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VOLUME IV

REVISED
REMEDIAL INVESTIGATION REPORT
JASCO CHEMICAL CORPORATION
MOUNTAIN VIEW, CALIFORNIA

APPENDIX H - LABORATORY REPORTS AND QA/QC ANALYSES
OF GROUNDWATER SAMPLES, 1984 TO 1988

Prepared by:
OHM Remediation Services Corp.
Sacramento, California

On behalf of:
Jasco Chemical Corporation
Mountain View, California

February 1, 1991

REVISED
RI REPORT

JASCO
CHEMICAL
CORP.

MOUNTAIN
VIEW,
CA

VOLUME
IV

February 1
1991

SFUND RECORDS CTR
88053503

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REMEDIAL INVESTIGATION REPORT
JASCO CHEMICAL CORPORATION
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OF GROUNDWATER SAMPLES, 1984 TO 1988

Prepared by:
OHM Remediation Services Corp.
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Mountain View, California

February 1, 1991

APPENDIX H

LABORATORY REPORTS OF ANALYSES OF GROUNDWATER SAMPLES 1984 TO 1988

5/84
Y-1

TABLE 1

Results Of Chemical Analysis

Analyte	Soil Composite (ug/Kg)	Water (ug/L)	Field Blank (ug/L)
Pentachlorophenol	<10	0.2	<0.1
Purgeable Solvents:			
Requested Compounds			
Acetone	<20	98	<10
Deodorized Kerosene[1]	<1000	<200	<200
Dichloromethane	<20	<5	<5
Ethanol	<100	<20	<20
Isopropanol	<100	<30	<30
Lacquer Thinner[2]	<20	<5	<5
Methanol	<100	95	<30
Paint Thinner[3]	<600	860	<100
Other Compounds[4]			
Methyl ethyl ketone	<30	4	<4
1, 1, 1-Trichloroethane	<5	9	<1
Trichloroethylene	<5	<9	<1
Unidentified peaks	0	0	0

ug? L? Soil? Blank?

1. Parks brand deodorized kerosene
2. JASCO brand lacquer thinner
3. Parks brand paint thinner
4. Compounds detected in samples, but not reportedly stored on JASCO site

ANATEC LABORATORIES INC.

435 Tesconi Circle • Santa Rosa, California 95401 • 707-526-7200

Patrick Casey
Questa Engineering
PO Box 356
Pt. Richmond, CA 94807

October 6, 1986986
ANATEC Log No: 8289 (1-3)
Series No: 216/006
Client Ref: (V) P. Casey

Subject: Analysis of Two Soil and One Water Samples Received August 27, 1986

Dear Mr. Casey:

Analysis of the samples referenced above has been completed. Samples were received by the laboratory in insulated shipping containers. During the laboratory log-in process, samples were noted to be cool, intact and completely and legibly labeled. Each of the soil samples were submitted as three brass rings with directions to form one composite sample for analysis, respectively. The water sample was submitted in each of two types of containers; these were 40-milliliter glass vials with Teflon septa and plastic screw caps, and one-liter amber glass bottles with Teflon capliners and plastic screw caps. The water sample and composite soil sample were analyzed to measure a variety of volatile species including individual compounds and three complex hydrocarbon mixtures. Contents of one-liter bottles were analyzed to measure pentachlorophenol.

Volatile species measurements were made by purge-and-trap sampling gas chromatography. Briefly, reagent helium is bubbled through five milliliter portions of water sample or soil sample-water slurries in a closed system. Helium and volatile organic compounds thus sparged from the sample pass through a "trap" containing various sorbents which retain organic compounds. The trap is subsequently heated and organic compounds thereby desorbed are swept onto the analytical column of a gas chromatograph equipped with a flame ionization detector. Preparation and analysis of samples is accompanied by similar treatment of standards and sample spikes prepared with neat, reagent grade compounds, or, in the case of complex mixtures, reference samples of those mixtures supplied previously with samples. Identification of compounds is based on both absolute and relative retention times; quantitation is based on ratios of sample and standard peak areas (i.e., "external standardization").

Pentachlorophenol analyses were conducted by gas chromatography of the acetate derivative produced by reaction with acetic anhydride. Derivatives are identified and quantitated as for volatile analytes except that the process is conducted with an electron capture rather than flame ionization detector.

Results of testing are summarized in Table 1. Please feel welcome to contact us should you have questions regarding procedures or results.

Sincerely,

Greg Anderson, Director
Analytical Laboratories

Table 1. Summarized Testing Results[1]

Analyte	Descriptor, Lab No. & Results		
	5 to 15 feet Composite (Soil) (8289-1, -2,-3)	20 to 35 feet Composite (Soil) (8289-4,-5,-6)	V32 (Water) (8289-7, -8,-9,-11)
Deodorized kerosene	<400	<400	<100
Lacquer thinner	<200	<200	<50
Paint thinner	1200	<400	<100
Methyl alcohol	<120	<120	<30
Ethyl alcohol	<120	<120	<20
Isopropyl alcohol	<120	<120	<20
Dichloromethane	<50	<50	3200
Acetone	<100	<100	<15
Methyl ethyl ketone	<100	<100	<15
1,1,1-trichloroethane	<50	<50	<6
Trichloroethylene	<50	<50	<6
Pentachlorophenol	200	8.6	1.5

[1]Results are expressed in units of micrograms analyte per kilogram soil sample, as received basis, and micrograms analyte per liter water sample.

Table 3

WESCO Laboratories

Date: December 1, 1986

Client: Questa Engineering

Submitted by: Pat Casey

Report to: Pat Casey

WESCO Job #: QEA 8616

Client Job/P.O. #: Solvent Mixes 11/5/86

Date collected: 11-05-86

Date submitted: 11-05-86

& type of sample(s): 5 Water
9 Soil

Page 1 of 3

depth of water

ANALYTE	NOTE	LAB NUMBERS CLIENT ID 6045 Water V-3	6055 Water V-1	6056 Water V-2
CH2Cl2 (ug/l)	1	7.6	18	142000
TCE (ug/l)	1	< 0.5	N/A	N/A
1,1,1, TCA (ug/l)	1	< 0.5	N/A	N/A
Methyl ethyl ketone (mg/l)	2	< 1	N/A	N/A
Methanol (mg/l)	2	2.7	N/A	N/A
Ethanol (mg/l)	2	< 1	N/A	N/A
Acetone (mg/l)	2	< 1	N/A	N/A
Isopropanol (mg/l)	2	< 1	N/A	N/A
Lacquer Thinner (mg/l)	3	< 0.050	N/A	N/A
Paint Thinner (mg/l)	3	< 0.050	N/A	N/A
Kerosene (mg/l)	3	< 0.100	N/A	N/A

ANALYTE	NOTE	LAB NUMBERS CLIENT ID 6057 Water V-3	6058 Water Field Blank	
CH2Cl2 (ug/l)	1	N/A	4.2	
TCE (ug/l)	1	N/A	< 0.5	
1,1,1, TCA (ug/l)	1	N/A	< 0.5	
Lacquer Thinner (mg/l)	3	N/A	< 0.050	
Paint Thinner (mg/l)	3	N/A	< 0.050	
Kerosene (mg/l)	3	N/A	< 0.100	
Pentachlorophenol (ug/l)	4	50.	N/A	

METHOD(S):

Note 1 - EPA Method 601.
Note 2 - EPA Method 8015.
Note 3 - EPA Method 5020.
Note 4 - EPA Method 604.

Analytical Supervisor

14 Galli Drive, Suite A
Novato, California 94947 415 883-6425
A Division of Western Ecological Services Company

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 12/17/86
Date Received: 12/18/86
Date Extracted: 12/18/86
Date Reported: 12/19/86
Project No. JCO-101A

Sample Number	Sample Description
6121123	Water - JCO-101A V-2

PRIORITY POLLUTANTS

VOLATILE ORGANIC COMPOUNDS

results in ppb

Acrolein	-	trans-1,2-Dichloroethene	< 5.0
Acrylonitrile	-	1,2-Dichloropropane	< 5.0
Benzene	-	1,3-Dichloropropene	< 5.0
Bromomethane	< 5.0	Ethylbenzene	-
Bromodichloromethane	< 5.0	Methylene chloride	30,000
Bromoform	< 5.0	1,1,2,2-Tetrachloroethane	< 5.0
Carbon tetrachloride	< 5.0	Tetrachloroethene	8.0
Chlorobenzene	-	1,1,1-Trichloroethane	540
Chloroethane	170	1,1,2-Trichloroethane	< 5.0
2-Chloroethylvinyl ether	< 5.0	Trichloroethene	19
Chloroform	< 5.0	Toluene	-
Chloromethane	< 5.0	Vinyl chloride	< 5.0
Dibromochloromethane	< 5.0	1,2-Dichlorobenzene	< 5.0
1,1-Dichloroethane	880	1,3-Dichlorobenzene	< 5.0
1,2-Dichloroethane	< 5.0	1,4-Dichlorobenzene	< 5.0
1,1-Dichloroethene	< 5.0		

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

sls

NOTE: Method 601 of the EPA was used for this analysis.

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 12/17/86
Date Received: 12/18/86
Date Extracted: 12/18/86
Date Reported: 12/19/86
Project No. JCO-101A

Sample Number	Sample Description
6121122	Travel Blank

PRIORITY POLLUTANTS

VOLATILE ORGANIC COMPOUNDS
results in ppb

Acrolein		-	trans-1,2-Dichloroethene	<	0.5
Acrylonitrile		-	1,2-Dichloropropane	<	0.5
Benzene		-	1,3-Dichloropropene	<	0.5
Bromomethane	<	0.5	Ethylbenzene		
Bromodichloromethane	<	0.5	✗ Methylene chloride	<	0.5
Bromoform	<	0.5	1,1,2,2-Tetrachloroethane	<	0.5
Carbon tetrachloride	<	0.5	Tetrachloroethene	<	0.5
Chlorobenzene		-	✗ 1,1,1-Trichloroethane	<	0.5
Chloroethane	<	0.5	1,1,2-Trichloroethane	<	0.5
2-Chloroethylvinyl ether	<	0.5	Trichloroethene	<	0.5
Chloroform	<	0.5	✗ Toluene		-
Chloromethane	<	0.5	Vinyl chloride	<	0.5
Dibromochloromethane	<	0.5	1,2-Dichlorobenzene	<	0.5
1,1-Dichloroethane	<	0.5	1,3-Dichlorobenzene	<	0.5
1,2-Dichloroethane	<	0.5	1,4-Dichlorobenzene	<	0.5
1,1-Dichloroethene	<	0.2			

NOTE: Method 601 of the EPA was used for this analysis.

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

sls

Wahler Associates

WA Project Number: _____

Page 1 of 2

Field Sample Chain of Custody Record

Source of Sample(s) _____

Address _____

_____

Phone ( ) _____

Report to (1) Bob Breymaert

Collector Bob Breymaert

Affiliation Wahler Associates

Address 1023 Corporation Way
Palo Alto CA 94303

Phone (415) 968 6250

Sample Information

Lab No.	Field No.	Date	Time	Type (2)	Depth	Remarks (Suspected Contaminants, Field Conditions, etc.)
		/ /				
		/ /				See Attached
		/ /				
		/ /				Analysis Request
		/ /				Sheet
		/ /				
		/ /				
		/ /				

Chain of Possession

	Relinquished by (Signature and affiliation)	Date	Time	Received by (3) (Signature and affiliation)	Date	Ti
1.		/ /			12/15/85	
2.		/ /			/ /	
3.		/ /			/ /	

(1) There is a separate Request for Analysis form that should be filled out by the collec and given to the Laboratory when samples are delivered.

(2) e.g. water, sludge, soil, etc.

(3) If any samples are not intact at time of transfer, please describe on the back of thi form.

Wahler Associates
1023 Corporation Way, P.O. Box 10023, Palo Alto, California 94303
(415) 968-6250 • TELEX 348-427

ANALYSIS REQUEST FORM

Sequoia Date Sample Shipped _____

WAHLER ASSOCIATES will indicate a contact person and phone number which the Lab staff can use to obtain or verify the appropriate analytical requirements.

Your Sample I.D.	Matrix	Container	Analysis Requested
	H_2O	2 VOA glass vials	EPA 601
Travel Blank	H_2O	1 VOA glass vial	EPA 601

Comments turnaround

Contact Person Ed Brennaert (415) 968-6250
Name Telephone

Lab Project Manager (if known) Scott Cocanour

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 01/30/87
Date Received: 01/30/87
Date Extracted: 02/10/87
Date Reported: 02/18/87

Sample Number	Sample Description
7011660	Water, V-3

PRIORITY POLLUTANTS

VOLATILE ORGANIC COMPOUNDS
results in ppb

Acrolein	<100	trans-1,2-Dichloroethene	4.0
Acrylonitrile	<100	1,2-Dichloropropane	< 0.5
Benzene	< 0.5	1,3-Dichloropropene	< 0.5
Bromomethane	< 0.5	Ethylbenzene	< 0.5
Bromodichloromethane	< 0.5	Methylene chloride	< 0.5
Bromoform	< 0.5	1,1,2,2-Tetrachloroethane	< 0.5
Carbon tetrachloride	< 0.5	Tetrachloroethene	< 0.5
Chlorobenzene	< 0.5	1,1,1-Trichloroethane	< 0.5
Chloroethane	< 0.5	1,1,2-Trichloroethane	< 0.5
2-Chloroethylvinyl ether	< 0.5	Trichloroethene	< 0.5
Chloroform	< 0.5	Toluene	< 0.5
Chloromethane	< 0.5	Vinyl chloride	< 0.5
Dibromochloromethane	< 0.5	1,2-Dichlorobenzene	< 0.5
1,1-Dichloroethane	< 0.5	1,3-Dichlorobenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,4-Dichlorobenzene	< 0.5
1,1-Dichloroethene	< 0.2		

SEQUOIA ANALYTICAL LABORATORY

For Arthur G. Burton
Laboratory Director

sls

NOTE: Method 624 of the EPA was used for this analysis.

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 01/30/87
Date Received: 01/30/87
Date Extracted: 02/10/87
Date Reported: 02/18/87

Sample Number	Sample Description
7011660	Water, V-3

- Open Scan -
NON-PRIORITY POLLUTANTS
VOLATILE ORGANIC COMPOUNDS
results in ppb

Acetone	< 1
Ethanol	< 1
Methanol	< 1
Methyl Ethyl Ketone	< 1
Xylenes	< 1

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

sls

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 01/30/87
Date Received: 01/30/87
Date Extracted: 02/03/87
Date Reported: 02/18/87

Sample Number	Sample Description
7011660	Water, V-3

PRIORITY POLLUTANTS

BASE/NEUTRAL EXTRACT ORGANICS

results in ppb

Acenaphthene	< 1
Acenaphthylene	< 1
Anthracene	< 1
Benzo (a) anthracene	< 1
Benzo (b) fluoranthene	< 1
Benzo (k) fluoranthene	< 1
Benzo (a) pyrene	< 1
Benzo (g,h,i) perylene	< 1
Chrysene	< 1
Dibenzo (a,h) anthracene	< 1
Fluoranthene	< 1
Fluorene	< 1
Indeno (1,2,3-c,d) pyrene	< 1
Naphthalene	< 1
Phenanthrene	< 1
Pyrene	< 1
Bis (2-chloroethyl) ether	< 1
Bis (2-chloroethoxy) methane	< 1
Bis (2-ethylhexyl) phthalate	< 1
Bis (2-chloroisopropyl) ether	< 1
4-Bromophenyl phenyl ether	< 1
Butyl benzyl phthalate	< 1
4-Chlorophenyl phenyl ether	< 1
Diethylphthalate	< 1
Dimethylphthalate	<
Di-n-octylphthalate	<
Dibutylphthalate	<
Isophorone	<
Benzidine	< 1(
2,4-Dinitrotoluene	<
2,6-Dinitrotoluene	<
1,2-Diphenylhydrazine	< 1
Nitrobenzene	< 1
N-Nitrosodimethylamine	< 1
N-Nitrosodi-n-Propylamine	< 1
N-Nitrosodiphenylamine	< 1
2-Chloronaphthalene	< 1
1,3-Dichlorobenzene	< 1
1,4-Dichlorobenzene	< 1
1,2-Dichlorobenzene	< 1
3,3-Dichlorobenzidine	< 10
Hexachlorobenzene	< 1
Hexachlorobutadiene	< 1
Hexachloroethane	< 1
Hexachlorocyclopentadiene	< 1
2,3,7,8-Tetrachlorodibenzo-p-dioxin	< 1
1,2,4-Trichlorobenzene	< 1

SEQUOIA ANALYTICAL LABORATORY

For Arthur G. Burton
Laboratory Director

sls

NOTE: Method 625 of the EPA was used for this analysis.

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 01/30/87
Date Received: 01/30/87
Date Extracted: 02/03/87
Date Reported: 02/18/87

Sample Number	Sample Description
7011660	Water, V-3

PRIORITY POLLUTANTS

ACID EXTRACT ORGANICS
results in ppb

4-Chloro-3-methylphenol	< 1
2-Chlorophenol	< 1
2,4-Dichlorophenol	< 1
2,4-Dimethylphenol	< 1
2,4-Dinitrophenol	< 1
2-Methyl-4,6-dinitrophenol	< 1
2-Nitrophenol	< 1
4-Nitrophenol	< 1
Pentachlorophenol	< 1
Phenol	< 1
2,4,6-Trichlorophenol	< 1

SEQUOIA ANALYTICAL LABORATORY

For Arthur G. Burton
Laboratory Director

sls

NOTE: Method 625 of the EPA was used for this analysis.

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

RECEIVED
FEB 23 1987
WAHLER ASSOCIATES

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 01/30/87
Date Received: 01/30/87
Date Reported: 02/18/87

Sample Number	Sample Description
7011660	Water, V3

ANALYSIS

	Detection Limit ppb	Sample Results ppb
Total Hydrocarbons	50	< 50
Benzene	0.5	< 0.5
Toluene	0.5	< 0.5
Xylenes	0.5	< 0.5

NOTE: Analysis was performed using EPA method 602.

SEQUOIA ANALYTICAL LABORATORY

Scott Cocan
For Arthur G. Burton
Laboratory Director

mpr

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 01/30/87
Date Received: 01/30/87
Date Extracted: 02/10/87
Date Reported: 02/18/87

Sample Number	Sample Description
7011661	Travel Blank

PRIORITY POLLUTANTS

VOLATILE ORGANIC COMPOUNDS
results in ppb

Acrolein	<100	trans-1,2-Dichloroethene	< 0.5
Acrylonitrile	<100	1,2-Dichloropropane	< 0.5
Benzene	< 0.5	1,3-Dichloropropene	< 0.5
Bromomethane	< 0.5	Ethylbenzene	< 0.5
Bromodichloromethane	< 0.5	Methylene chloride	< 0.5
Bromoform	< 0.5	1,1,2,2-Tetrachloroethane	< 0.5
Carbon tetrachloride	< 0.5	Tetrachloroethene	< 0.5
Chlorobenzene	< 0.5	1,1,1-Trichloroethane	< 0.5
Chloroethane	< 0.5	1,1,2-Trichloroethane	< 0.5
2-Chloroethylvinyl ether	< 0.5	Trichloroethene	< 0.5
Chloroform	< 0.5	Toluene	< 0.5
Chloromethane	< 0.5	Vinyl chloride	< 0.5
Dibromochloromethane	< 0.5	1,2-Dichlorobenzene	< 0.5
1,1-Dichloroethane	< 0.5	1,3-Dichlorobenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,4-Dichlorobenzene	< 0.5
1,1-Dichloroethene	< 0.2		

SEQUOIA ANALYTICAL LABORATORY

For Arthur G. Burton
Laboratory Director

sls

NOTE: Method 624 of the EPA was used for this analysis.

Wahler Associates

WA Project Number: _____

Field Sample Chain of Custody Record

Source of Sample(s) Mountain View, CA

Collector Bob Breynaert

Address _____

Affiliation WAHLER ASSOCIAT

Address 1023 Corporation Way
Palo Alto 94303

Phone ( )

Report to (1) Bob Breynaert

Phone (415) 968-6250

Sample Information

Lab No.	Field No.	Date	Time	Type (2)	Depth	Remarks (Suspected Contaminants, Field Conditions, etc.)
		/ /				See Attached
		/ /				Analysis Request Shee
		/ /				
		/ /				
		/ /				
		/ /				
		/ /				
		/ /				

Chain of Possession

	Relinquished by (Signature and affiliation)	Date	Time	Received by (3) (Signature and affiliation)	Date	Ti
1.	[signature]	1/30/87	5PM	Ron Evans SAL	1/30/87	5
2.		/ /			/ /	
3.		/ /			/ /	

(1) There is a separate Request for Analysis form that should be filled out by the collect and given to the Laboratory when samples are delivered.
(2) e.g. water, sludge, soil, etc.
(3) If any samples are not intact at time of transfer, please describe on the back of this form.

Wahler Associates
1023 Corporation Way, P.O. Box 10023, Palo Alto, California 94303
(415) 968-6250 • TELEX 348-427

ANALYSIS REQUEST FORM

SEQUOIA Date Sample Shipped 1/30/87

WAHLER ASSOCIATES will indicate a contact person and phone number which the Lab staff can use to obtain or verify the appropriate analytical requirements.

	Your Sample I.D.	Matrix	Container	Analysis Requested
1	V-3	H_2O	1 1l glass Jar	GC/MS open scan. (62
2	V-3	H_2O	1 VOA glass vial	EPA 624 plus. Look for. Acetone, Ethanol, MEK, Methanol, Xylenes.
3	V-3	H_2O	1 VOA glass vial	TOTAL Hydrocarbons, also Look for. Kerosene, Laquer Thinner, Paint Thinner. ⇒ samples of Laquer Thinner and paint Thinner enclosed also.
4	FIELD BLANK	H_2O	~~EPA~~ 1 VOA glass vial	EPA 624 plus look for Acetone, Ethanol, MEK, Methanol, Xylenes.

Comments Turnaround by February 13, 1987 (2 weeks)

Contact Person Bob Breynaert (415) 968-6250
Name Telephone

Lab Project Manager (if known) Scott Cocanour

SCIENTIFIC ENVIRONMENTAL

LABORATORIES, INC.

February 26, 1987
Lab. #TF870381

Wahler Associates
1023 Corporation Way
P.O. Box 10023
Palo Alto, Ca. 94303

Attn: Mr. Bob Breynaert

MAR 20 1987

WAHLER ASSOCIATES

certified analytical report

Sample Received: 2-20-87

Date Collection: 2-20-87

Source: JCO-104 H, V-2 @ 10:35

Analysis	Results (ug/L	Analysis	Results (ug/L)
Bromodichloromethane	< 500	1,2-Dichloroethane	2580
Bromoform	< 500	1,1-Dichloroethene	< 500
Bromomethane	< 500	Trans-1,2-Dichloroethene	< 500
Carbon Tetrachloride	< 500	1,2-Dichloropropane	< 500
Chlorobenzene	< 500	cis-1,3-Dichloropropene	< 500
Chloroethane	< 500	Trans-1,3-Dichloropropene	< 500
2-Chloroethylvinyl Ether	< 500	Methylene Chloride	86000
Chloroform	< 500	1,1,2,2-Tetrachloroethane	< 500
Chloromethane	< 500	Tetrachloroethene	< 500
Dibromochloromethane	< 500	1,1,1-Trichloroethane	2040
1,2-and/or-1,4-Dichlorobenzene	< 500	1,1,2-Trichloroethane	< 500
1,3-Dichlorobenzene	< 500	Trichloroethene	< 500
1,1-Dichloroethane	< 500	Vinyl Chloride	< 500

Note: Sample was diluted 1 to 500 x, therefore Detection Limit increased by 500 x.

Shui Fong
Director, Water Laboratory

SF:dc
cc: Mr. Dan Thomas

Wahler Associates

WA Project Number: JCO-104H

Field Sample Chain of Custody Record

Source of Sample(s) Mountain View, CA

Address

Phone ( )

Report to (1) Bob Breynaert

Collector Bob Breynaert

Affiliation Wahler Associates

Address 1023 Corporation Way
Palo Alto CA 94303

Phone (415) 968-6250

Sample Information

Lab No.	Field No.	Date	Time	Type (2)	Depth	Remarks (Suspected Contaminants, Field Conditions, etc.)
		/ /				See Attached analysis
		/ /				request sheet
		/ /				
		/ /				
		/ /				
		/ /				
		/ /				
		/ /				

Chain of Possession

	Relinquished by (Signature and affiliation)	Date	Time	Received by (3) (Signature and affiliation)	Date	Time
1.	[signature]	2 R0186	2:10pm	[signature] STLI	2120BL	2:13
2.		/ /			/ /	
3.		/ /			/ /	

(1) There is a separate Request for Analysis form that should be filled out by the collector and given to the Laboratory when samples are delivered.
(2) e.g. water, sludge, soil, etc.
(3) If any samples are not intact at time of transfer, please describe on the back of this form.

Wahler Associates
1023 Corporation Way, P.O. Box 10023, Palo Alto, California 94303
(415) 968-6250 • TELEX 348-427

ANALYSIS REQUEST FORM

Scientific Environmental Date Sample Shipped 2/20/87

WAHLER ASSOCIATES will indicate a contact person and phone number which the Lab staff can use to obtain or verify the appropriate analytical requirements.

Your Sample I.D.	Matrix	Container	Analysis Requested
JCO-104H, V-2	H_2O	2 VOA glass vials	EPA 601
F.BLANK	H_2O	1 VOA glass vial	EPA 601

Comments Written Turnaround no later Than wednesday 2/25/87 as negotiated by Dan Thomas and Shui Fong on Friday 2/20/87

Contact Person Bob Breynaert (415)
Name Telephone

Lab Project Manager (if known) _____

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: -
Date Received: 03/02/87
Date Extracted: 03/09/87
Date Reported: 03/17/87
Project No. JCO-104A

Sample Number	Sample Description
7030004	Water, V-2

PRIORITY POLLUTANTS

VOLATILE ORGANIC COMPOUNDS
results in ppb

Acrolein	-	trans-1,2-Dichloroethene	< 5.0
Acrylonitrile	-	1,2-Dichloropropane	< 5.0
Benzene	-	1,3-Dichloropropene	< 5.0
Bromomethane	< 5.0	Ethylbenzene	-
Bromodichloromethane	< 5.0	Methylene chloride	1,600
Bromoform	< 5.0	1,1,2,2-Tetrachloroethane	< 5.0
Carbon tetrachloride	< 5.0	Tetrachloroethene	< 5.0
Chlorobenzene	-	1,1,1-Trichloroethane	610
Chloroethane	80	1,1,2-Trichloroethane	< 5.0
2-Chloroethylvinyl ether	< 5.0	Trichloroethene	< 5.0
Chloroform	< 5.0	Toluene	-
Chloromethane	< 5.0	Vinyl chloride	< 5.0
Dibromochloromethane	< 5.0	1,2-Dichlorobenzene	< 5.0
1,1-Dichloroethane	1,200	1,3-Dichlorobenzene	< 5.0
1,2-Dichloroethane	< 5.0	1,4-Dichlorobenzene	< 5.0
1,1-Dichloroethene	110		

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

sls

NOTE: Method 601 of the EPA was used for this analysis.

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: -
Date Received: 03/02/87
Date Extracted: 03/09/87
Date Reported: 03/17/87
Project No. JCO-104A

Sample Number	Sample Description
7030005	Water, B-4 (Field blank)

PRIORITY POLLUTANTS

VOLATILE ORGANIC COMPOUNDS
results in ppb

Acrolein		-	trans-1,2-Dichloroethene	<	0.5
Acrylonitrile		-	1,2-Dichloropropane	<	0.[illegible]
Benzene		-	1,3-Dichloropropene	<	0.[illegible]
Bromomethane	<	0.5	Ethylbenzene		-
Bromodichloromethane	<	0.5	Methylene chloride	<	0.5
Bromoform	<	0.5	1,1,2,2-Tetrachloroethane	<	0.5
Carbon tetrachloride	<	0.5	Tetrachloroethene	<	0.5
Chlorobenzene		-	1,1,1-Trichloroethane	<	0.5
Chloroethane	<	0.5	1,1,2-Trichloroethane	<	0.5
2-Chloroethylvinyl ether	<	0.5	Trichloroethene	<	0.5
Chloroform	<	0.5	Toluene		-
Chloromethane	<	0.5	Vinyl chloride	<	0.5
Dibromochloromethane	<	0.5	1,2-Dichlorobenzene	<	0.5
1,1-Dichloroethane	<	0.5	1,3-Dichlorobenzene	<	0.5
1,2-Dichloroethane	<	0.5	1,4-Dichlorobenzene	<	0.5
1,1-Dichloroethene	<	0.2			

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

sls

NOTE: Method 601 of the EPA was used for this analysis.

Wahler Associates

WA Project Number: JCO-104.11

Page 1 of 2

Field Sample Chain of Custody Record

Source of Sample(s) Mountain View, CA

Address

Phone ( )

Report to (1) Bob Breynaert

Collector Bob Breynaert

Affiliation WAHLER ASSOC.

Address 1023 Corporation Way
Palo Alto, CA 94303

Phone (415) 969-6250

Sample Information

Lab No.	Field No.	Date	Time	Type (2)	Depth	Remarks (Suspected Contaminants, Field Conditions, etc.)
		/ /				See attached analysis
		/ /				request sheet
		/ /				
		/ /				
		/ /				
		/ /				
		/ /				
		/ /				

Chain of Possession

	Relinquished by (Signature and affiliation)	Date	Time	Received by (3) (Signature and affiliation)	Date	Time
1.	[signature]	3 12 87	10AM	[signature]	3 12 87	10AM
2.		/ /			/ /	
3.		/ /			/ /	

(1) There is a separate Request for Analysis form that should be filled out by the collector and given to the Laboratory when samples are delivered.
(2) e.g. water, sludge, soil, etc.
(3) If any samples are not intact at time of transfer, please describe on the back of this form.

Wahler Associates
1023 Corporation Way, P.O. Box 10023, Palo Alto, California 94303
(415) 968-6250 • TELEX 348-427

ANALYSIS REQUEST FORM

Sequoia Date Sample Shipped 3/2/87

WAHLER ASSOCIATES will indicate a contact person and phone number which the Lab staff can use to obtain or verify the appropriate analytical requirements.

Your Sample I.D.	Matrix	Container	Analysis Requested
JCO-104H V2	H_2O	2 VOA glass vial	EPA 601
B-4 JCO-104H [redacted]	H_2O	1 VOA glass vial	EPA 601

Comments Written turnaround no later than MONDAY MARCH 16, 1987

Contact Person Bob Breynaert (415) 968-6250
Name Telephone

Lab Project Manager (if known) Scott Cocanour

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Joel Lindsay

Date Sampled: 03/19/87
Date Received: 03/19/87
Date Extracted: 03/19/87
Date Reported: 03/24/87
Project #JCO-104H

Sample Number	Sample Description
7031101	V-2

PRIORITY POLLUTANTS

VOLATILE ORGANIC COMPOUNDS

results in ppb

Acrolein		-	trans-1,2-Dichloroethene	<	50
Acrylonitrile		-	1,2-Dichloropropane	<	50
Benzene		-	1,3-Dichloropropene	<	50
Bromomethane	<	50	Ethylbenzene		-
Bromodichloromethane	<	50	Methylene chloride		2400
Bromoform	<	50	1,1,2,2-Tetrachloroethane	<	50
Carbon tetrachloride	<	50	Tetrachloroethene	<	50
Chlorobenzene		-	1,1,1-Trichloroethane		510
Chloroethane	<	50	1,1,2-Trichloroethane	<	50
2-Chloroethylvinyl ether	<	50	Trichloroethene	<	50
Chloroform	<	50	Toluene		-
Chloromethane	<	50	Vinyl chloride	<	50
Dibromochloromethane	<	50	1,2-Dichlorobenzene	<	50
1,1-Dichloroethane		900	1,3-Dichlorobenzene	<	50
1,2-Dichloroethane	<	50	1,4-Dichlorobenzene	<	50
1,1-Dichloroethene	<	20			

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

sls

NOTE: Method 601 of the EPA was used for this analysis.

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Joel Lindsay

Date Sampled: -
Date Received: 03/19/87
Date Extracted: 03/19/87
Date Reported: 03/24/87

Sample Number	Sample Description
7031100	Travel Blank

PRIORITY POLLUTANTS

VOLATILE ORGANIC COMPOUNDS
results in ppb

Acrolein		-	trans-1,2-Dichloroethene	<	0.5
Acrylonitrile		-	1,2-Dichloropropane	<	0.5
Benzene		-	1,3-Dichloropropene	<	0.5
Bromomethane	<	0.5	Ethylbenzene		-
Bromodichloromethane	<	0.5	Methylene chloride	<	0.5
Bromoform	<	0.5	1,1,2,2-Tetrachloroethane	<	0.5
Carbon tetrachloride	<	0.5	Tetrachloroethene	<	0.5
Chlorobenzene		-	1,1,1-Trichloroethane	<	0.5
Chloroethane	<	0.5	1,1,2-Trichloroethane	<	0.5
2-Chloroethylvinyl ether	<	0.5	Trichloroethene	<	0.5
Chloroform	<	0.5	Toluene		-
Chloromethane	<	0.5	Vinyl chloride	<	0.5
Dibromochloromethane	<	0.5	1,2-Dichlorobenzene	<	0.5
1,1-Dichloroethane	<	0.5	1,3-Dichlorobenzene	<	0.5
1,2-Dichloroethane	<	0.5	1,4-Dichlorobenzene	<	0.5
1,1-Dichloroethene	<	0.2			

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

sls

NOTE: Method 601 of the EPA was used for this analysis.

Wahler Associates

WA Project Number: JCO-104

Page 1 of 2

Field Sample Chain of Custody Record

Source of Sample(s) _____

Address _____

Phone ( )

Report to (1) Joel Lindsay

Collector Joel Lindsay

Affiliation Wahler Associates

Address 1023 Corporation Way
Palo Alto, CA 94303

Phone (415) 968-6250

Sample Information

Lab No.	Field No.	Date	Time	Type (2)	Depth	Remarks (Suspected Contaminant Field Conditions, etc
		/ /				
		/ /				See Attached
		/ /				
		/ /				Analysis Request
		/ /				
		/ /				Forms
		/ /				
		/ /				

Chain of Possession

	Relinquished by (Signature and affiliation)	Date	Time	Received by (3) (Signature and affiliation)	Date
1.	Joel Lindsay	3/19/87	12:30 pm.	D. Burt	3/19/87
2.		/ /			/ /
3.		/ /			/ /

(1) There is a separate Request for Analysis form that should be filled out by the col
and given to the Laboratory when samples are delivered.
(2) e.g. water, sludge, soil, etc.
(3) If any samples are not intact at time of transfer, please describe on the back of
form.

Wahler Associates
1023 Corporation Way, P.O. Box 10023, Palo Alto, California 94303
(415) 968-6250 • TELEX 348-427

ANALYSIS REQUEST FORM

Sequoia Date Sample Shipped 3/19/87

WAHLER ASSOCIATES will indicate a contact person and phone number which the Lab staff can use to obtain or verify the appropriat analytical requirements.

Your Sample I.D.	Matrix	Container	Analysis Requested
V-2	H_2O	2 VOA vials	EPA 601
Travel Blank	H_2O	1 VOA vial	EPA 601

Comments 24 HOUR TURNAROUND

Contact Person Joel Lindsay (415) 968-6250
Name Telephone

Lab Project Manager (if known) Scott Cocanour

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 04/03/87
Date Received: 04/03/87
Date Extracted: 04/16/87
Date Reported: 04/20/87
Project No. JCO-104H

Sample Number	Sample Description
7040213	Water, V-4

PRIORITY POLLUTANTS

VOLATILE ORGANIC COMPOUNDS

results in ppb

Acrolein		-	trans-1,2-Dichloroethene	<	10
Acrylonitrile		-	1,2-Dichloropropane	<	10
Benzene		-	1,3-Dichloropropene	<	10
Bromomethane	<	10	Ethylbenzene		-
Bromodichloromethane	<	10	Methylene chloride		1,400
Bromoform	<	10	1,1,2,2-Tetrachloroethane	<	10
Carbon tetrachloride	<	10	Tetrachloroethene	<	10
Chlorobenzene		-	1,1,1-Trichloroethane		1,300
Chloroethane		160	1,1,2-Trichloroethane	<	10
2-Chloroethylvinyl ether	<	10	Trichloroethene	<	10
Chloroform	<	10	Toluene		-
Chloromethane	<	10	Vinyl chloride		11
Dibromochloromethane	<	10	1,2-Dichlorobenzene	<	10
1,1-Dichloroethane		2,200	1,3-Dichlorobenzene	<	10
1,2-Dichloroethane	<	10	1,4-Dichlorobenzene	<	10
1,1-Dichloroethene		170			

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

NOTE: Method 601 of the EPA was used for this analysis.

sls

Wahler Associates

WA Project Number: JCO-104H

Field Sample Chain of Custody Record

Source of Sample(s) Mountain View, CA

Address

Phone ( )

Report to (1) Bob Breynaert

Collector R.G. Breynaert

Affiliation WAHLER ASSOCIATES

Address 1023 Corporation Way, Palo Alto, CA 94303

Phone (415) 968-6250

Sample Information

Lab No.	Field No.	Date	Time	Type (2)	Depth	Remarks (Suspected Contaminants, Field Conditions, etc.)
		/ /				See attached
		/ /				analysis request form
		/ /				
		/ /				
		/ /				
		/ /				
		/ /				
		/ /				

Chain of Possession

	Relinquished by (Signature and affiliation)	Date	Time	Received by (3) (Signature and affiliation)	Date	Time
1.	[signature]	4/13/87	1730	B. [signature]	4/13/87	5:3
2.		/ /			/ /	
3.		/ /			/ /	

(1) There is a separate Request for Analysis form that should be filled out by the collecto and given to the Laboratory when samples are delivered.
(2) e.g. water, sludge, soil, etc.
(3) If any samples are not intact at time of transfer, please describe on the back of this form.

Wahler Associates
1023 Corporation Way, P.O. Box 10023, Palo Alto, California 94303
(415) 968-6250 • TELEX 348-427

ANALYSIS REQUEST FORM

SEQUOIA Date Sample Shipped 4/3/87

WAHLER ASSOCIATES will indicate a contact person and phone number which the Lab staff can use to obtain or verify the appropriate analytical requirements.

Your Sample I.D.	Matrix	Container	Analysis Requested
V-4	H_2O	(2) VOA vials	EPA 601

Comments Written turnaround by Friday April 17, 1987

Contact Person Bob Breynaert (415) 968-6250
Name Telephone

Lab Project Manager (if known) SCOTT COCANOUR

ANATEC
LABORATORIES
INC.

435 Tesconi Circle • Santa Rosa, California 95401 • 707-526-7200

Mr. Bob Breynaert
Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303

May 29, 1987
ANATEC Log No: 9242 (1-4)
Series No: 380/004
Client Ref: (V) Breynaert

Subject: Analysis of 4 Water Samples Identified as "MOUNTAIN VIEW" Received on May 7, 1987.

Dear Mr. Breynaert:

Analysis of the samples referenced above has been completed. This report is written in confirmation of results transmitted verbally on May 21, 1987.

Four samples were each received in two 40-milliliter glass vials sealed with Teflon septa and screw caps, except "FIELD BLANK, 5/5" which was received in one 40-milliliter vial. All samples, except one vial for "V-5, JCO-104H" which had headspace, were received intact, legibly labelled and cool by virtue of refrigerated transport. Samples were delivered under documented chain-of-custody.

On completion of log-in procedures, the samples were placed in secured storage where they were maintained at 4 °C until analysis commenced.

The samples were analyzed to measure contents of purgeable priority pollutants, methyl ethyl ketone and xylene by gas chromatography/mass spectroscopy in accord with U.S. EPA Method 624 ("Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act," U.S. EPA, 40 CFR 136, 1984.) Five-milliliter portions of sample were purged with reagent helium in a closed system. Volatile organic compounds sparged from the sample were swept from the purging vessel onto a solid sorbent "trap." Compounds were later thermally desorbed onto the analytical column of a gas crhomatograph. The column effected separation of the various compounds which subsequently entered the mass spectrometer. Compounds were fragmented by electron impact and the relative abundancies of various ionized fragments detected and analyzed by the mass spectrometer and associated data system.

Analysis of samples was accompanied by various quality control procedures. These included preparation and analysis of method blanks and standards, and replicate and analyte-fortified ("spiked") sample portions. Results of quality control procedures are available on request but are not included in this report.

Results of analysis are presented in Table 1. Please feel welcome to contact us should you have questions regarding procedures or results.

