	50.00	**
31)	Dibromomethane	(T)	14.55	(.894)	.23948	50.00	**
32)	2-Chloroethyl vinylether	(T)	15.48	(.950)	.01099	50.00	
33)	Bromodichloromethane	(T)	14.95	(.918)	.38943	50.00	
34)	cis-1,3-Dichloropropene	(T)	15.84	(.972)	.44595	25.20	**
35)	Toluene	(M)	16.42	(1.008)	.61268	50.00	
36)	4-Methyl-2-pentanone	(T)	16.23	(.996)	.39482	100.00	
37)	trans-1,3-Dichloropropene	(T)	17.01	(1.045)	.36615	22.32	
38)	Tetrachloroethene	(T)	17.47	(1.073)	.31284	50.00	

39)	1,[illegible]-Trichloroethane	[illegible]	[illegible]	(1.065)	.02418	50.00	
40)	1,3-Dichloropropane	(T)	17.65	(1.084)	.46012	50.00	
41)	2-Hexanone	(T)	17.93	(1.101)	.34669	100.00	**
42)	Dibromochloromethane	(T)	18.08	(1.110)	.27757	50.00	**
43)	1,2-Dibromoethane	(T)	18.24	(1.120)	.27764	50.00	**
44)	*CHLOROBENZENE-D5	(I)	19.21	(1.000)	1.00000	10.00	
45)	Chlorobenzene	(M)	19.26	(1.003)	.98350	50.00	
46)	1,1,1,2-Tetrachloroethane	(T)	19.49	(1.015)	.31461	50.00	**
47)	Ethylbenzene	(T)	19.54	(1.017)	1.58757	50.00	**
48)	m &/or p-Xylene	(T)	19.80	(1.031)	.55126	100.00	**
49)	o-Xylene	(T)	20.61	(1.073)	.56658	50.00	
50)	Styrene	(T)	20.67	(1.076)	.76700	50.00	
51)	Bromoform	(T)	21.03	(1.095)	.26245	50.00	**
52)	Isopropylbenzene	(T)	21.43	(1.116)	1.50646	50.00	**
53)	p-BROMOFLUOROBENZENE	(S)	21.74	(1.132)	.46008	10.00	**
54)	Bromobenzene	(T)	21.99	(1.145)	.43093	50.00	**
55)	1,2,3-Trichloropropane	(T)	22.24	(1.158)	.36976	50.00	**
56)	1,1,2,2-Tetrachloroethane	(T)	22.21	(1.156)	.15756	50.00	**
57)	n-Propylbenzene	(T)	22.32	(1.162)	.37902	50.00	**
58)	2-Chlorotoluene	(T)	22.45	(1.169)	.36186	50.00	**
59)	4-Chlorotoluene	(T)	22.70	(1.182)	.35541	50.00	**
60)	1,3,5-Trimethylbenzene	(T)	22.74	(1.184)	1.19840	50.00	
61)	tert-Butylbenzene	(T)	23.42	(1.219)	.98268	50.00	
62)	1,2,4-Trimethylbenzene	(T)	23.54	(1.225)	1.21813	50.00	
63)	sec-Butylbenzene	(T)	23.90	(1.245)	1.61397	50.00	
64)	1,3-Dichlorobenzene	(T)	24.07	(1.253)	.73156	50.00	**
65)	1,4-Dichlorobenzene	(T)	24.29	(1.265)	.59678	50.00	**
66)	p-Isopropyltoluene	(T)	24.26	(1.263)	1.20766	50.00	
67)	1,2-DICHLOROBENZENE-D4	(S)	25.04	(1.304)	.46787	10.00	**
68)	1,2-Dichlorobenzene	(T)	25.08	(1.306)	.70127	50.00	
69)	n-Butylbenzene	(T)	25.17	(1.311)	1.33724	50.00	
70)	1,2-Dibromo-3-chloropropane	(T)	26.88	(1.399)	.05845	50.00	**
71)	1,2,4-Trichlorobenzene	(T)	28.71	(1.495)	.45793	50.00	**
72)	Naphthalene	(T)	29.22	(1.521)	.68681	50.00	
73)	Hexachlorobutadiene	(T)	29.14	(1.517)	.43670	50.00	**
74)	1,2,3-Trichlorobenzene	(T)	29.78	(1.551)	.42064	50.00	**