Submitted by:

David Hirano
Project Chemist

Approved by:

Greg Anderson, Director
Analytical Laboratories

/hs

TABLE 1. ANALYTICAL RESULTS FOR "MOUNTAIN VIEW" SAMPLES RECEIVED MAY 7, 1987 - PURGEABLE PRIORITY POLLUTANTS

Analyte	MDL[2] (ug/L)	Site Name, Lab No. & Results (ug/L)[1] V-5 JCO-104H 5/5 1300 (9242-1)	V-6 JCO-104H 5/5 1450 (9242-2)	V-7 JCO-104H 5/5 1630 (9242-3)	FIELD BLANK 5/5 (9242-4)
Chloromethane	5.0	ND[3]	ND	ND	ND
Bromomethane	5.0	ND	ND	ND	ND
Vinyl chloride	5.0	ND	ND	ND	ND
Chloroethane	5.0	ND	ND	ND	ND
Methylene chloride	2.8	ND	ND	ND	ND
Trichlorofluoromethane	5.0	ND	ND	ND	ND
1,1-Dichloroethene	2.8	ND	ND	7.7	ND
1,1-Dichloroethane	4.7	ND	ND	55	ND
trans-1,2-Dichloroethene	1.6	ND	ND	ND	ND
Chloroform	1.6	ND	ND	ND	ND
1,2-Dichloroethane	2.8	ND	ND	ND	ND
1,1,1-Trichloroethane	3.8	ND	ND	64	ND
Carbon tetrachloride	2.8	ND	ND	5.0	ND
Bromodichloromethane	2.2	ND	ND	ND	ND
1,2-Dichloropropane	6.0	ND	ND	ND	ND
trans-1,3-Dichloropropene	5.0	ND	ND	ND	ND
Trichloroethene	1.9	ND	ND	ND	ND
Benzene	4.4	ND	ND	ND	ND
Dibromochloromethane	3.1	ND	ND	ND	ND
1,1,2-Trichloroethane	5.0	ND	ND	ND	ND
cis-1,3-Dichloropropene	5.0	ND	ND	ND	ND
2-Chloroethylvinyl ether	7.0	ND	ND	ND	ND
Bromoform	4.7	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	6.9	ND	ND	ND	ND
Tetrachloroethene	4.1	ND	ND	ND	ND
Toluene	6.0	ND	ND	ND	ND
Chlorobenzene	6.0	ND	ND	ND	ND
Ethyl benzene	7.2	ND	ND	ND	ND
1,3-Dichlorobenzene	6.0	ND	ND	ND	ND
1,2-Dichlorobenzene	6.0	ND	ND	ND	ND
1,4-Dichlorobenzene	6.0	ND	ND	ND	ND
Methyl ethyl ketone	5.0	ND	ND	ND	ND
Xylene	5.0	ND	ND	ND	ND

[1]Data expressed in units of micrograms analyte per liter sample.
[2]MDL--Method detection limit.
[3]ND--Not detected at the method detection limit.

Wahler Associates

WA Project Number: _____

Page 1 of 2

Field Sample Chain of Custody Record

Source of Sample(s) Manton Ave, CA

Address _____

Phone ( )

Report to (1) Bob Braynaert

Collector Bob Braynaert

Affiliation Wahler Associates

Address 1023 Corporation way
Palo Alto CA 94303

Phone 415-968-6250

Sample Information

Lab No.	Field No.	Date	Time	Type (2)	Depth	Remarks (Suspected Contaminants, Field Conditions, etc.)
		/ /				See attached
		/ /				analysis request sh
		/ /				
		/ /				
		/ /				
		/ /				
		/ /				
		/ /				

9242

Chain of Possession

	Relinquished by (Signature and affiliation)	Date	Time	Received by (3) (Signature and affiliation)	Date	Tir
1.	[signature]	5/6/87	1050	Paul Vernon	5/6/87	10
2.	VIA NCS	/ /		Judy Redley	5/7/87	080
3.		/ /			/ /	

(1) There is a separate Request for Analysis form that should be filled out by the collect and given to the Laboratory when samples are delivered.
(2) e.g. water, sludge, soil, etc.
(3) If any samples are not intact at time of transfer, please describe on the back of this form.

Wahler Associates
1023 Corporation Way, P.O. Box 10023, Palo Alto, California 94303
(415) 968-6250 • TELEX 348-427

ANALYSIS REQUEST FORM

Anatec Date Sample Shipped 5/6/87

WAHLER ASSOCIATES will indicate a contact person and phone number which the Lab staff can use to obtain or verify the appropriate analytical requirements.

Your Sample I.D.	Matrix	Container	Analysis Requested
U-5	H_2O	2	EPA 624 + MEK + Xylenes
U-6	"	"	"
U-7	"	"	"
Field Blank	"	1	EPA 624 + MEK + Xylenes

9242

Comments Turnaround by 5/13/87

Contact Person Bob Breynaert (415) 968-6250
Name Telephone

Lab Project Manager (if known) _____

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 05/05/87
Date Received: 05/06/87
Date Extracted: 05/18/87
Date Reported: 05/22/87
Project No. JCO-104H

Sample Number	Sample Description
7050225	Water, V-2

PRIORITY POLLUTANTS

VOLATILE ORGANIC COMPOUNDS

results in ppb

Acrolein		-
Acrylonitrile		-
Benzene		-
Bromomethane	<	5
Bromodichloromethane	<	5
Bromoform	<	5
Carbon tetrachloride	<	5
Chlorobenzene		-
Chloroethane		6.0
2-Chloroethylvinyl ether	<	5
Chloroform	<	5
Chloromethane	<	5
Dibromochloromethane	<	5
1,1-Dichloroethane		540
1,2-Dichloroethane	<	5
1,1-Dichloroethene		51
trans-1,2-Dichloroethene	<	5
1,2-Dichloropropane	<	5
1,3-Dichloropropene	<	5
Ethylbenzene		-
Methylene chloride		700
1,1,2,2-Tetrachloroethane	<	5
Tetrachloroethene	<	5
1,1,1-Trichloroethane		410
1,1,2-Trichloroethane	<	5
Trichloroethene		13
Toluene		-
Vinyl chloride		5
1,2-Dichlorobenzene	<	5
1,3-Dichlorobenzene	<	5
1,4-Dichlorobenzene	<	5

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

sls

NOTE: Method 601 of the EPA was used for this analysis.

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 05/06/87
Date Received: 05/06/87
Date Extracted: 05/11/87
Date Reported: 05/22/87
Project No. JCO-104H

Sample Number	Sample Description
7050221	Water, V-5

PRIORITY POLLUTANTS

PHENOLIC COMPOUNDS
results in ppb

4-Chloro-3-methylphenol	< 100
2-Chlorophenol	< 100
2,4-Dichlorophenol	< 100
2,4-Dimethylphenol	< 100
2,4-Dinitrophenol	< 100
2-Methyl-4,6-dinitrophenol	< 100
2-Nitrophenol	< 100
4-Nitrophenol	< 100
Pentachlorophenol	< 100
Phenol	< 100
2,4,6-Trichlorophenol	< 100

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

sls

NOTE: Method 604 of the EPA was used for this analysis.

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 05/06/87
Date Received: 05/06/87
Date Extracted: 05/11/87
Date Reported: 05/22/87
Project No. JCO-104H

Sample Number	Sample Description
7050222	Water, V-6

PRIORITY POLLUTANTS

PHENOLIC COMPOUNDS
results in ppb

4-Chloro-3-methylphenol	< 100
2-Chlorophenol	< 100
2,4-Dichlorophenol	< 100
2,4-Dimethylphenol	< 100
2,4-Dinitrophenol	< 100
2-Methyl-4,6-dinitrophenol	< 100
2-Nitrophenol	< 100
4-Nitrophenol	< 100
Pentachlorophenol	< 100
Phenol	< 100
2,4,6-Trichlorophenol	< 100

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

sls

NOTE: Method 604 of the EPA was used for this analysis.

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 05/06/87
Date Received: 05/06/87
Date Extracted: 05/11/87
Date Reported: 05/22/87
Project No. JCO-104H

Sample Number	Sample Description
7050223	Water, V-7

PRIORITY POLLUTANTS

PHENOLIC COMPOUNDS
results in ppb

4-Chloro-3-methylphenol	< 100
2-Chlorophenol	< 100
2,4-Dichlorophenol	< 100
2,4-Dimethylphenol	< 100
2,4-Dinitrophenol	< 100
2-Methyl-4,6-dinitrophenol	< 100
2-Nitrophenol	< 100
4-Nitrophenol	< 100
Pentachlorophenol	< 100
Phenol	< 100
2,4,6-Trichlorophenol	< 100

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

NOTE: Method 604 of the EPA was used for this analysis.

sls

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 05/06/87
Date Received: 05/06/87
Date Reported: 05/22/87
Project No. JCO-104H

Sample Number	Sample Description Water	Alcohols* ppm	Acetone ppm
7050221	V-5	< 1.0	< 1.0
7050222	V-6	< 1.0	< 1.0
7050223	V-7	< 1.0	< 1.0

*- Alcohols: Methanol, Ethanol, Iso-propanol.

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

mpr

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

RECEIVED
MAY 29 1987
WAHLER ASSOCIATES

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 05/05/87
Date Received: 05/06/87
Date Reported: 05/22/87
Project No. JCO-104H

Sample Number	Sample Description	Detection Limit	Total Hydrocarbons as Kerosene
	Water	ppm	ppm
7050221	V-5	1	< 1.0
7050222	V-6	1	< 1.0
7050223	V-7	1	< 1.0
7050224	Travel Blank	1	< 1.0

NOTE: Analysis was performed using EPA methods 3510 and 8015.

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

mpr

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 05/05/87
Date Received: 05/06/87
Date Reported: 05/22/87
Project No. JCO-104H

Sample Number	Sample Description Water	Detection Limit ppm	Total Hydrocarbons as Laquer Thinner ppm
7050221	V-5	1	< 1.0
7050222	V-6	1	< 1.0
7050223	V-7	1	< 1.0

NOTE: Analysis was performed using EPA methods 3510 and 8015.

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

mpr

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 05/05/87
Date Received: 05/06/87
Date Reported: 05/22/87
Project No. JCO-104H

Sample Number	Sample Description	Detection Limit ppm	Total Hydrocarbons as Paint Thinner ppm
7050221	V-5	1	< 1.0
7050222	V-6	1	< 1.0
7050223	V-7	1	< 1.0

NOTE: Analysis was performed using EPA methods 3510 and 8015.

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

mpr

Wahler Associates

WA Project Number: JCO-1041

Page 1 of 2

Field Sample Chain of Custody Record

Source of Sample(s) Mountain View, CA

Address

Phone ( )

Report to (1)

Collector Bob Breynaert

Affiliation Wahler Associates

Address 1023 Corporation Way
Palo Alto, CA, 94304

Phone (415) 968-6250

Sample Information

Lab No.	Field No.	Date	Time	Type (2)	Depth	Remarks (Suspected Contaminants, Field Conditions, etc.)
		/ /				See Attached
		/ /				analysis request form
		/ /				
		/ /				
		/ /				
		/ /				
		/ /				
		/ /				

Chain of Possession

	Relinquished by (Signature and affiliation)	Date	Time	Received by (3) (Signature and affiliation)	Date	Ti
1.	[signature]	5 16 87	1110	[signature]	5 16 87	5:0
2.		/ /			/ /	
3.		/ /			/ /	

(1) There is a separate Request for Analysis form that should be filled out by the collect and given to the Laboratory when samples are delivered.
(2) e.g. water, sludge, soil, etc.
(3) If any samples are not intact at time of transfer, please describe on the back of this form.

Wahler Associates
1023 Corporation Way, P.O. Box 10023, Palo Alto, California 94303
(415) 968-6250 • TELEX 348-427

ANALYSIS REQUEST FORM

SEQUOIA Date Sample Shipped 5/6/87

WAHLER ASSOCIATES will indicate a contact person and phone number which the Lab staff can use to obtain or verify the appropriate analytical requirements.

Your Sample I.D.	Matrix	Container	Analysis Requested
V-2	H_2O	2	EPA-601
TRAVEL BLANK	H_2O	1	Total Hydrocarbons as Kerose
V-5, V-6, V-7	H_2O	2 from each well	EPA-604 (Phenol)
V-5, V-6, V-7	H_2O	2 from each well	MeThanol.
V-5, V-6, V-7	H_2O	2 from each well	Total Hydrocarbons as Kerose
V-5, V-6, V-7	H_2O	2 from each well	Total Hydrocarbons as Lag Thi
V-5, V-6, V-7	H_2O	2 from each well	total Hydrocarbons as Paint Thinr
			EPA 624

Comments Vials of (1) Paint Thinner, (2) Lacquer Thinner and (3) kerosene are enclosed with samples, to use as standards
WRITTEN TURNAROUND DEFINATELY NO LATER THAN WEDNES MAY 20, 198

Contact Person Bob Breynaert (415) 968-6250
Name Telephone

Lab Project Manager (if known) Scott Cocanour

PS. For Phenols analyses, use left over water from other samples to obtain maximum volume for each well

TABLE 2. SUMMARIZED RESULTS FOR ANALYSIS BY EPA METHOD 624

Analyte	MDL[2] (ug/L)	Descriptor, Lab No. & Results (ug/L)[1] JCO-104H, I-1 5/15/87 1210 (9317-2)
Chloromethane	5.0	ND
Bromomethane	5.0	ND
Vinyl chloride	5.0	ND
Chloroethane	5.0	ND
Methylene chloride	2.8	ND
Trichlorofluoromethane	5.0	ND
1,1-Dichloroethene	2.8	ND
1,1-Dichloroethane	4.7	11
trans-1,2-Dichloroethene	1.6	ND
Chloroform	1.6	ND
1,2-Dichloroethane	2.8	ND
1,1,1-Trichloroethane	3.8	ND
Carbon tetrachloride	2.8	ND
Bromodichloromethane	2.2	ND
1,2-Dichloropropane	6.0	ND
trans-1,3-Dichloropropene	5.0	ND
Trichloroethene	1.9	ND
Benzene	4.4	ND
Dibromochloromethane	3.1	ND
1,1,2-Trichloroethane	5.0	ND
cis-1,3-Dichloropropene	5.0	ND
2-Chloroethylvinyl ether	7.0	ND
Bromoform	4.7	ND
1,1,2,2-Tetrachloroethane	6.9	ND
Tetrachloroethene	4.1	ND
Toluene	6.0	ND
Chlorobenzene	6.0	ND
Ethyl benzene	7.2	ND
1,3-Dichlorobenzene	6.0	ND
1,2-Dichlorobenzene	6.0	ND
1,4-Dichlorobenzene	6.0	ND
Methyl ethyl ketone	10	ND
Xylenes	10	ND
Tetrahydrofuran	10	ND

[1]Data expressed in units of micrograms analyte per liter sample.
[2]MDL--Method detection limit.
[3]ND--Not detected at the method detection limit.

Wahler Associates
1023 Corporation Way, P.O. Box 10023, Palo Alto, California 94303
(415) 968-6250 • TELEX 348-427

ANALYSIS REQUEST FORM

Anatec Date Sample Shipped 5/15/87

WAHLER ASSOCIATES will indicate a contact person and phone number which the Lab staff can use to obtain or verify the appropriate analytical requirements.

	Your Sample I.D.	Matrix	Container	Analysis Requested
1	JCO-104H, I-1	H_2O	(2) VOA	(OpenScan) EPA-624 including MEK and Xylenes
2	EVO-101H, WA-1	H_2O	(2) VOA	EPA-624 OpenScan including Tetrahydrofuran
3	EVO-101H, WA-1	H_2O	(2) 1l glass bottles	EPA-625 OpenScan - inc 2-Methoxy-Ethanol
4	EVO-101H, WA-1	H_2O	(2) 1l glass bottles	EPA-608 - Pesticides + A
5	EVO-101H, WA-1	H_2O	(2) 500mL Containers pH<2	CAM Metals (Total)
6	EVO-101H, WA-1	H_2O	(2) 250mL Containers	Hexavalent chromium

Comments Please Remember TO Look for: MEK and xylenes in JCO-104H I-1; THF in EVO-101H, WA-1, EPA-624; and 2-Methoxy-Ethanol in The EPA 625 analysis WRITTEN TURNAROUND NO LATER THAN FRIDAY MAY 2

Contact Person Bob Breynaert (415) 968 6250
Name Telephone

Lab Project Manager (if known) Greg Andersen

Wahler Associates

WA Project Number: JCO-104H/EVO

Page 1 of 2

Field Sample Chain of Custody Record

Source of Sample(s) Mountain View, CA

Address

Phone ( )

Report to (1)

Collector Bob Breynaert

Affiliation Wahler Associates

Address 1023 Corporation W
Palo Alto CA 9404

Phone (415) 968-625

Sample Information

Lab No.	Field No.	Date	Time	Type (2)	Depth	Remarks (Suspected Contaminants, Field Conditions, etc.)
		/ /				See Attached Analysis
		/ /				Request form
		/ /				
		/ /				
		/ /				
		/ /				
		/ /				
		/ /				

Chain of Possession

	Relinquished by (Signature and affiliation)	Date	Time	Received by (3) (Signature and affiliation)	Date	Tim
1.	[signature]	5/15/87	1542	[signature] / VINOD 752	05/15/87	342
2.		/ /			/ /	
3.		/ /			/ /	

(1) There is a separate Request for Analysis form that should be filled out by the collecto and given to the Laboratory when samples are delivered.
(2) e.g. water, sludge, soil, etc.
(3) If any samples are not intact at time of transfer, please describe on the back of this form.

Wahler Associates

WA Project Number: JCO-1041H

Field Sample Chain of Custody Record

Source of Sample(s) Mtn View, CA

Address

Phone ( )

Report to (1) Bob Breynaert

Collector Bob Breynaert

Affiliation Wahler Assoc.

Address 1023 Corporation Way
Palo Alto CA 94303

Phone (415) 968-6250

Sample Information

Lab No.	Field No.	Date	Time	Type (2)	Depth	Remarks (Suspected Contaminants, Field Conditions, etc.)
		/ /				See Attached
		/ /				Analysis Request form
		/ /				
		/ /				
		/ /				
		/ /				
		/ /				
		/ /				

Chain of Possession

	Relinquished by (Signature and affiliation)	Date	Time	Received by (3) (Signature and affiliation)	Date	Time
1.	[illegible]	5/15/87	5:00	[illegible]	5/15/87	5:00
2.		/ /			/ /	
3.		/ /			/ /	

(1) There is a separate Request for Analysis form that should be filled out by the collector and given to the Laboratory when samples are delivered.
(2) e.g. water, sludge, soil, etc.
(3) If any samples are not intact at time of transfer, please describe on the back of this form.

Wahler Associates
1023 Corporation Way, P.O. Box 10023, Palo Alto, California 94303
(415) 968-6250 • TELEX 348-427

ANALYSIS REQUEST FORM

Sequoia Date Sample Shipped 5/15/87

WAHLER ASSOCIATES will indicate a contact person and phone number which the Lab staff can use to obtain or verify the appropriate analytical requirements.

	Your Sample I.D.	Matrix	Container	Analysis Requested
1	JCO-1041H; I-2	H_2O	(2) 1L bottle	EPA-604 - Phenols
2	JCO-104H; I-2	H_2O	(2) VOA	Methanol
3	JCO-1041H; I-2	H_2O	(2) VOA	Total Hydrocarbons as Kerosene
4	JCO-104H; I-2	H_2O	(2) VOA	Total Hydrocarbons as Lacquer Thinner
5	JCO-104H; I-2	H_2O	(2) VOA	Total Hydrocarbons as Paint Thinner
~~6~~	~~JCO-104H; I-2~~			

Comments SCOTT COCANOUR has vials of Paint Thinner, Lacquer Thinner and Kerosene. To be used as Standards.
WRITTEN TURNAROUND ABSOLUTELY NO LATER THAN FRIDAY MAY 29

Contact Person Bob Breynaert (415) 968-6250
Name Telephone

Lab Project Manager (if known) SCOTT COCANOUR

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 05/20/87
Date Received: 05/20/87
Date Extracted: 05/21/87
Date Reported: 05/22/87
Job No. JCO-104H

Sample Number	Sample Description
7051303	Water, V-4

PRIORITY POLLUTANTS

VOLATILE ORGANIC COMPOUNDS

results in ppb

Acrolein		-
Acrylonitrile		-
Benzene		-
Bromomethane	<	5
Bromodichloromethane	<	5
Bromoform	<	5
Carbon tetrachloride	<	5
Chlorobenzene		-
Chloroethane		12
2-Chloroethylvinyl ether	<	5
Chloroform	<	5
Chloromethane	<	5
Dibromochloromethane	<	5
1,1-Dichloroethane		1,200
1,2-Dichloroethane	<	5
1,1-Dichloroethene		140
trans-1,2-Dichloroethene	<	5
1,2-Dichloropropane	<	5
1,3-Dichloropropene	<	5
Ethylbenzene		-
Methylene chloride		490
1,1,2,2-Tetrachloroethane	<	5
Tetrachloroethene	<	5
1,1,1-Trichloroethane		390
1,1,2-Trichloroethane	<	5
Trichloroethene	<	5
Toluene		-
Vinyl chloride	<	5
1,2-Dichlorobenzene	<	5
1,3-Dichlorobenzene	<	5
1,4-Dichlorobenzene	<	5

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

sls

NOTE: Method 601 of the EPA was used for this analysis.

Wahler Associates

WA Project Number: J70-104A

Field Sample Chain of Custody Record

Source of Sample(s): Mtn View

Address:

Phone: ( )

Report to (1): Bob Braynaert

Collector: Bob Braynaert

Affiliation: Wahler Associates

Address: 1023 Corporation Way, Palo Alto Calif 94043

Phone: 415-968-6250

Sample Information

Lab No.	Field No.	Date	Time	Type (2)	Depth	Remarks (Suspected Contaminants, Field Conditions, etc.)
		/ /				See attached Analysis
		/ /				Request form!
		/ /				
		/ /				
		/ /				
		/ /				
		/ /				
		/ /				

Chain of Possession

	Relinquished by (Signature and affiliation)	Date	Time	Received by (3) (Signature and affiliation)	Date	Time
1.	[signature]	5/20/87		[signature]	5/20/87	1:[illegible]
2.		/ /			/ /	
3.		/ /			/ /	

(1) There is a separate Request for Analysis form that should be filled out by the collect and given to the Laboratory when samples are delivered.
(2) e.g. water, sludge, soil, etc.
(3) If any samples are not intact at time of transfer, please describe on the back of this form.

Wahler Associates
1023 Corporation Way, P.O. Box 10023, Palo Alto, California 94303
(415) 968-6250 • TELEX 348-427

ANALYSIS REQUEST FORM

SEQUOIA Date Sample Shipped 5/20/87

WAHLER ASSOCIATES will indicate a contact person and phone number which the Lab staff can use to obtain or verify the appropriate analytical requirements.

Your Sample I.D.	Matrix	Container	Analysis Requested
JCO-104 H, U-4	H_2O	(2) VOA	EPA-601

Comments 24 HOUR TURNAROUND!

Contact Person Bob Breynaert (415) 968-6250
Name Telephone

Lab Project Manager (if known) Scott Cocanour.

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 06/03/87
Date Received: 06/03/87
Date Extracted: 06/03/87
Date Reported: 06/04/87
Project No. JCO-104H

Sample Number	Sample Description
7060142	Water, I-1

PRIORITY POLLUTANTS

VOLATILE ORGANIC COMPOUNDS
results in ppb

Acrolein	<100	trans-1,2-Dichloroethene	< 0.5
Acrylonitrile	<100	1,2-Dichloropropane	< 0.5
Benzene	< 0.5	1,3-Dichloropropene	< 0.5
Bromomethane	< 0.5	Ethylbenzene	< 0.5
Bromodichloromethane	< 0.5	Methylene chloride	< 0.5
Bromoform	< 0.5	1,1,2,2-Tetrachloroethane	< 0.5
Carbon tetrachloride	< 0.5	Tetrachloroethene	< 0.5
Chlorobenzene	< 0.5	1,1,1-Trichloroethane	< 0.5
Chloroethane	< 0.5	1,1,2-Trichloroethane	< 0.5
2-Chloroethylvinyl ether	< 0.5	Trichloroethene	< 0.5
Chloroform	< 0.5	Toluene	< 0.5
Chloromethane	< 0.5	Vinyl chloride	< 0.5
Dibromochloromethane	< 0.5	1,2-Dichlorobenzene	< 0.5
1,1-Dichloroethane	3.9	1,3-Dichlorobenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,4-Dichlorobenzene	< 0.5
1,1-Dichloroethene	< 0.2		

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

NOTE: Method 624 of the EPA was used for this analysis.

Wahler Associates

WA Project Number: JC01041H

Field Sample Chain of Custody Record

Source of Sample(s) _____

Address _____

_____

Phone ( ) _____

Report to (1) _____

Collector Paul Schmidt

Affiliation Wahler Assoc

Address 1023 Corporation Way
Palo Alto, Ca. 94033

Phone (415) 968-6250

Sample Information

Lab No.	Field No.	Date	Time	Type (2)	Depth	Remarks (Suspected Contaminants, Field Conditions, etc.)
		/ /				
		/ /				See Attached
		/ /				Analysis Request
		/ /				Form
		/ /				
		/ /				
		/ /				
		/ /				
		/ /				

Chain of Possession

	Relinquished by (Signature and affiliation)	Date	Time	Received by (3) (Signature and affiliation)	Date	Time
1.	Paul Schmidt	6 13 87	10:40	Carolyn Anderson	6 13 87	10:40
2.	Carolyn Anderson	6 13 87	11:11 AM	Frank Whitrich	6 13 87	11:11
3.		/ /			/ /	

(1) There is a separate Request for Analysis form that should be filled out by the collector and given to the Laboratory when samples are delivered.
(2) e.g. water, sludge, soil, etc.
(3) If any samples are not intact at time of transfer, please describe on the back of this form.

Wahler Associates
1023 Corporation Way, P.O. Box 10023, Palo Alto, California 94303
(415) 968-6250 • TELEX 348-427

ANALYSIS REQUEST FORM

Sequoia Lab Date Sample Shipped 6-3-87

WAHLER ASSOCIATES will indicate a contact person and phone number which the Lab staff can use to obtain or verify the appropriate analytical requirements.

Your Sample I.D.	Matrix	Container	Analysis Requested
I-1	H_2O	VOA	EPA 624

Comments 24 hour turn-around please!

Contact Person BOB BREYNAERT (415) 968-6250
Name Telephone

Lab Project Manager (if known) Scott Cocanour

Wahler Associates

Geotechnical and Water Resources Engineering

July 10, 1987
Project JCO-104H

Mr. Roger James
California Regional Water Quality
Control Board
1111 Jackson Street, Room 6040
Oakland, California 94607

Dear Mr. James:

The purpose of this letter is to transmit the chemical analysis results from the June 22, 1987 resampling of wells at Jasco Chemical Corporation in Mountain View, California. Five A-aquifer wells, V-2, V-4, V-5, V-6, and V-7, and one B_1-aquifer well, I-1, were sampled. As noted in the enclosed chain-of-custody, the samples were supposed to have been analyzed for purgeable halocarbons using EPA Method 601. Due to a laboratory breakdown, the samples were analyzed according to EPA Method 624 using GC/MS.

If you have any questions regarding the results, do not hesitate to call.

Very truly yours,

WAHLER ASSOCIATES

Bob Breynaert
Project Manager

BB:1

cc: Mr. Dan Thomas
Mr. James L. Jaffe

1023 Corporation Way, P.O. Box 10023, Palo Alto, California 94303 • Telephone Number (415) 968-6250
Telex Number 4998623

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 06/22/87
Date Received: 06/23/87
Date Extracted: 07/06/87
Date Reported: 07/09/87
Project No. JCO-104H

Sample Number	Sample Description
7061697	Water I-1

PRIORITY POLLUTANTS

VOLATILE ORGANIC COMPOUNDS

results in ppb

Acrolein	<100	trans-1,2-Dichloroethene	< 0.5
Acrylonitrile	<100	1,2-Dichloropropane	< 0.5
Benzene	< 0.5	1,3-Dichloropropene	< 0.5
Bromomethane	< 0.5	Ethylbenzene	< 0.5
Bromodichloromethane	< 0.5	Methylene chloride	32
Bromoform	< 0.5	1,1,2,2-Tetrachloroethane	< 0.5
Carbon tetrachloride	< 0.5	Tetrachloroethene	< 0.5
Chlorobenzene	< 0.5	1,1,1-Trichloroethane	< 0.5
Chloroethane	< 0.5	1,1,2-Trichloroethane	< 0.5
2-Chloroethylvinyl ether	< 0.5	Trichloroethene	< 0.5
Chloroform	< 0.5	Toluene	< 0.5
Chloromethane	< 0.5	Vinyl chloride	< 0.5
Dibromochloromethane	< 0.5	1,2-Dichlorobenzene	< 0.5
1,1-Dichloroethane	< 0.5	1,3-Dichlorobenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,4-Dichlorobenzene	< 0.5
1,1-Dichloroethene	< 0.2		

SEQUOIA ANALYTICAL LABORATORY

Scot Cocanour
for Arthur G. Burton
Laboratory Director

NOTE: Method 624 of the EPA was used for this analysis.

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 06/22/87
Date Received: 06/23/87
Date Extracted: 07/06/87
Date Reported: 07/09/87
Project No. JCO-104H

Sample Number	Sample Description
7061698	Water V-2

PRIORITY POLLUTANTS

VOLATILE ORGANIC COMPOUNDS
results in ppb

Acrolein	<100	trans-1,2-Dichloroethene	13
Acrylonitrile	<100	1,2-Dichloropropane	< 0.5
Benzene	< 0.5	1,3-Dichloropropene	< 0.5
Bromomethane	< 0.5	Ethylbenzene	< 0.5
Bromodichloromethane	< 0.5	Methylene chloride	840
Bromoform	< 0.5	1,1,2,2-Tetrachloroethane	< 0.5
Carbon tetrachloride	< 0.5	Tetrachloroethene	< 0.5
Chlorobenzene	< 0.5	1,1,1-Trichloroethane	77
Chloroethane	140	1,1,2-Trichloroethane	< 0.5
2-Chloroethylvinyl ether	< 0.5	Trichloroethene	2.2
Chloroform	< 0.5	Toluene	15
Chloromethane	< 0.5	Vinyl chloride	9.2
Dibromochloromethane	< 0.5	1,2-Dichlorobenzene	< 0.5
1,1-Dichloroethane	330	1,3-Dichlorobenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,4-Dichlorobenzene	< 0.5
1,1-Dichloroethene	29		

SEQUOIA ANALYTICAL LABORATORY

Scot Cocanour
for Arthur G. Burton
Laboratory Director

NOTE: Method 624 of the EPA was used for this analysis.

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 06/22/87
Date Received: 06/23/87
Date Extracted: 07/06/87
Date Reported: 07/09/87
Project No. JCO-104H

Sample Number	Sample Description
7061699	Water V-4

PRIORITY POLLUTANTS

VOLATILE ORGANIC COMPOUNDS
results in ppb

Acrolein	<100	trans-1,2-Dichloroethene	6.6
Acrylonitrile	<100	1,2-Dichloropropane	< 0.5
Benzene	< 0.5	1,3-Dichloropropene	< 0.5
Bromomethane	< 0.5	Ethylbenzene	< 0.5
Bromodichloromethane	< 0.5	Methylene chloride	110
Bromoform	< 0.5	1,1,2,2-Tetrachloroethane	< 0.5
Carbon tetrachloride	< 0.5	Tetrachloroethene	< 0.5
Chlorobenzene	< 0.5	1,1,1-Trichloroethane	170
Chloroethane	65	1,1,2-Trichloroethane	< 0.5
2-Chloroethylvinyl ether	< 0.5	Trichloroethene	< 0.5
Chloroform	< 0.5	Toluene	3.8
Chloromethane	< 0.5	Vinyl chloride	16
Dibromochloromethane	< 0.5	1,2-Dichlorobenzene	< 0.5
1,1-Dichloroethane	500	1,3-Dichlorobenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,4-Dichlorobenzene	< 0.5
1,1-Dichloroethene	150		

SEQUOIA ANALYTICAL LABORATORY

for Arthur G. Burton
Laboratory Director

NOTE: Method 624 of the EPA was used for this analysis.

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 06/22/87
Date Received: 06/23/87
Date Extracted: 07/06/87
Date Reported: 07/09/87
Project No. JCO-104H

Sample Number	Sample Description
7061700	Water V-5

PRIORITY POLLUTANTS

VOLATILE ORGANIC COMPOUNDS
results in ppb

Acrolein	<100	trans-1,2-Dichloroethene	< 0.5
Acrylonitrile	<100	1,2-Dichloropropane	< 0.5
Benzene	< 0.5	1,3-Dichloropropene	< 0.5
Bromomethane	< 0.5	Ethylbenzene	< 0.5
Bromodichloromethane	< 0.5	Methylene chloride	< 0.5
Bromoform	< 0.5	1,1,2,2-Tetrachloroethane	< 0.5
Carbon tetrachloride	< 0.5	Tetrachloroethene	< 0.5
Chlorobenzene	< 0.5	1,1,1-Trichloroethane	< 0.5
Chloroethane	< 0.5	1,1,2-Trichloroethane	< 0.5
2-Chloroethylvinyl ether	< 0.5	Trichloroethene	< 0.5
Chloroform	< 0.5	Toluene	< 0.5
Chloromethane	< 0.5	Vinyl chloride	< 0.5
Dibromochloromethane	< 0.5	1,2-Dichlorobenzene	< 0.5
1,1-Dichloroethane	< 0.5	1,3-Dichlorobenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,4-Dichlorobenzene	< 0.5
1,1-Dichloroethene	< 0.2		

SEQUOIA ANALYTICAL LABORATORY

Scott Cocanour
for Arthur G. Burton
Laboratory Director

NOTE: Method 624 of the EPA was used for this analysis.

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 06/22/87
Date Received: 06/23/87
Date Extracted: 07/06/87
Date Reported: 07/09/87
Project No. JCO-104H

Sample Number	Sample Description
7061701	Water V-6

PRIORITY POLLUTANTS

VOLATILE ORGANIC COMPOUNDS
results in ppb

Acrolein	<100	trans-1,2-Dichloroethene	< 0.5
Acrylonitrile	<100	1,2-Dichloropropane	< 0.5
Benzene	< 0.5	1,3-Dichloropropene	< 0.5
Bromomethane	< 0.5	Ethylbenzene	< 0.5
Bromodichloromethane	< 0.5	Methylene chloride	< 0.5
Bromoform	< 0.5	1,1,2,2-Tetrachloroethane	< 0.5
Carbon tetrachloride	< 0.5	Tetrachloroethene	< 0.5
Chlorobenzene	< 0.5	1,1,1-Trichloroethane	< 0.5
Chloroethane	< 0.5	1,1,2-Trichloroethane	< 0.5
2-Chloroethylvinyl ether	< 0.5	Trichloroethene	< 0.5
Chloroform	< 0.5	Toluene	< 0.5
Chloromethane	< 0.5	Vinyl chloride	< 0.5
Dibromochloromethane	< 0.5	1,2-Dichlorobenzene	< 0.5
1,1-Dichloroethane	< 0.5	1,3-Dichlorobenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,4-Dichlorobenzene	< 0.5
1,1-Dichloroethene	< 0.2		

SEQUOIA ANALYTICAL LABORATORY

Scott Cocan

for Arthur G. Burton
Laboratory Director

NOTE: Method 624 of the EPA was used for this analysis.

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 06/22/87
Date Received: 06/23/87
Date Extracted: 07/06/87
Date Reported: 07/09/87

Project No. JCO-104H

Sample Number	Sample Description
7061702	Water V-7

PRIORITY POLLUTANTS

VOLATILE ORGANIC COMPOUNDS
results in ppb

Acrolein	<100	trans-1,2-Dichloroethene	< 0.5
Acrylonitrile	<100	1,2-Dichloropropane	< 0.5
Benzene	< 0.5	1,3-Dichloropropene	< 0.5
Bromomethane	< 0.5	Ethylbenzene	< 0.5
Bromodichloromethane	< 0.5	Methylene chloride	< 0.5
Bromoform	< 0.5	1,1,2,2-Tetrachloroethane	< 0.5
Carbon tetrachloride	< 0.5	Tetrachloroethene	< 0.5
Chlorobenzene	< 0.5	1,1,1-Trichloroethane	28
Chloroethane	< 0.5	1,1,2-Trichloroethane	< 0.5
2-Chloroethylvinyl ether	< 0.5	Trichloroethene	< 0.5
Chloroform	< 0.5	Toluene	< 0.5
Chloromethane	< 0.5	Vinyl chloride	< 0.5
Dibromochloromethane	< 0.5	1,2-Dichlorobenzene	< 0.5
1,1-Dichloroethane	49	1,3-Dichlorobenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,4-Dichlorobenzene	< 0.5
1,1-Dichloroethene	< 0.2		

SEQUOIA ANALYTICAL LABORATORY

Scott Cocanour
for Arthur G. Burton
Laboratory Director

NOTE: Method 624 of the EPA was used for this analysis.

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 06/22/87
Date Received: 06/23/87
Date Extracted: 07/06/87
Date Reported: 07/09/87
Project No. JCO-104H

Sample Number	Sample Description
7061703	Water, Method Blank

PRIORITY POLLUTANTS

VOLATILE ORGANIC COMPOUNDS
results in ppb

Acrolein	<100	trans-1,2-Dichloroethene	< 0.5
Acrylonitrile	<100	1,2-Dichloropropane	< [illegible]
Benzene	< 0.5	1,3-Dichloropropene	< 0.5
Bromomethane	< 0.5	Ethylbenzene	< 0.5
Bromodichloromethane	< 0.5	Methylene chloride	< 0.5
Bromoform	< 0.5	1,1,2,2-Tetrachloroethane	< 0.5
Carbon tetrachloride	< 0.5	Tetrachloroethene	< 0.5
Chlorobenzene	< 0.5	1,1,1-Trichloroethane	< 0.5
Chloroethane	< 0.5	1,1,2-Trichloroethane	< 0.5
2-Chloroethylvinyl ether	< 0.5	Trichloroethene	< 0.5
Chloroform	< 0.5	Toluene	< 0.5
Chloromethane	< 0.5	Vinyl chloride	< 0.5
Dibromochloromethane	< 0.5	1,2-Dichlorobenzene	< 0.5
1,1-Dichloroethane	< 0.5	1,3-Dichlorobenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,4-Dichlorobenzene	< 0.5
1,1-Dichloroethene	< 0.2		

SEQUOIA ANALYTICAL LABORATORY

Scott Cocam

for Arthur G. Burton
Laboratory Director

NOTE: Method 624 of the EPA was used for this analysis.

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 06/22/87
Date Received: 06/23/87
Date Extracted: 07/06/87
Date Reported: 07/09/87
Project No. JCO-104H

Sample Number	Sample Description
7061704	Water Travel Blank

PRIORITY POLLUTANTS

VOLATILE ORGANIC COMPOUNDS
results in ppb

Acrolein	<100	trans-1,2-Dichloroethene	< 0.
Acrylonitrile	<100	1,2-Dichloropropane	< 0.
Benzene	< 0.5	1,3-Dichloropropene	< 0.
Bromomethane	< 0.5	Ethylbenzene	< 0.
Bromodichloromethane	< 0.5	Methylene chloride	< 0.
Bromoform	< 0.5	1,1,2,2-Tetrachloroethane	< 0.
Carbon tetrachloride	< 0.5	Tetrachloroethene	< 0.
Chlorobenzene	< 0.5	1,1,1-Trichloroethane	< 0.
Chloroethane	< 0.5	1,1,2-Trichloroethane	< 0.
2-Chloroethylvinyl ether	< 0.5	Trichloroethene	< 0.
Chloroform	< 0.5	Toluene	< 0.
Chloromethane	< 0.5	Vinyl chloride	< 0.
Dibromochloromethane	< 0.5	1,2-Dichlorobenzene	< 0.
1,1-Dichloroethane	< 0.5	1,3-Dichlorobenzene	< 0.
1,2-Dichloroethane	< 0.5	1,4-Dichlorobenzene	< 0.
1,1-Dichloroethene	< 0.2		

SEQUOIA ANALYTICAL LABORATORY

for Arthur G. Burton
Laboratory Director

NOTE: Method 624 of the EPA was used for this analysis.

Wahler Associates

WA Project Number: JCO 1041

Page 1 of 2

Field Sample Chain of Custody Record

Source of Sample(s): Wells

Address:

Phone: ( )

Report to (1): BOB BREYNAERT

Collector: PAUL SCHMIDT

Affiliation: Wahler Assoc.

Address: 1023 Corporation Way, Palo Alto, Ca. 94303

Phone: (415) 968-6250

Sample Information

Lab No.	Field No.	Date	Time	Type (2)	Depth	Remarks (Suspected Contaminants, Field Conditions, etc.)
		/ /				See Attached
		/ /				Analysis
		/ /				Request
		/ /				Form
		/ /				
		/ /				
		/ /				
		/ /				

Chain of Possession

	Relinquished by (Signature and affiliation)	Date	Time	Received by (3) (Signature and affiliation)	Date	Time
1.	Paul Schmidt	6 12 87	9:00	[illegible]	6 12 87	0900
2.		/ /			/ /	
3.		/ /			/ /	

(1) There is a separate Request for Analysis form that should be filled out by the collector and given to the Laboratory when samples are delivered.
(2) e.g. water, sludge, soil, etc.
(3) If any samples are not intact at time of transfer, please describe on the back of this form.