* Compound is ISTD
** Compound uses different Quant parameters

```
FMGR : BLIST,BAAG14

 Sequence File: BAAG14::SC
 -----------------------------------------

 Tune File: MTMSD1

 CR List: D5,D4,D6
 CR Cut-off:   500 blocks.
                                                      Report Data Archive
                                                     Quant | | ID Archive
 Number of samples:   3                    Sample Size | | | | Output Archive
                                          Bottle      | | | | | |
 Samp Data File     Sample Name                |      | | | | | |     Quant ID
  No. Method File   Misc Data                   |      | | | | | |     Quant Output
 ---- ------------ ------------------------ -------------------  ------------
 001) >AG089        50 PPB CC STD              0      3 Y M N N N     IDAG1F::SC
      VOA#1         1/7/93 HP MS#4, 5mL PURG        Dil=1.00000     ^AG089::D3
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.000
      REPRT OPTIONS: Qion replaces Scan#
 002) >AG090        010793BLK1                 0      3 Y M N N N     IDAG1F::SC
      VOA#1         1/7/93 HP MS#4, METHOD B        Dil=1.00000     ^AG090::QT
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.000
      REPRT OPTIONS: Qion replaces Scan#
 003) >XXX91        BAKEOUT                    0      3 N N N N N
      BO#1          1/7/93 HP MS#4, METHOD B        Dil=1.00000
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.000
      REPRT OPTIONS: Qion replaces Scan#

 End of sequence file.
```

```
FMGR : BLIST,BAAG16

 Sequence File: BAAG16::SC
 -----------------------------------------

 Tune File: MTMSD1

 CR List: D5,D4,D6
 CR Cut-off:  2000 blocks.
                                                   Report Data Archive
                                                  Quant | | ID Archive
 Number of samples:  10                     Sample Size | | | | Output Archive
                                           Bottle      | | | | | | |
 Samp Data File     Sample Name                |      | | | | | | |    Quant ID
  No. Method File   Misc Data                   |      | | | | | | |    Quant Output
 ---- ------------ ------------------------ -------------------  ------------
 001) >AG094        93SV01R13                  0      3 Y M N N N    IDAG1F::SC
      VOA#1         1/7/93 HP MS#4, 5mL PURG         Dil=1.00000    ^AG094::D3
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.000
      REPRT OPTIONS: Qion replaces Scan#
 002) >AG095        EDO 1091 93EN04S02         0      3 Y M N N N    IDAG1F::SC
      VOA#1         1/7/93, 5mL PURGE                Dil=1.00000    ^AG095::D3
      REPRT OPTIONS: Label Meth:1, B option, Scale time: 2.000
      REPRT OPTIONS: Qion replaces Scan#
 003) >AG096        EDO1091 93EN04S02MS        0      3 Y M N N N    IDAG1F::SC
      VOA#1         1/7/93, 5mL PURGE                Dil=1.00000    ^AG096::D3
      REPRT OPTIONS: Label Meth:1, B option, Scale time: 2.000
      REPRT OPTIONS: Qion replaces Scan#
 004) >AG097        EDO1091 93EN04S02MSD       0      3 Y M N N N    IDAG1F::SC
      VOA#1         1/7/93, 5mL PURGE                Dil=1.00000    ^AG097::D3
      REPRT OPTIONS: Label Meth:1, B option, Scale time: 2.000
      REPRT OPTIONS: Qion replaces Scan#
 005) >AG098        93SV01D09                  0      3 Y M N N N    IDAG1F::SC
      VOA#1         1/7/93, 5mL PURGE                Dil=1.00000    ^AG098::D3
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.000
      REPRT OPTIONS: Qion replaces Scan#
 006) >AG099        93SV01S17                  0      3 Y M N N N    IDAG1F::SC
      VOA#1         1/7/93, 5mL PURGE                Dil=1.00000    ^AG099::D3
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.000
      REPRT OPTIONS: Qion replaces Scan#
 007) >AG100        93SV01S18                  0      3 Y M N N N    IDAG1F::SC
      VOA#1         1/7/93, 5mL PURGE                Dil=1.00000    ^AG100::D3
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.000
      REPRT OPTIONS: Qion replaces Scan#
 008) >AG101        93SV01S19                  0      3 Y M N N N    IDAG1F::SC
      VOA#1         1/7/93, 5mL PURGE                Dil=1.00000    ^AG101::D3
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.000
      REPRT OPTIONS: Qion replaces Scan#
 009) >AG102        93SV01S20                  0      3 Y M N N N    IDAG1F::SC
      VOA#1         1/7/93, 5mL PURGE                Dil=1.00000    ^AG102::QT
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.000
      REPRT OPTIONS: Qion replaces Scan#
 010) >XXX03        BAKEOUT                    0      3 N N N N N    IDAG1F::SC
      BO#1          1/7/93, 5mL PURGE                Dil=1.00000
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.000
      REPRT OPTIONS: Qion replaces Scan#

 End of sequence file.
```

```
FMGR : BLIST,BAAG17

 Sequence File: BAAG17::SC
 -----------------------------------------

 Tune File: MTMSD1

 CR List: D5,D4,D6
 CR Cut-off:  2000 blocks.
                                                        Report Data Archive
                                                       Quant | | ID Archive
 Number of samples:   3                     Sample Size | | | | Output Archive
                                           Bottle      | | | | | |
 Samp Data File     Sample Name                |      | | | | | |    Quant ID
  No. Method File   Misc Data                   |      | | | | | |    Quant Output
 ---- ------------ ------------------------ ------------------  ------------
 001) >AG105        50 PPB CC STD              0      3 Y M N N N    IDAG1G::SC
      VOA#1         1/14/93 HP MS#4, 5mL PUR        Dil=1.00000    ^AG105::D3
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.000
      REPRT OPTIONS: Qion replaces Scan#
 002) >AG106        011493BLK1                 0      3 Y M N N N    IDAG1G::SC
      VOA#1         1/14/93 HP MS#4, 5mL PUR        Dil=1.00000    ^AG106::D3
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.000
      REPRT OPTIONS: Qion replaces Scan#
 003) >XXX07        BAKEOUT                    0      3 N N N N N    IDAG1G::SC
      BO#1          1/14/93 HP MS#4, 5mL PUR        Dil=1.00000
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.000
      REPRT OPTIONS: Qion replaces Scan#

 End of sequence file.
```

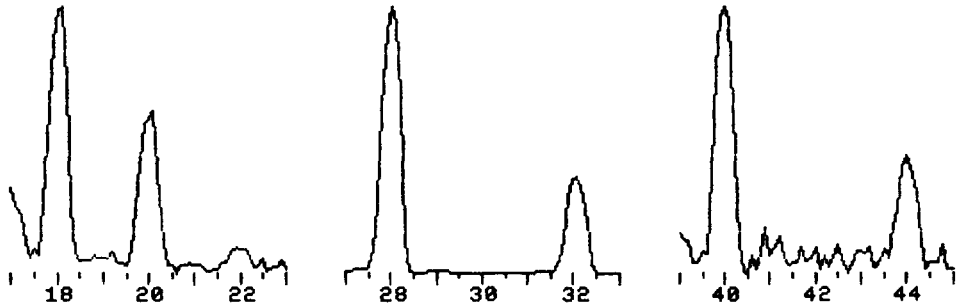
```
FMGR : BLIST,BAAG18

 Sequence File: BAAG18::SC
 ------------------------------------------

 Tune File: MTMSD1

 CR List: D5,D4,D2
 CR Cut-off:  2000 blocks.
                                                   Report Data Archive
                                                  Quant | | ID Archive
 Number of samples:   6                   Sample Size | | | | Output Archive
                                         Bottle     | | | | | |
 Samp Data File     Sample Name                |     | | | | | |    Quant ID
  No. Method File   Misc Data                   |     | | | | | |    Quant Output
 ---- ------------ ------------------------ ------------------  ------------
 001) >AG107       93SV01S19MS                0     3 Y M N N N    IDAG1G::SC
      VOA#1        1/14/93 HP MS#4, 1uL SPK        Dil=1.00000    ^AG107::D3
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.000
      REPRT OPTIONS: Qion replaces Scan#
 002) >AG108       93SV01S19MSD               0     3 Y M N N N    IDAG1G::SC
      VOA#1        1/14/93 HP MS#4, 1uL SPK        Dil=1.00000    ^AG108::D3
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.000
      REPRT OPTIONS: Qion replaces Scan#
 003) >AG109       93SV01S19MSRE              0     3 Y M N N N    IDAG1G::SC
      VOA#1        1/14/93 HP MS#4, 1uL SPK        Dil=1.00000    ^AG109::D3
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.000
      REPRT OPTIONS: Qion replaces Scan#
 004) >AG110       93SV01S19MSDRE             0     3 Y M N N N    IDAG1G::SC
      VOA#1        1/14/93 HP MS#4, 1uL SPK        Dil=1.00000    ^AG110::D3
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.000
      REPRT OPTIONS: Qion replaces Scan#
 005) >AG111       93SV01S19 - UNSPKED        0     3 Y M N N N    IDAG1G::SC
      VOA#1        1/14/93 HP MS#4, 5mL PUR        Dil=1.00000    ^AG111::D3
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.000
      REPRT OPTIONS: Qion replaces Scan#
 006) >XXX12       BAKEOUT                    0     3 N N N N N    IDAG1G::SC
      BO#1         1/14/93 HP MS#4, 5mL PUR        Dil=1.00000
      REPRT OPTIONS: Label Meth:4, B option, Scale time: 2.000
      REPRT OPTIONS: Qion replaces Scan#

 End of sequence file.
```