Wahler Associates
1023 Corporation Way, P.O. Box 10023, Palo Alto, California 94303
(415) 968-6250 • TELEX 348-427

ANALYSIS REQUEST FORM

Sequoia Lab Date Sample Shipped 6-22-87

WAHLER ASSOCIATES will indicate a contact person and phone number which the Lab staff can use to obtain or verify the appropriate analytical requirements.

Your Sample I.D.	Matrix	Container	Analysis Requested
I - 1	H_2O	2 VOA's	EPA 601
V-2	"	"	"
V-4	"	"	"
V-5	"	"	"
V-6	"	"	"
V-7	"	"	"
Method blk	"	1 VOA	"
Field Blank	"	1 VOA	"

Comments 2 Week turn-a-round strace

Contact Person Bob Breynaert (415) 968-6250
Name Telephone

Lab Project Manager (if known) Scot Cocanour

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Kahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Robert Breynaert

Date Sampled: 08/20/87
Date Received: 08/20/87
Date Extracted: 09/03/87
Date Reported: 09/10/87
Project No. JCO-104H

Sample Number	Sample Description
7081483	Water, JCO-817, Tap

PRIORITY POLLUTANTS

VOLATILE ORGANIC COMPOUNDS

results in ppb

Acrolein	-	trans-1,2-Dichloroethene	< 0.5
Acrylonitrile	-	1,2-Dichloropropane	< 0.5
Benzene	-	1,3-Dichloropropene	< 0.5
Bromomethane	< 0.5	Ethylbenzene	-
Bromodichloromethane	0.71	Methylene chloride	< 0.5
Bromoform	< 0.5	1,1,2,2-Tetrachloroethane	< 0.5
Carbon tetrachloride	< 0.5	Tetrachloroethene	< 0.5
Chlorobenzene	-	1,1,1-Trichloroethane	< 0.5
Chloroethane	< 0.5	1,1,2-Trichloroethane	< 0.5
2-Chloroethylvinyl ether	< 0.5	Trichloroethene	< 0.5
Chloroform	71	Toluene	-
Chloromethane	< 0.5	Vinyl chloride	< 0.5
Dibromochloromethane	< 0.5	1,2-Dichlorobenzene	< 0.5
1,1-Dichloroethane	< 0.5	1,3-Dichlorobenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,4-Dichlorobenzene	< 0.5
1,1-Dichloroethene	< 0.2		

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

NOTE: Method 601 of the EPA was used for this analysis.

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Robert Breynaert

Date Sampled: 08/20/87
Date Received: 08/20/87
Date Extracted: 09/03/87
Date Reported: 09/10/87
Project No. JCO-104H

Sample Number	Sample Description
7081484	Water, JCO-817, Tank

PRIORITY POLLUTANTS

VOLATILE ORGANIC COMPOUNDS

results in ppb

Acrolein		-	trans-1,2-Dichloroethene	<	0.5
Acrylonitrile		-	1,2-Dichloropropane	<	0.5
Benzene		-	1,3-Dichloropropene	<	0.5
Bromomethane	<	0.5	Ethylbenzene		-
Bromodichloromethane		1.1	Methylene chloride	<	0.5
Bromoform	<	0.5	1,1,2,2-Tetrachloroethane	<	0.5
Carbon tetrachloride	<	0.5	Tetrachloroethene	<	0.5
Chlorobenzene		-	1,1,1-Trichloroethane	<	0.5
Chloroethane	<	0.5	1,1,2-Trichloroethane	<	0.5
2-Chloroethylvinyl ether	<	0.5	Trichloroethene	<	0.5
Chloroform		72	Toluene		-
Chloromethane	<	0.5	Vinyl chloride	<	0.5
Dibromochloromethane	<	0.5	1,2-Dichlorobenzene	<	0.5
1,1-Dichloroethane	<	0.5	1,3-Dichlorobenzene	<	0.5
1,2-Dichloroethane	<	0.5	1,4-Dichlorobenzene	<	0.5
1,1-Dichloroethene	<	0.2			

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

NOTE: Method 601 of the EPA was used for this analysis.

ANAMETRIX, INC.
LABORATORY SERVICES
ENVIRONMENTAL • ANALYTICAL CHEMISTRY
2754 AJELLO DRIVE • SAN JOSE, CA 95111 • (408) 629-1132

RECEIVED
OCT 5 - 1987
WAHLER ASSOCIATES

September 9, 1987
Work Order Number 8708113
Date Received 8/31/87
Project No. JCO-104H

Robert Breynaert
Wahler Associates
P.O. Box 10023
Palo Alto, CA 94303

One water sample was received for analysis of halogenated and aromatic volatile organics by gas chromatography, using the following EPA method(s):

ANAMETRIX I.D.	SAMPLE I.D.	METHOD(S)
8708113-01	U-2 (V-2)	601/602

RESULTS

See enclosed data sheets, Forms 1-1 thru 2-1.

EXTRA COMPOUNDS

Confirmation by GC/MS indicates that the following compounds were present below instrument detection limit: chloroethane; 1,1-dichloroethene; cis-1,2-dichloroethene; trichloroethene. Also detected by GC/MS were acetone, 2-butanone (methyl ethyl ketone).

DOCUMENT INVENTORY

See enclosed documents 1 thru 17.

If there is any more that we can do, please give us a call. Thank you for using ANAMETRIX, INC.

Sincerely,

Sarah Schoen

Sarah Schoen, Ph.D.
GC Supervisor

SRS/qp

ORGANICS DATA ANALYSIS SHEET - EPA METHOD 601/8010

Sample I.D. : U-2 (N-2)
Matrix : WATER
Date sampled : 8-27-87
Date analyzed : 9-8-87
Dilution : 1:100

Anametrix I.D. : 8708113-01
Analyst : MG
Supervisor : SW
Date released : 9-9-87

CAS #	Compound Name	Det. Limit (ug/l)	(ug/l)	Q
74-87-3	* Chloromethane	100		U
74-83-9	* Bromomethane	50		U
75-71-8	* Dichlorodifluoromethane	100		U
75-01-4	* Vinyl Chloride	50		U
75-00-3	* Chloroethane	50		U
75-09-2	* Methylene Chloride	50	1700	+
79-69-4	* Trichlorofluoromethane	50		U
75-35-4	* 1,1-Dichloroethene	50		U
75-34-3	* 1,1-Dichloroethane	50	630	+
156-59-2	# Cis-1,2-Dichloroethene	50		U
156-60-5	* Trans-1,2-Dichloroethene	50		U
67-66-3	* Chloroform	50		U
76-13-1	# Trichlorotrifluoroethane	50		U
107-06-2	* 1,2-Dichloroethane	50		U
71-55-6	* 1,1,1-Trichloroethane	50	200	+
56-23-5	* Carbon Tetrachloride	50		U
75-27-4	* Bromodichloromethane	50		U
78-87-5	* 1,2-Dichloropropane	50		U
10061-02-6	* Trans-1,3-Dichloropropene	50		U
79-01-6	* Trichloroethene	50		U
124-48-1	* Dibromochloromethane	50		U
79-00-5	* 1,1,2-Trichloroethane	50		U
10061-01-5	* cis-1,3-Dichloropropene	50		U
110-75-8	* 2-Chloroethylvinylether	100	-	U
75-25-2	* Bromoform	50		U
127-18-4	* Tetrachloroethene	50		U
79-34-5	* 1,1,2,2-Tetrachloroethane	50		U
108-90-7	* Chlorobenzene	50		U
541-73-1	* 1,3-Dichlorobenzene	100		U
95-50-1	* 1,2-Dichlorobenzene	100		U
106-46-7	* 1,4-Dichlorobenzene	100		U
	% Surrogate Recovery		61	

* A 601/8010 approved compound (Federal Register, 10/26/84)
\# A compound added by Anametrix, Inc.

For reporting purposes, the following qualifiers (Q) are used:
+ : A value greater than or equal to the method detection limit.
U : The compound was analyzed for but was not detected.

Form 1-1.

ORGANIC ANALYSIS DATA SHEET - EPA METHOD 602/8020

Sample I.D. : U-2
Matrix : WATER
Date sampled : 8-27-87
Date analyzed : 9-8-87
Dilution : 1:20

Anametrix I.D. : 8708113
Analyst : MG
Supervisor : MS
Date released : 9-9-87

CAS #	Compound Name	Det. Limit (ug/l)	(ug/l)	Q
71-43-2	Benzene	10	20	+
108-88-3	Toluene	10	250	+
108-90-7	Chlorobenzene	10		U
100-41-4	Ethylbenzene	10		U
	Xylenes	20	50	+
95-50-1	1,2-Dichlorobenzene	20		U
541-73-1	1,3-Dichlorobenzene	20		U
106-46-7	1,4-Dichlorobenzene	20		U
78-93-3	Methyl ethyl ketone	200		U
	% Surrogate Recovery		82	

For reporting purposes, the following qualifiers (Q) are used:

+ : A value greater than or equal to the method detection limit.
U : The compound was analyzed for but was not detected.

Form 2-1.

ANAMETRIX, INC.
LABORATORY SERVICES
ENVIRONMENTAL • ANALYTICAL CHEMISTRY
2754 AIELLO DRIVE • SAN JOSE, CA 95111 • (408) 629-1132

Document Inventory

Project # 8708113

DOCUMENT CONTROL #	DOCUMENT TYPE
8708113-000001	Initial Method 601 Calibration
2-12	Daily Method 601 Calibration Chromatograms
13	Sample screen
14-16	Sample Chromatograms
17	Sample Chromatogram Method 625

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 08/28/87
Date Received: 08/31/87
Date Reported: 09/16/87
Project No. JCO-104H

Sample Number	Sample Description Water	Detection Limit ppm	Total Hydrocarbons as Paint Thinner ppm
7082427	V-1	1	< 1.0
7082428	V-2	1	< 1.0
7082429	V-3	1	< 1.0
7082430	V-4	1	< 1.0
7082431	V-5	1	< 1.0
7082432	V-6	1	< 1.0
7082433	V-7	1	< 1.0
7082434	I-1	1	< 1.0

NOTE: Analysis was performed using EPA methods 3510 and 8015.

SEQUOIA ANALYTICAL LABORATORY

for Earl Cocanour
Arthur G. Burton
Laboratory Director

mpr

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 08/28/87
Date Received: 08/31/87
Date Extracted: 09/11/87
Date Reported: 09/16/87
Project No. JCO-104H

Sample Number	Sample Description
7082427	Water, V-1

PRIORITY POLLUTANTS

VOLATILE ORGANIC COMPOUNDS

results in ppb

Acrolein	<100	trans-1,2-Dichloroethene	< 0.5
Acrylonitrile	<100	1,2-Dichloropropane	< 0.5
Benzene	< 0.5	1,3-Dichloropropene	< 0.5
Bromomethane	< 0.5	Ethylbenzene	< 0.5
Bromodichloromethane	< 0.5	Methylene chloride	< 0.5
Bromoform	< 0.5	1,1,2,2-Tetrachloroethane	< 0.5
Carbon tetrachloride	< 0.5	Tetrachloroethene	< 0.5
Chlorobenzene	< 0.5	1,1,1-Trichloroethane	< 0.5
Chloroethane	< 0.5	1,1,2-Trichloroethane	< 0.5
2-Chloroethylvinyl ether	< 0.5	Trichloroethene	< 0.5
Chloroform	< 0.5	Toluene	< 0.5
Chloromethane	< 0.5	Vinyl chloride	< 0.5
Dibromochloromethane	< 0.5	1,2-Dichlorobenzene	< 0.5
1,1-Dichloroethane	< 0.5	1,3-Dichlorobenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,4-Dichlorobenzene	< 0.5
1,1-Dichloroethene	< 0.2		

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NOTE: Methods 601 & 602 of the EPA were used for this analysis.

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Date Sampled: 08/28/87
Date Received: 08/31/87
Date Extracted: 09/04/87
Date Reported: 09/16/87
Project No. JCO-104H

Sample Number	Sample Description
7082427	Water, V-1

PHENOLIC COMPOUNDS
results in ppb

4-Chloro-3-methylphenol	< 1
2-Chlorophenol	< 1
2,4-Dichlorophenol	< 1
2,4-Dimethylphenol	< 1
2,4-Dinitrophenol	< 1
2-Methyl-4,6-dinitrophenol	< 1
2-Nitrophenol	< 1
4-Nitrophenol	< 1
Pentachlorophenol	< 1
Phenol	< 1
2,4,6-Trichlorophenol	< 1

NOTE: Method 604 of the EPA was used for this analysis.

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Date Received: 08/31/87
Date Reported: 09/16/87
Project No. JCO-104H

Sample Number	Sample Description
7082427	Water, V-1

ANALYSIS

Methanol, ppm	< 1
Ethanol, ppm	< 1
Isopropyl Alcohol, ppm	< 1
Acetone, ppm	< 1
Methyl Ethyl Ketone, ppb	< 0.5
Xylene, ppb	< 0.5

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Date Reported: 09/16/87
Project No. JCO-104H

Sample Number	Sample Description
7082428	Water, V-2

PRIORITY POLLUTANTS

VOLATILE ORGANIC COMPOUNDS
results in ppb

Acrolein	< 10,000	trans-1,2-Dichloroethene	< [illegible]
Acrylonitrile	< 10,000	1,2-Dichloropropane	< 50
Benzene	< 50	1,3-Dichloropropene	< 50
Bromomethane	< 50	Ethylbenzene	< 50
Bromodichloromethane	< 50	Methylene chloride	270
Bromoform	< 50	1,1,2,2-Tetrachloroethane	< 50
Carbon tetrachloride	< 50	Tetrachloroethene	< 50
Chlorobenzene	< 50	1,1,1-Trichloroethane	270
Chloroethane	< 50	1,1,2-Trichloroethane	< 50
2-Chloroethylvinyl ether	< 50	Trichloroethene	< 50
Chloroform	< 50	Toluene	< 50
Chloromethane	< 50	Vinyl chloride	< 50
Dibromochloromethane	< 50	1,2-Dichlorobenzene	< 50
1,1-Dichloroethane	630	1,3-Dichlorobenzene	< 50
1,2-Dichloroethane	< 50	1,4-Dichlorobenzene	< 50
1,1-Dichloroethene	< 50		

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Date Received: 08/31/87
Date Extracted: 09/04/87
Date Reported: 09/16/87
Project No. JCO-104H

Sample Number	Sample Description
7082428	Water, V-2

PHENOLIC COMPOUNDS
results in ppb

4-Chloro-3-methylphenol	< 1
2-Chlorophenol	< 1
2,4-Dichlorophenol	< 1
2,4-Dimethylphenol	< 1
2,4-Dinitrophenol	< 1
2-Methyl-4,6-dinitrophenol	< 1
2-Nitrophenol	< 1
4-Nitrophenol	< 1
Pentachlorophenol	< 1
Phenol	< 1
2,4,6-Trichlorophenol	< 1

NOTE: Method 604 of the EPA was used for this analysis.

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Date Received: 08/31/87
Date Reported: 09/16/87
Project No. JCO-104H

Sample Number	Sample Description
7082428	Water, V-2

ANALYSIS

Methanol, ppm	< 1
Ethanol, ppm	< 1
Isopropyl Alcohol, ppm	< 1
Acetone, ppm	< 1
Methyl Ethyl Ketone, ppb	<50
Xylene, ppb	<50

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Date Received: 08/31/87
Date Extracted: 09/11/87
Date Reported: 09/16/87
Project No. JCO-104H

Sample Number	Sample Description
7082437	Water, V-2 Duplicate

PRIORITY POLLUTANTS

VOLATILE ORGANIC COMPOUNDS
results in ppb

crolein	< 10,000	trans-1,2-Dichloroethene	< 50
crylonitrile	< 10,000	1,2-Dichloropropane	< 50
enzene	< 50	1,3-Dichloropropene	< 50
romomethane	< 50	Ethylbenzene	< 50
romodichloromethane	< 50	Methylene chloride	200
romoform	< 50	1,1,2,2-Tetrachloroethane	< 50
arbon tetrachloride	< 50	Tetrachloroethene	< 50
hlorobenzene	< 50	1,1,1-Trichloroethane	250
hloroethane	< 50	1,1,2-Trichloroethane	< 50
-Chloroethylvinyl ether	< 50	Trichloroethene	< 50
hloroform	< 50	Toluene	< 50
hloromethane	< 50	Vinyl chloride	< 50
ibromochloromethane	< 50	1,2-Dichlorobenzene	< 50
1-Dichloroethane	570	1,3-Dichlorobenzene	< 50
2-Dichloroethane	< 50	1,4-Dichlorobenzene	< 50
1-Dichloroethene	< 20		

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NOTE: Methods 601 & 602 of the EPA were used for this analysis.

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Date Received: 08/31/87
Date Reported: 09/16/87
Project No. JCO-104H

Sample Number	Sample Description
7082437	Water, V-2, Duplicate

ANALYSIS

Methyl Ethyl Ketone, ppm	< 50
Xylenes	< 50

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Date Reported: 09/16/87
Project No. JCO-104H

Sample Number	Sample Description
7082429	Water, V-3

PRIORITY POLLUTANTS

VOLATILE ORGANIC COMPOUNDS

results in ppb

Acrolein	<100	trans-1,2-Dichloroethene	12
Acrylonitrile	<100	1,2-Dichloropropane	< 0.5
Benzene	< 0.5	1,3-Dichloropropene	< 0.5
Bromomethane	< 0.5	Ethylbenzene	< 0.5
Bromodichloromethane	< 0.5	Methylene chloride	6.3
Bromoform	< 0.5	1,1,2,2-Tetrachloroethane	< 0.5
Carbon tetrachloride	< 0.5	Tetrachloroethene	< 0.5
Chlorobenzene	< 0.5	1,1,1-Trichloroethane	1.8
Chloroethane	< 0.5	1,1,2-Trichloroethane	< 0.5
2-Chloroethylvinyl ether	< 0.5	Trichloroethene	< 0.5
Chloroform	< 0.5	Toluene	< 0.5
Chloromethane	< 0.5	Vinyl chloride	< 0.5
Dibromochloromethane	< 0.5	1,2-Dichlorobenzene	< 0.5
1,1-Dichloroethane	15	1,3-Dichlorobenzene	< 0.5
1,2-Dichloroethane	1.0	1,4-Dichlorobenzene	< 0.5
1,1-Dichloroethene	1.3		

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NOTE: Methods 601 & 602 of the EPA were used for this analysis.

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Date Reported: 09/16/87
Project No. JCO-104H

Sample Number	Sample Description
7082429	Water, V-3

PHENOLIC COMPOUNDS
results in ppb

4-Chloro-3-methylphenol	< 1
2-Chlorophenol	< 1
2,4-Dichlorophenol	< 1
2,4-Dimethylphenol	< 1
2,4-Dinitrophenol	< 1
2-Methyl-4,6-dinitrophenol	< 1
2-Nitrophenol	< 1
4-Nitrophenol	< 1
Pentachlorophenol	< 1
Phenol	< 1
2,4,6-Trichlorophenol	< 1

NOTE: Method 604 of the EPA was used for this analysis.

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Project No. JCO-104H

Sample Number	Sample Description
7082429	Water, V-3

ANALYSIS

Methanol, ppm	< 1
Ethanol, ppm	< 1
Isopropyl Alcohol, ppm	< 1
Acetone, ppm	< 1
Methyl Ethyl Ketone, ppb	< 0.5
Xylene, ppb	8.0

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Project No. JCO-104H

Sample Number	Sample Description
7082430	Water, V-4

PRIORITY POLLUTANTS

VOLATILE ORGANIC COMPOUNDS
results in ppb

Acrolein	< 10,000	trans-1,2-Dichloroethene	< 5.0
Acrylonitrile	< 10,000	1,2-Dichloropropane	< 5.0
Benzene	< 5.0	1,3-Dichloropropene	< 5.0
Bromomethane	< 5.0	Ethylbenzene	< 5.0
Bromodichloromethane	< 5.0	Methylene chloride	< 5.0
Bromoform	< 5.0	1,1,2,2-Tetrachloroethane	< 5.0
Carbon tetrachloride	< 5.0	Tetrachloroethene	< 5.0
Chlorobenzene	< 5.0	1,1,1-Trichloroethane	60
Chloroethane	< 5.0	1,1,2-Trichloroethane	< 5.0
2-Chloroethylvinyl ether	< 5.0	Trichloroethene	< 5.0
Chloroform	< 5.0	Toluene	< 5.0
Chloromethane	< 5.0	Vinyl chloride	< 5.0
Dibromochloromethane	< 5.0	1,2-Dichlorobenzene	< 5.0
1,1-Dichloroethane	400	1,3-Dichlorobenzene	< 5.0
1,2-Dichloroethane	< 5.0	1,4-Dichlorobenzene	< 5.0
1,1-Dichloroethene	36		

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NOTE: Methods 601 & 602 of the EPA were used for this analysis.

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Date Received: 08/31/87
Date Extracted: 09/04/87
Date Reported: 09/16/87
Project No. JCO-104H

Sample Number	Sample Description
7082430	Water, V-4

PHENOLIC COMPOUNDS
results in ppb

4-Chloro-3-methylphenol	< 1
2-Chlorophenol	< 1
2,4-Dichlorophenol	< 1
2,4-Dimethylphenol	< 1
2,4-Dinitrophenol	< 1
2-Methyl-4,6-dinitrophenol	< 1
2-Nitrophenol	< 1
4-Nitrophenol	< 1
Pentachlorophenol	< 1
Phenol	< 1
2,4,6-Trichlorophenol	< 1

NOTE: Method 604 of the EPA was used for this analysis.

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Project No. JCO-104H

Sample Number	Sample Description
7082430	Water, V-4

ANALYSIS

Methanol, ppm	< 1
Ethanol, ppm	< 1
Isopropyl Alcohol, ppm	< 1
Acetone, ppm	< 1
Methyl Ethyl Ketone, ppb	< 5
Xylene, ppb	< 5

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Project No. JCO-104H

Sample Number	Sample Description
7082431	Water, V-5

PRIORITY POLLUTANTS

VOLATILE ORGANIC COMPOUNDS

results in ppb

Acrolein	<100	trans-1,2-Dichloroethene	< 0.5
Acrylonitrile	<100	1,2-Dichloropropane	< 0.5
Benzene	< 0.5	1,3-Dichloropropene	< 0.5
Bromomethane	< 0.5	Ethylbenzene	< 0.5
Bromodichloromethane	< 0.5	Methylene chloride	< 0.5
Bromoform	< 0.5	1,1,2,2-Tetrachloroethane	< 0.5
Carbon tetrachloride	< 0.5	Tetrachloroethene	< 0.5
Chlorobenzene	< 0.5	1,1,1-Trichloroethane	< 0.5
Chloroethane	< 0.5	1,1,2-Trichloroethane	< 0.5
2-Chloroethylvinyl ether	< 0.5	Trichloroethene	< 0.5
Chloroform	< 0.5	Toluene	< 0.5
Chloromethane	< 0.5	Vinyl chloride	< 0.5
Dibromochloromethane	< 0.5	1,2-Dichlorobenzene	< 0.5
1,1-Dichloroethane	< 0.5	1,3-Dichlorobenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,4-Dichlorobenzene	< 0.5
1,1-Dichloroethene	< 0.2		

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NOTE: Methods 601 & 602 of the EPA were used for this analysis.

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Date Reported: 09/16/87
Project No. JCO-104H

Sample Number	Sample Description
7082431	Water, V-5

PHENOLIC COMPOUNDS
results in ppb

4-Chloro-3-methylphenol	< 1
2-Chlorophenol	< 1
2,4-Dichlorophenol	< 1
2,4-Dimethylphenol	< 1
2,4-Dinitrophenol	< 1
2-Methyl-4,6-dinitrophenol	< 1
2-Nitrophenol	< 1
4-Nitrophenol	< 1
Pentachlorophenol	< 1
Phenol	< 1
2,4,6-Trichlorophenol	< 1

NOTE: Method 604 of the EPA was used for this analysis.

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Project No. JCO-104H

Sample Number	Sample Description
7082431	Water, V-5

ANALYSIS

Methanol, ppm	< 1
Ethanol, ppm	< 1
Isopropyl Alcohol, ppm	< 1
Acetone, ppm	< 1
Methyl Ethyl Ketone, ppb	< 0.5
Xylene, ppb	< 0.5

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Project No. JCO-104H

Sample Number	Sample Description
7082432	Water, V-6

PRIORITY POLLUTANTS

VOLATILE ORGANIC COMPOUNDS

results in ppb

Acrolein	<100	trans-1,2-Dichloroethene	< 0.5
Acrylonitrile	<100	1,2-Dichloropropane	< 0.5
Benzene	< 0.5	1,3-Dichloropropene	< 0.5
Bromomethane	< 0.5	Ethylbenzene	< 0.5
Bromodichloromethane	< 0.5	Methylene chloride	< 0.5
Bromoform	< 0.5	1,1,2,2-Tetrachloroethane	< 0.5
Carbon tetrachloride	< 0.5	Tetrachloroethene	< 0.5
Chlorobenzene	< 0.5	1,1,1-Trichloroethane	2.5
Chloroethane	< 0.5	1,1,2-Trichloroethane	< 0.5
2-Chloroethylvinyl ether	< 0.5	Trichloroethene	< 0.5
Chloroform	< 0.5	Toluene	< 0.5
Chloromethane	< 0.5	Vinyl chloride	< 0.5
Dibromochloromethane	< 0.5	1,2-Dichlorobenzene	< 0.5
1,1-Dichloroethane	< 0.5	1,3-Dichlorobenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,4-Dichlorobenzene	< 0.5
1,1-Dichloroethene	< 0.2		

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NOTE: Methods 601 & 602 of the EPA were used for this analysis.

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Project No. JCO-104H

Sample Number	Sample Description
7082432	Water, V-6

PHENOLIC COMPOUNDS
results in ppb

4-Chloro-3-methylphenol	< 1
2-Chlorophenol	< 1
2,4-Dichlorophenol	< 1
2,4-Dimethylphenol	< 1
2,4-Dinitrophenol	< 1
2-Methyl-4,6-dinitrophenol	< 1
2-Nitrophenol	< 1
4-Nitrophenol	< 1
Pentachlorophenol	< 1
Phenol	< 1
2,4,6-Trichlorophenol	< 1

NOTE: Method 604 of the EPA was used for this analysis.

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Date Received: 08/31/87
Date Reported: 09/16/87
Project No. JCO-104H

Sample Number	Sample Description
7082432	Water, V-6

ANALYSIS

Methanol, ppm	< 1
Ethanol, ppm	< 1
Isopropyl Alcohol, ppm	< 1
Acetone, ppm	< 1
Methyl Ethyl Ketone, ppb	< 0.5
Xylene, ppb	< 0.5

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Project No. JCO-104H

Sample Number	Sample Description
7082433	Water, V-7

PRIORITY POLLUTANTS

VOLATILE ORGANIC COMPOUNDS

results in ppb

Acrolein	<100	trans-1,2-Dichloroethene	< 0.5
Acrylonitrile	<100	1,2-Dichloropropane	< 0.5
Benzene	< 0.5	1,3-Dichloropropene	< 0.5
Bromomethane	< 0.5	Ethylbenzene	< 0.5
Bromodichloromethane	< 0.5	Methylene chloride	< 0.5
Bromoform	< 0.5	1,1,2,2-Tetrachloroethane	< 0.5
Carbon tetrachloride	< 0.5	Tetrachloroethene	< 0.5
Chlorobenzene	< 0.5	1,1,1-Trichloroethane	16
Chloroethane	< 0.5	1,1,2-Trichloroethane	< 0.5
2-Chloroethylvinyl ether	< 0.5	Trichloroethene	< 0.5
Chloroform	< 0.5	Toluene	< 0.5
Chloromethane	< 0.5	Vinyl chloride	< 0.5
Dibromochloromethane	< 0.5	1,2-Dichlorobenzene	< 0.5
1,1-Dichloroethane	24	1,3-Dichlorobenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,4-Dichlorobenzene	< 0.5
1,1-Dichloroethene	1.9		

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NOTE: Methods 601 & 602 of the EPA were used for this analysis.

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Date Extracted: 09/04/87
Date Reported: 09/16/87
Project No. JCO-104H

Sample Number	Sample Description
7082433	Water, V-7

PHENOLIC COMPOUNDS
results in ppb

4-Chloro-3-methylphenol	< 1
2-Chlorophenol	< 1
2,4-Dichlorophenol	< 1
2,4-Dimethylphenol	< 1
2,4-Dinitrophenol	< 1
2-Methyl-4,6-dinitrophenol	< 1
2-Nitrophenol	< 1
4-Nitrophenol	< 1
Pentachlorophenol	< 1
Phenol	< 1
2,4,6-Trichlorophenol	< 1

NOTE: Method 604 of the EPA was used for this analysis.

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Attn: Bob Breynaert

Date Sampled: 08/28/87
Date Received: 08/31/87
Date Reported: 09/16/87
Project No. JCO-104H

Sample Number	Sample Description
7082433	Water, V-7

ANALYSIS

Methanol, ppm	< 1
Ethanol, ppm	< 1
Isopropyl Alcohol, ppm	< 1
Acetone, ppm	< 1
Methyl Ethyl Ketone, ppb	< 0.5
Xylene, ppb	< 0.5

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Date Sampled: 08/28/87
Date Received: 08/31/87
Date Extracted: 09/11/87
Date Reported: 09/16/87
Project No. JCO-104H

Sample Number	Sample Description
7082434	Water, I-1

PRIORITY POLLUTANTS

VOLATILE ORGANIC COMPOUNDS

results in ppb

Acrolein	<100	trans-1,2-Dichloroethene	< 0.5
Acrylonitrile	<100	1,2-Dichloropropane	< 0.5
Benzene	< 0.5	1,3-Dichloropropene	< 0.5
Bromomethane	< 0.5	Ethylbenzene	< 0.5
Bromodichloromethane	< 0.5	Methylene chloride	< 0.5
Bromoform	< 0.5	1,1,2,2-Tetrachloroethane	< 0.5
Carbon tetrachloride	< 0.5	Tetrachloroethene	< 0.5
Chlorobenzene	< 0.5	1,1,1-Trichloroethane	1.9
Chloroethane	< 0.5	1,1,2-Trichloroethane	< 0.5
2-Chloroethylvinyl ether	< 0.5	Trichloroethene	< 0.5
Chloroform	< 0.5	Toluene	< 0.5
Chloromethane	< 0.5	Vinyl chloride	< 0.5
Dibromochloromethane	< 0.5	1,2-Dichlorobenzene	< 0.5
1,1-Dichloroethane	2.3	1,3-Dichlorobenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,4-Dichlorobenzene	< 0.5
1,1-Dichloroethene	< 0.2		

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NOTE: Methods 601 & 602 of the EPA were used for this analysis.

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Date Sampled: 08/28/87
Date Received: 08/31/87
Date Extracted: 09/04/87
Date Reported: 09/16/87
Project No. JCO-104H

Sample Number	Sample Description
7082434	Water, I-1

PHENOLIC COMPOUNDS
results in ppb

4-Chloro-3-methylphenol	< 1
2-Chlorophenol	< 1
2,4-Dichlorophenol	< 1
2,4-Dimethylphenol	< 1
2,4-Dinitrophenol	< 1
2-Methyl-4,6-dinitrophenol	< 1
2-Nitrophenol	< 1
4-Nitrophenol	< 1
Pentachlorophenol	< 1
Phenol	< 1
2,4,6-Trichlorophenol	< 1

NOTE: Method 604 of the EPA was used for this analysis.

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Date Sampled: 08/28/87
Date Received: 08/31/87
Date Reported: 09/16/87
Project No. JCO-104H

Sample Number	Sample Description
7082434	Water, I-1

ANALYSIS

Methanol, ppm	< 1
Ethanol, ppm	< 1
Isopropyl Alcohol, ppm	< 1
Acetone, ppm	< 1
Methyl Ethyl Ketone, ppb	< 0.5
Xylene, ppb	< 0.5

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Date Received: 08/31/87
Date Extracted: 09/09/87
Date Reported: 09/16/87
Project No. JCO-104H

Sample Number	Sample Description
7082435	Water, I-2

PRIORITY POLLUTANTS

VOLATILE ORGANIC COMPOUNDS

results in ppb

Acrolein	<100	trans-1,2-Dichloroethene	< 0.5
Acrylonitrile	<100	1,2-Dichloropropane	< 0.5
Benzene	< 0.5	1,3-Dichloropropene	< 0.5
Bromomethane	< 0.5	Ethylbenzene	< 0.5
Bromodichloromethane	< 0.5	Methylene chloride	< 0.5
Bromoform	< 0.5	1,1,2,2-Tetrachloroethane	< 0.5
Carbon tetrachloride	< 0.5	Tetrachloroethene	< 0.5
Chlorobenzene	< 0.5	1,1,1-Trichloroethane	6.8
Chloroethane	< 0.5	1,1,2-Trichloroethane	< 0.5
2-Chloroethylvinyl ether	< 0.5	Trichloroethene	< 0.5
Chloroform	< 0.5	Toluene	< 0.5
Chloromethane	< 0.5	Vinyl chloride	< 0.5
Dibromochloromethane	< 0.5	1,2-Dichlorobenzene	< 0.5
1,1-Dichloroethane	14	1,3-Dichlorobenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,4-Dichlorobenzene	< 0.5
1,1-Dichloroethene	7.1		

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NOTE: Method 624 of the EPA was used for this analysis.

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Date Received: 08/31/87
Date Extracted: 09/09/87
Date Reported: 09/16/87
Project No. JCO-104H

Sample Number	Sample Description
7082435	Water, I-2

- Open Scan -
NON-PRIORITY POLLUTANTS
VOLATILE ORGANIC COMPOUNDS
results in ppb

No additional peaks > 10 ppb were detected for identification by NBS spectral library.

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Date Sampled: 08/28/87
Date Received: 08/31/87
Date Extracted: 09/09/87
Date Reported: 09/16/87
Project No. JCO-104H

Sample Number	Sample Description
7082436	Water, I-3

PRIORITY POLLUTANTS

VOLATILE ORGANIC COMPOUNDS

results in ppb

Acrolein	<100	trans-1,2-Dichloroethene	< 0.5
Acrylonitrile	<100	1,2-Dichloropropane	< 0.5
Benzene	< 0.5	1,3-Dichloropropene	< 0.5
Bromomethane	< 0.5	Ethylbenzene	< 0.5
Bromodichloromethane	< 0.5	Methylene chloride	< 0.5
Bromoform	< 0.5	1,1,2,2-Tetrachloroethane	< 0.5
Carbon tetrachloride	< 0.5	Tetrachloroethene	< 0.5
Chlorobenzene	< 0.5	1,1,1-Trichloroethane	< 0.5
Chloroethane	< 0.5	1,1,2-Trichloroethane	< 0.5
2-Chloroethylvinyl ether	< 0.5	Trichloroethene	< 0.5
Chloroform	< 0.5	Toluene	< 0.5
Chloromethane	< 0.5	Vinyl chloride	< 0.5
Dibromochloromethane	< 0.5	1,2-Dichlorobenzene	< 0.5
1,1-Dichloroethane	< 0.5	1,3-Dichlorobenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,4-Dichlorobenzene	< 0.5
1,1-Dichloroethene	< 0.2		

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NOTE: Method 624 of the EPA was used for this analysis.

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Date Sampled: 08/28/87
Date Received: 08/31/87
Date Extracted: 09/09/87
Date Reported: 09/16/87
Project No. JCO-104H

Sample Number	Sample Description
7082436	Water, I-3

- Open Scan -
NON-PRIORITY POLLUTANTS
VOLATILE ORGANIC COMPOUNDS
results in ppb

No additional peaks > 10 ppb were detected for identification by NBS spectral library.

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Date Sampled: 08/28/87
Date Received: 08/31/87
Date Extracted: 09/11/87
Date Reported: 09/16/87
Project No. JCO-104H

Sample Number	Sample Description
7082438	Water, Field Blank

PRIORITY POLLUTANTS

VOLATILE ORGANIC COMPOUNDS

results in ppb

Acrolein	<100	trans-1,2-Dichloroethene	< 0.5
Acrylonitrile	<100	1,2-Dichloropropane	< 0.5
Benzene	< 0.5	1,3-Dichloropropene	< 0.5
Bromomethane	< 0.5	Ethylbenzene	< 0.5
Bromodichloromethane	< 0.5	Methylene chloride	< 0.5
Bromoform	< 0.5	1,1,2,2-Tetrachloroethane	< 0.5
Carbon tetrachloride	< 0.5	Tetrachloroethene	< 0.5
Chlorobenzene	< 0.5	1,1,1-Trichloroethane	< 0.5
Chloroethane	< 0.5	1,1,2-Trichloroethane	< 0.5
2-Chloroethylvinyl ether	< 0.5	Trichloroethene	< 0.5
Chloroform	< 0.5	Toluene	< 0.5
Chloromethane	< 0.5	Vinyl chloride	< 0.5
Dibromochloromethane	< 0.5	1,2-Dichlorobenzene	< 0.5
1,1-Dichloroethane	< 0.5	1,3-Dichlorobenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,4-Dichlorobenzene	< 0.5
1,1-Dichloroethene	< 0.2		

SEQUOIA ANALYTICAL LABORATORY

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NOTE: Methods 601 & 602 of the EPA were used for this analysis.

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Date Sampled: 08/28/87
Date Received: 08/31/87
Date Reported: 09/16/87
Project No. JCO-104H

Sample Number	Sample Description
7082438	Water, Field Blank

ANALYSIS

Methyl Ethyl Ketone, ppm	< 0.5
Xylenes	< 0.5

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Date Sampled: 08/28/87
Date Received: 08/31/87
Date Extracted: 09/11/87
Date Reported: 09/16/87
Project No. JCO-104H

Sample Number	Sample Description
7082439	Water, Method Blank

PRIORITY POLLUTANTS

VOLATILE ORGANIC COMPOUNDS

results in ppb

Acrolein	<100	trans-1,2-Dichloroethene	< 0.5
Acrylonitrile	<100	1,2-Dichloropropane	< 0.5
Benzene	< 0.5	1,3-Dichloropropene	< 0.5
Bromomethane	< 0.5	Ethylbenzene	< 0.5
Bromodichloromethane	< 0.5	Methylene chloride	< 0.5
Bromoform	< 0.5	1,1,2,2-Tetrachloroethane	< 0.5
Carbon tetrachloride	< 0.5	Tetrachloroethene	< 0.5
Chlorobenzene	< 0.5	1,1,1-Trichloroethane	< 0.5
Chloroethane	< 0.5	1,1,2-Trichloroethane	< 0.5
2-Chloroethylvinyl ether	< 0.5	Trichloroethene	< 0.5
Chloroform	< 0.5	Toluene	< 0.5
Chloromethane	< 0.5	Vinyl chloride	< 0.5
Dibromochloromethane	< 0.5	1,2-Dichlorobenzene	< 0.5
1,1-Dichloroethane	< 0.5	1,3-Dichlorobenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,4-Dichlorobenzene	< 0.5
1,1-Dichloroethene	< 0.2		

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NOTE: Methods 601 & 602 of the EPA were used for this analysis.

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Date Sampled: 08/28/87
Date Received: 08/31/87
Date Reported: 09/16/87
Project No. JCO-104H

Sample Number	Sample Description
7082439	Water, Method Blank

ANALYSIS

Methyl Ethyl Ketone, ppm	< 0.5
Xylenes	< 0.5

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Date Sampled: 09/25/87
Date Received: 09/28/87
Date Reported: 10/13/87
Project No. JCO-104H

Sample Number	Sample Description Water,	Detection Limit ppm	Total Hydrocarbons as Paint Thinner ppm
7092015	V-1	1	< 1.0
7092016	V-2	1	< 1.0
7092017	V-3	1	< 1.0
7092018	V-4	1	< 1.0
7092019	V-5	1	< 1.0
7092020	V-6	1	< 1.0
7092021	V-7	1	< 1.0
7092022	I-1	1	< 1.0
7092023	I-2	1	< 1.0
7092024	I-3	1	< 1.0

NOTE: Analysis was performed using EPA methods 3550 and 8015.

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Date Sampled: 09/25/87
Date Received: 09/28/87
Date Extracted: 10/09/87
Date Reported: 10/13/87
Project No. JCO-104H

Sample Number	Sample Description
7092015	Water, V-1

PRIORITY POLLUTANTS

VOLATILE ORGANIC COMPOUNDS

results in ppb

Acrolein	<100	trans-1,2-Dichloroethene	1.4
Acrylonitrile	<100	1,2-Dichloropropane	< 0.5
Benzene	< 0.5	1,3-Dichloropropene	< 0.5
Bromomethane	< 0.5	Ethylbenzene	< 0.5
Bromodichloromethane	< 0.5	Methylene chloride	< 0.5
Bromoform	< 0.5	1,1,2,2-Tetrachloroethane	< 0.5
Carbon tetrachloride	< 0.5	Tetrachloroethene	< 0.5
Chlorobenzene	< 0.5	1,1,1-Trichloroethane	< 0.5
Chloroethane	< 0.5	1,1,2-Trichloroethane	< 0.5
2-Chloroethylvinyl ether	< 0.5	Trichloroethene	< 0.5
Chloroform	< 0.5	Toluene	< 0.5
Chloromethane	< 0.5	Vinyl chloride	< 0.5
Dibromochloromethane	< 0.5	1,2-Dichlorobenzene	< 0.5
1,1-Dichloroethane	3.9	1,3-Dichlorobenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,4-Dichlorobenzene	< 0.5
1,1-Dichloroethene	0.58		

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NOTE: Methods 601 & 602 of the EPA were used for this analysis.