Tune file: LEAK1
(as tuning parameter as
MTMSD1) ~ ag 1/14/93

PROFILE SCAN ver 830402

INST # 1: HP MS#4 TYPE: 5970 DATE: 1/14/93 10:06

Repeller (V)	10.2	X - Ray (V)	76.0	AMU Offset	52
Ion Focus (V)	0.0	EM Volts (V)	1913	Mass Gain	57
Ent Lens (mV)	50	AMU Gain	150	Mass Offset	11



MASS	ABUND	REL. ABUND	FWHM	ISO FWHM
18.10	687.	6.84	.440	3.090
28.00	10048.	100.00	.460	.520
40.00	226.	2.25	.490	.660

QUANT REPORT

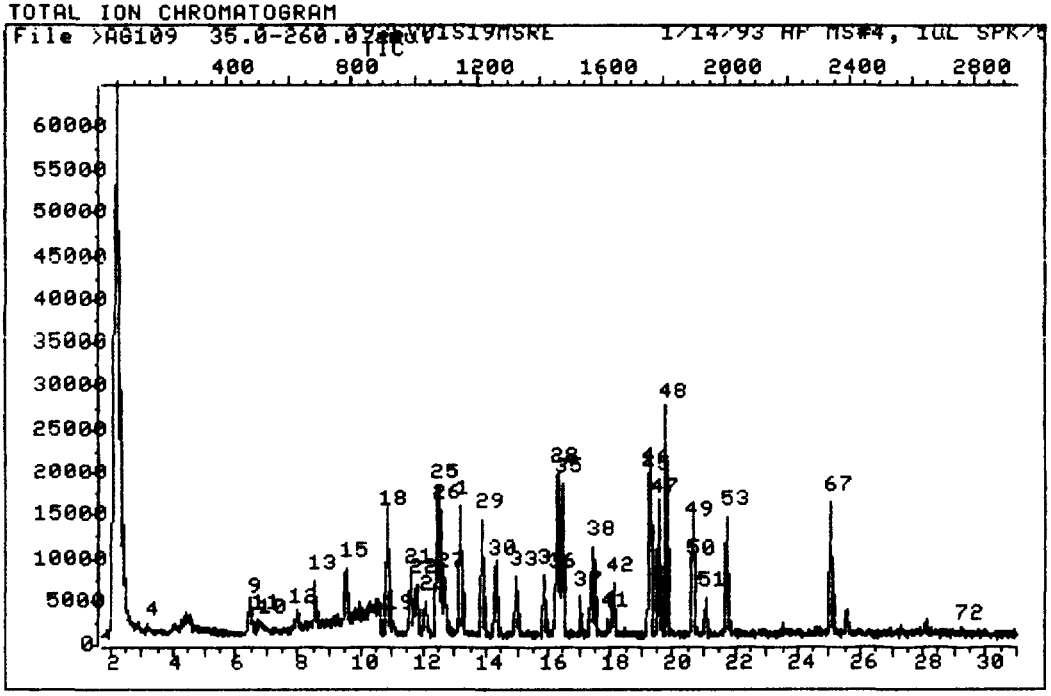
Operator ID: KELLY Quant Rev: 7 Quant Time: 930114 16:28
Output File: ^AG109::D3 Injected at: 930114 15:55
Data File: >AG109::D5 Dilution Factor: 1.00000
Name: 93SV01S19MSRE Instrument ID: HP MS#4
Misc: 1/14/93 HP MS#4, 1uL SPK/5mL PURGE

ID File: IDAG1G::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921223 14:04 Last Qcal Time: 930114 13:10