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Date Sampled: 09/25/87
Date Received: 09/28/87
Date Extracted: 10/08/87
Date Reported: 10/13/87
Project No. JCO-104H

Sample Number	Sample Description
7092015	Water, V-1

PHENOLIC COMPOUNDS
results in ppb

4-Chloro-3-methylphenol	< 10
2-Chlorophenol	< 10
2,4-Dichlorophenol	< 10
2,4-Dimethylphenol	< 10
2,4-Dinitrophenol	< 10
2-Methyl-4,6-dinitrophenol	< 10
2-Nitrophenol	< 10
4-Nitrophenol	< 10
Pentachlorophenol	< 10
Phenol	< 10
2,4,6-Trichlorophenol	< 10

SEQUOIA ANALYTICAL LABORATORY

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NOTE: Method 625 of the EPA was used for this analysis.

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Date Received: 09/28/87
Date Reported: 10/13/87
Project No. JCO-104H

Sample Number	Sample Description
7092015	Water, V-1

ANALYSIS
results in ppb

Methyl-Ethyl Ketone	< 0.5
Xylenes	< 0.5
Methanol	<50
Ethanol	<50
Isopropanol	<50
Acetone	<50

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Date Sampled: 09/25/87
Date Received: 09/28/87
Date Extracted: 10/13/87
Date Reported:
Project No. JCO-104H

Sample Number	Sample Description
7092016	Water, V-2

PRIORITY POLLUTANTS

VOLATILE ORGANIC COMPOUNDS

results in ppb

Acrolein	<100	trans-1,2-Dichloroethene	< 50
Acrylonitrile	<100	1,2-Dichloropropane	< [illegible]
Benzene	< 50	1,3-Dichloropropene	< [illegible]
Bromomethane	< 50	Ethylbenzene	< 50
Bromodichloromethane	< 50	Methylene chloride	220
Bromoform	< 50	1,1,2,2-Tetrachloroethane	< 50
Carbon tetrachloride	< 50	Tetrachloroethene	< 50
Chlorobenzene	< 50	1,1,1-Trichloroethane	630
Chloroethane	< 50	1,1,2-Trichloroethane	< 50
2-Chloroethylvinyl ether	< 50	Trichloroethene	< 50
Chloroform	< 50	Toluene	< 50
Chloromethane	< 50	Vinyl chloride	< 50
Dibromochloromethane	< 50	1,2-Dichlorobenzene	< 50
1,1-Dichloroethane	490	1,3-Dichlorobenzene	< 50
1,2-Dichloroethane	< 50	1,4-Dichlorobenzene	< 50
1,1-Dichloroethene	< 50		

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NOTE: Methods 601 & 602 of the EPA were used for this analysis.

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Date Received: 09/28/87
Date Extracted: 10/08/87
Date Reported: 10/13/87
Project No. JCO-104H

Sample Number	Sample Description
7092016	Water, V-2

PHENOLIC COMPOUNDS
results in ppb

4-Chloro-3-methylphenol	< 10
2-Chlorophenol	< 10
2,4-Dichlorophenol	< 10
2,4-Dimethylphenol	< 10
2,4-Dinitrophenol	< 10
2-Methyl-4,6-dinitrophenol	< 10
2-Nitrophenol	< 10
4-Nitrophenol	< 10
Pentachlorophenol	< 10
Phenol	< 10
2,4,6-Trichlorophenol	< 10

SEQUOIA ANALYTICAL LABORATORY

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NOTE: Method 625 of the EPA was used for this analysis.

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Date Received: 09/28/87
Date Reported: 10/13/87
Project No. JCO-104H

Sample Number	Sample Description
7092016	Water, V-2

ANALYSIS
results in ppb

Methyl-Ethyl Ketone	< 0.5
Xylenes	26
Methanol	<50
Ethanol	<50
Isopropanol	<50
Acetone	950

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Date Extracted: 10/09/87
Date Reported: 10/13/87
Project No. JCO-104H

Sample Number	Sample Description
7092017	Water, V-3

PRIORITY POLLUTANTS

VOLATILE ORGANIC COMPOUNDS

results in ppb

Acrolein	<100	trans-1,2-Dichloroethene	9.1
Acrylonitrile	<100	1,2-Dichloropropane	< 0.5
Benzene	< 0.5	1,3-Dichloropropene	< 0.5
Bromomethane	< 0.5	Ethylbenzene	< 0.5
Bromodichloromethane	< 0.5	Methylene chloride	12
Bromoform	< 0.5	1,1,2,2-Tetrachloroethane	< 0.5
Carbon tetrachloride	< 0.5	Tetrachloroethene	< 0.5
Chlorobenzene	< 0.5	1,1,1-Trichloroethane	1.1
Chloroethane	< 0.5	1,1,2-Trichloroethane	< 0.5
2-Chloroethylvinyl ether	< 0.5	Trichloroethene	< 0.5
Chloroform	< 0.5	Toluene	< 0.5
Chloromethane	< 0.5	Vinyl chloride	0.68
Dibromochloromethane	< 0.5	1,2-Dichlorobenzene	< 0.5
1,1-Dichloroethane	6.6	1,3-Dichlorobenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,4-Dichlorobenzene	< 0.5
1,1-Dichloroethene	0.76		

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NOTE: Methods 601 & 602 of the EPA were used for this analysis.

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Date Received: 09/28/87
Date Extracted: 10/08/87
Date Reported: 10/13/87
Project No. JCO-104H

Sample Number	Sample Description
7092017	Water, V-3

PHENOLIC COMPOUNDS
results in ppb

4-Chloro-3-methylphenol	< 10
2-Chlorophenol	< 10
2,4-Dichlorophenol	< 10
2,4-Dimethylphenol	< 10
2,4-Dinitrophenol	< 10
2-Methyl-4,6-dinitrophenol	< 10
2-Nitrophenol	< 10
4-Nitrophenol	< 10
Pentachlorophenol	< 10
Phenol	< 10
2,4,6-Trichlorophenol	< 10

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

NOTE: Method 625 of the EPA was used for this analysis.

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Attn: Bob Breynaert

Date Sampled: 09/25/87
Date Received: 09/28/87
Date Reported: 10/13/87
Project No. JCO-104H

Sample Number	Sample Description
7092017	Water, V-3

ANALYSIS
results in ppb

Methyl-Ethyl Ketone	< 0.5
Xylenes	< 0.5
Methanol	<50
Ethanol	<50
Isopropanol	<50
Acetone	<50

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Date Sampled: 09/25/87
Date Received: 09/28/87
Date Extracted: 10/09/87
Date Reported: 10/13/87
Project No. JCO-104H

Sample Number	Sample Description
7092018	Water, V-4

PRIORITY POLLUTANTS

VOLATILE ORGANIC COMPOUNDS

results in ppb

Acrolein	<100		trans-1,2-Dichloroethene	<	5
Acrylonitrile	<100		1,2-Dichloropropane	<	5
Benzene	<	5	1,3-Dichloropropene	<	5
Bromomethane	<	5	Ethylbenzene	<	5
Bromodichloromethane	<	5	Methylene chloride	<	5
Bromoform	<	5	1,1,2,2-Tetrachloroethane	<	5
Carbon tetrachloride	<	5	Tetrachloroethene	<	5
Chlorobenzene	<	5	1,1,1-Trichloroethane		30
Chloroethane		39	1,1,2-Trichloroethane	<	5
2-Chloroethylvinyl ether	<	5	Trichloroethene	<	5
Chloroform	<	5	Toluene	<	5
Chloromethane	<	5	Vinyl chloride	<	5
Dibromochloromethane	<	5	1,2-Dichlorobenzene	<	5
1,1-Dichloroethane		310	1,3-Dichlorobenzene	<	5
1,2-Dichloroethane	<	5	1,4-Dichlorobenzene	<	5
1,1-Dichloroethene		14			

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Arthur G. Burton
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NOTE: Methods 601 & 602 of the EPA were used for this analysis.

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Date Sampled: 09/25/87
Date Received: 09/28/87
Date Extracted: 10/08/87
Date Reported: 10/13/87
Project No. JCO-104H

Sample Number	Sample Description
7092018	Water, V-4

PHENOLIC COMPOUNDS
results in ppb

4-Chloro-3-methylphenol	< 10
2-Chlorophenol	< 10
2,4-Dichlorophenol	< 10
2,4-Dimethylphenol	< 10
2,4-Dinitrophenol	< 10
2-Methyl-4,6-dinitrophenol	< 10
2-Nitrophenol	< 10
4-Nitrophenol	< 10
Pentachlorophenol	< 10
Phenol	< 10
2,4,6-Trichlorophenol	< 10

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Date Received: 09/28/87
Date Reported: 10/13/87
Project No. JCO-104H

Sample Number	Sample Description
7092018	Water, V-4

ANALYSIS
results in ppb

Methyl-Ethyl Ketone	< 0.5
Xylenes	< 0.5
Methanol	<50
Ethanol	<50
Isopropanol	<50
Acetone	<50

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Date Sampled: 09/25/87
Date Received: 09/28/87
Date Extracted: 10/09/87
Date Reported: 10/13/87
Project No. JCO-104H

Sample Number	Sample Description
7092019	Water, V-5

PRIORITY POLLUTANTS

VOLATILE ORGANIC COMPOUNDS
results in ppb

crolein	<100	trans-1,2-Dichloroethene	< 0.5
crylonitrile	<100	1,2-Dichloropropane	< 0.5
enzene	< 0.5	1,3-Dichloropropene	< 0.5
romomethane	< 0.5	Ethylbenzene	< 0.5
romodichloromethane	< 0.5	Methylene chloride	< 0.5
romoform	< 0.5	1,1,2,2-Tetrachloroethane	< 0.5
arbon tetrachloride	< 0.5	Tetrachloroethene	< 0.5
hlorobenzene	< 0.5	1,1,1-Trichloroethane	< 0.5
hloroethane	< 0.5	1,1,2-Trichloroethane	< 0.5
hloroethylvinyl ether	< 0.5	Trichloroethene	< 0.5
hloroform	< 0.5	Toluene	< 0.5
hloromethane	< 0.5	Vinyl chloride	< 0.5
hlorodibromomethane	< 0.5	1,2-Dichlorobenzene	< 0.5
1-Dichloroethane	< 0.5	1,3-Dichlorobenzene	< 0.5
2-Dichloroethane	< 0.5	1,4-Dichlorobenzene	< 0.5
1-Dichloroethene	< 0.2		

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Date Received: 09/28/87
Date Extracted: 10/08/87
Date Reported: 10/13/87
Project No. JCO-104H

Sample Number	Sample Description
7092019	Water, V-5

PHENOLIC COMPOUNDS
results in ppb

4-Chloro-3-methylphenol	< 10
2-Chlorophenol	< 10
2,4-Dichlorophenol	< 10
2,4-Dimethylphenol	< 10
2,4-Dinitrophenol	< 10
2-Methyl-4,6-dinitrophenol	< 10
2-Nitrophenol	< 10
4-Nitrophenol	< 10
Pentachlorophenol	< 10
Phenol	< 10
2,4,6-Trichlorophenol	< 10

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Date Sampled: 09/25/87
Date Received: 09/28/87
Date Reported: 10/13/87
Project No. JCO-104H

Sample Number	Sample Description
7092019	Water, V-5

ANALYSIS
results in ppb

Methyl-Ethyl Ketone	< 0.5
Xylenes	< 0.5
Methanol	<50
Ethanol	<50
Isopropanol	<50
Acetone	<50

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Date Sampled: 09/25/87
Date Received: 09/28/87
Date Extracted: 10/09/87
Date Reported: 10/13/87
Project No. JCO-104H

mple Number	Sample Description
7092020	Water, V-6

PRIORITY POLLUTANTS

VOLATILE ORGANIC COMPOUNDS
results in ppb

rolein	<100	trans-1,2-Dichloroethene	< 0.5
ylonitrile	<100	1,2-Dichloropropane	< 0.5
nzene	1.9	1,3-Dichloropropene	< 0.5
omomethane	< 0.5	Ethylbenzene	< 0.5
modichloromethane	< 0.5	Methylene chloride	< 0.5
moform	< 0.5	1,1,2,2-Tetrachloroethane	< 0.5
on tetrachloride	< 0.5	Tetrachloroethene	< 0.5
lorobenzene	< 0.5	1,1,1-Trichloroethane	4.5
roethane	< 0.5	1,1,2-Trichloroethane	< 0.5
loroethylvinyl ether	< 0.5	Trichloroethene	< 0.5
roform	< 0.5	Toluene	< 0.5
romethane	< 0.5	Vinyl chloride	< 0.5
romochloromethane	< 0.5	1,2-Dichlorobenzene	< 0.5
-Dichloroethane	< 0.5	1,3-Dichlorobenzene	< 0.5
-Dichloroethane	< 0.5	1,4-Dichlorobenzene	< 0.5
-Dichloroethene	< 0.2		

OIA ANALYTICAL LABORATORY

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NOTE: Methods 601 & 602 of the EPA were used for this analysis.

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Date Received: 09/28/87
Date Extracted: 10/08/87
Date Reported: 10/13/87
Project No. JCO-104H

Sample Number	Sample Description
7092020	Water, V-6

PHENOLIC COMPOUNDS
results in ppb

4-Chloro-3-methylphenol	< 10
2-Chlorophenol	< 10
2,4-Dichlorophenol	< 10
2,4-Dimethylphenol	< 10
2,4-Dinitrophenol	< 10
2-Methyl-4,6-dinitrophenol	< 10
2-Nitrophenol	< 10
4-Nitrophenol	< 10
Pentachlorophenol	< 10
Phenol	< 10
2,4,6-Trichlorophenol	< 10

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Date Sampled: 09/25/87
Date Received: 09/28/87
Date Reported: 10/13/87
Project No. JCO-104H

Sample Number	Sample Description
7092020	Water, V-6

ANALYSIS
results in ppb

Methyl-Ethyl Ketone	< 0.5
Xylenes	< 0.5
Methanol	<50
Ethanol	<50
Isopropanol	<50
Acetone	<50

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Date Sampled: 09/25/87
Date Received: 09/28/87
Date Extracted: 10/09/87
Date Reported: 10/13/87
Project No. JCO-104H

[illegible]ple Number	Sample Description
7092021	Water, V-7

PRIORITY POLLUTANTS

VOLATILE ORGANIC COMPOUNDS
results in ppb

[illegible]rolein	<100	trans-1,2-Dichloroethene	< 0.5
[illegible]ylonitrile	<100	1,2-Dichloropropane	< 0.5
[illegible]zene	< 0.5	1,3-Dichloropropene	< 0.5
[illegible]omomethane	< 0.5	Ethylbenzene	< 0.5
[illegible]modichloromethane	< 0.5	Methylene chloride	< 0.5
[illegible]moform	< 0.5	1,1,2,2-Tetrachloroethane	< 0.5
[illegible]on tetrachloride	< 0.5	Tetrachloroethene	< 0.5
[illegible]lorobenzene	< 0.5	1,1,1-Trichloroethane	23
[illegible]loroethane	< 0.5	1,1,2-Trichloroethane	< 0.5
[illegible]Chloroethylvinyl ether	< 0.5	Trichloroethene	< 0.5
[illegible]loroform	< 0.5	Toluene	< 0.5
[illegible]lomethane	< 0.5	Vinyl chloride	< 0.5
[illegible]romochloromethane	< 0.5	1,2-Dichlorobenzene	< 0.5
[illegible]-Dichloroethane	19	1,3-Dichlorobenzene	< 0.5
[illegible]-Dichloroethane	< 0.5	1,4-Dichlorobenzene	< 0.5
[illegible]-Dichloroethene	2.4		

[illegible]QUOIA ANALYTICAL LABORATORY

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[illegible]oratory Director

NOTE: Methods 601 & 602 of the EPA were used for this analysis.

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Date Sampled: 09/25/87
Date Received: 09/28/87
Date Extracted: 10/08/87
Date Reported: 10/13/87
Project No. JCO-104H

Sample Number	Sample Description
7092021	Water, V-7

PHENOLIC COMPOUNDS
results in ppb

4-Chloro-3-methylphenol	< 10
2-Chlorophenol	< 10
2,4-Dichlorophenol	< 10
2,4-Dimethylphenol	< 10
2,4-Dinitrophenol	< 10
2-Methyl-4,6-dinitrophenol	< 10
2-Nitrophenol	< 10
4-Nitrophenol	< 10
Pentachlorophenol	< 10
Phenol	< 10
2,4,6-Trichlorophenol	< 10

SEQUOIA ANALYTICAL LABORATORY

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Date Reported: 10/13/87
Project No. JCO-104H

Sample Number	Sample Description
7092021	Water, V-7

ANALYSIS
results in ppb

Methyl-Ethyl Ketone	< 0.5
Xylenes	< 0.5
Methanol	<50
Ethanol	<50
Isopropanol	<50
Acetone	<50

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Date Sampled: 09/25/87
Date Received: 09/28/87
Date Extracted: 10/09/87
Date Reported: 10/13/87
Project No. JCO-104H

Sample Number	Sample Description
7092022	Water I-1

PRIORITY POLLUTANTS

VOLATILE ORGANIC COMPOUNDS
results in ppb

Acrolein	<100	trans-1,2-Dichloroethene	< 0.5
Acrylonitrile	<100	1,2-Dichloropropane	< 0.5
Benzene	< 0.5	1,3-Dichloropropene	< 0.5
Bromomethane	< 0.5	Ethylbenzene	< 0.5
Bromodichloromethane	< 0.5	Methylene chloride	< 0.5
Bromoform	< 0.5	1,1,2,2-Tetrachloroethane	< 0.5
Carbon tetrachloride	< 0.5	Tetrachloroethene	< 0.5
Chlorobenzene	< 0.5	1,1,1-Trichloroethane	2.0
Chloroethane	< 0.5	1,1,2-Trichloroethane	< 0.5
2-Chloroethylvinyl ether	< 0.5	Trichloroethene	< 0.5
Chloroform	< 0.5	Toluene	< 0.5
Chloromethane	< 0.5	Vinyl chloride	< 0.5
Dibromochloromethane	< 0.5	1,2-Dichlorobenzene	< 0.5
1,1-Dichloroethane	3.0	1,3-Dichlorobenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,4-Dichlorobenzene	< 0.5
1,1-Dichloroethene	< 0.2		

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Date Extracted: 10/09/87
Date Reported: 10/13/87
Project No. JCO-104H

Sample Number	Sample Description
7092022	Water I-1

PHENOLIC COMPOUNDS
results in ppb

4-Chloro-3-methylphenol	< 10
2-Chlorophenol	< 10
2,4-Dichlorophenol	< 10
2,4-Dimethylphenol	< 10
2,4-Dinitrophenol	< 10
2-Methyl-4,6-dinitrophenol	< 10
2-Nitrophenol	< 10
4-Nitrophenol	< 10
Pentachlorophenol	< 10
Phenol	< 10
2,4,6-Trichlorophenol	< 10

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Date Reported: 10/13/87
Project No. JCO-104H

Sample Number	Sample Description
7092022	Water, I-1

ANALYSIS
results in ppb

Methyl-Ethyl Ketone	< 0.5
Xylenes	< 0.5
Methanol	<50
Ethanol	<50
Isopropanol	<50
Acetone	<50

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Date Received: 09/28/87
Date Extracted: 10/09/87
Date Reported: 10/13/87
Project No. JCO-104H

Sample Number	Sample Description
7092023	Water, I-2

PRIORITY POLLUTANTS

VOLATILE ORGANIC COMPOUNDS
results in ppb

Acrolein	<100	trans-1,2-Dichloroethene	< 0.5
Acrylonitrile	<100	1,2-Dichloropropane	< 0.5
Benzene	< 0.5	1,3-Dichloropropene	< 0.5
Bromomethane	< 0.5	Ethylbenzene	< 0.5
Bromodichloromethane	< 0.5	Methylene chloride	< 0.5
Bromoform	< 0.5	1,1,2,2-Tetrachloroethane	< 0.5
Carbon tetrachloride	< 0.5	Tetrachloroethene	< 0.5
Chlorobenzene	< 0.5	1,1,1-Trichloroethane	< 0.5
Chloroethane	< 0.5	1,1,2-Trichloroethane	< 0.5
2-Chloroethylvinyl ether	< 0.5	Trichloroethene	< 0.5
Chloroform	< 0.5	Toluene	< 0.5
Chloromethane	< 0.5	Vinyl chloride	< 0.5
Dibromochloromethane	< 0.5	1,2-Dichlorobenzene	< 0.5
1,1-Dichloroethane	< 0.5	1,3-Dichlorobenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,4-Dichlorobenzene	< 0.5
1,1-Dichloroethene	< 0.2		

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Date Received: 09/28/87
Date Extracted: 10/09/87
Date Reported: 10/13/87
Project No. JCO-104H

Sample Number	Sample Description
7092023	Water, I-2

PHENOLIC COMPOUNDS
results in ppb

4-Chloro-3-methylphenol	< 10
2-Chlorophenol	< 10
2,4-Dichlorophenol	< 10
2,4-Dimethylphenol	< 10
2,4-Dinitrophenol	< 10
2-Methyl-4,6-dinitrophenol	< 10
2-Nitrophenol	< 10
4-Nitrophenol	< 10
Pentachlorophenol	< 10
Phenol	< 10
2,4,6-Trichlorophenol	< 10

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Date Received: 09/28/87
Date Reported: 10/13/87
Project No. JCO-104H

Sample Number	Sample Description
7092023	Water, I-2

ANALYSIS
results in ppb

Methyl-Ethyl Ketone	< 0.5
Xylenes	< 0.5
Methanol	<50
Ethanol	<50
Isopropanol	<50
Acetone	<50

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Date Sampled: 09/25/87
Date Received: 09/28/87
Date Extracted: 10/09/87
Date Reported: 10/13/87
Project No. JCO-104H

Sample Number	Sample Description
7092024	Water, I-3

PRIORITY POLLUTANTS

VOLATILE ORGANIC COMPOUNDS
results in ppb

Acrolein	<100	trans-1,2-Dichloroethene	< 0.5
Acrylonitrile	<100	1,2-Dichloropropane	< 0.5
Benzene	< 0.5	1,3-Dichloropropene	< 0.5
Bromomethane	< 0.5	Ethylbenzene	< 0.5
Bromodichloromethane	< 0.5	Methylene chloride	< 0.5
Bromoform	< 0.5	1,1,2,2-Tetrachloroethane	< 0.5
Carbon tetrachloride	< 0.5	Tetrachloroethene	< 0.5
Chlorobenzene	< 0.5	1,1,1-Trichloroethane	< 0.5
Chloroethane	< 0.5	1,1,2-Trichloroethane	< 0.5
2-Chloroethylvinyl ether	< 0.5	Trichloroethene	< 0.5
Chloroform	< 0.5	Toluene	< 0.5
Chloromethane	< 0.5	Vinyl chloride	< 0.5
Dibromochloromethane	< 0.5	1,2-Dichlorobenzene	< 0.5
1,1-Dichloroethane	< 0.5	1,3-Dichlorobenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,4-Dichlorobenzene	< 0.5
1,1-Dichloroethene	< 0.2		

SEQUOIA ANALYTICAL LABORATORY

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NOTE: Methods 601 & 602 of the EPA were used for this analysis.

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Date Sampled: 09/25/87
Date Received: 09/28/87
Date Extracted: 10/09/87
Date Reported: 10/13/87
Project No. JCO-104H

Sample Number	Sample Description
7092024	Water, I-3

PHENOLIC COMPOUNDS
results in ppb

4-Chloro-3-methylphenol	< 10
2-Chlorophenol	< 10
2,4-Dichlorophenol	< 10
2,4-Dimethylphenol	< 10
2,4-Dinitrophenol	< 10
2-Methyl-4,6-dinitrophenol	< 10
2-Nitrophenol	< 10
4-Nitrophenol	< 10
Pentachlorophenol	< 10
Phenol	20
2,4,6-Trichlorophenol	< 10

SEQUOIA ANALYTICAL LABORATORY

Scot Cocanour

Arthur G. Burton
Laboratory Director

NOTE: Method 625 of the EPA was used for this analysis.

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 09/25/87
Date Received: 09/28/87
Date Reported: 10/13/87
Project No. JCO-104H

Sample Number	Sample Description
7092024	Water, I-3

ANALYSIS
results in ppb

Methyl-Ethyl Ketone	< 0.5
Xylenes	< 0.5
Methanol	<50
Ethanol	<50
Isopropanol	<50
Acetone	<50

SEQUOIA ANALYTICAL LABORATORY

Scott Cocanour

Arthur G. Burton
Laboratory Director

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 09/25/87
Date Received: 09/28/87
Date Extracted: 10/09/87
Date Reported: 10/13/87
Project No. JCO-104H

Sample Number	Sample Description
7092025	Water, V-4, Duplicate

PRIORITY POLLUTANTS

VOLATILE ORGANIC COMPOUNDS
results in ppb

Acrolein	<100		trans-1,2-Dichloroethene	<	5
Acrylonitrile	<100		1,2-Dichloropropane	<	5
Benzene	<	5	1,3-Dichloropropene	<	5
Bromomethane	<	5	Ethylbenzene	<	5
Bromodichloromethane	<	5	Methylene chloride	<	5
Bromoform	<	5	1,1,2,2-Tetrachloroethane	<	5
Carbon tetrachloride	<	5	Tetrachloroethene	<	5
Chlorobenzene	<	5	1,1,1-Trichloroethane		31
Chloroethane		63	1,1,2-Trichloroethane	<	5
2-Chloroethylvinyl ether	<	5	Trichloroethene	<	5
Chloroform	<	5	Toluene	<	5
Chloromethane	<	5	Vinyl chloride	<	5
Dibromochloromethane	<	5	1,2-Dichlorobenzene	<	5
1,1-Dichloroethane		300	1,3-Dichlorobenzene	<	5
1,2-Dichloroethane	<	5	1,4-Dichlorobenzene	<	5
1,1-Dichloroethene		16			

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

NOTE: Methods 601 & 602 of the EPA were used for this analysis.

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 09/25/87
Date Received: 09/28/87
Date Reported: 10/13/87
Project No. JCO-104H

Sample Number	Sample Description
7092025	Water, V-4, Duplicate

ANALYSIS
results in ppb

Methyl-Ethyl Ketone	< 0.5
Xylenes	< 0.5

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

APPENDIX D

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Robert Breynaert

Date Sampled: 08/20/87
Date Received: 08/20/87
Date Reported: 09/10/87
Project No. JCO-104H

Q.C. DATA REPORT

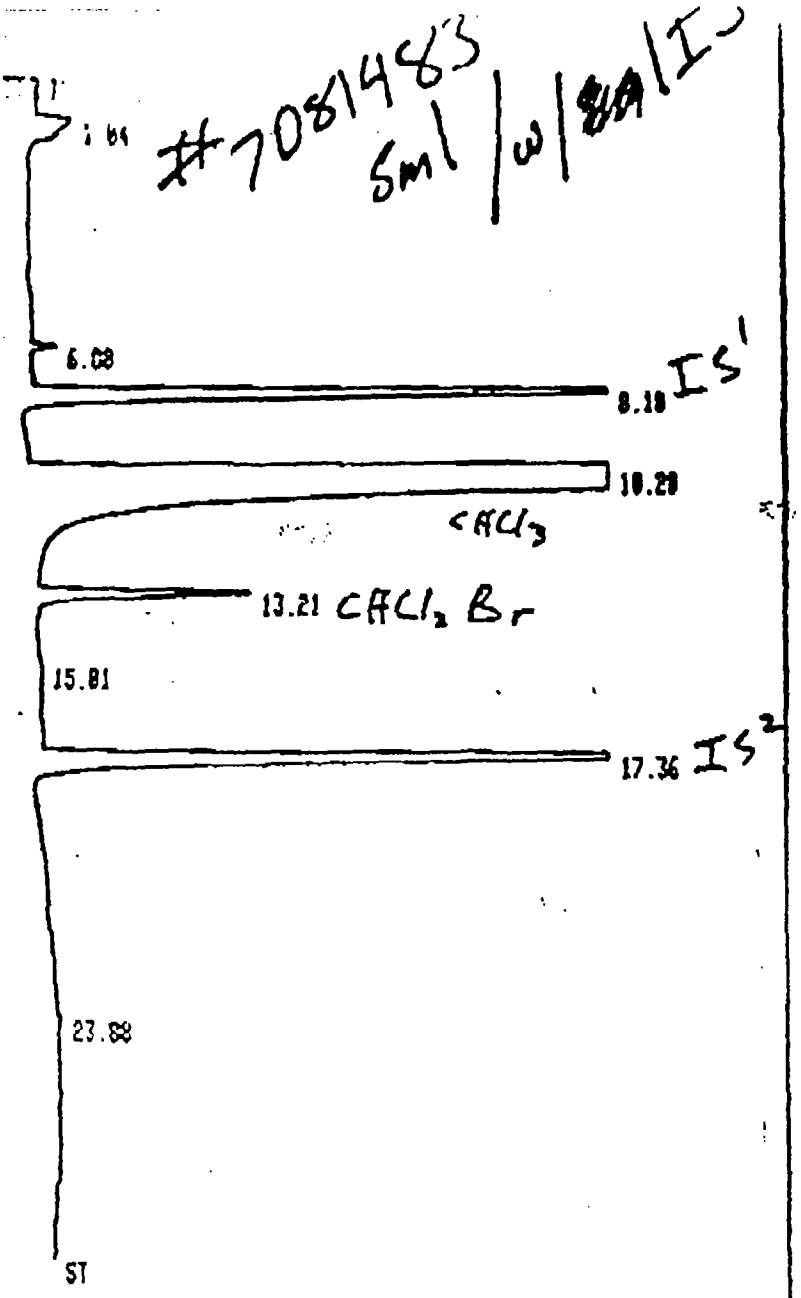
Sample Number	Original Result µg/L	Original Result µg/L	% Deviation
7081826	1.8	1.4	12

Sample Number	Original Result µg/L	Spike Added µg/L	Spike Result µg/L	% Recovery
7081826	1.5	2.0	3.2	85

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

mpr

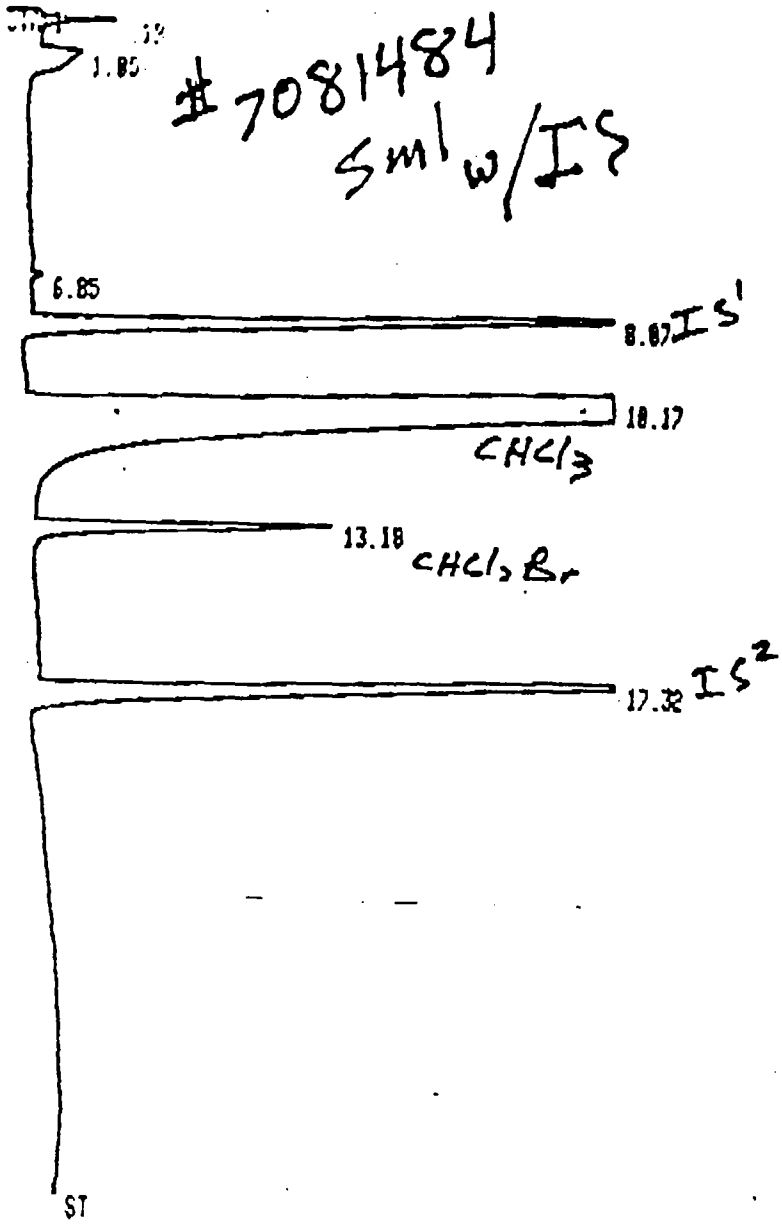


RUN # 297 SEP/03/87 09:27:54
ID -

ISTD

RT	AREA	TYPE	CAL#	AMOUNT
1.04	64510	PP		0.000
6.08	11747	PB	1	0.351
8.10	602680	VB	2&	30.000
10.20	3.3177E+07	PB	3	464.110
13.21	150320	BB	5	4.889
15.01	1552	PV	6	0.115
17.36	750580	BB	8R	41.475
23.08	3834	VB		0.000

TOTAL AREA= 3.4762E+07
ISTD AMT= 3.0000E+01
MUL FACTOR= 1.2000E+00



RUN # 298 SEP/03/87 10:03:27
ID -

ISTD

RT	AREA	TYPE	CAL#	AMOUNT
0.19	26467	BB		0.000
1.85	73099	BP		0.000
6.85	5144	BB	1	0.158
8.07	587090	PB	2&	30.000
10.17	3.3660E+07	PB	3	483.370
13.18	214890	PB	5	7.175
17.32	739690	PB	8R	41.958

TOTAL AREA= 3.5306E+07
ISTD AMT= 3.0000E+01
MUL FACTOR= 1.0000E+00

- plicate

RECEIVED
OCT 12 1987
WAHLER ASSOCIATES

THREE POINT CALIBRATION REPORT
EPA METHOD 601/602

Matrix : WATER
Date analyzed : 9-4-87

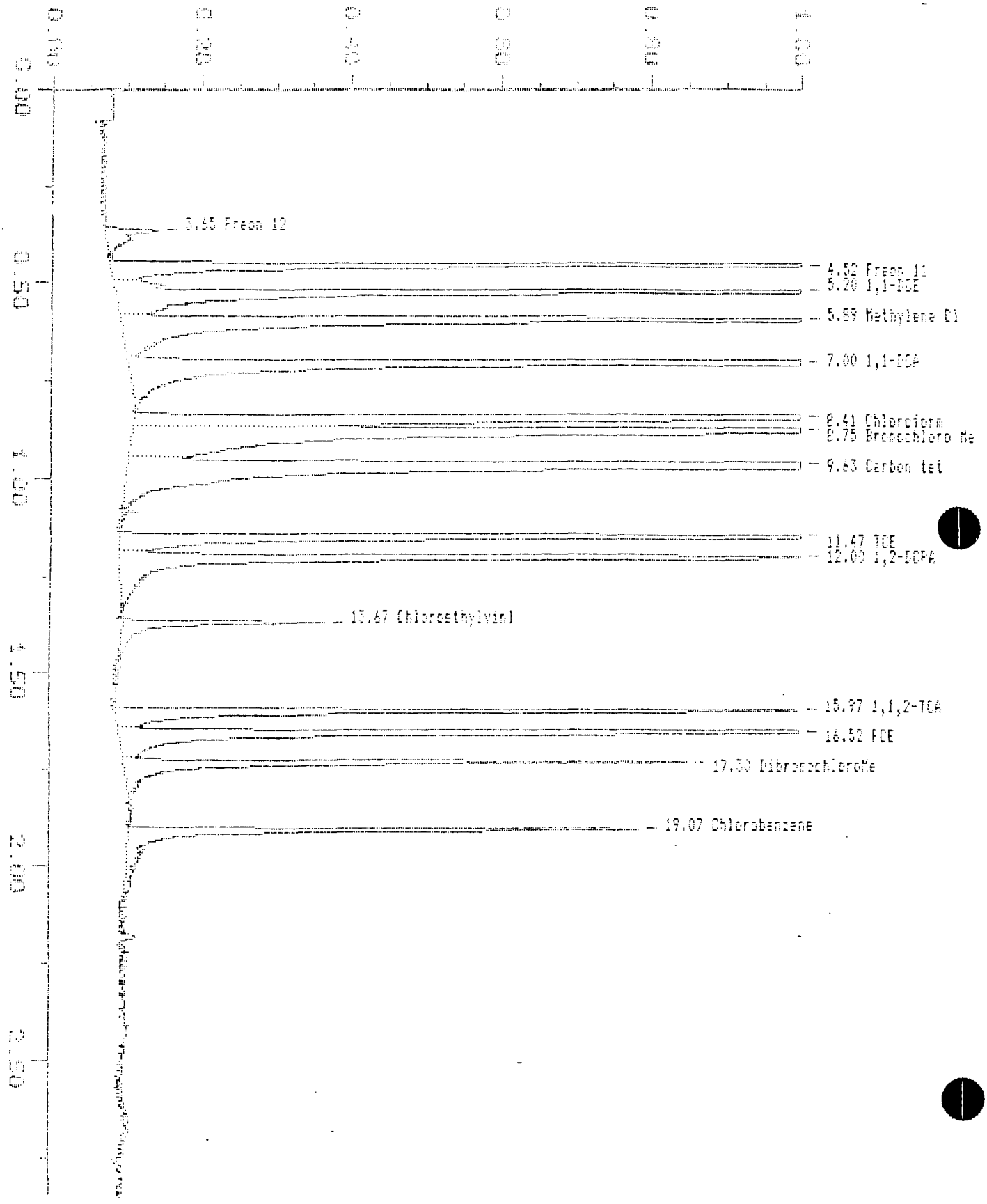
Analyst : MCT
Supervisor : BS

CALIBRATION FACTOR

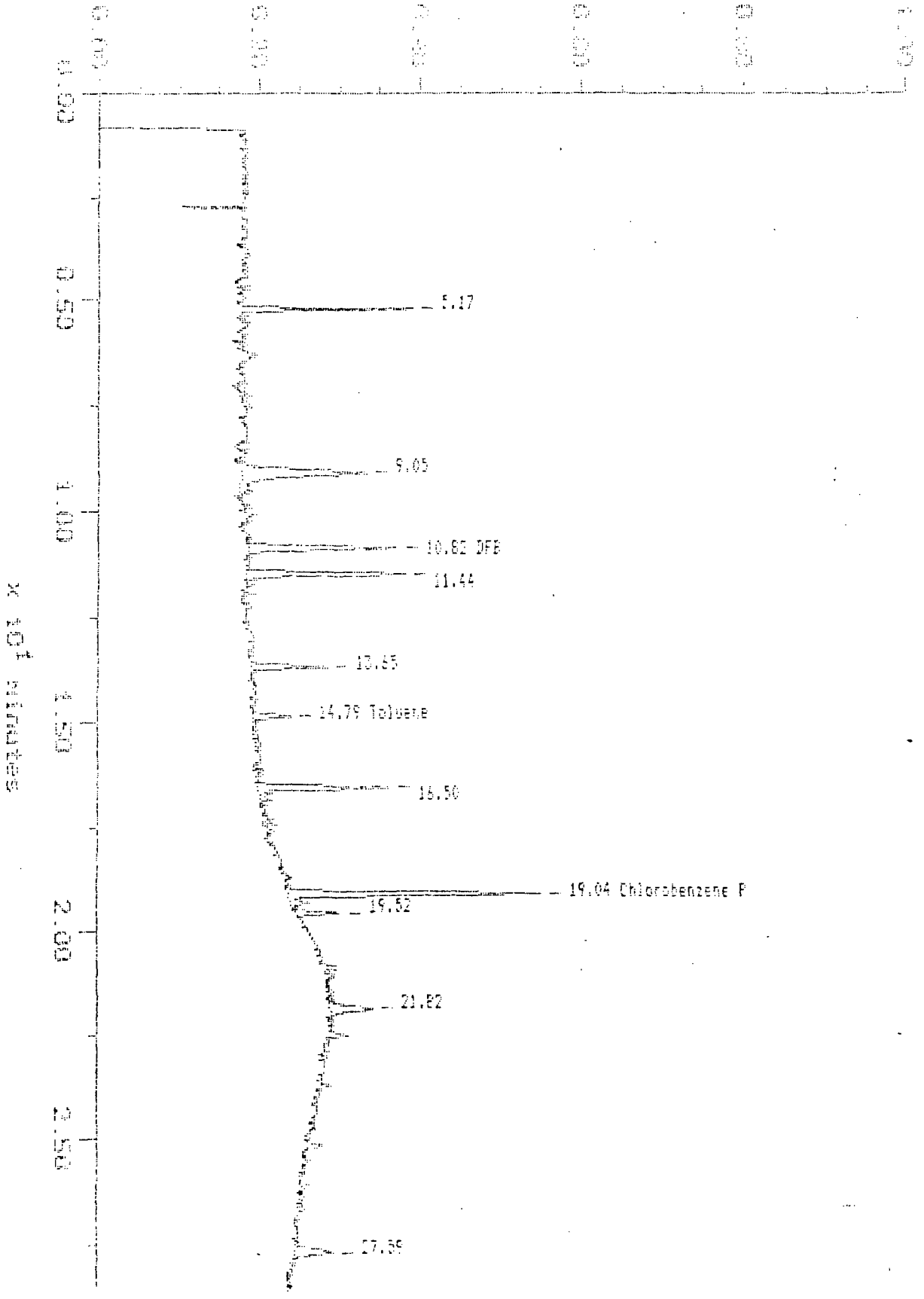
Compound Name	5PPB	10PPB	15PPB	AVG	RSD
----601 COMPOUNDS----					
DICHLORODIFLOUROMETHANE	1.84E+05	7.94E+04	1.40E+05	1.34E+05	32%
TRICHLOROFLOUROMETHANE	9.57E+05	1.19E+06	1.16E+06	1.10E+06	9%
1,1 DICHLOROETHENE	1.40E+06	1.69E+06	1.52E+06	1.54E+06	8%
METHYLENE CHLORIDE	1.90E+06	2.10E+06	1.79E+06	1.93E+06	7%
1,1 DICHLOROETHANE	1.85E+06	2.05E+06	1.93E+06	1.94E+06	4%
CHLOROFORM	2.23E+06	3.25E+06	2.31E+06	2.60E+06	18%
CARBON TETRACHLORIDE	3.12E+06	3.27E+06	3.01E+06	3.13E+06	3%
TRICHLOROETHENE	1.12E+06	1.32E+06	1.25E+06	1.23E+06	7%
1,2 DICHLOROPROPANE	1.11E+06	1.26E+06	1.25E+06	1.21E+06	6%
CHLOROETHYLVYNYLE ETHER	2.34E+05	2.96E+05	2.74E+05	2.68E+05	9%
1,1,2 TRICHLOROETHANE	7.69E+05	9.40E+05	9.40E+05	8.83E+05	9%
TETRACHLOROETHENE	1.30E+06	1.55E+06	1.46E+06	1.44E+06	7%
DIBROMOCHLOROMETHANE	6.04E+05	7.25E+05	7.87E+05	7.05E+05	11%
CHLOROBENZENE	5.52E+05	5.74E+05	5.58E+05	5.61E+05	2%
VINYL CHLORIDE+CHLOROMETH	9.34E+05	1.13E+06	1.29E+06	1.12E+06	13%
BROMOMETHANE+CHLOROETHANE	9.76E+05	1.16E+06	1.30E+06	1.15E+06	12%
TRICHLOROTRIFLOUROETHANE	1.31E+06	1.36E+06	1.27E+06	1.31E+06	3%
TRANS 1,2 DICHLOROETHENE	2.23E+06	2.31E+06	1.99E+06	2.18E+06	6%
CIS 1,2 DICHLOROETHENE	2.07E+06	2.25E+06	2.04E+06	2.12E+06	4%
1,1,1 TRICHLOROETHANE	4.16E+06	3.61E+06	3.15E+06	3.64E+06	11%
1,2 DICHLOROETHANE	1.32E+06	1.59E+06	1.12E+06	1.34E+06	14%
BROMODICHLOROMETHANE	1.11E+06	1.27E+06	1.31E+06	1.23E+06	7%
CIS 1,3 DICHLOROPROPENE	1.55E+06	1.60E+06	1.61E+06	1.59E+06	2%
TRANS 1,2 DICHLOROPROPENE	6.42E+05	7.67E+05	8.33E+05	7.47E+05	11%
BROMOFORM	1.81E+05	3.23E+05	3.65E+05	2.90E+05	27%
TETRACHLOROETHANE	6.67E+05	7.93E+05	8.06E+05	7.55E+05	8%
1,3 DICHLOROBENZENE	6.65E+05	7.96E+05	7.89E+05	7.50E+05	8%
1,4 DICHLOROBENZENE	8.58E+05	8.89E+05	8.68E+05	8.71E+05	1%
1,2 DICHLOROBENZENE	7.30E+05	8.26E+05	8.34E+05	7.97E+05	6%
----602 COMPOUNDS----					
CHLOROBENZENE	2.89E+05	2.58E+05	2.40E+05	2.62E+05	8%
BENZENE	2.71E+05	1.95E+05	2.29E+05	2.32E+05	13%
TOLUENE	3.07E+05	2.88E+05	2.50E+05	2.82E+05	8%
ETHYLBENZENE	2.71E+05	2.60E+05	2.30E+05	2.54E+05	7%
M+P-XYLENES	3.11E+05	2.95E+05	2.67E+05	2.91E+05	6%
O-XYLENE	2.60E+05	2.58E+05	2.43E+05	2.54E+05	3%
1,3 DICHLOROBENZENE	3.32E+05	3.49E+05	3.03E+05	3.28E+05	6%
1,4 DICHLOROBENZENE	3.08E+05	3.07E+05	2.62E+05	2.93E+05	7%
1,2 DICHLOROBENZENE	2.91E+05	2.79E+05	2.55E+05	2.75E+05	5%