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.15	96.0	31383	10.00	UG/L	99
4)	Vinyl chloride	3.17	62.0	1396	2.10	UG/L	94
9)	1,1-Dichloroethene	6.44	96.0	5122	7.29	UG/L	86
10)	Acetone	6.93	43.0	3288	7.15	UG/L	97
11)	Carbon disulfide	6.76	76.0	9504	5.77	UG/L	97
12)	Methylene chloride	7.91	84.0	3170	7.91	UG/L	86
13)	trans-1,2-Dichloroethene	8.52	96.0	5356	7.89	UG/L	92
15)	1,1-Dichloroethane	9.52	63.0	17941	13.14	UG/L	90
18)	cis-1,2-Dichloroethene	10.80	96.0	16045	29.34	UG/L	93
19)	2-Butanone	11.02	43.0	4370	11.53	UG/L	63
21)	Chloroform	11.59	83.0	14552	8.56	UG/L	93
22)	1,1,1-Trichloroethane	11.75	97.0	10883	9.17	UG/L	93
23)	Carbon tetrachloride	12.06	117.0	6372	6.96	UG/L	87
25)	BENZENE-D6	12.44	84.0	35700	10.50	UG/L	99
26)	Benzene	12.52	78.0	28580	8.54	UG/L	97
27)	1,2-Dichloroethane	12.66	62.0	12542	8.94	UG/L	90
28)	*TOLUENE-D8	16.28	98.0	29545	10.00	UG/L	94
29)	Trichloroethene	13.86	95.0	11898	9.58	UG/L	92
30)	1,2-Dichloropropane	14.31	63.0	8784	8.55	UG/L	82
33)	Bromodichloromethane	14.95	83.0	10107	8.78	UG/L	96
34)	cis-1,3-Dichloropropene	15.83	75.0	9761	7.41	UG/L	91
35)	Toluene	16.40	92.0	17416	9.62	UG/L	94
36)	4-Methyl-2-pentanone	16.22	43.0	8001	6.86	UG/L	96
37)	trans-1,3-Dichloropropene	17.00	75.0	6355	5.87	UG/L	96
38)	Tetrachloroethene	17.47	166.0	8343	9.03	UG/L	91
41)	2-Hexanone	17.92	43.0	3885	3.79	UG/L	85
42)	Dibromochloromethane	18.07	129.0	6743	8.22	UG/L	94
44)	*CHLOROBENZENE-D5	19.20	117.0	20905	10.00	UG/L	97
45)	Chlorobenzene	19.25	112.0	17793	8.65	UG/L	92
47)	Ethylbenzene	19.52	91.0	27721	8.35	UG/L	91
48)	m &/or p-Xylene	19.78	106.0	17876	15.51	UG/L	84
49)	o-Xylene	20.59	106.0	8306	7.01	UG/L	97
50)	Styrene	20.65	104.0	6369	3.97	UG/L	85
51)	Bromoform	21.01	173.0	4386	7.99	UG/L	94
53)	p-BROMOFLUOROBENZENE	21.73	174.0	9882	10.27	UG/L	97
67)	1,2-DICHLOROBENZENE-D4	25.03	152.0	10554	10.79	UG/L	85
72)	Naphthalene	29.22	128.0	1019	.710	UG/L	100

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AG109::D5 Quant Output File: ^AG109::D3
Name: 93SV01S19MSRE Instrument ID: HP MS#4
Misc: 1/14/93 HP MS#4, 1uL SPK/5mL PURGE

Id File: IDAG1G::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921223 14:04 Last Qcal Time: 930114 13:10

Operator ID: KELLY
Quant Time : 930114 16:28
Injected at: 930114 15:55

QUANT REPORT

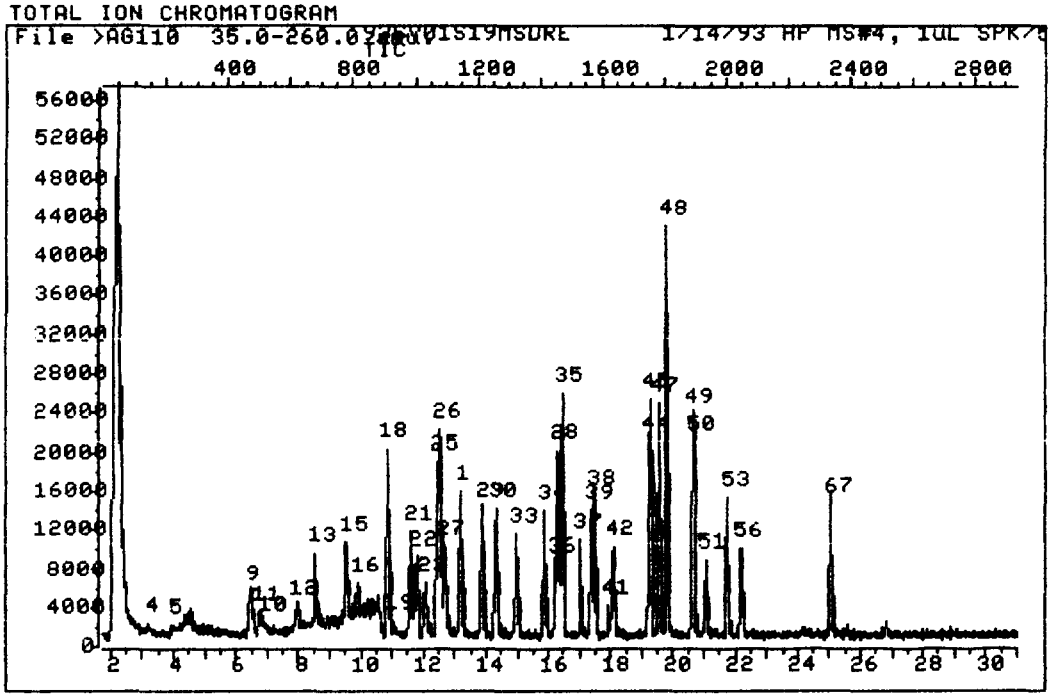
Operator ID: KELLY Quant Rev: 7 Quant Time: 930114 17:07
Output File: ^AG110::D3 Injected at: 930114 16:34
Data File: >AG110::D5 Dilution Factor: 1.00000
Name: 93SV01S19MSDRE Instrument ID: HP MS#4
Misc: 1/14/93 HP MS#4, 1uL SPK/5mL PURGE