Daily Check Std A

Sample: PURGE A# 10PPB Channel: Cl A Filename: STD0908A
Acquired: 05-SEP-87 8:00 Method: METHOD 601/602 Operator: SPS
Inj Vol: 5.00
Comments: 60m VOCOL Column



Sample: PURGE A- 10PPB Channel: PID A Filename: STD[illegible]
Acquired: 08-SEP-87 8:00 Method: METHOD 601/602 Operator: [illegible]
Inj Vol: 5.00
Comments: 60m VOCOL Column



The Maxima Chromatography Workstation (c)1985 Dynamic Solutions Corporation

MAXIMA CONCENTRATION REPORT

Printed: 8-SEP-1987 9:50:31

SAMPLE: PURGE #4 10PPB
#5 in Method: METHOD 601/602
Acquired: 8-SEP-1987 8:00
Rate: 3.846 points/sec
Duration: 28.500 minutes
Operator: SRS

Type: UNKN
Instrument: Chromatograph 1
Filename: ST009084
Index: Disk

DETECTOR: OI A

PK	ID	Retention Time (minutes)	Type	Peak Height (microvolts)	Peak Area (microvolt-sec)	Area Percent	Code	Base	Solution Conc	Component Name	%d.
1	1	3.649	PP	70820	1130326	0.57	EXT	AREA	104.99	Freon 12	5.0
2	4	4.520	PP	1287682	9495035	4.83	EXT	AREA	8.22	Freon 11	18
3	6	5.196	PP	2195226	15052158	7.65	EXT	AREA	9.69	1,1-DCE	3.0
4	7	5.897	PP	2663224	18781543	9.55	EXT	AREA	9.83	Methylene Cl	2.0
5	9	7.303	PB	1978305	17539812	8.92	EXT	AREA	8.99	1,1-DCA	10
6	11	8.407	BP	2651165	20427872	10.39	EXT	AREA	8.73	Chloroform	13
7	12	8.749	PP	2758655	25623732	13.03	EXT	AREA	85.34	Bromochloro Me (surr)	
8	14	9.629	PB	2326429	26885498	13.67	EXT	AREA	8.57	Carbon tet	
9	18	11.466	BP	1762859	12607449	6.41	EXT	AREA	9.98	TCE	0.
10	19	11.999	PB	1387644	12298367	6.25	EXT	AREA	10.01	1,2-DCPA	0
11	21	13.667	BB	267022	2209862	1.12	EXT	AREA	8.21	Chloroethylvinl	18
12	25	15.968	BP	1230248	8787922	4.47	EXT	AREA	9.68	1,1,2-TCA	3.
13	26	16.523	PP	1765574	13611881	6.92	EXT	AREA	9.34	PCE	7.
14	27	17.303	PB	750496	6370479	3.24	EXT	AREA	8.88	DibromochloroMe	11
15	29	19.067	BB	679843	5811547	2.96	EXT	AREA	10.33	Chlorobenzene	3.
TOTALS				23775192	196633483				310.78		

DETECTOR: FID A

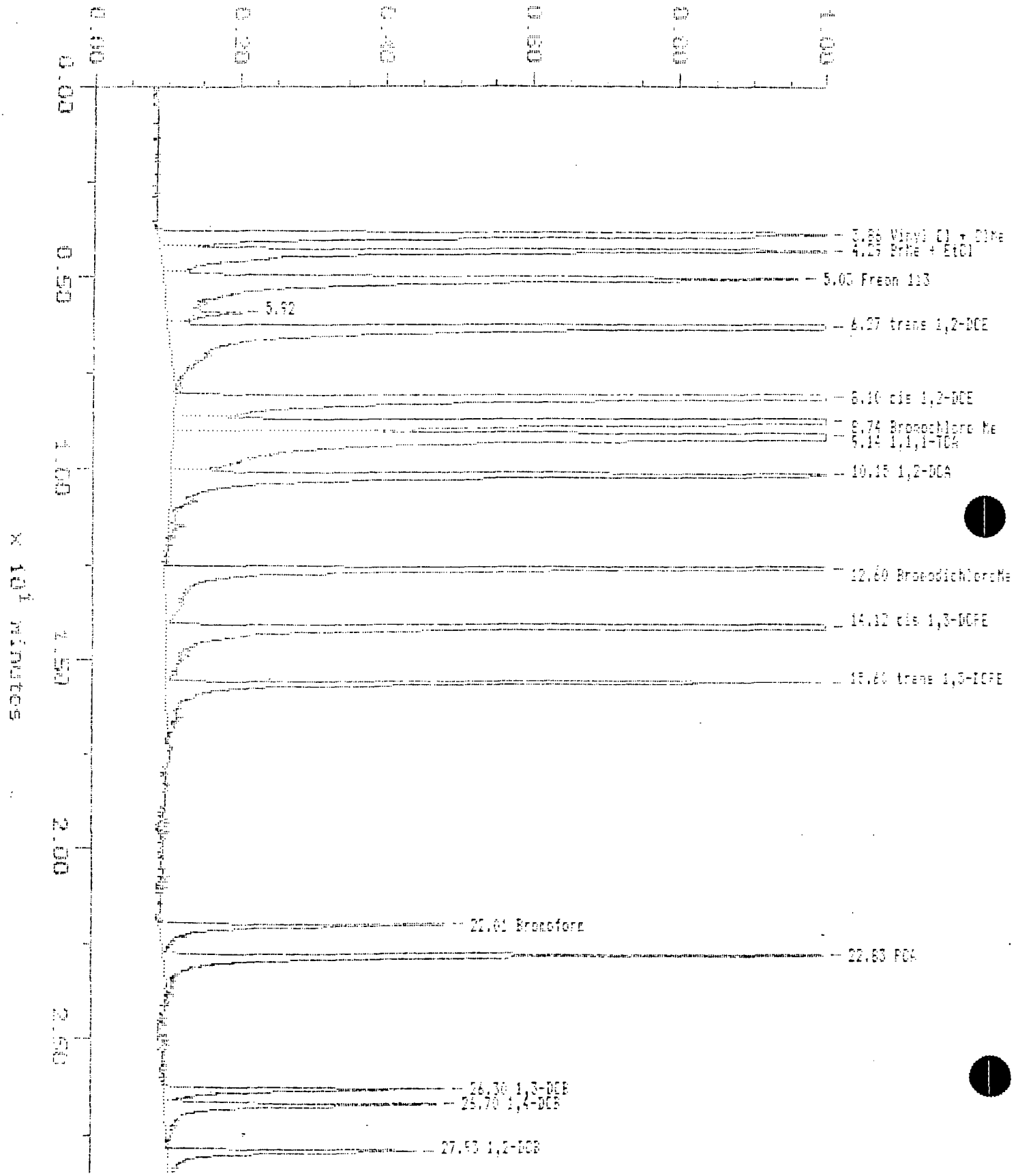
PK	ID	Retention Time (minutes)	Type	Peak Height (microvolts)	Peak Area (microvolt-sec)	Area Percent	Code	Base	Solution Conc	Component Name	%d.
1		5.174	BB	210756	924148	8.57					
2		9.052	BB	156145	2015190	18.68					
3	17	10.820	BB	184333	1177984	10.92	EXT	AREA	68.89	DFB (surr)	
4		11.444	BB	196232	1293452	11.99					
5		13.646	BB	94950	503803	4.67					
6	23	14.794	BB	47137	292888	2.71	EXT	AREA	~~Invalid~~	~~Toluene~~	
7		16.497	BB	163828	1153254	10.69					
8	28	19.036	BP	311682	2105476	19.52	EXT	AREA	8.45	Chlorobenzene P	15
9		19.517	PB	55337	324667	3.01					
10		21.818	BB	51035	516464	4.79					

Daily Check Std B+C

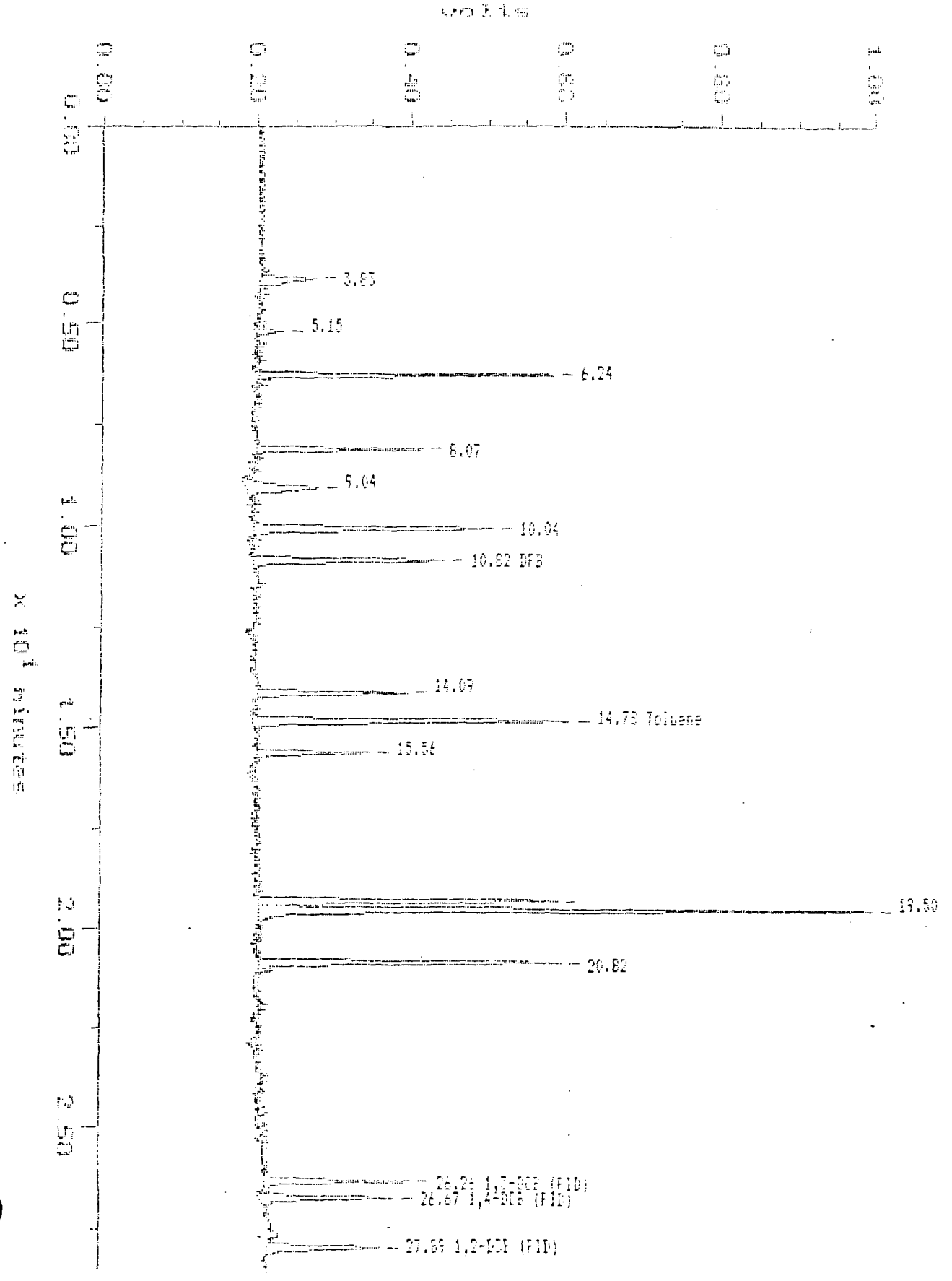
Sample: PURGE B+C [illegible]
Acquired: 06-SEP-87 [illegible]
Inj Vol: 5.00
Comments: 60m VOCOL Column

Channel: [illegible]
Method: METHOD 601/602

Filename: ST[illegible]
Operator: SRS



Sample: PURGE B-C 10PPB Channel: FID A Filename: STD0908B
Acquired: 08-SEP-87 8:46 Method: METHOD 601/602 Operator: SRS
Inj Vol: 5.00
Comments: 60m VOCOL Column



The Maxima Chromatography Workstation (c)1985 Dynamic Solutions Corporation

MAXIMA CONCENTRATION REPORT

Printed: 8-SEP-1987 10:06:12

SAMPLE: PURGE B+C 10PPB
#10 in Method: METHOD 601/602
Acquired: 8-SEP-1987 5:46
Rate: 3.846 points/sec
Duration: 28.500 minutes
Operator: SRS

Type: UNKN
Instrument: Chromatograph 1
Filename: STD0908B
Index: Disk

DETECTOR: OI A

PK	ID	Retention Time (minutes)	Type	Peak Height (microvolts)	Peak Area (microvolt-sec)	Area Percent	Code	Base	Solution Conc	Component Name	%
1	2	3.861	BP	1208871	11565631	5.65	EXT	AREA	19.69	Vinyl Cl + ClMe	1.
2	3	4.286	PP	2183243	13068429	6.38	EXT	AREA	21.43	BrMe + EtCl	7.
3	5	5.031	PP	866019	13954157	6.82	EXT	AREA	10.73	Freon 113	7
4		5.915	BB	59773	411215	0.20					
5	8	6.266	PB	2889489	21668423	10.58	EXT	AREA	10.15	trans 1,2-DCE	1.
6	10	8.103	BP	2669865	21340174	10.42	EXT	AREA	10.09	cis 1,2-DCE	0.
7	12	8.745	PP	3037807	22660968	11.07	EXT	AREA	75.47	Bromochloro Me (Surr	
8	13	9.143	PP	2488746	31042408	15.16	EXT	AREA	8.61	1,1,1-TCA	4
9	16	10.153	PB	1488758	13716288	6.70	EXT	AREA	10.50	1,2-DCA	5
10	20	12.597	BP	1592624	12981279	6.34	EXT	AREA	10.25	BromodichloroMe	2
11	22	14.118	PP	2115300	15822806	7.73	EXT	AREA	12.28	cis 1,3-DCPE	0
12	24	15.600	PB	920781	7369697	3.60	EXT	AREA	7.26	trans 1,3-DCPE	6.
13	33	22.009	BP	390190	3132615	1.53	EXT	AREA	9.84	Bromoform	1.
14	34	22.828	PB	991968	7291451	3.56	EXT	AREA	9.44	PCA	5.
15	36	26.303	BP	381449	2643702	1.29	EXT	AREA	3.42	1,3-DCB	3.
16	38	26.702	PB	367751	3245432	1.59	EXT	AREA	3.72	1,4-DCB	13
17	40	27.928	BB	337302	2832884	1.38	EXT	AREA	3.47	1,2-DCB	5.
TOTALS				23929936	204747559				226.33		

DETECTOR: FID A

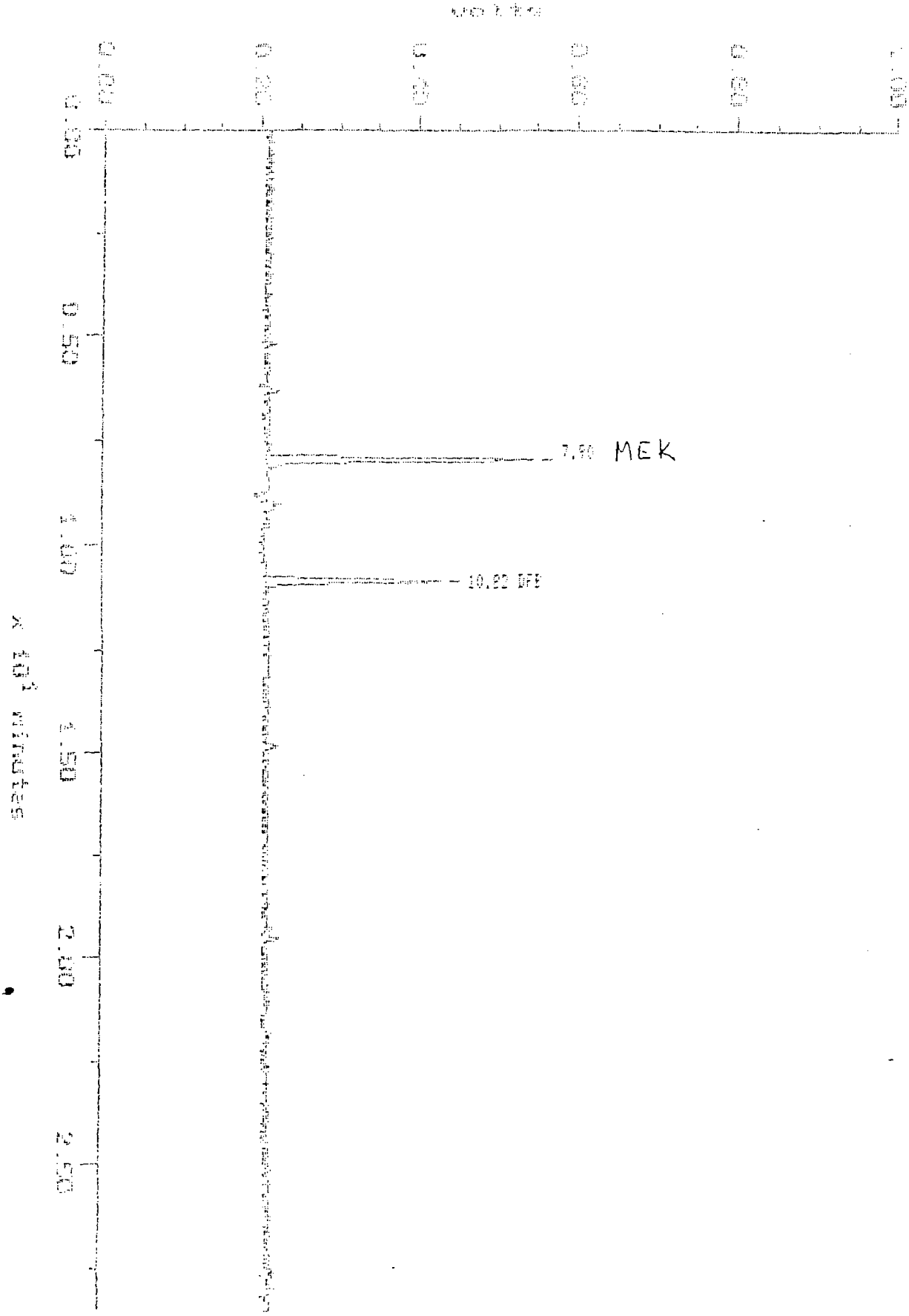
PK	ID	Retention Time (minutes)	Type	Peak Height (microvolts)	Peak Area (microvolt-sec)	Area Percent	Code	Base	Solution Conc	Component Name
1		3.831	BB	71936	702936	2.48				
2		5.148	BB	38054	253652	0.89				
3		6.244	BB	384903	1929617	6.80				
4		8.073	BB	214934	1240058	4.37				
5		9.035	BB	94681	1122538	3.96				
6		10.036	BB	311110	2269876	8.00				
7	17	10.820	BB	249728	1730685	6.10	EXT	AREA	101.21	DFB (surr)
8		14.088	BB	193352	1170997	4.13				

											% d.H / 8.0
9	27	14.781	BB	409059	2913605	10.23	EXT	AREA	10.80	Toluene	
10		15.557	BB	145333	861635	3.04					
11	30	19.270	BB	389555	2603225	9.17	EXT	AREA	10.64	Ethylbenzene	6.4
12		19.504	BB	511954	5610536	19.77					
13		20.817	BB	389268	2638372	9.30					
14	35	26.264	BB	187864	1164139	4.10	EXT	AREA	3.67	1,3-DCB (PID)	10
15	37	26.672	BB	172087	1133116	3.99	EXT	AREA	4.05	1,4-DCB (PID)	23
16	39	27.854	BB	146478	1038806	3.66	EXT	AREA	3.92	1,2-DCB (PID)	19
TOTALS				4210366	28373795				134.28		

Sample: MEK 250NG/UL
Acquired: 08-SEP-87 10:47
Dilution: 1 : 1.000
Comments: 60m VOCOL Column

Channel: SIB 4
Method: METHOD 601/602
Inj Vol: 5.00

Filename: ETD050EC
Operator: ERE



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MAXIMA CONCENTRATION REPORT

Printed: 8-SEP-1987 15:18:05

SAMPLE: MEK 250NG/UL
#14 in Method: METHOD 601/602
Acquired: 8-SEP-1987 10:47
Rate: 3.846 points/sec
Duration: 26.500 minutes
Operator: SRB

Type: UNKN
Instrument: Chromatograph 1
Filename: STD09085
Index: Disk

Dilution: 1.000

DETECTOR: QI A

PK	ID	Retention Time (minutes)	Type	Peak Height (microvolts)	Peak Area (microvolt-sec)	Area Percent	Code	Base	Solution Conc	Component Name
1	12	8.749	BB	2630528	23195830	100.00	EXT	AREA	77.25	Bromochloro Me
TOTALS				2630528	23195830				77.25	

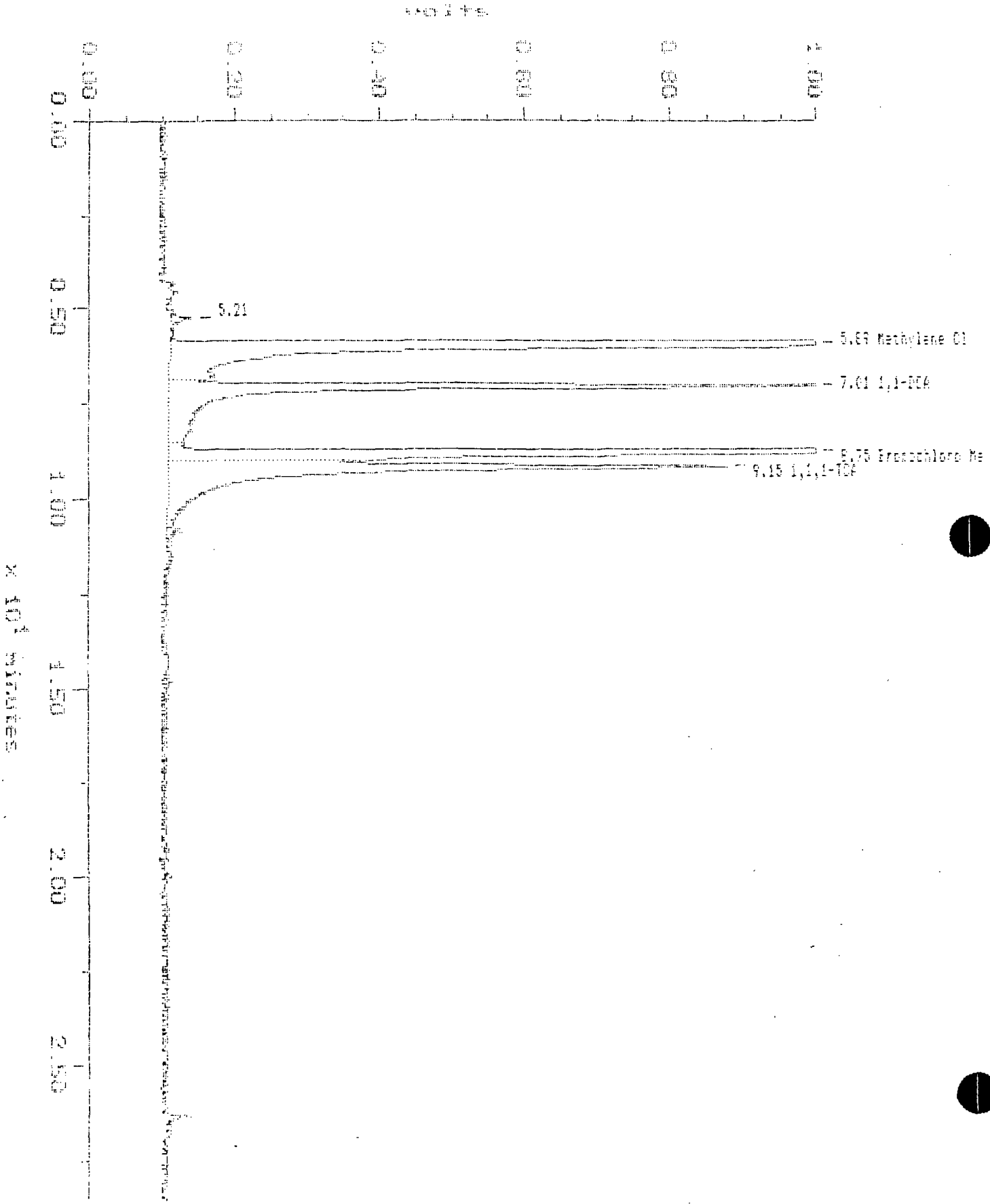
DETECTOR: PID A

PK	ID	Retention Time (minutes)	Type	Peak Height (microvolts)	Peak Area (microvolt-sec)	Area Percent	Code	Base	Solution Conc	Component Name
1		7.904	BB	335900	2387956	61.71			250	MEK
2	17	10.930	BB	221763	1481468	38.29	EXT	AREA	86.64	DFB
TOTALS				557662	3869424				86.64	

Sample: 6708113-01
Acquired: 08-SEP-87 10:13
Dilution: 1 : 100.000
Comments: 60m VOCOL Column

Channel: D1 A
Method: METHOD 601/602
Inj Vol: 5.00

Filename: 05113-14
Operator: SRS



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MAXIMA CONCENTRATION REPORT

Printed: 6-SEP-1987 15:12:30

SAMPLE: 8706113-01
#13 in Method: METHOD 601/602
Acquired: 6-SEP-1987 12:13
Rate: 3.846 points/sec
Duration: 28.500 minutes
Operator: SRS

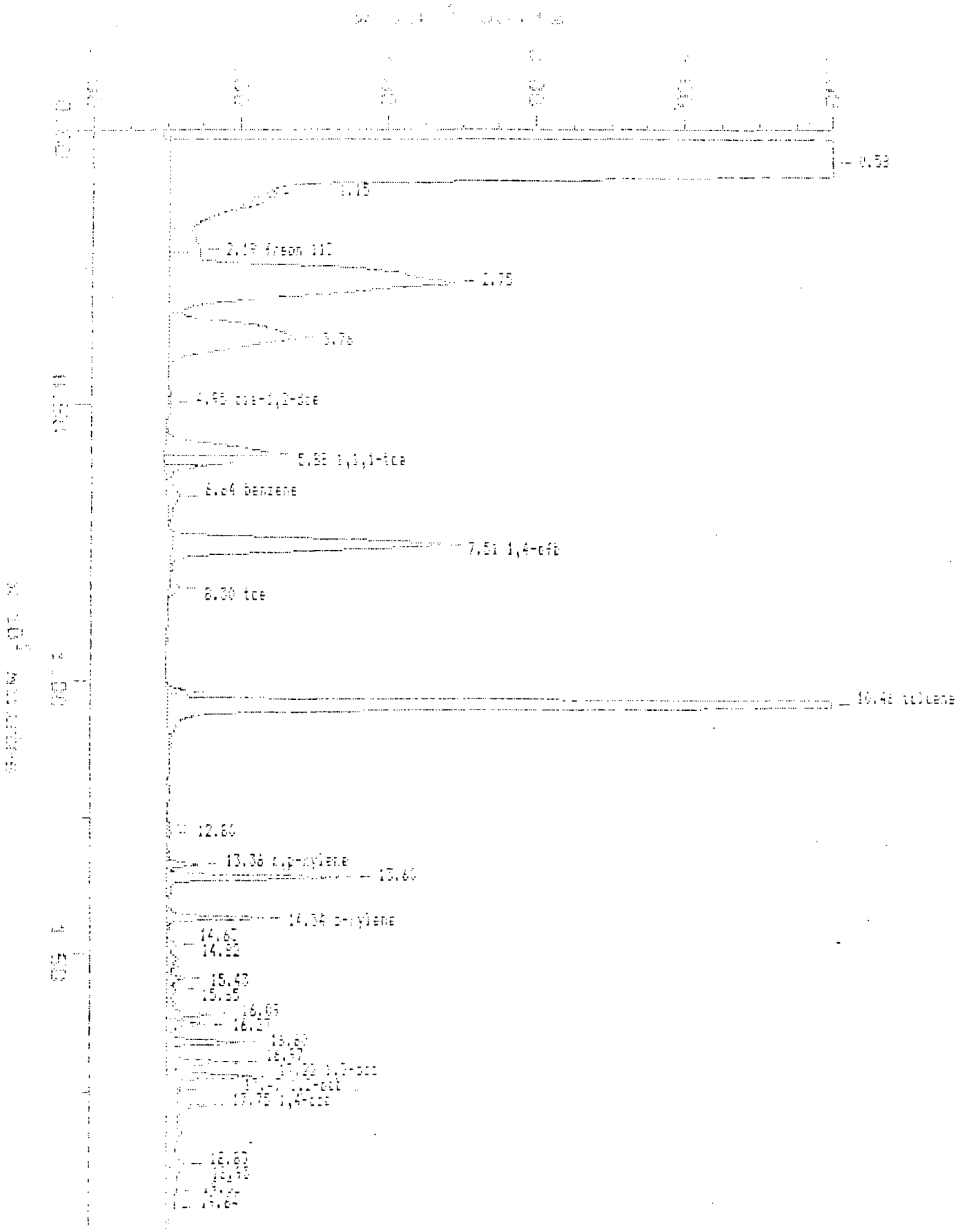
Type: UNKN
Instrument: Chromatograph 1
Filename: 06113-1A
Index: Disk

Dilution: 100.000

DETECTOR: 01 A

PK	ID	Retention Time (minutes)	Type	Peak Height (microvolts)	Peak Area (microvolt-sec)	Area Percent	Code	Base	Solution Conc	Component Name
1		5.209	BB	28259	194189	0.25			0.13	1,1-DCE
2	7	5.893	BP	4839259	32192472	42.10	EXT	AREA	17.33	Methylene Cl
3	9	7.007	PP	1208519	12245130	16.04	EXT	AREA	6.32	1,1-DCA
4	12	9.753	PP	2600655	18447436	24.13	EXT	AREA	61.44	Bromochloro Me
5	13	9.152	PB	766243	13359954	17.47	EXT	AREA	1.55	1,1,1-TCA
TOTALS				9442937	76461181				87.08	

Sample: [illegible] Channel: [illegible] Filename: [illegible]
Acquired: [illegible] Method: [illegible] Operator: [illegible]
Inj Vol: [illegible]



[illegible] Chromatography Workstation [illegible] Dynamic Solutions Corporation

MAXIMA CONCENTRATION REPORT

Printed: 1-SEP-1987 20:54:43

SAMPLE: 8708113-01
#7 in Method: VOA SCREEN
Acquired: 1-SEP-1987 17:10
Rate: 4.000 points/sec
Duration: 20.000 minutes
Operator: [illegible]

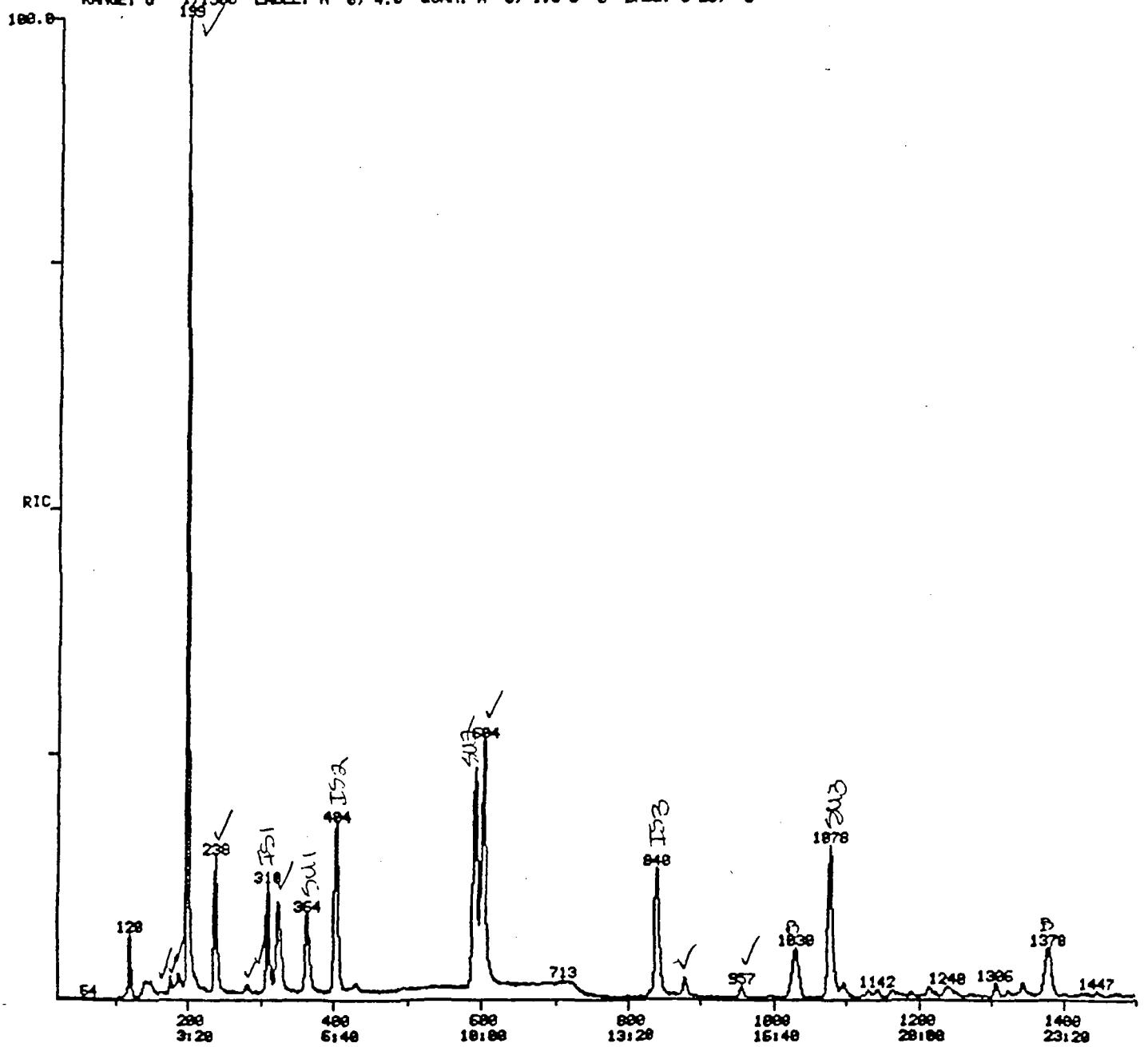
Type: UNKN
Instrument: HP 5C3 DUAL FID
Filename: 08113-01
Index: Disk

DETECTOR: FID 1

PK	ID	Retention Time (minutes)	Type	Peak Height (microvolts)	Peak Area (microvolt-sec)	Area Percent	Code	Base	Solution Conc	Component Name
1		0.575	BP	933102	39741637	60.08				
2		1.150	BB	6932	191916	0.29				
3	2	2.135	PP	20525	488483	0.74	EXT	AREA	211.96	freon 113
4		2.754	PP	193951	5986441	9.05				
5		3.763	PB	96229	2451746	3.71				
6	3	4.946	BP	2071	79096	0.12	EXT	AREA	39.43	cis-1,2-dce
7	4	5.879	PP	72011	866874	1.31	EXT	AREA	354.36	1,1,1-tce
8		6.042	PP	38535	216519	0.33				
9	5	6.638	PB	8333	217014	0.33	EXT	AREA	23.21	benzene
10	6	7.513	BB	182432	2611872	3.95	EXT	AREA	95.30	1,4-dfb
11	7	8.304	BB	6796	81185	0.12	EXT	AREA	34.81	tce
12		10.192	BP	12833	94610	0.14				
13	8	10.463	PB	933247	8861857	13.40	EXT	AREA	894.91	toluene
14		12.635	BP	630	-11271	-0.02				
15		12.796	PP	2062	16020	0.02				
16	10	13.363	PP	22194	138198	0.21	EXT	AREA	6.64	m,p-xylene
17		13.604	PP	124535	725654	1.10				
18	11	14.342	PP	64188	360044	0.54	EXT	AREA	36.74	o-xylene
19		14.629	PP	3889	33256	0.05				
20		14.817	PP	5326	58234	0.09				
21		15.429	PP	12057	195561	0.30				
22		15.646	PP	5882	57925	0.09				
23		16.088	PP	32267	250937	0.38				
24		16.267	PP	26854	173796	0.26				
25		16.600	PP	51950	346939	0.52				
26		16.967	PP	49233	325688	0.49				
27	12	17.217	PP	58737	487157	0.74	EXT	AREA	116.22	1,3-dcb
28	13	17.467	BB	2221	21849	0.03	EXT	AREA	5.04	1,2-dcb
29	14	17.754	PP	26485	230137	0.35	EXT	AREA	62.71	1,4-dcb
30		18.829	PP	11771	426472	0.64				
[illegible]		18.950	PP	12938	183722	0.28				
[illegible]		19.317	PP	7491	121720	0.18				
33		19.642	PB	6341	89298	0.14				

RIC
09/10/87 23:36:00
SAMPLE: U-2 1:10 DILUTION
CONDS.: MS24/8240:35-120@4DEG/MIN:UOCOL
RANGE: G 1,1500 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 1CU08113U01 01 SCANS 20 TO 1500
CALI: CALTAB 02



S-CUBED DIAGNOSTICS

1CU08113V01
CALTAB
09/10/87
U-2 1:10 DILUTION
F1

NO	LIB	ID	M/E	SCAN	PRED	DELTA	FIT	PUR	MATCH	AREA
1	V2	(IS1	128	310	309	-1	982	721	92.	13457.
2	V2	CHLO	50	133	132	-1	765	33	45.	63.
**** WARNING: POSSIBLE INTERFERENCE AT QUANTITATION MASS # 2 ****										
				-139		-7	941	25	45.	
				-137		-5	781	27	40.	
3	V2	VINY	62	133	135	2	992	314	72.	520.
4	V2	BROM	94	143	146	3	884	81	51.	1827.
				-156		-10	805	79	37.	
				-140		6	566	46	30.	
5	V2	CHLO	64	148	148	0	992	219	71.	1577.
6	V2	TRIC	101	---	152	NO PEAKS FOUND				
7	V2	1,1-	96	175	175	0	994	553	100.	2490.
8	V2	TRIC	101	171	170	-1	413	31	27.	79.
				-173		-3	178	19	11.	
9	V2	ACET	43	188	187	-1	998	581	89.	10563.
10	V2	CARB	76	197	197	0	507	17	39.	72.
				-199		-2	508	1	33.	
				-201		-4	486	4	27.	
11	V2	METH	84	199	199	0	988	847	100.	153811.
12	V2	TRAN	96	211	211	0	983	156	85.	485.
13	V2	(1,1	63	238	238	0	997	676	100.	47996.
14	V2	2-BU	43	304	304	0	983	165	67.	1654.
				-311		-7	991	16	47.	
				-296		8	830	33	39.	
15	V2	CIS-	96	283	282	-1	911	461	82.	1294.
16	V2	CHLO	83	294	294	0	467	18	30.	307.
				-290		4	481	11	26.	
				-298		-4	462	15	25.	
17	V2	1,1,	97	325	325	0	998	678	100.	30377.
18	V2	CARB	117	338	345	7	688	39	33.	16.
				-336		9	727	42	31.	
19	V2	(SU1	65	364	363	-1	998	574	89.	21590.
20	V2	(IS2	114	404	402	-2	989	810	95.	66231.
21	V2	BENZ	78	367	368	1	806	148	95.	1798.
**** WARNING: POSSIBLE INTERFERENCE AT QUANTITATION MASS # 21 ****										
22	V2	1,2-	62	374	374	0	938	193	71.	668.
23	V2	TRIC	130	432	432	0	990	329	87.	1167.
24	V2	1,2-	63	461	461	0	572	58	45.	63.
				-459		2	574	55	39.	
				-465		-4	571	59	34.	
25	V2	BROM	83	493	491	-2	750	24	42.	146.
				-489		2	472	9	26.	
				-496		-5	474	10	24.	
26	V2	2-CH	63	551	552	1	659	223	62.	134.
				-553		-1	637	223	60.	
				-547		5	627	203	41.	
27	V2	VINY	43	247	246	-1	628	37	47.	126.
				-245		1	609	29	45.	
				-243		3	655	26	41.	
28	V2	TRAN	75	---	571	NO PEAKS FOUND				
29	V2	4-ME	43	600	603	3	526	109	34.	1344.

				606		0	481	111	30.	
30	V2	TOLU	92	603	605	2	993	651	95.	61466.
31	V2	(SU2	98	593	594	1	986	845	99.	90603.
32	V2	(IS3	117	840	838	-2	980	831	96.	43929.
33	V2	CIS-	75	655	651	-4	672	71	38.	31.
				-645		6	659	62	35.	
				-643		8	667	60	33.	
34	V2	1,1,	97	670	670	0	770	87	54.	460.
				-664		6	549	42	28.	
35	V2	TETR	164	---	693	NO PEAKS FOUND				
36	V2	2-HE	43	750	748	-2	547	105	36.	352.
				-745		3	551	93	34.	
				-753		-5	560	111	34.	
37	V2	DIBR	129	---	743	NO PEAKS FOUND				
38	V2	CHLO	112	---	847	NO PEAKS FOUND				
39	V2	ETHY	106	864	863	-1	993	296	77.	427.
				-862		1	981	247	74.	
40	V2	TOTA	106	878	877	-1	988	574	94.	3384.
41	V2	STYR	104	969	970	1	408	71	34.	59.
42	V2	BROM	173	---	1026	NO PEAKS FOUND				
43	V2	1,1,	83	1094	1085	-9	904	62	40.	403.
				-1086		-1	580	10	35.	
				-1088		-3	574	13	32.	
44	V2	1,3-	146	---	1287	NO PEAKS FOUND				
45	V2	1,4-	146	---	1313	NO PEAKS FOUND				
46	V2	1,2-	146	---	1381	NO PEAKS FOUND				
47	V2	(SU3	95	1078	1080	2	983	799	98.	34852.

QUANTITATION REPORT FILE: 1CU08113V01

DATA: 1CU08113V01.TI
09/10/87 23:36:00
SAMPLE: U-2 1:10 DILUTION
SUBMITTED BY: WAHLER ANALYST: ARL

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME		
1	(IS1)		BROMOCHLOROMETHANE
2	(IS2)		1,4-DIFLUOROBENZENE
3	(IS3)		CHLOROBENZENE-D5
4	(SU1)	SURROGATE	D4-1,2-DICHLOROETHANE
5	(SU2)	SURROGATE	TOLUENE-D8
6	(SU3)	SURROGATE	P-BROMOFLUOROBENZENE
7	CHLOROMETHANE		
8	VINYL CHLORIDE		
9	BROMOMETHANE		
10	CHLOROETHANE		
11	TRICHLOROFLUOROMETHANE		
12	1,1-DICHLOROETHENE		
13	TRICHLOROTRIFLUOROETHANE		
14	ACETONE		
15	CARBONDISULFIDE		
16	METHYLENE CHLORIDE		
17	TRANS-1,2-DICHLOROETHENE		
18	(1,1)-DICHLOROETHANE		
19	2-BUTANONE		
20	CIS-1,2-DICHLOROETHENE		
21	CHLOROFORM		
22	1,1,1-TRICHLOROETHANE		
23	CARBON TETRACHLORIDE		
24	BENZENE		
25	1,2-DICHLOROETHANE		
26	TRICHLOROETHENE		
27	1,2-DICHLOROPROPANE		
28	BROMODICHLOROMETHANE		
29	2-CHLOROETHYLVINYL ETHER		
30	VINYL ACETATE		
31	TRANS-1,3-DICHLOROPROPENE		
32	4-METHYL-2-PENTANONE		
33	TOLUENE		
34	CIS-1,3-DICHLOROPROPENE		
35	1,1,2,-TRICHLOROETHANE		
36	TETRACHLOROETHENE		
37	2-HEXANONE		
38	DIBROMOCHLOROMETHANE		
39	CHLOROBENZENE		
40	ETHYLBENZENE		
41	TOTAL XYLENES		
42	STYRENE		
43	BROMOFORM		
44	1,1,2,2-TETRACHLOROETHANE		
45	1,3-DICHLOROBENZENE		
46	1,4-DICHLOROBENZENE		

NO	NAME
47	1,2-DICHLOROBENZENE

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT
1	128	310	5:10	1	1.000	A BB	13457.	50.000	UG/L	3.68
2	114	404	6:44	2	1.000	A BB	66231.	50.000	UG/L	3.68
3	117	840	14:00	3	1.000	A BB	43929.	50.000	UG/L	3.68
4	65	364	6:04	1	1.174	A BB	21589.	89.038	%	6.55
5	98	593	9:53	2	1.468	A BB	90603.	92.719	%	6.82
6	95	1078	17:58	3	1.283	A BB	34851.	93.870	%	6.91
7	50	133	2:13	1	0.429	A?BB	63.	0.293	UG/L	0.02
8	62	133	2:13	1	0.429	A BB	520.	2.329	UG/L	0.17
9	94	143	2:23	1	0.461	A?BV	1827.	4.741	UG/L	0.35
10	64	148	2:28	1	0.477	A BB	1577.	8.987	UG/L	0.66
11	NOT FOUND									
12	96	175	2:55	1	0.565	A BB	2490.	7.714	UG/L	0.57
13	101	171	2:51	1	0.552	A?BB	79.	0.152	UG/L	0.01
14	43	188	3:08	1	0.606	A BB	10563.	222.441	UG/L	16.37
15	76	197	3:17	1	0.635	A?BB	72.	0.122	UG/L	0.01
16	84	199	3:19	1	0.642	A BB	153811.	424.458	UG/L	31.23
17	96	211	3:31	1	0.681	A BB	485.	1.360	UG/L	0.10
18	63	238	3:58	1	0.768	A BB	47996.	78.366	UG/L	5.77
19	43	304	5:04	1	0.981	A?VB	1654.	18.393	UG/L	1.35
20	96	283	4:43	1	0.913	A BB	1294.	3.176	UG/L	0.23
21	83	294	4:54	1	0.948	A?BV	307.	0.483	UG/L	0.04
22	97	325	5:25	1	1.048	A BB	30377.	54.765	UG/L	4.03
23	117	338	5:38	1	1.090	A?BB	16.	0.031	UG/L	0.00
24	78	367	6:07	2	0.908	A?BB	1797.	1.834	UG/L	0.13
25	62	374	6:14	2	0.926	A BB	668.	1.701	UG/L	0.13
26	130	432	7:12	2	1.069	A BB	1167.	2.528	UG/L	0.19
27	63	461	7:41	2	1.141	A?BB	63.	0.147	UG/L	0.01
28	83	493	8:13	2	1.220	A?VB	146.	0.269	UG/L	0.02
29	63	551	9:11	2	1.364	A?BB	134.	0.481	UG/L	0.04
30	43	247	4:07	2	0.611	A?VB	126.	0.801	UG/L	0.06
31	NOT FOUND									
32	43	600	10:00	2	1.485	A?BV	1344.	6.104	UG/L	0.45
33	92	603	10:03	2	1.493	A BB	61466.	79.389	UG/L	5.84
34	75	655	10:55	3	0.780	A?BB	31.	0.098	UG/L	0.01
35	97	670	11:10	3	0.798	A?BB	460.	1.027	UG/L	0.08
36	NOT FOUND									
37	43	750	12:30	3	0.893	A?BV	352.	2.566	UG/L	0.19
38	NOT FOUND									
39	NOT FOUND									
40	106	864	14:24	3	1.029	A?BB	427.	1.135	UG/L	0.08
41	106	878	14:38	3	1.045	A BB	3384.	6.532	UG/L	0.48
42	104	969	16:09	3	1.154	A BB	59.	0.080	UG/L	0.01
43	NOT FOUND									
44	83	1094	18:14	3	1.302	A?BB	403.	0.902	UG/L	0.07
45	NOT FOUND									
46	NOT FOUND									
47	NOT FOUND									

QUANTITATION REPORT FILE: 1CU08113V01

DATA: 1CU08113V01.TI
09/10/87 23:36:00
SAMPLE: U-2 1:10 DILUTION
SUBMITTED BY: WAHLER ANALYST: ARL

AMOUNT=AREA * REF.AMNT/(REF.AREA)* RESP.FACT)
RESP. FAC. FROM LIBRARY ENTRY

NO	NAME		
1	(IS1)		BROMOCHLOROMETHANE
2	(IS2)		1,4-DIFLUOROBENZENE
3	(IS3)		CHLOROBENZENE-D5
4	(SU1)	SURROGATE	D4-1,2-DICHLOROETHANE
5	(SU2)	SURROGATE	TOLUENE-D8
6	(SU3)	SURROGATE	P-BROMOFLUOROBENZENE
7	VINYL CHLORIDE		
8	BROMOMETHANE		
9	CHLOROETHANE		
10	1,1-DICHLOROETHENE		
11	ACETONE		
12	METHYLENE CHLORIDE		
13	(1,1)-DICHLOROETHANE		
14	2-BUTANONE		
15	CIS-1,2-DICHLOROETHENE		
16	1,1,1-TRICHLOROETHANE		
17	BENZENE		
18	1,2-DICHLOROETHANE		
19	TRICHLOROETHENE		
20	4-METHYL-2-PENTANONE		
21	TOLUENE		
22	TOTAL XYLENES		

1:10 DILUTIO

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT		%TOT	
1	128	310	5:10	1	1.000	A BB	13457.	50.000	UG/L	3.76	
2	114	404	6:44	2	1.000	A BB	66231.	50.000	UG/L	3.76	
3	117	840	14:00	3	1.000	A BB	43929.	50.000	UG/L	3.76	
4	65	364	6:04	1	1.174	A BB	21589.	89.038	%	6.69	
5	98	593	9:53	2	1.468	A BB	90603.	92.719	%	6.97	
6	95	1078	17:58	3	1.283	A BB	34851.	93.870	%	7.05	
~~7~~	~~62~~	~~133~~	~~2:13~~	~~1~~	~~0.429~~	~~A BB~~	~~520.~~	~~2.329~~	~~UG/L~~	~~0.17~~	UH
~~8~~	~~94~~	~~143~~	~~2:23~~	~~1~~	~~0.461~~	~~A?BV~~	~~1827.~~	~~4.741~~	~~UG/L~~	~~0.36~~	
9	64	148	2:28	1	0.477	A BB	1577.	8.987	UG/L	0.68	NET 9
10	96	175	2:55	1	0.565	A BB	2490.	7.714	UG/L	0.58	NET 7
11	43	188	3:08	1	0.606	QEDT	9590.	201.954	UG/L	15.17	NET 17
12	84	199	3:19	1	0.642	A BB	153811.	424.458	UG/L	31.89	NET 4
13	63	238	3:58	1	0.768	A BB	47996.	78.366	UG/L	5.89	NET 7
14	43	304	5:04	1	0.981	QEDT	1556.	17.304	UG/L	1.30	NET 1
15	96	283	4:43	1	0.913	A BB	1294.	3.176	UG/L	0.24	NET 3
16	97	325	5:25	1	1.048	A BB	30377.	54.765	UG/L	4.11	NET 5
~~17~~	~~78~~	~~367~~	~~6:07~~	~~2~~	~~0.908~~	~~A?BB~~	~~1797.~~	~~1.834~~	~~UG/L~~	~~0.14~~	
~~18~~	~~62~~	~~374~~	~~6:14~~	~~2~~	~~0.926~~	~~A BB~~	~~668.~~	~~1.701~~	~~UG/L~~	~~0.13~~	
19	130	432	7:12	2	1.069	A BB	1167.	2.528	UG/L	0.19	NET 29
~~20~~	~~43~~	~~600~~	~~10:00~~	~~2~~	~~1.485~~	~~A?BV~~	~~1344.~~	~~6.104~~	~~UG/L~~	~~0.46~~	
21	92	603	10:03	2	1.493	A BB	61466.	79.389	UG/L	5.96	
22	106	878	14:38	3	1.045	QEDT	5268.	10.169	UG/L	0.76	NET 1

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 08/28/87
Date Received: 08/31/87
Date Reported: 09/30/87
Project No. JCO-104H

Q.C. DATA REPORT

Analyst: G. Brock
Date of Analysis: 9/10/87
Method of Analysis: EPA 3510/8015
Detection Limit: 1.0
Units: ppm

Sample Number	Analyte	Original Result	Duplicate Result	% Deviation
7082427	Paint Thinner	< 1.0	< 1.0	0.0

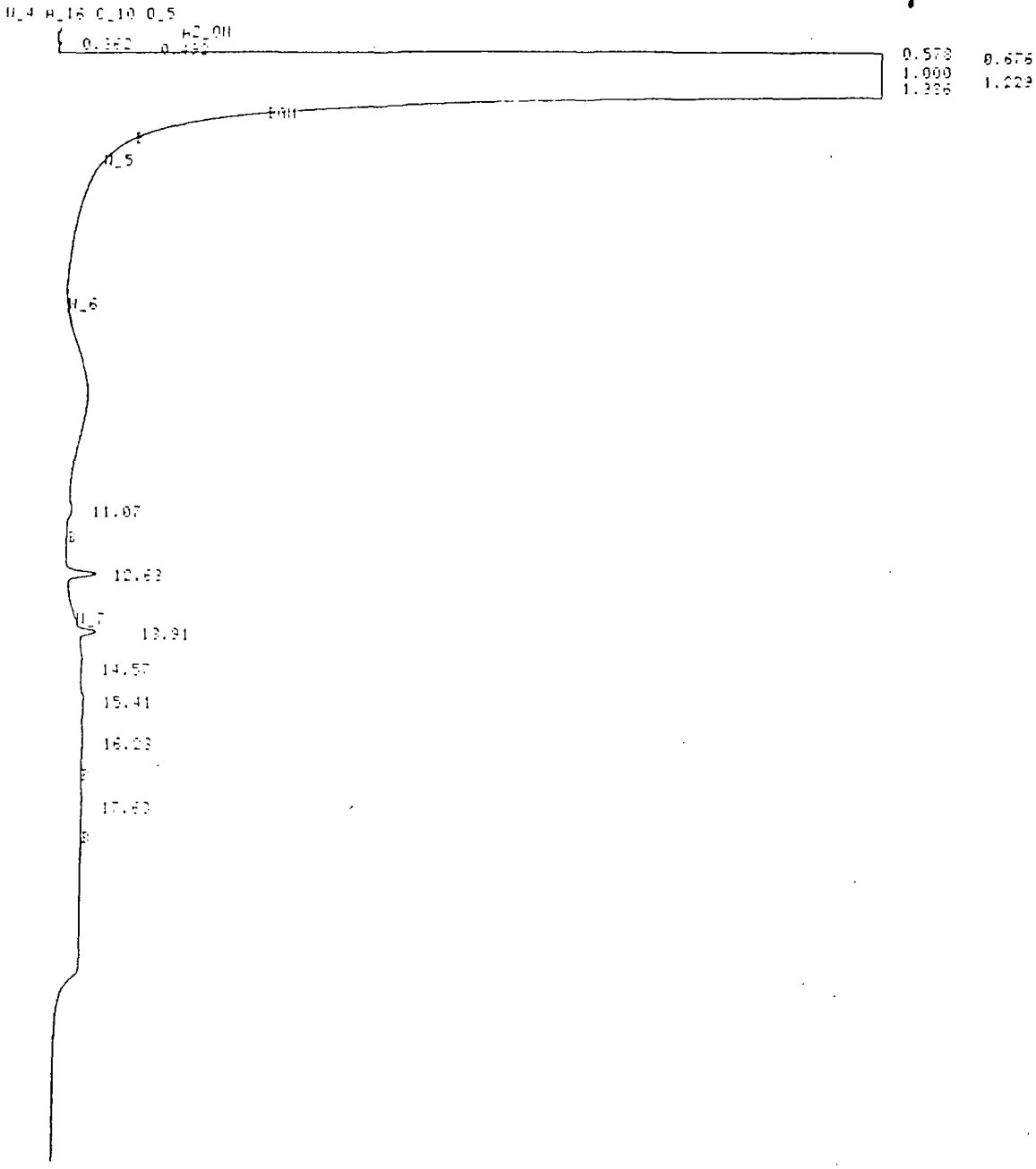
Sample Number	Analyte	Sample Contribution	Spike Added	Spike Result	% Recovery
-	Paint Thinner	D.I. Water	10	9.1	91

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

FILE 519 RUN 19 STARTED 19:13.0 80 02/19 DIESELS/JET FUEL
% METHOD 1 DIESELS/JET FUEL LAST EDITED 00:45.2 80 02/17

3λ HEX/ACETONE BL[illegible]



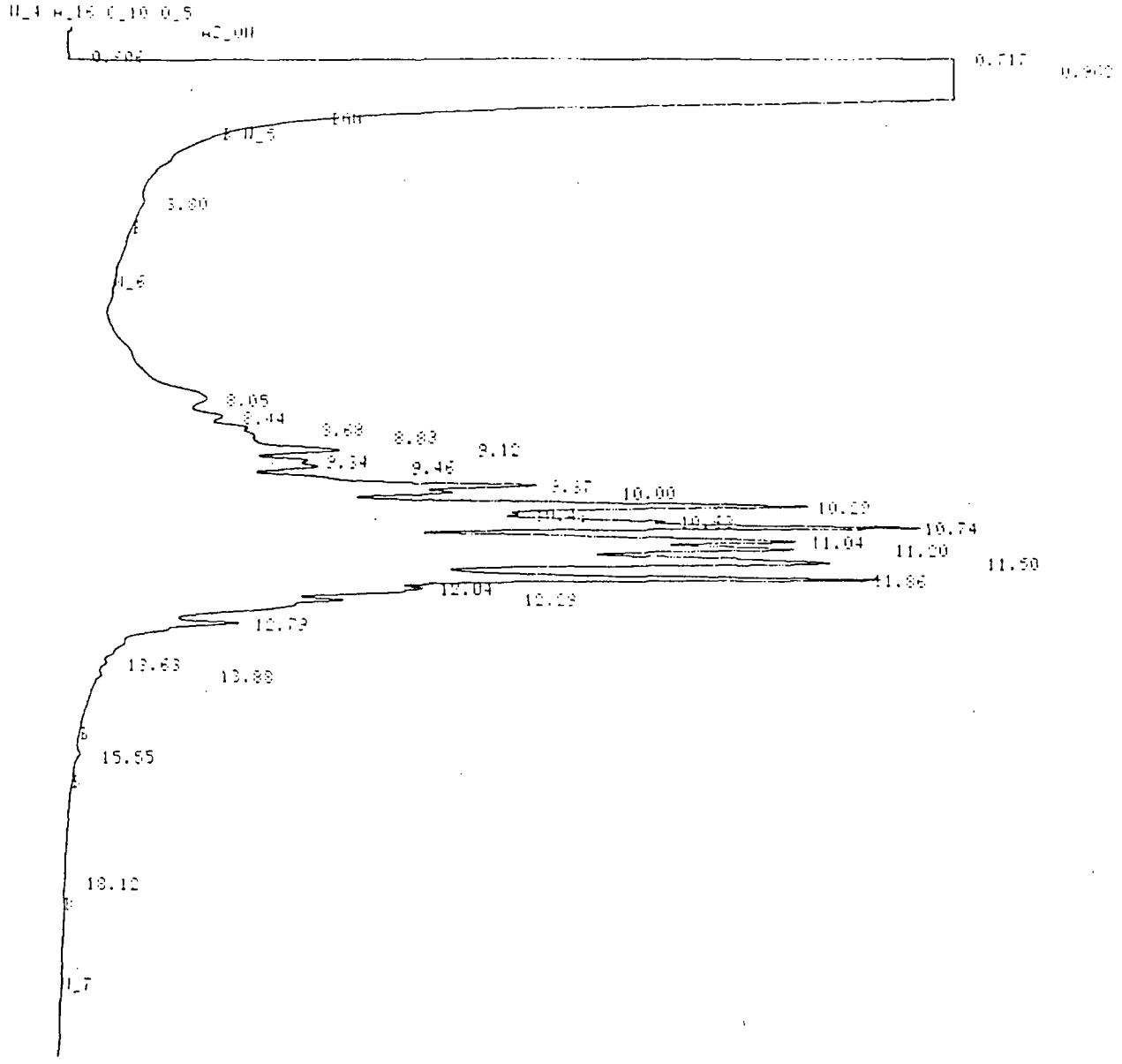
FILE 519 RUN 19 STARTED 19:13.0 80 02/19 DIESELS/JET FUEL
% METHOD 1 DIESELS/JET FUEL LAST EDITED 00:45.2 80 02/17

PT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
11.07	11874	0.6436		10.6597	5.9519
12.63	43773	5.5561	V	43.7912	51.3331
13.91	22944	3.3529	V	20.5935	31.0077
14.57	9545	0.3529	V	3.5893	3.2640
15.41	11355	0.6013	V	10.6432	5.5612
16.23	3353	0.1507		3.0093	1.3937
17.63	3039	0.1555		2.7283	1.4384

7 PEAKS > AREA REJECT 111337 TOTAL AREA
7 PEAKS HEIGHT REJECT 10.8120 TOTAL HEIGHT

% METHOD 1 DIESELS/JETFUEL LAST EDITED [illegible] 80 02 19

?) # 200ppm PAINT THINNER.

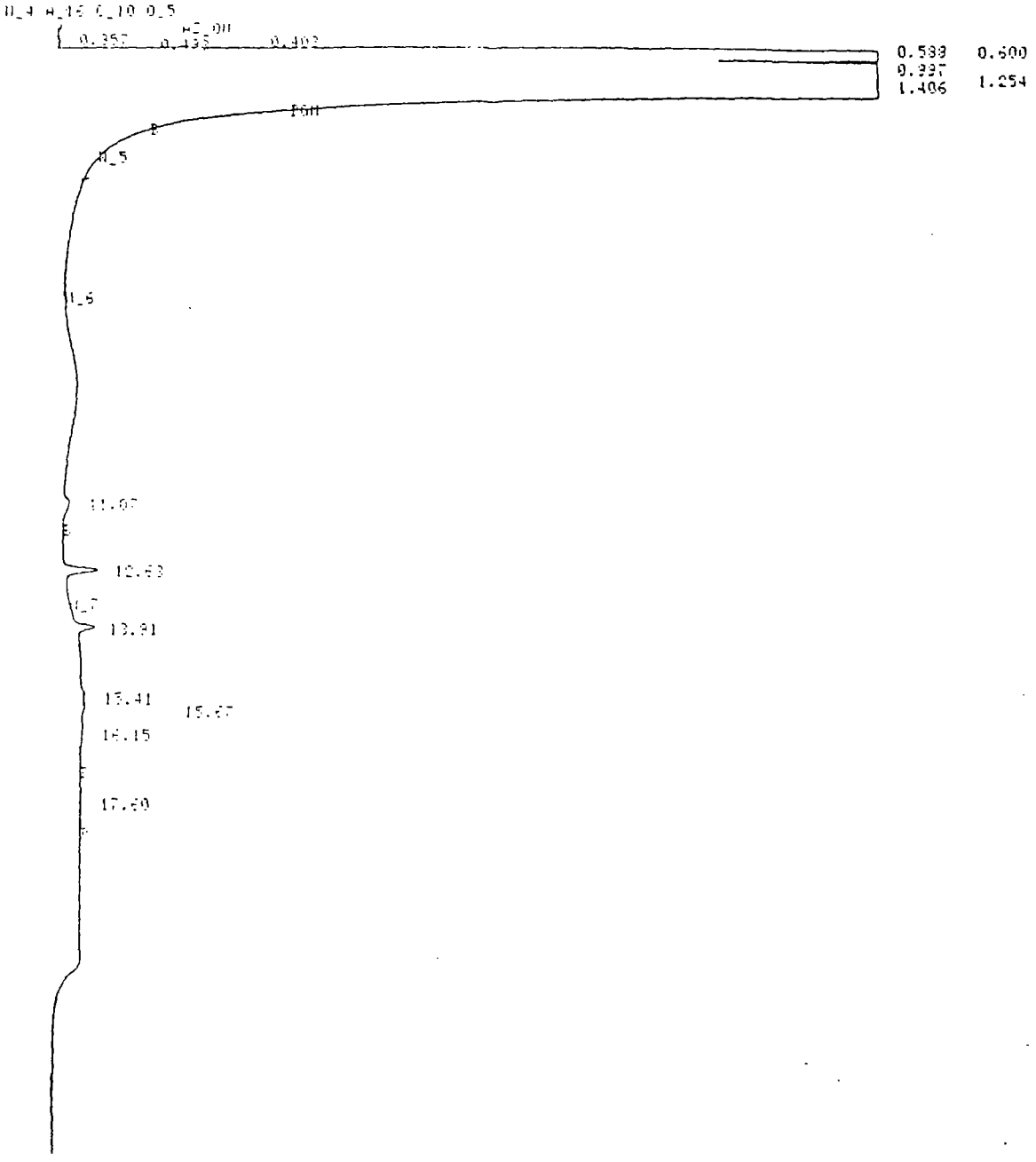


FILE 5 RUN 4 STARTED 21:53.2 80/02/19
% METHOD 1 DIESELS/JETFUEL LAST EDITED 19:49.2 80 02 19

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
3.80	16317	0.7515		0.0938	0.0532
8.05	860032	18.1209	T	4.9489	1.2822
8.44	344954	21.0761	T	1.9840	1.4913
8.68	260100	25.5263	T	1.4960	1.8062
8.83	241992	26.6949	T	1.3918	1.8899
9.12	703555	41.3071	T	4.0466	2.9228
9.34	287400	35.9997	T	1.6530	2.5473
9.46	379764	37.8243	T	2.1843	2.6764
9.87	1147407	75.2940	T	6.5985	5.3276
10.00	491663	61.1530	T	2.8279	4.3274
10.29	1704869	121.8844	T	9.8058	8.6243
10.48	344401	72.5855	T	1.9809	5.1360
10.63	700205	97.6734	T	4.0273	6.9112
10.74	1264862	141.0397	T	7.2750	9.9797
11.04	1468534	120.1113	T	8.4465	8.4983
11.20	1275333	119.7626	T	7.3354	8.4741
11.50	2017886	126.0067	T	11.6061	8.9160
11.86	1664900	134.9533	T	9.5759	9.5490
12.04	688213	57.1180	T	3.9296	4.0415
12.29	826841	43.7390	T	4.7557	3.0934
12.79	547927	26.2079	T	3.1515	1.8544
13.63	50335	4.1727	T	0.2893	0.2953
13.88	95569	3.3056		0.5497	0.2339
15.55	6230	0.7464		0.0358	0.0528
18.12	1986	0.1613		0.0114	0.0114

25 PEAKS AREA REJECT 17386393 TOTAL AREA
25 PEAKS HEIGHT REJECT 1413.2716 TOTAL HEIGHT

FILE 513 RUN 13 STARTED 06:53.9 80.02.19 DIESELS/JET FUEL 3λ - # 7082427 (10:1)
% METHOD 1 DIESELS JET FUEL LAST EDITED 00:45.2 80/02/17



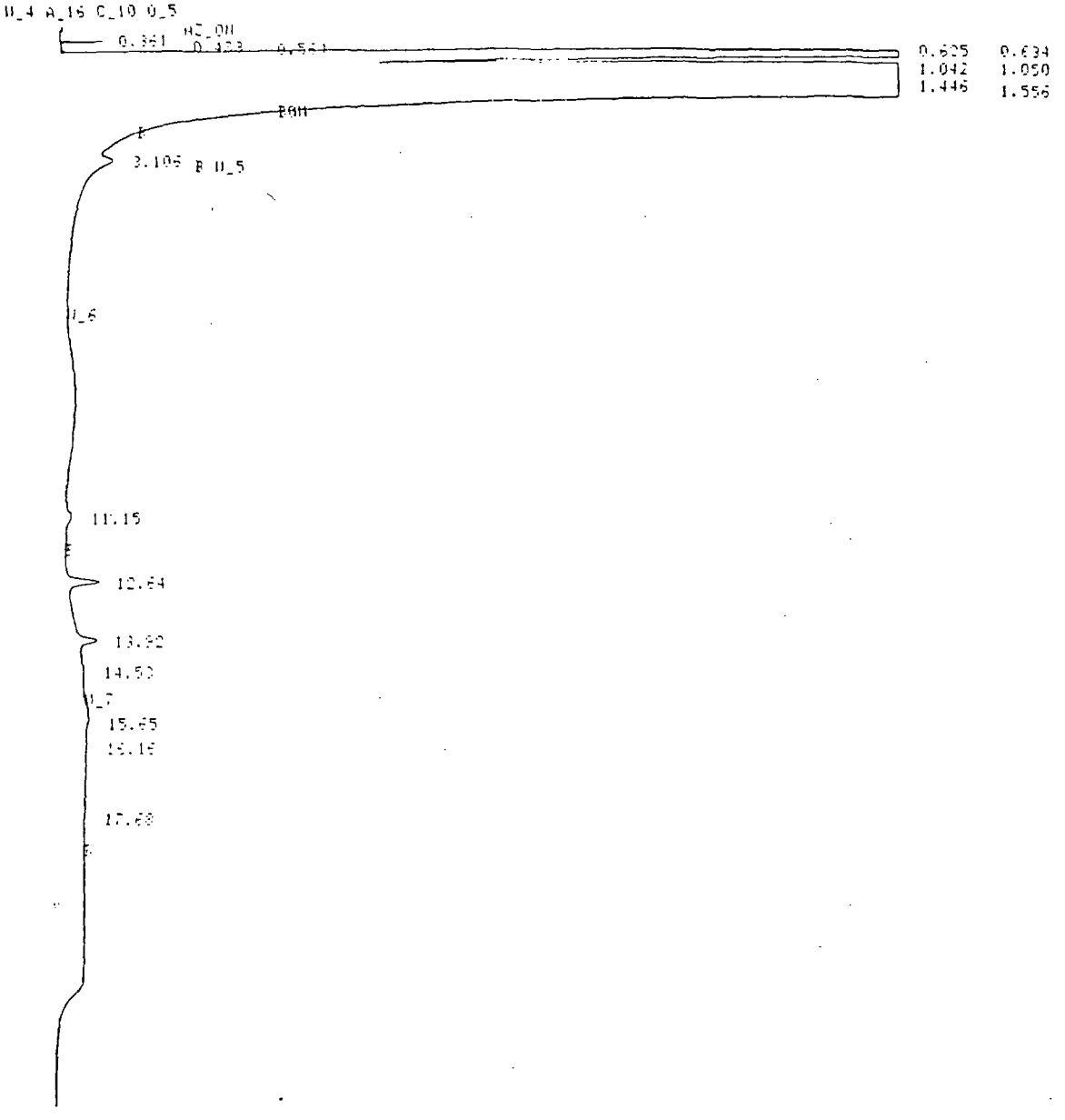
FILE 513 RUN 13 STARTED 06:53.9 80.02.19 DIESELS/JET FUEL
% METHOD 1 DIESELS JET FUEL LAST EDITED 00:45.2 80/02/17

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
11.07	17402	1.0777		16.6142	9.1098
12.63	50875	6.2403	U	48.5715	52.7505
13.91	23705	3.4669	U	22.6319	29.3047
15.41	3423	0.3839	U	3.2683	3.2446
15.67	3806	0.3319	U	3.6337	2.8053
16.15	2772	0.2086		2.6465	1.7714
17.60	2753	0.1197		2.6284	1.0116

% FEWIS : AREA REJECT 104742 TOTAL AREA
% FEWIS : HEIGHT REJECT 11.8304 TOTAL HEIGHT

3r # 7082428. (10:1)

FILE 514 RUN 14 STARTED 07:21.5 80 02 19 DIESELS JET FUEL
% METHOD 1 DIESELS JET FUEL LAST EDITED 00:45.2 80 02 17



FILE 514 RUN 14 STARTED 07:21.5 80 02 19 DIESELS JET FUEL
% METHOD 1 DIESELS JET FUEL LAST EDITED 00:45.2 80 02 17

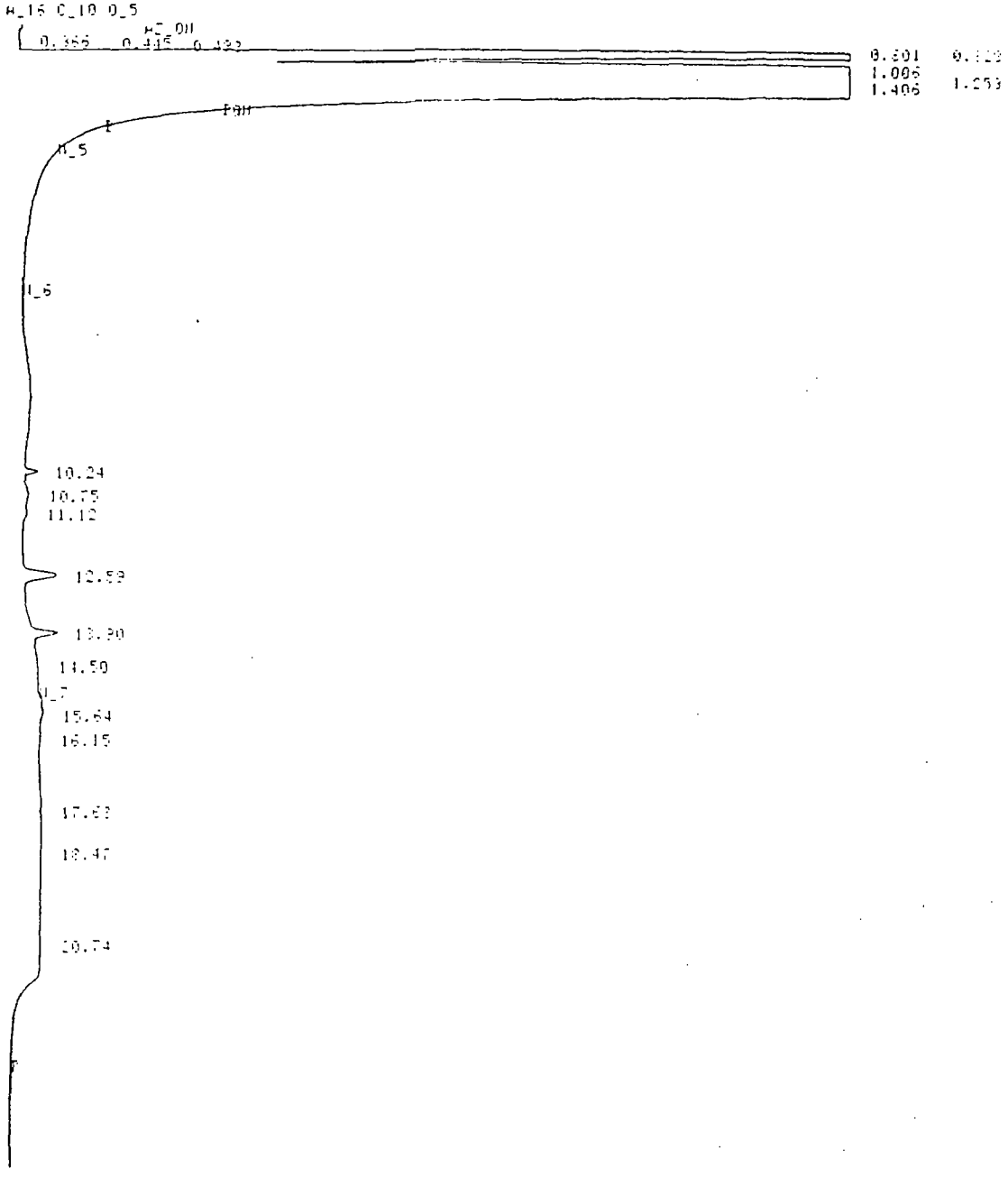
RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
3.106	18339	1.9852		15.3574	15.0862
11.15	19751	0.9724		15.7336	7.3899
12.64	44547	5.6952	U	37.3795	43.2803
13.92	13159	3.3332	U	15.2373	25.3307
14.53	2205	0.1886	U	1.8502	1.4334
15.65	11337	0.6307	U	9.5125	4.7931
16.16	2586	0.2241	U	3.0030	1.7034
17.63	1693	0.1231		1.4202	0.9331

8 PEAKS > AREA REJECT 119175 TOTAL AREA
9 PEAKS > HEIGHT REJECT 13.1583 TOTAL HEIGHT

3λ 7082429 (101)