ID File: IDAG1G::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921223 14:04 Last Qcal Time: 930114 13:10

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.14	96.0	31409	10.00	UG/L	93
4)	Vinyl chloride	3.15	62.0	2030	3.05	UG/L	99
5)	Bromomethane	3.95	94.0	2084	6.10	UG/L	89
9)	1,1-Dichloroethene	6.43	96.0	6850	9.74	UG/L	91
10)	Acetone	6.92	43.0	1589	3.45	UG/L	87
11)	Carbon disulfide	6.76	76.0	13528	8.21	UG/L	92
12)	Methylene chloride	7.92	84.0	4901	12.22	UG/L	90
13)	trans-1,2-Dichloroethene	8.52	96.0	7843	11.54	UG/L	97
15)	1,1-Dichloroethane	9.52	63.0	23735	17.37	UG/L	98
16)	Vinyl acetate	9.86	43.0	15870	16.35	UG/L	100
18)	cis-1,2-Dichloroethene	10.81	96.0	20182	36.87	UG/L	96
19)	2-Butanone	11.01	43.0	6458	17.02	UG/L	76
21)	Chloroform	11.58	83.0	21135	12.43	UG/L	92
22)	1,1,1-Trichloroethane	11.74	97.0	15816	13.32	UG/L	94
23)	Carbon tetrachloride	12.05	117.0	10189	11.11	UG/L	88
25)	BENZENE-D6	12.44	84.0	35305	10.38	UG/L	99
26)	Benzene	12.51	78.0	40860	12.20	UG/L	95
27)	1,2-Dichloroethane	12.66	62.0	18616	13.25	UG/L	98
28)	*TOLUENE-D8	16.27	98.0	30263	10.00	UG/L	95
29)	Trichloroethene	13.86	95.0	12044	9.47	UG/L	86
30)	1,2-Dichloropropane	14.31	63.0	13260	12.59	UG/L	98
33)	Bromodichloromethane	14.95	83.0	16000	13.58	UG/L	95
34)	cis-1,3-Dichloropropene	15.83	75.0	17163	12.72	UG/L	92
35)	Toluene	16.41	92.0	25060	13.52	UG/L	90
36)	4-Methyl-2-pentanone	16.21	43.0	11696	9.79	UG/L	88
37)	trans-1,3-Dichloropropene	17.00	75.0	12298	11.10	UG/L	97
38)	Tetrachloroethene	17.46	166.0	12564	13.27	UG/L	99
39)	1,1,2-Trichloroethane	17.34	132.0	1068	14.60	UG/L	96
41)	2-Hexanone	17.92	43.0	5715	5.45	UG/L	79
42)	Dibromochloromethane	18.07	129.0	11689	13.92	UG/L	97
44)	*CHLOROBENZENE-D5	19.20	117.0	21366	10.00	UG/L	97
45)	Chlorobenzene	19.25	112.0	26797	12.75	UG/L	93
47)	Ethylbenzene	19.53	91.0	42589	12.56	UG/L	95
48)	m &/or p-Xylene	19.79	106.0	27920	23.70	UG/L	81
49)	o-Xylene	20.60	106.0	13200	10.90	UG/L	99
50)	Styrene	20.65	104.0	17297	10.55	UG/L	95
51)	Bromoform	21.01	173.0	8608	15.35	UG/L	93
53)	p-BROMOFLUOROBENZENE	21.73	174.0	10109	10.28	UG/L	92
56)	1,1,2,2-Tetrachloroethane	22.19	83.0	13199	39.21	UG/L	90
67)	1,2-DICHLOROBENZENE-D4	25.02	152.0	9694	9.70	UG/L	94