FILE 520 RUN 20 STARTED 19:57.9 80 02 19 DIESELS/JET FUEL
% METHOD 1 DIESELS/JET FUEL LAST EDITED 00:45.2 80/02/17

H_4 A_16 C_10 O_5



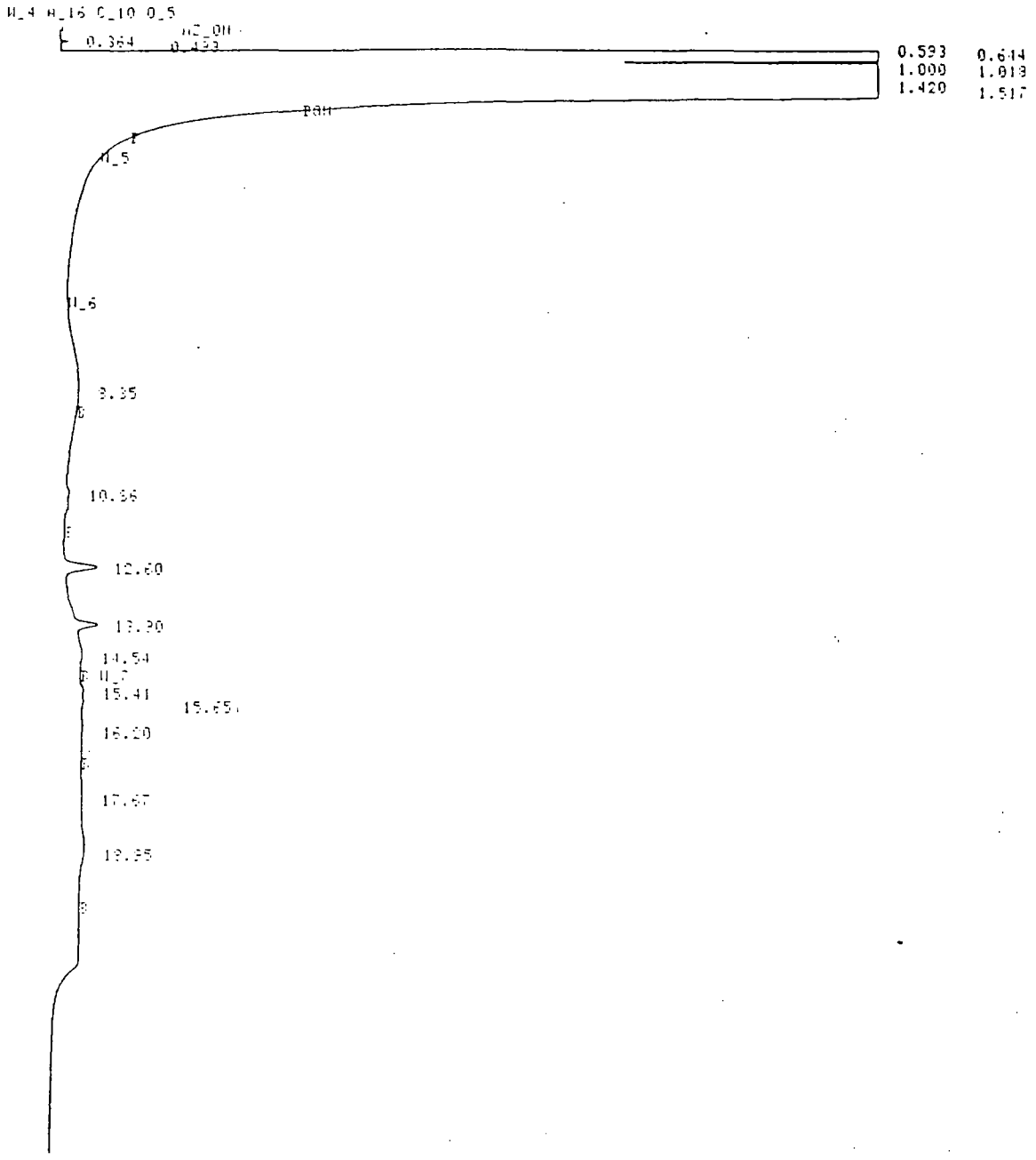
FILE 520 RUN 20 STARTED 19:57.9 80 02 19 DIESELS/JET FUEL
% METHOD 1 DIESELS/JET FUEL LAST EDITED 00:45.2 80/02/17

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
10.24	15026	2.4815	H	8.0582	14.7014
10.75	10202	0.6712	H	5.3755	4.0533
11.12	649	0.1881	H	0.3430	1.1371
12.59	71699	6.1375	H	38.0269	37.1082
13.90	27265	4.5711	H	14.4732	27.6275
14.50	1934	0.1934	H	0.3904	1.1333
15.64	15236	0.7765	H	8.0807	4.6967
16.15	4113	0.3162	H	2.2825	1.9126
17.63	2140	0.1369	H	1.1313	0.8260
18.47	2435	0.0923	H	1.3130	0.5611
20.74	37673	1.0229		19.9247	6.2205

11 PEAKS AREA REJECT 189074 TOTAL AREA
11 PEAKS HEIGHT REJECT 16.5794 TOTAL HEIGHT

3 λ 708 2430 (10:1)

FILE 521 RUN 21 STARTED 20:34.6 80 02 19 DIESELS/JET FUEL
% METHOD 1 DIESELS/JET FUEL LAST EDITED 00:45.2 80/02/17



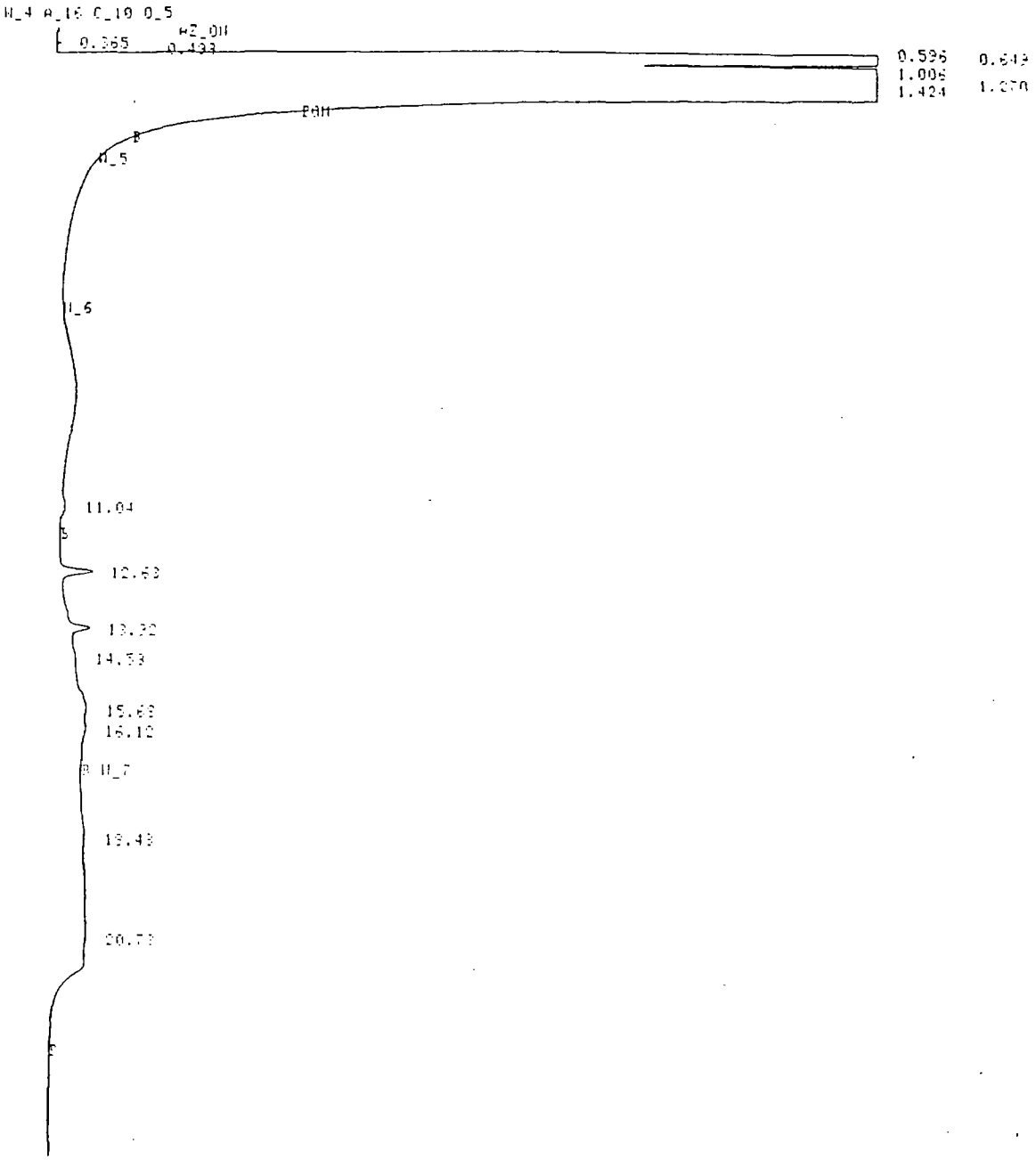
FILE 521 RUN 21 STARTED 20:34.6 80 02 19 DIESELS/JET FUEL
% METHOD 1 DIESELS/JET FUEL LAST EDITED 00:45.2 80/02/17

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
8.35	21469	0.5015		10.7405	3.5890
10.36	14723	0.5901		7.3681	4.2228
12.60	63646	6.1061	U	31.8406	43.6955
13.90	26183	4.1270	U	13.2516	29.5328
14.54	16789	0.6549		8.3984	4.6863
15.41	4240	0.4700	U	2.1212	3.3632
15.65	2909	0.2760	U	1.4553	1.9754
16.20	6607	0.2667		3.3053	1.9084
17.67	2824	0.1420	U	1.4128	1.0159
18.95	40190	0.8400		20.1061	6.0107

10 PEAKS > AREA REJECT 199889 TOTAL AREA
10 PEAKS > HEIGHT REJECT 13.9742 TOTAL HEIGHT

3λ 708 2131 (10:1)

FILE 522 RUN 22 STARTED 21:06.8 80 02 19 DIESELS JET FUEL
% METHOD 1 DIESELS JET FUEL LAST EDITED 00:45.2 80/02/17



FILE 522 RUN 22 STARTED 21:06.8 80 02 19 DIESELS JET FUEL
% METHOD 1 DIESELS JET FUEL LAST EDITED 00:45.2 80/02/17

FT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
11.04	12103	0.6224		2.6550	4.2099
12.63	57333	6.0045	V	12.2083	40.6120
13.92	22699	3.5151	V	4.9775	23.7747
14.53	2523	0.2349	V	0.5542	1.9267
15.68	13650	0.7893	V	2.9932	5.3385
16.12	1267	0.3103		0.2778	2.1559
18.48	305	0.2919	V	0.0668	1.9745
20.73	31[illegible]	2.9532		6.2630	20.0073

8 PEAKS AREA REJECT 456029 TOTAL AREA
8 PEAKS HEIGHT REJECT 14.7[illegible] TOTAL HEIGHT

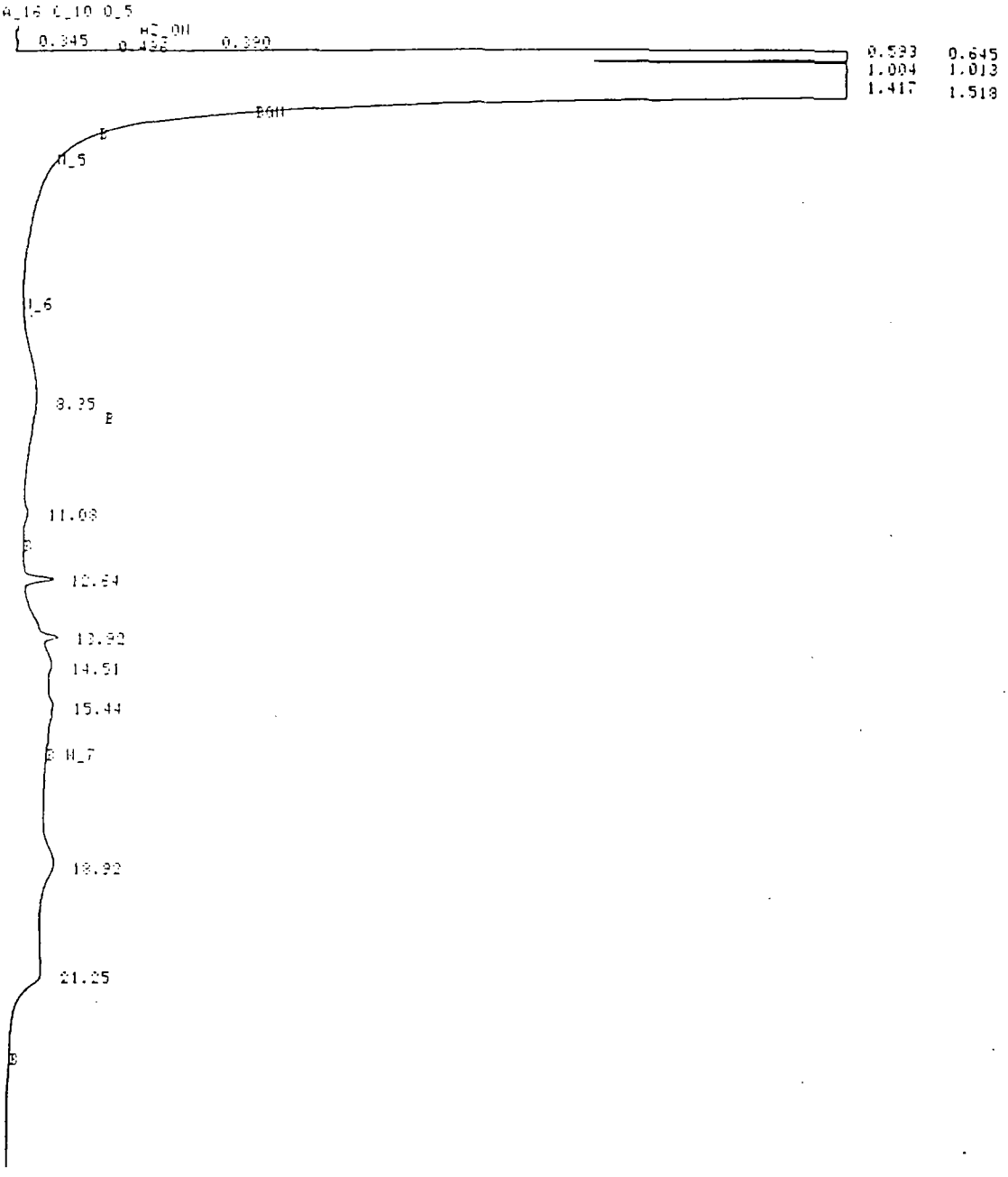
8.35	21462	[illegible]	[illegible]	[illegible]
10.36	14723	0.5901	7.3631	4.2229
12.60	63646	6.1061	V	31.8406	43.6955
13.90	26439	4.1270	V	13.2316	29.5323
14.54	16788	0.6549		8.3934	4.6863
15.41	4240	0.4700	V	2.1212	3.3632
15.65	2903	0.2760	V	1.4553	1.9754
16.20	6607	0.2307		3.3053	1.9034
17.67	2524	0.1420	V	1.4122	1.0153
				[illegible]	[illegible]

20.73	147903	2.9532	[illegible]	20.0079

8 PEAKS > AREA REJECT 456029 TOTAL AREA
8 PEAKS > HEIGHT REJECT 14.7852 TOTAL HEIGHT

3λ 7062432 (10:1)

FILE 523 RUN 23 STARTED 21:37.0 80/02/19 DIESELS JET FUEL
% METHOD 1 DIESELS JET FUEL LAST EDITED 00:45.2 80/02/17



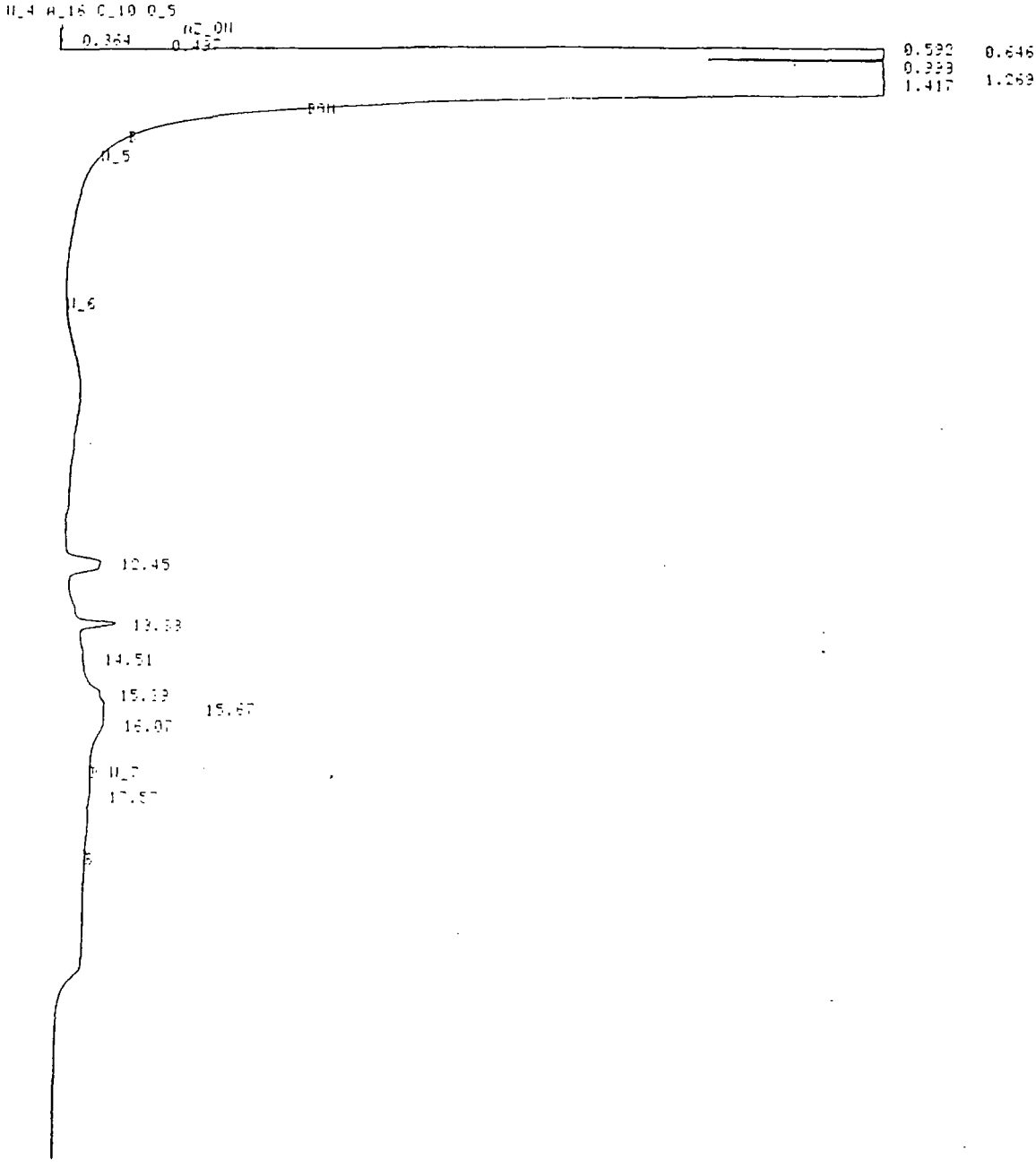
FILE 523 RUN 23 STARTED 21:37.0 80/02/19 DIESELS JET FUEL
% METHOD 1 DIESELS JET FUEL LAST EDITED 00:45.2 80/02/17

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
8.35	7987	0.2027		2.6167	1.3236
11.03	12717	0.6915		4.1762	4.5140
12.64	48014	5.3888	N	15.7026	35.1785
13.92	15623	2.9947	N	5.1135	19.5500
14.51	24719	1.0147	N	8.0886	6.6240
15.44	33633	0.9936		12.6337	6.5133
18.92	101728	2.1218	N	33.3318	13.8511
21.25	54362	1.9056		19.0069	12.4400

8 PEAKS AREA REJECT 305229 TOTAL AREA
8 PEAKS HEIGHT REJECT 15.3184 TOTAL HEIGHT

3A 7082433 (10:1)

FILE 524 RUN 24 STARTED 22:39.5 80 02 19 DIESELS JET FUEL
% METHOD 1 DIESELS JET FUEL LAST EDITED 00:45.2 80 02 17



FILE 524 RUN 24 STARTED 22:39.5 80 02 19 DIESELS JET FUEL
% METHOD 1 DIESELS JET FUEL LAST EDITED 00:45.2 80 02 17

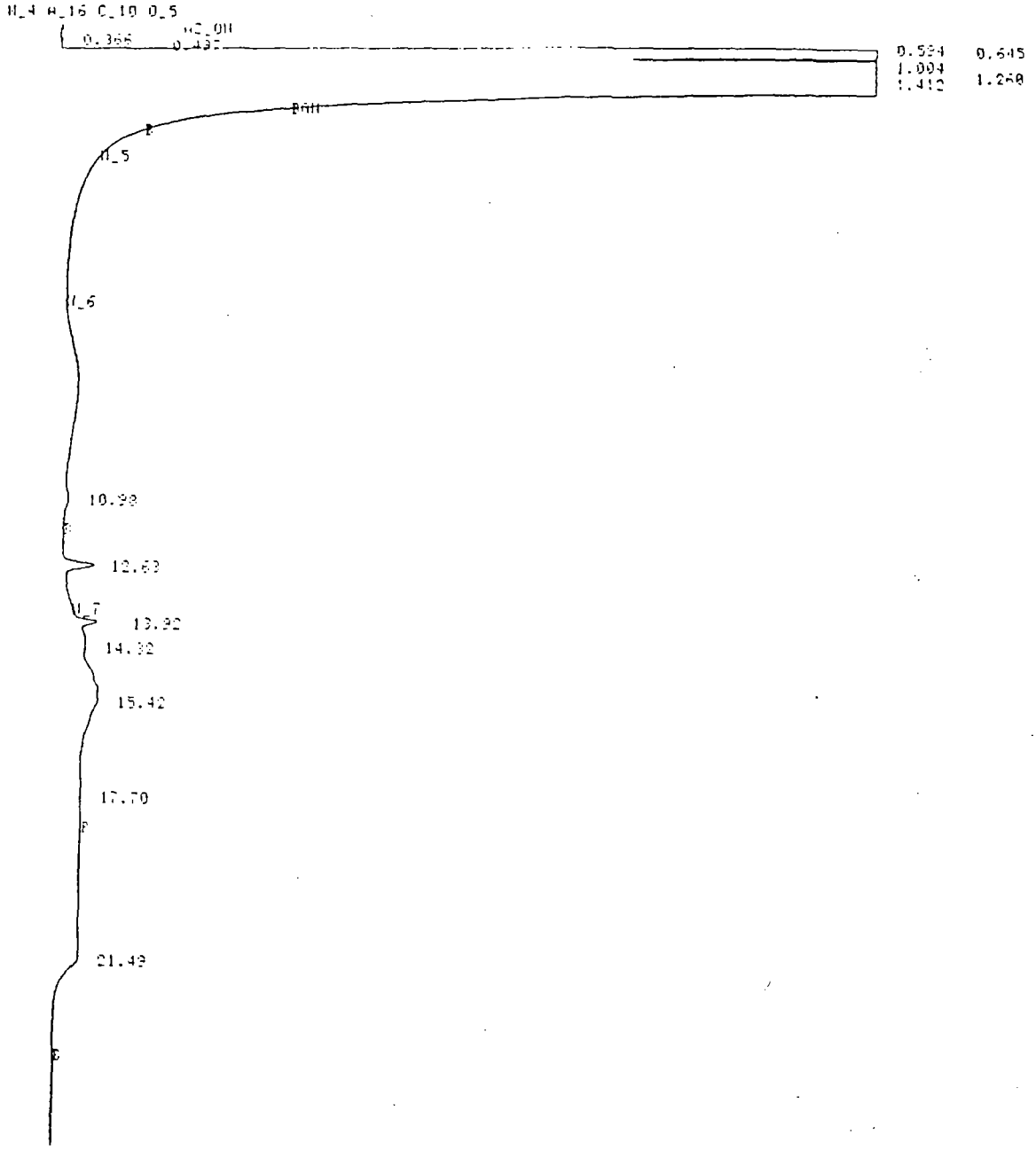
RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
12.45	123815	6.1659	V	62.4231	40.6996
13.33	54404	6.9750	V	27.4296	46.0406
14.51	2419	0.2244	V	1.2196	1.4815
15.33		0.4563	V		3.0116
15.67	9338	0.6572	V	4.7079	4.3379
16.07		0.4209			2.8442
17.57	8372	0.2400		4.2209	1.5844

5 PEAKS - AREA REJECT 198343 TOTAL AREA
7 PEAKS - HEIGHT REJECT 15.1497 TOTAL HEIGHT

7 PEAKS HEIGHT REJECT 15.1497 TOTAL HEIGHT

3λ 7082434 (10:1)

FILE 525 RUN 25 STARTED 23:12.4 80 02 19 DIESELS/JET FUEL
% METHOD 1 DIESELS JET FUEL LAST EDITED 00:45.2 80 02 17



FILE 525 RUN 25 STARTED 23:12.4 80 02 19 DIESELS/JET FUEL
% METHOD 1 DIESELS JET FUEL LAST EDITED 00:45.2 80/02/17

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
10.98	12095	0.5112		4.3466	3.6148
12.63	52322	5.5732	V	18.8010	39.4096
13.92	18591	3.3273	V	6.6810	23.5278
14.32	9373	0.4803	V	3.5179	3.3964
15.42	183203	2.8119	V	65.8402	19.8835
17.70	2174	0.1253		0.7813	0.8399
21.49		1.3121			9.2778

6 PEAKS % AREA REJECT 278262 TOTAL AREA
7 PEAKS % HEIGHT REJECT 14.1419 TOTAL HEIGHT

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 08/28/87
Date Received: 08/31/87
Date Reported: 09/30/87
Project No. JCO-104H

Q.C. DATA REPORT

Analyst: K. Keeley
Date of Analysis: 9/10-11/87
Method of Analysis: EPA 601/602
Detection Limit: 0.5
Units: ppb

Sample Number	Analyte	Original Result	Duplicate Result	% Deviation
7082433	1,1-DCA	26	24	4

Sample Number	Analyte	Sample Contribution	Spike Added	Spike Result	% Recovery
7082437	TCE	< 0.5	1.0	0.99	99

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

CHANNEL A INJECT 09/09/87 20:33:56

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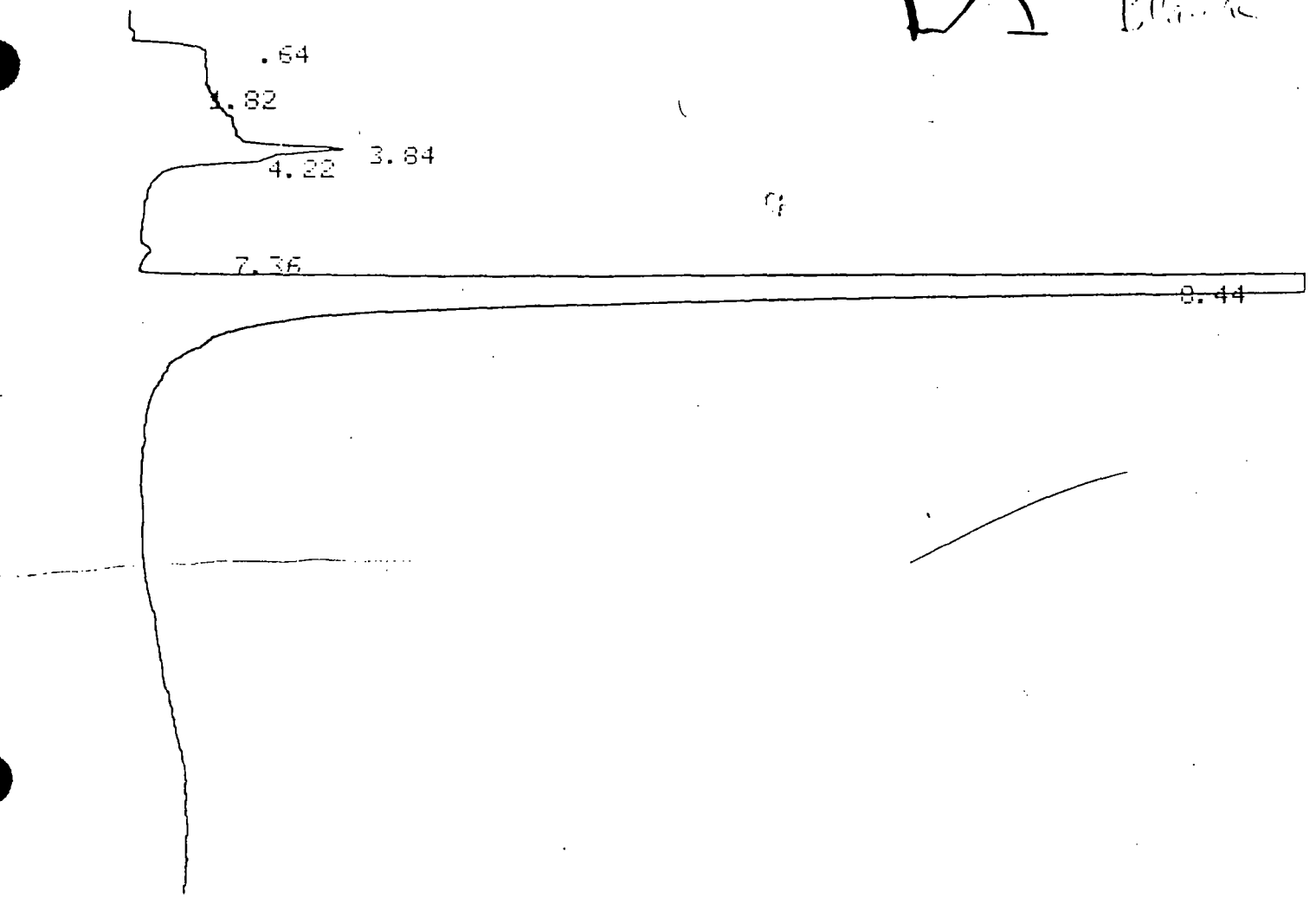


HALL 09/09/87 20:33:56 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 579 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	0.64	8294	02	
2	0.	1.82	1659105	02	
3	0.	3.84	1215582	02	
4	0.	4.22	1644324	03	
5	0.	7.36	38477	01	
6	0.	8.44	28192190	01	
TOTALS	0.		32757972		

INPUT OVERRANGE AT RT= 4.73

PID 09/09/87 20:33:56 CH= "B" PS= 1.

FILE 1. METHOD 5. RUN 553 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	0.64	8294	02	
2	0.	1.82	1659105	02	
3	0.	3.84	1215582	02	
4	0.	4.22	1644324	03	
5	0.	7.36	38477	01	
6	0.	8.44	28192190	01	
TOTALS	0.		32757972		

Blank

INPUT OVERRANGE AT RT= 4.73

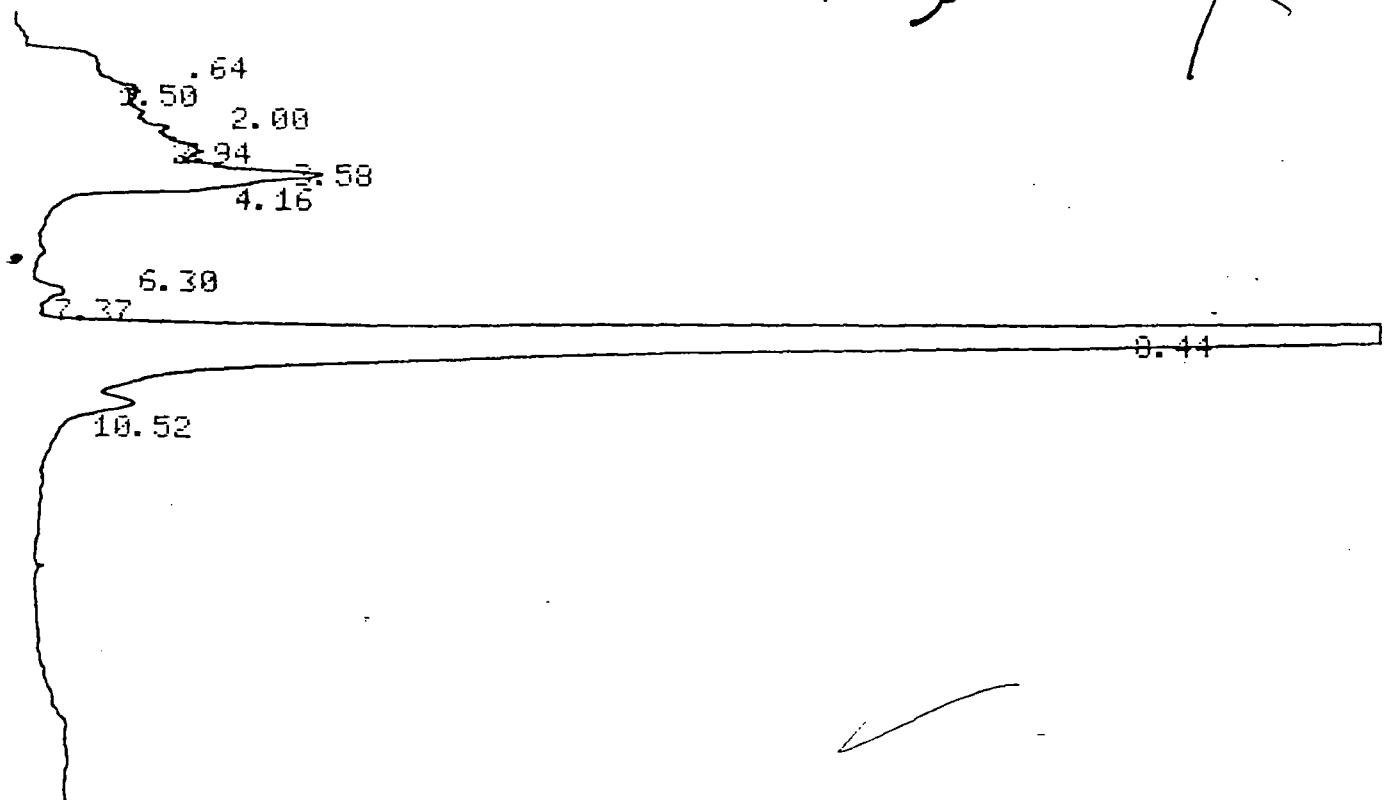
PID 09/09/87 20:33:56 CH= "B" PS= 1.

FILE 1. METHOD 5. RUN 553 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	9.39	293652	01	
2	0.	22.19	2715154	02	
3	0.	27.31	553483	02	
4	0.	30.56	4367880	03	
TOTALS	0.		7930169		

CHANNEL A INJECT 09/09/87 21:19:08 100 µl ~~7082432~~



5	0.	19.85	113115	01
6	0.	22.75	676306	01
TOTALS	0.		1547502	

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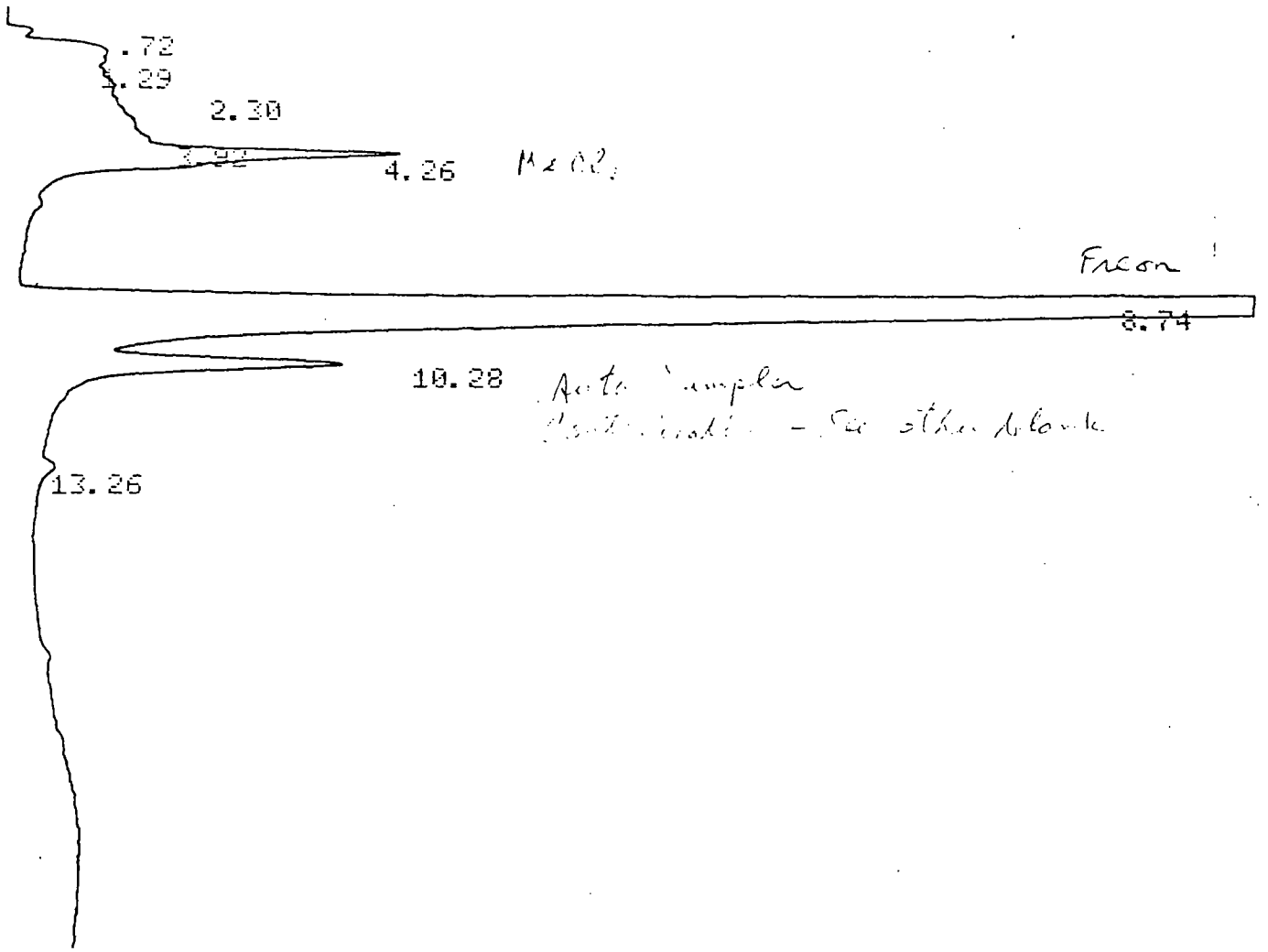
CHANNEL A INJECT 09/10/87 06:35:38



HALL 09/10/87 06:35:38 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 593 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	0.72	43291	02	
2	0.	1.29	402641	03	
3	0.	2.3	653331	02	
4	0.	3.92	200216	02	
5	0.	4.26	1900987	03	
6	0.	8.74	24056260	02	
7	0.	10.28	1655924	03	
8	0.	13.26	60237	01	
TOTALS	0.		28972887		

082

HALL 09/10/87 06:35:38 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 593 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	0.72	43291	02	
2	0.	1.29	402641	03	
3	0.	2.3	653331	02	
4	0.	3.92	200216	02	
5	0.	4.26	1900987	03	
6	0.	8.74	24056260	02	
7	0.	10.28	1655924	03	
8	0.	13.26	60237	01	
TOTALS	0.		28972887		

Blank

INPUT OVERRANGE AT RT= 4.79

ID 09/10/87 06:35:38 CH= "B" PS= 1.

ILE 1. METHOD 5. RUN 567 INDEX 1

NALYST: KWK

AME	PPB	RT	AREA	BC	RF
1	0.	9.38	156007	01	
OTALS	0.		156007		

HANNEL A INJECT 09/10/87 07:43:39

083

ALL 09/10/87 07:43:39 CH= "A" PS= 1.

ILE 1. METHOD 5. RUN 594 INDEX 1

NALYST: KWK

AME	PPB	RT	AREA	BC	RF
OTALS	0.				