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AG110::D5 Quant Output File: ^AG110::D3
Name: 93SV01S19MSDRE Instrument ID: HP MS#4
Misc: 1/14/93 HP MS#4, 1uL SPK/5mL PURGE

Id File: IDAG1G::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921223 14:04 Last Qcal Time: 930114 13:10

Operator ID: KELLY
Quant Time : 930114 17:07
Injected at: 930114 16:34

QUANT REPORT

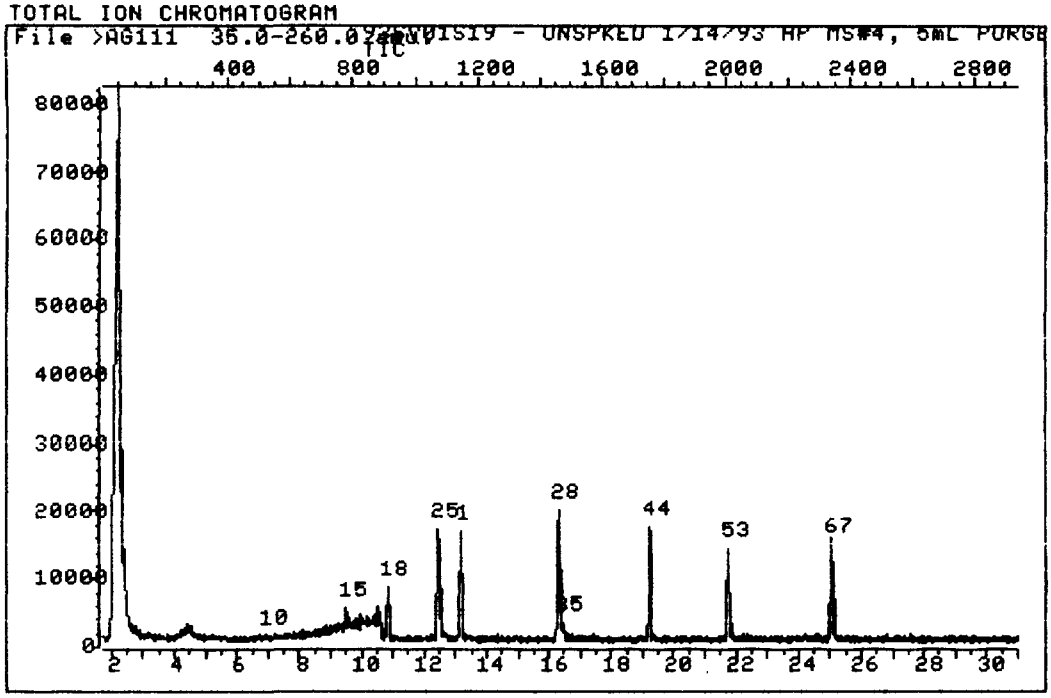
Operator ID: KELLY Quant Rev: 7 Quant Time: 930114 17:46
Output File: ^AG111::D3 Injected at: 930114 17:13
Data File: >AG111::D5 Dilution Factor: 1.00000
Name: 93SV01S19 - UNSPKED Instrument ID: HP MS#4
Misc: 1/14/93 HP MS#4, 5mL PURGE

ID File: IDAG1G::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921223 14:04 Last Qcal Time: 930114 13:10

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*FLUOROBENZENE	13.13	96.0	33456	10.00	UG/L	99
10)	Acetone	6.91	43.0	1800	3.67	UG/L	61
15)	1,1-Dichloroethane	9.51	63.0	7491	5.15	UG/L	97
18)	cis-1,2-Dichloroethene	10.81	96.0	8639	14.82	UG/L	99
25)	BENZENE-D6	12.44	84.0	36762	10.14	UG/L	97
28)	*TOLUENE-D8	16.28	98.0	30156	10.00	UG/L	95
35)	Toluene	16.42	92.0	2556	1.38	UG/L	88
44)	*CHLOROBENZENE-D5	19.19	117.0	21909	10.00	UG/L	95
53)	p-BROMOFLUOROBENZENE	21.72	174.0	10258	10.18	UG/L	95
67)	1,2-DICHLOROBENZENE-D4	25.03	152.0	10041	9.80	UG/L	90

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >AG111::D5 Quant Output File: ^AG111::D3
Name: 93SV01S19 - UNSPKED Instrument ID: HP MS#4
Misc: 1/14/93 HP MS#4, 5mL PURGE

Id File: IDAG1G::SC
Title: ID FILE FOR EXTENDED VOA METHOD 524.2 12/02/91 RW/AG
Last Calibration: 921223 14:04 Last Qcal Time: 930114 13:10

Operator ID: KELLY
Quant Time : 930114 17:46
Injected at: 930114 17:13

MTMSD1

Repeller	(0 - 10.2 V)	10.20	Ion Focus	(0 - 204 V)	0
Ent. lens	(0 - 255 mv/AMU)	50	X - ray	(0 - 204 V)	76
El. Mult	(0 - 3000 V)	1913			
AMU Gain	(0 - 255)	150	AMU Offset	(0 - 255)	52
Axis Gain	(0 - +/- 999)	57	Axis Offset	(0 - +/- 999)	11

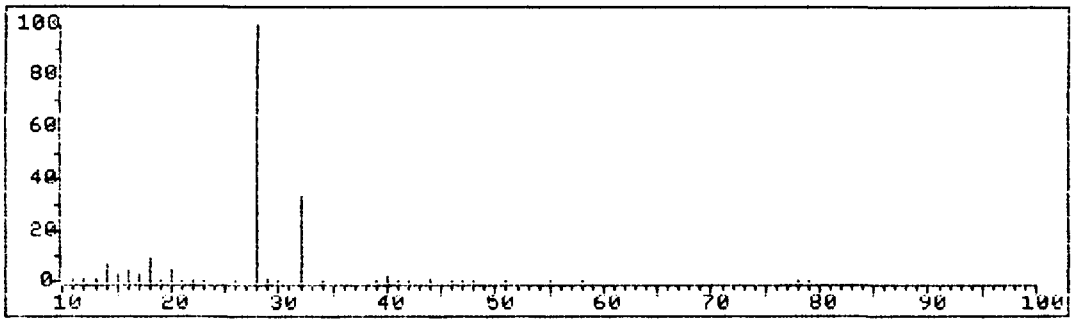
LEAK 1

Repeller	(0 - 10.2 V)	10.20	Ion Focus	(0 - 204 V)	0
Ent. lens	(0 - 255 mv/AMU)	50	X - ray	(0 - 204 V)	76
El. Mult	(0 - 3000 V)	1913			
AMU Gain	(0 - 255)	150	AMU Offset	(0 - 255)	52
Axis Gain	(0 - +/- 999)	57	Axis Offset	(0 - +/- 999)	11

LEAK1

INST # 1: HP MS#4 TYPE: 5970 DATE: 1/05/93

Mass Range	10- 100			Peaks detected	
Base Peak	28.00	Abundance	11011	Total Ab.	
Samples / A.D.	16	Integration	50	Threshold	

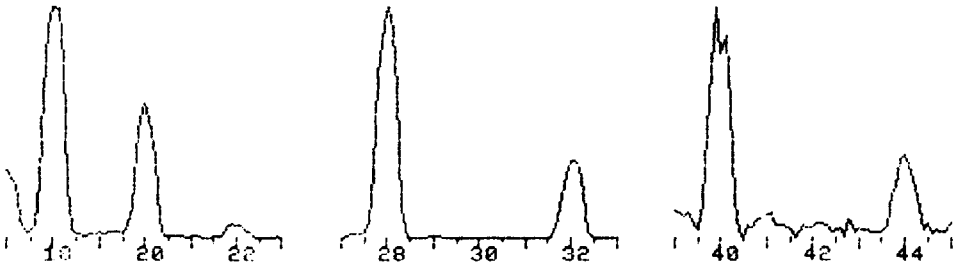


Mass	Abund	Rel. Abund	Iso Mass	Iso Abund	Iso
20.00	597	5.05	21.10	49	8
38.05	23	.19	0.00	0	0
41.95	18	.15	0.00	0	0

PROFILE SCAN ver 830402

INST # 1: HP MS#4 TYPE: 5970 DATE: 1/05/93

Repeller (V)	10.2	X Ray	(V)	76.0	AMU Offset
Ion Focus (V)	0.0	EM Volts	(V)	1913	Mass Gain
Ent Lens (mV)	50	AMU Gain		150	Mass Offset



MASS	ABUND	REL. ABUND	FWHM	ISO FWHM
18.00	1192.	9.20	.480	1.660
28.00	12957.	100.00	.470	.450
39.90	290.	2.24	.500	.880