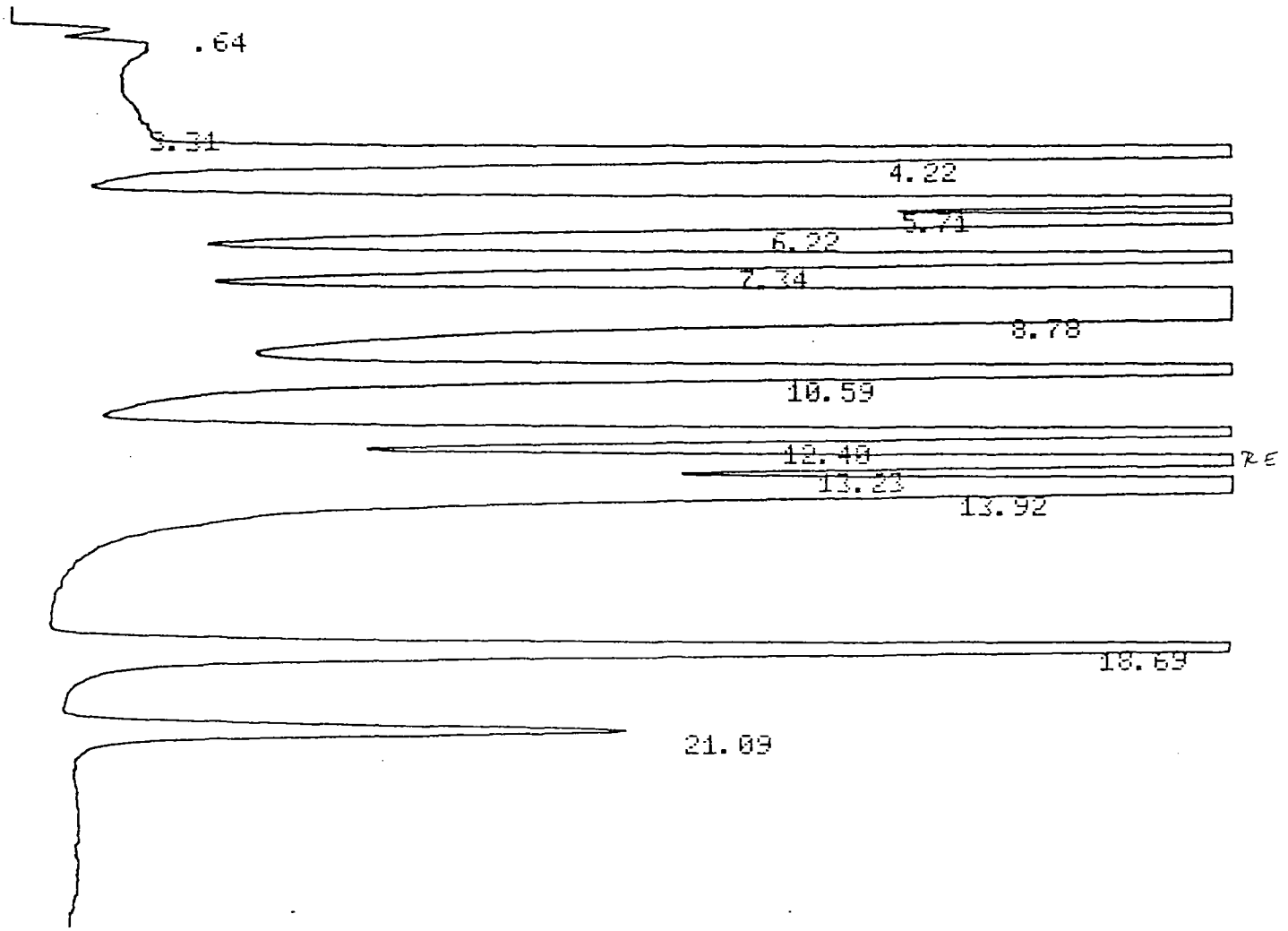
D 09/10/87 07:43:39 CH= "B" PS= 1.

LE 1. METHOD 5. RUN 568 INDEX 1

NAME	PPB	RT	AREA	BC	RF
1	0.	0.43	5723	01	
2	0.	9.38	151831	01	
TOTALS	0.		157554		

Sppb Purge A

CHANNEL A INJECT 09/10/87 05:11:43



HALL 09/10/87 05:11:43 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 591 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	0.64	197207	03	
2	0.	3.31	146944	02	
3	0.	4.22	13773963	08	
4	0.	5.71	8230925	06	
5	0.	6.22	9504116	06	
6	0.	7.34	10523192	06	114%
7	0.	? 8.78	72031749	06	
8	0.	10.59	11029092	06	105%
9	0.	12.4	8401219	06	81%
10	0.	13.23	9773850	06	94%
11	0.	13.92	17761136	07	

HALL 09/10/87 05:11:43 CH= "A" PS= 1

FILE 1. METHOD 5. RUN 591 INDEX 1

ANALYST: KWK

3ppb
purge A

NAME	PPB	RT	AREA	BC	RF
1	0.	0.64	197207	03	
2	0.	3.31	146944	02	
3	0.	4.22	13773963	08	
4	0.	5.71	8230925	06	
5	0.	6.22	9504116	06	
6	0.	7.34	10,523,192	06	114%
7	0.	? 8.78	72,031,749	06	
8	0.	-10.59	11,029,092	06	105%
9	0.	12.4	8,401,219	06	118%
10	0.	13.23	9,773,850	06	81%
11	0.	13.92	17761136	07	
12	0.	18.69	9102609	01	
13	0.	21.09	2658279	01	
TOTALS	0.		173134281		

INPUT OVERRANGE AT RT= 4.77

PID 09/10/87 05:11:43 CH= "B" PS= 1.

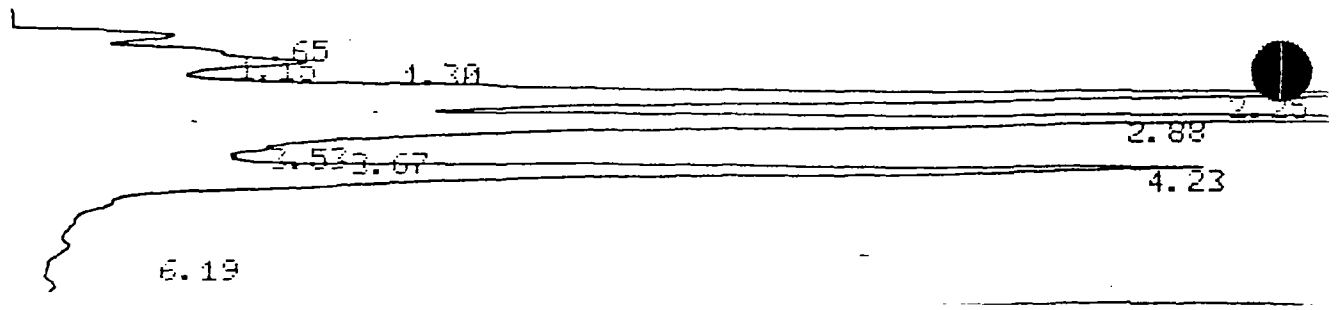
FILE 1. METHOD 5. RUN 565 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	6.11	142796	01	
2	0.	9.36	172798	01	
3	0.	13.1	109615	01	
4	0.	18.58	85096	01	
5	0.	20.98	188101	01	
TOTALS	0.		698406		

3ppb
Purge B+C

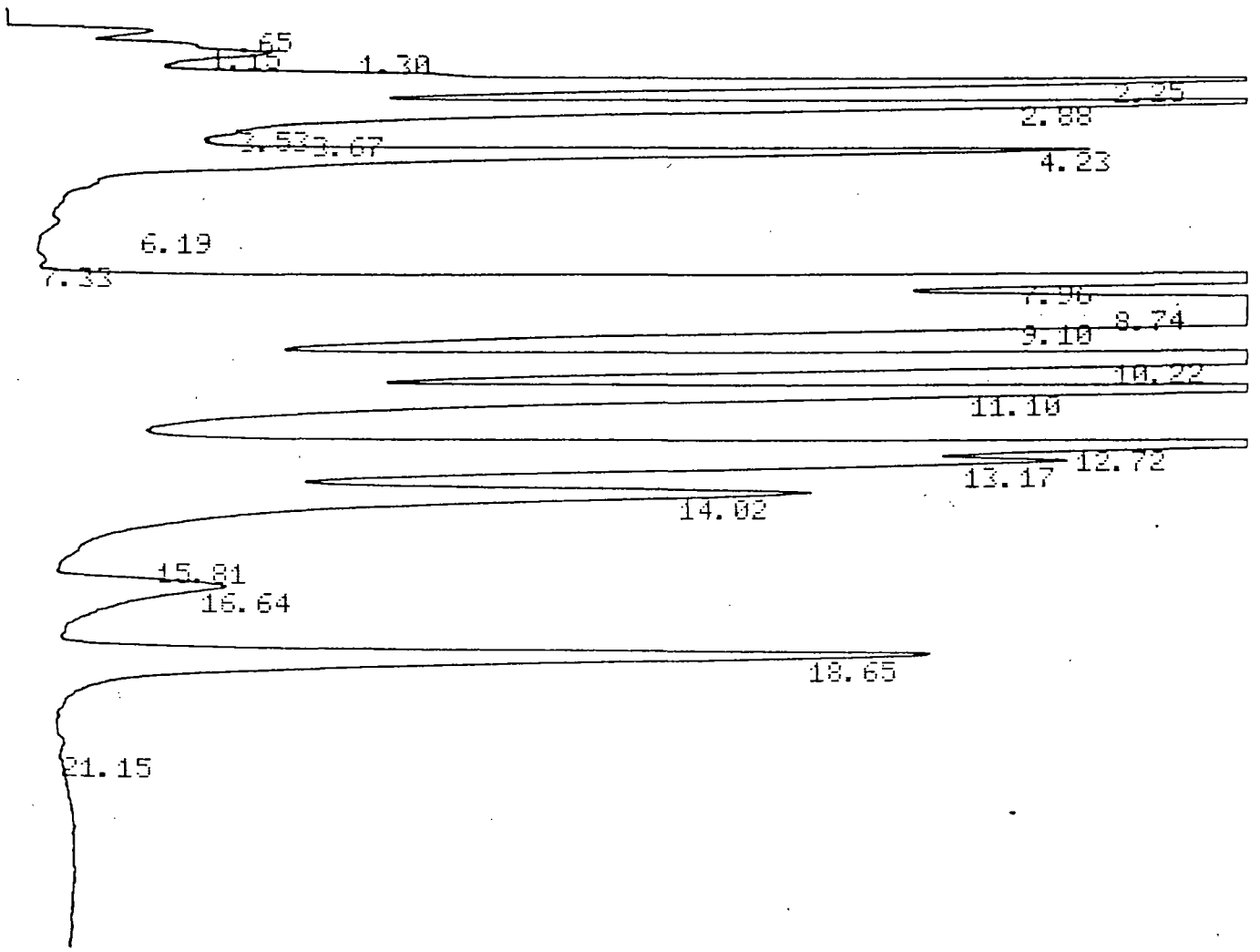
CHANNEL A INJECT 09/10/87 05:53:42



1	0.	6.11	142796 01
2	0.	9.36	172798 01
3	0.	13.1	109615 01
4	0.	18.58	85096 01
5	0.	20.98	188101 01
TOTALS	0.		698406

3PPb
Purge B+C

CHANNEL A INJECT 09/10/87 05:53:42



HALL 09/10/87 05:53:42 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 592 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	0.65	498533	02	
2	0.	1.15	475725	02	
3	0.	1.3	1227197	02	
4	0.	2.25	6848232	02	
5	0.	2.88	6711362	02	
6	0.	3.53	128096	02	
7	0.	3.67	453452	02	
8	0.	4.23	4837126	03	
9	0.	6.19	40901	01	
10	0.	7.33	25689	02	
11	0.	7.96	8958103	02	

FILE 1. METHOD 5. RUN 592 INDEX 1

ANALYST: KWK

purge B+C
3ppb

NAME	PPB	RT	AREA	BC	RF
1	0.	0.65	498533	02	
2	0.	1.15	475725	02	
3	0.	1.3	1227197	02	
4	0.	2.25	6848232	02	
5	0.	2.88	6711362	02	
6	0.	3.53	128096	02	
7	0.	3.67	453452	02	
8	0.	4.23	4837126	03	
9	0.	6.19	40901	01	
10	0.	7.33	25699	02	
11	0.	7.96	8958103	02	
12	0.	8.74	11489967	02	
13	0.	9.1	16018995	02	
14	0.	10.22	13524864	02	
15	0.	11.1	9472749	02	
16	0.	12.72	7681575	02	
17	0.	13.17	5023591	02	
18	0.	14.02	6294876	08	
19	0.	15.81	4537	05	
20	0.	16.64	1384083	06	
21	0.	18.65	4907682	07	
22	0.	21.15	20187	01	
TOTALS	0.		106027532		

INPUT OVERRANGE AT RT= 4.76

PID 09/10/87 05:53:42 CH= "B" PS= 1.

FILE 1. METHOD 5. RUN 566 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	7.82	226801	01	
2	0.	9.4	105345	01	
3	0.	12.56	59396	02	
4	0.	13.55	366539	03	
5	0.	19.85	113115	01	
6	0.	22.75	676306	01	
TOTALS	0.		1547502		

Blank

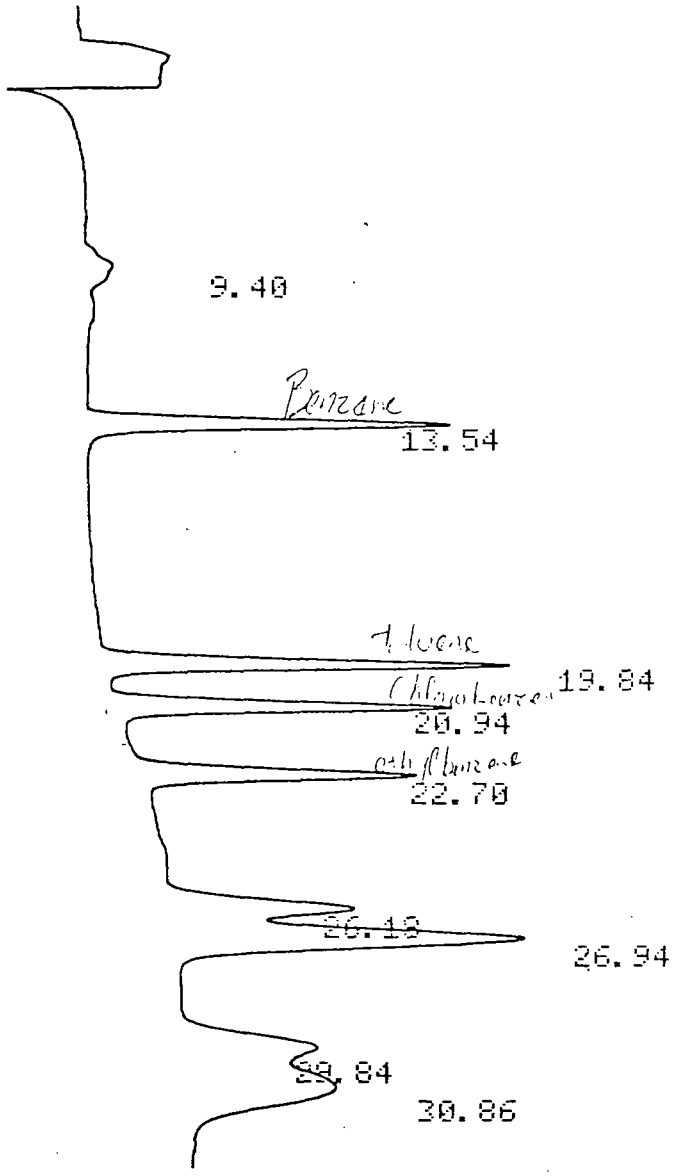
CHANNEL A INJECT 09/10/87 06:35:38

.72
.29
2.30

NAME	PPB	RT	AREA	BC	RF
1	0.	0.5	12730	01	
2	0.	9.39	119699	01	
TOTALS	0.		132429		

Aromatic mix + Xylenes @ 10ppb

CHANNEL A INJECT 09/10/87 11:43:51



INPUT OVERRANGE AT RT= 4.7

PID 09/10/87 11:43:51 CH= "B" PS= 1.

FILE 1. METHOD 5. RUN 574 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	9.4	161157	01	
2	0.	13.54	1135225	01	
3	0.	19.84	1283330	01	

PID 09/10/87 11:43:51 CH= "B" PS= 1.

FILE 1. METHOD 5. RUN 574 INDEX 1

ANALYST: KWK

Aromatic Mix
+xylenes
10 ppb

NAME	PPB	RT	AREA	BC	RF
1	0.	9.4	161157	01	
2	0.	13.54	1135225	01	
3	0.	19.84	1283320	01	
4	0.	20.94	1118250	01	
5	0.	22.7	974139	01	
6	0.	26.18	952778	02	
7	0.	26.94	2077419	03	
8	0.	29.84	1029810	02	
9	0.	30.86	1759429	03	
TOTALS	0.		10491527		

HALL 09/10/87 11:43:51 CH= "A" PS= 1.

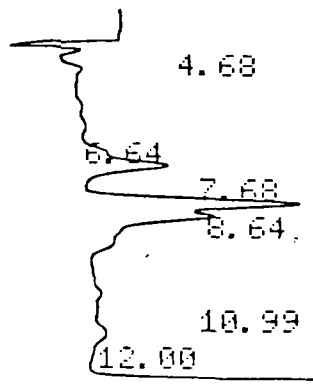
FILE 1. METHOD 5. RUN 600 INDEX 1

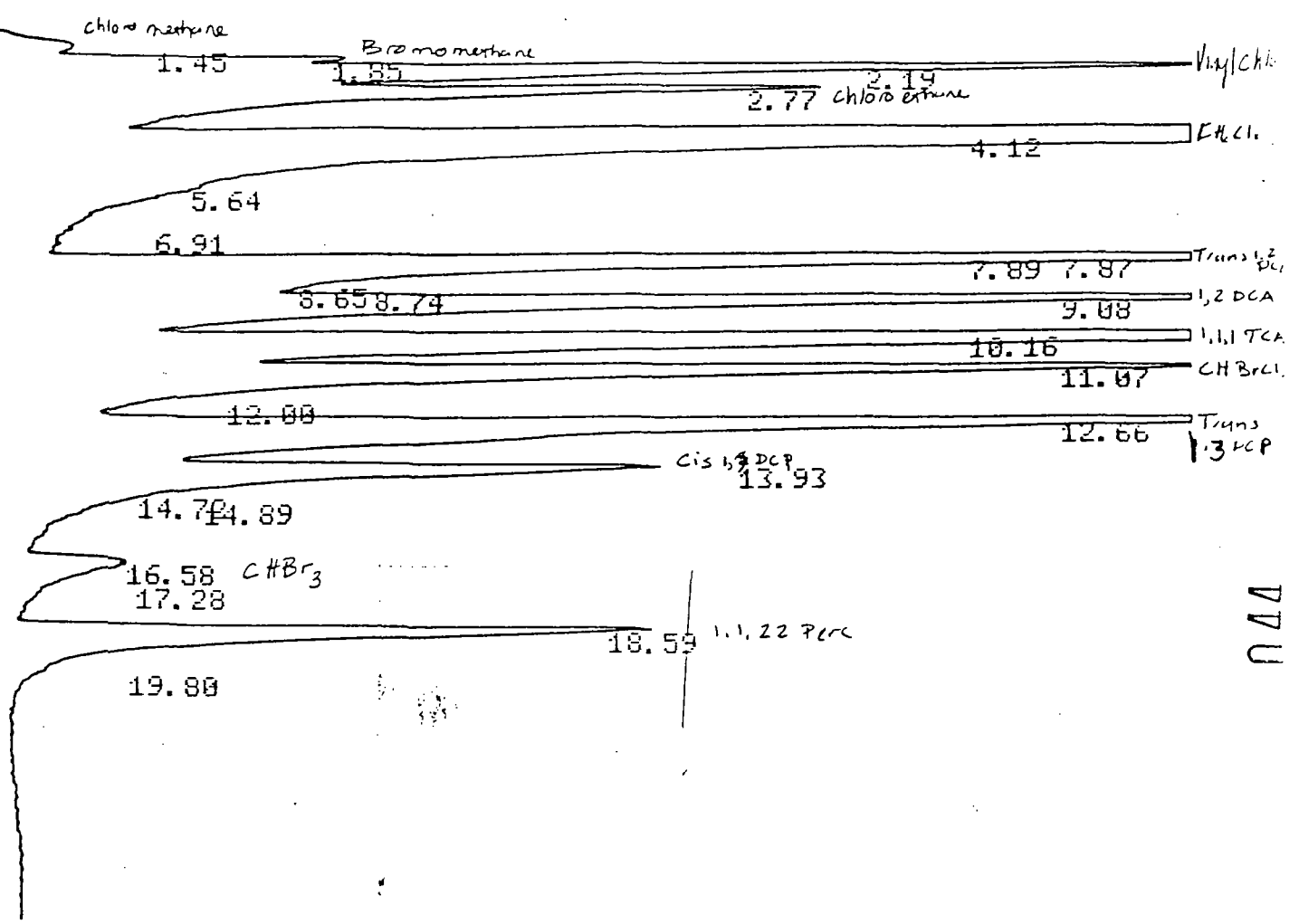
ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	3.3	339530	02	
2	0.	4.18	11711563	03	
3	0.	8.72	3722772	01	
4	0.	10.25	57568	01	
5	0.	18.72	152317	02	
6	0.	21.07	18148165	03	
TOTALS	0.		34131915		

Palo Alto
7041084 Neat

CHANNEL B INJECT 09/10/87 12:24:09





HALL 08/29/87 18:39:53 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 120 INDEX 1

ANALYST: KWK

8/29

Purge mix B + C
at 3ppb

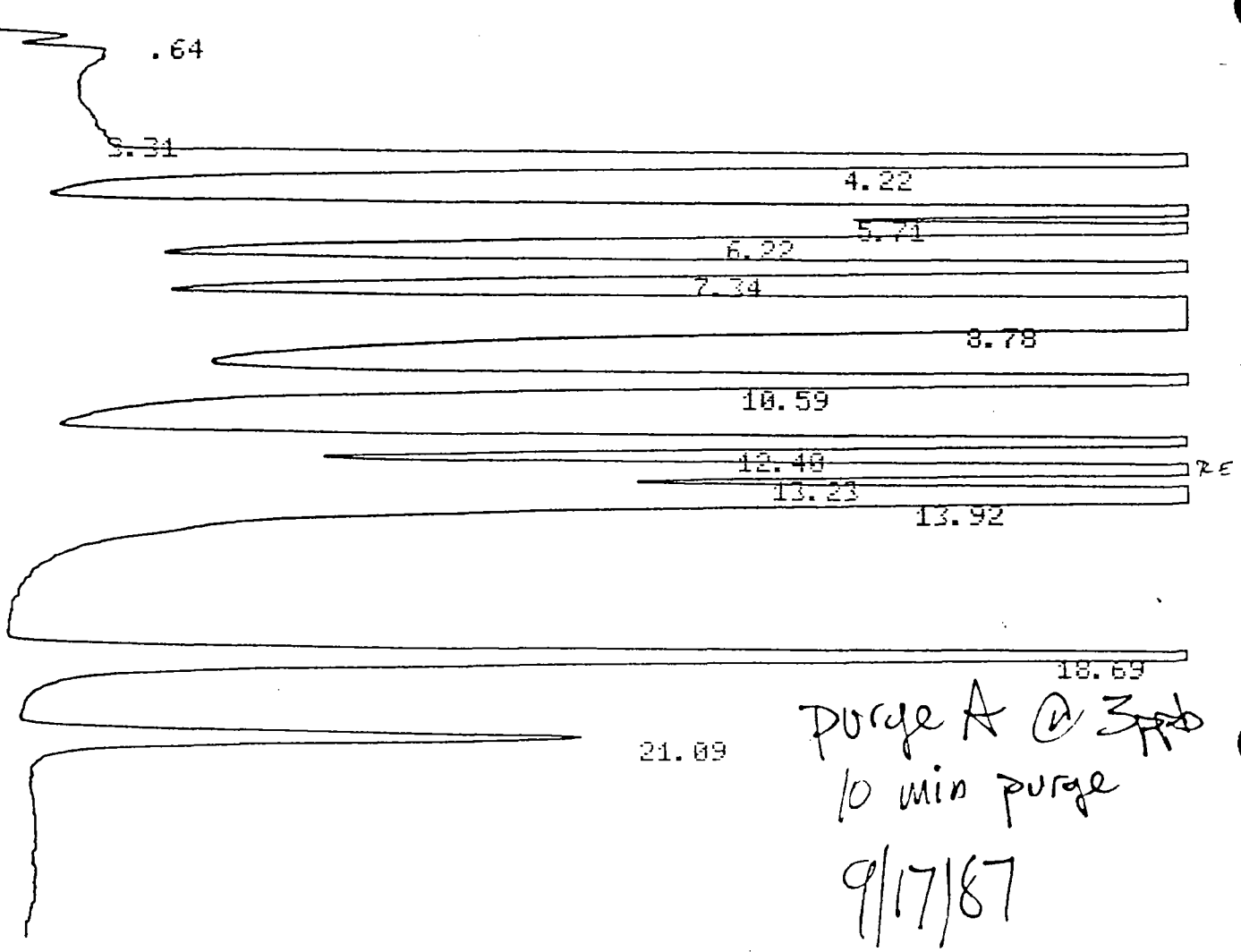
NAME	PPB	RT	AREA	BC	RF
1	0.	1.45	567359	02	[illegible]
2	0.	1.85	987818	02	[illegible]
3	0.	2.19	5465325	02	Vinyl Chloride
4	0.	2.77	5123258	02	[illegible]
5	0.	4.12	37899757	09	[illegible]
6	0.	6.91	4872	05	
7	0.	7.87	2428185	02	
8 2,628,206	0.	7.89	5456433	02	Trans 1,2 DCE
9	0.	8.65	300703	02	
10	0.	8.74	253864	02	
11	0.	9.08	7067131	02	1,2 DCA
12 [illegible]	0.	10.16	9589079	02	[illegible]
13	0.	11.07	6791326	02	[illegible]
14	0.	12.	292961	02	
15	0.	12.66	8946002	02	Trans 1,3 [illegible]
16	0.	13.93	3913073	02	[illegible] 3 [illegible]
17	0.	14.72	211858	02	
18	0.	14.89	419653	03	
19	0.	16.58	639703	02	
20	0.	17.28	55749	03	
21	0.	18.59	3519406	02	[illegible]
22	0.	19.8	66886	03	

USE for Peak I.D. only

2	0.	9.38	151831	01
TOTALS	0.		157554	

Purge A

CHANNEL A INJECT 09/10/87 05:11:43



Purge A @ 3pm
10 min purge
9/17/87

ALL 09/10/87 05:11:43 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 591 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	0.64	197207	03	
2	0.	3.31	146944	02	
3	0.	4.22	13773963	08	
4	0.	5.71	8230925	06	
5	0.	6.22	9504116	06	
6	0.	7.34	10523192	06	
7	0.	8.78	72031749	06	
8	0.	-10.59	11029092	06	
9	0.	12.4	8401219	06	
10	0.	13.23	9773850	06	
11	0.	13.92	17761136	07	
12	0.	18.69	9102609	01	
13	0.	21.09	2658279	01	
TOTALS	0.		173134281		

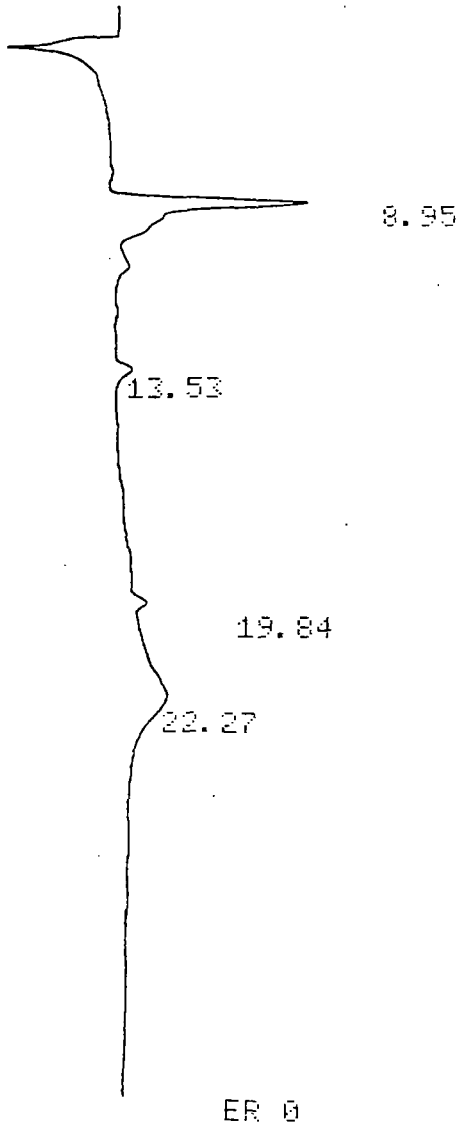
RF
39576587

Use for peak I.D. only

080

CHANNEL B INJECT 09/16/87 13:09:42

50 ppb std MEK
10 min purge



INPUT OVERRANGE AT RT= 4.63

PID 09/16/87 13:09:42 CH= "B" PS= 1.

FILE 1. METHOD 5. RUN 544 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	8.95	535856	01	
2	0.	13.53	60716	01	
3	0.	19.84	40280	01	
4	0.	22.27	258803	01	
TOTALS	0.		895655		

HALL 09/16/87 13:09:42 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 569 INDEX 1

ANALYST: KWK

PID 09/16/87 13:09:42 CH= "B" PS= 1.

FILE 1. METHOD 5. RUN 544 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	8.95	535856	01	
2	0.	13.53	60716	01	MEK
3	0.	19.84	40280	01	
4	0.	22.27	258803	01	
TOTALS	0.		895655		

HALL 09/16/87 13:09:42 CH= "A" PS= 1.

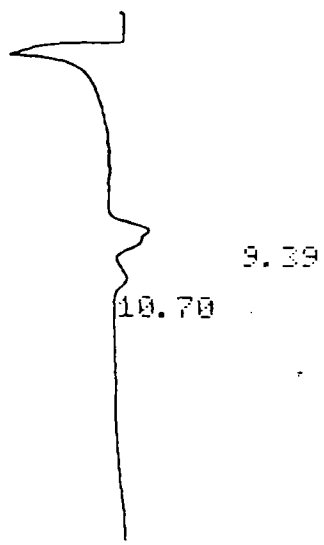
FILE 1. METHOD 5. RUN 569 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	0.62	26063	02	
2	0.	1.48	316464	03	
3	0.	4.1	26198357	01	
4	0.	8.38	18328675	02	
5	0.	10.18	352122	03	
6	0.	18.7	115443	01	
TOTALS	0.		45337124		

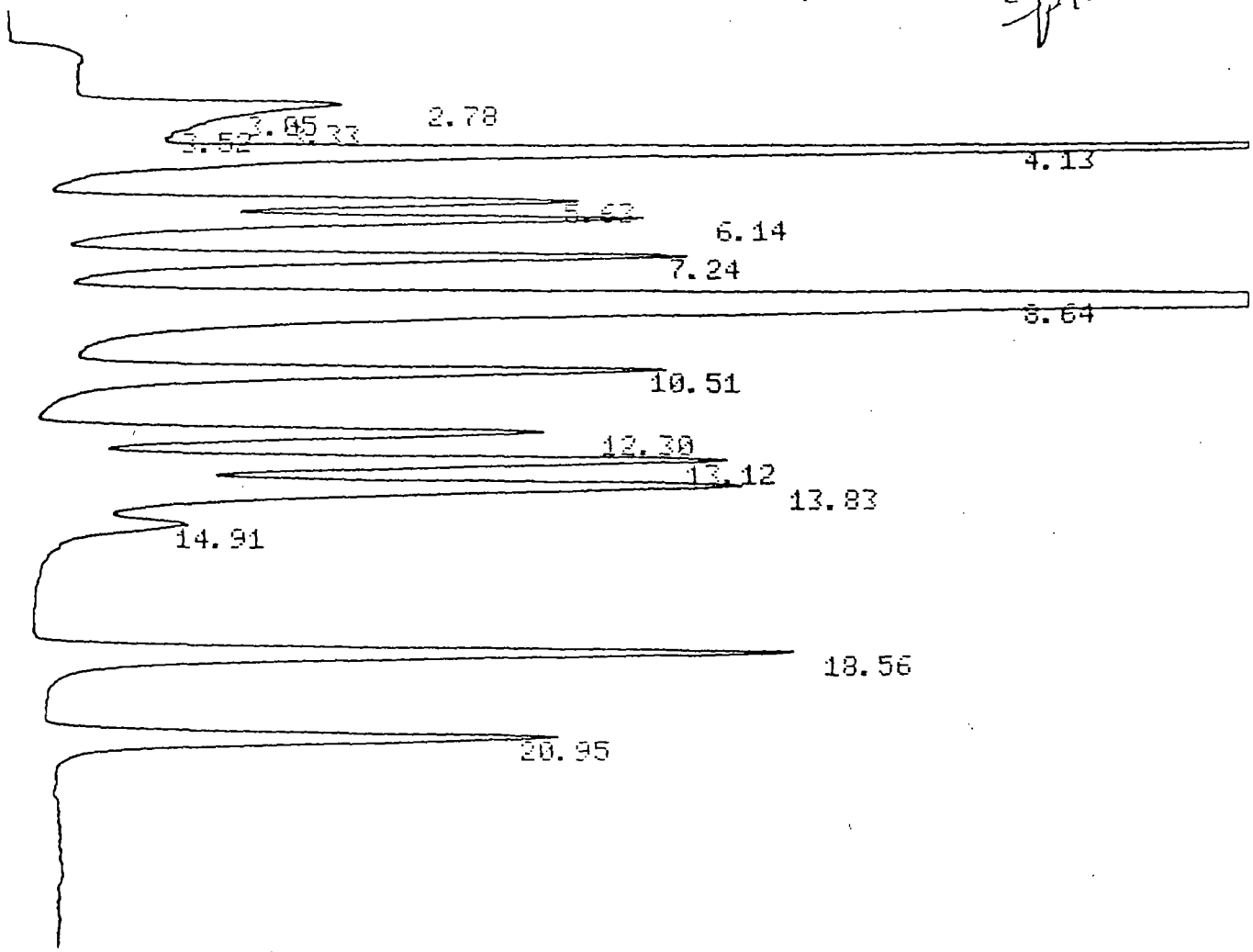
M082427 5 ml
10 min purge

CHANNEL B INJECT 09/16/87 14:00:59



708 24 31 2nd Spike

CHANNEL A INJECT 09/09/87 10:31:01



HALL 09/09/87 10:31:01 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 775 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	2.78	1056226	02	
2	0.	3.05	474632	02	
3	0.	3.33	294226	02	
4	0.	3.52	443578	02	
5	0.	4.13	6138473	03	
6	0.	5.63	2064379	02	
7	0.	6.14	2501142	02	
8	0.	7.24	2591075	02	
9	0.	8.64	14709211	03	
10	0.	10.51	2639534	01	
11	0.	12.3	2306799	02	
12	0.	13.12	3220954	02	
13	0.	13.83	4179604	02	
14	0.	14.91	869869	03	
15	0.	18.56	3356565	01	
16	0.	20.95	2292800	01	
TOTALS	0.		49139067		

FILE 1. METHOD 5. RUN 775 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	2.78	1056226	02	
2	0.	3.05	474632	02	
3	0.	3.33	294226	02	
4	0.	3.52	443578	02	
5	0.	4.13	6138473	03	
6	0.	5.63	2064379	02	
7	0.	6.14	2501142	02	
8	0.	7.24	2591075	02	
9	0.	8.64	14709211	03	
10	0.	10.51	2639534	01	
11	0.	12.3	2306799	02	
12	0.	13.12	3220954	02	
13	0.	13.83	4179604	02	
14	0.	14.91	869869	03	
15	0.	18.56	3356565	01	
16	0.	20.95	2292800	01	
TOTALS	0.		49139067		

7082437
spike

INPUT OVERRANGE AT RT= 4.6

PID 09/09/87 10:31:01 CH= "B" PS= 1.

FILE 1. METHOD 5. RUN 745 INDEX 1

ANALYST: KWK

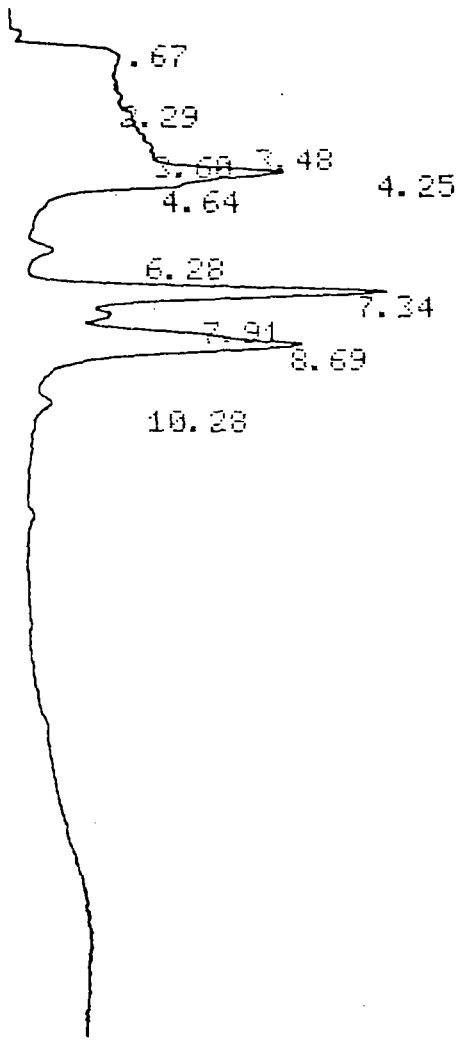
NAME	PPB	RT	AREA	BC	RF
1	0.	5.82	39555	02	
2	0.	6.03	34433	03	
3	0.	9.28	653962	02	
4	0.	10.8	87173	03	
5	0.	12.99	36265	02	
6	0.	13.44	71767	03	
7	0.	18.46	31446	01	
8	0.	19.73	78426	01	
9	0.	20.85	136205	01	
10	0.	22.59	67516	01	
TOTALS	0.		1236748		

NAME	PPB	RT	AREA BC	RF
TOTALS	0.			

1108427 5 ML

PLOT "A" AUTO

CHANNEL A INJECT 09/09/87 15:12:14



HALL 09/09/87 15:12:14 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 572 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA BC	RF
1	0.	0.67	21037 03	
2	0.	2.29	13011 02	
3	0.	3.48	45401 02	
4	0.	3.6	9391 03	
5	0.	4.25	619026 02	
6	0.	[illegible]	[illegible]	

HALL 09/09/87 15:12:14 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 572 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	0.67	21037	03	
2	0.	2.29	13011	02	7082427
3	0.	3.48	45401	02	
4	0.	3.6	9391	03	
5	0.	4.25	619026	02	
6	0.	4.64	106560	03	
7	0.	6.28	82510	01	
8	0.	7.34	1395620	02	-
9	0.	7.91	282482	02	
10	0.	8.69	1716356	03	
11	0.	10.28	32190	01	
TOTALS	0.		4323584		

INPUT OVERRANGE AT RT= 4.74

PID 09/09/87 15:12:14 CH= "B" PS= 1.

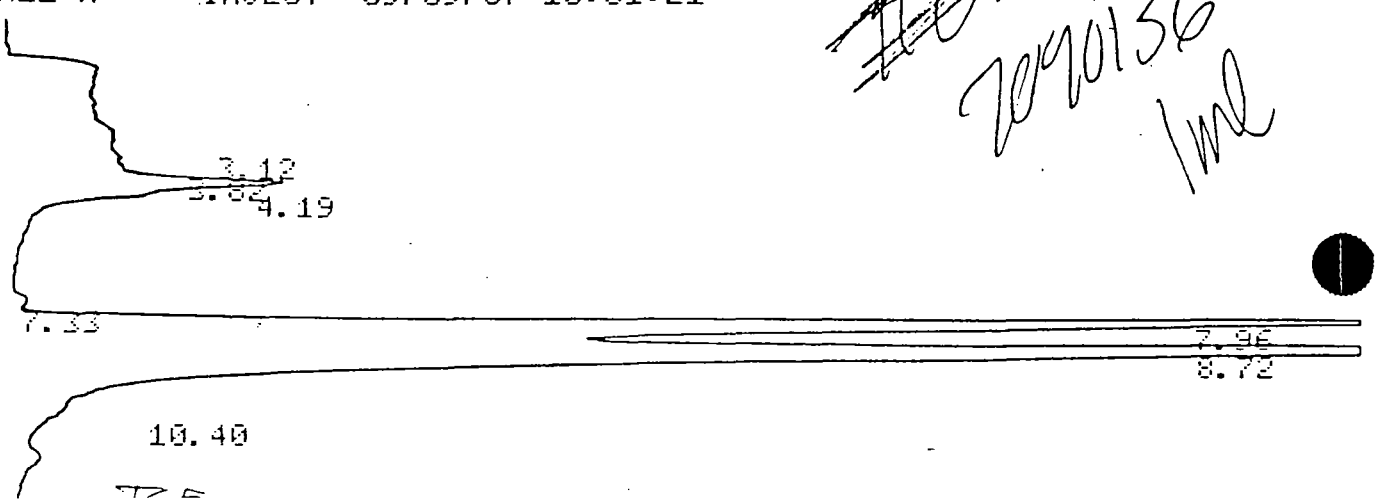
FILE 1. METHOD 5. RUN 546 INDEX 1

ANALYST: KWK

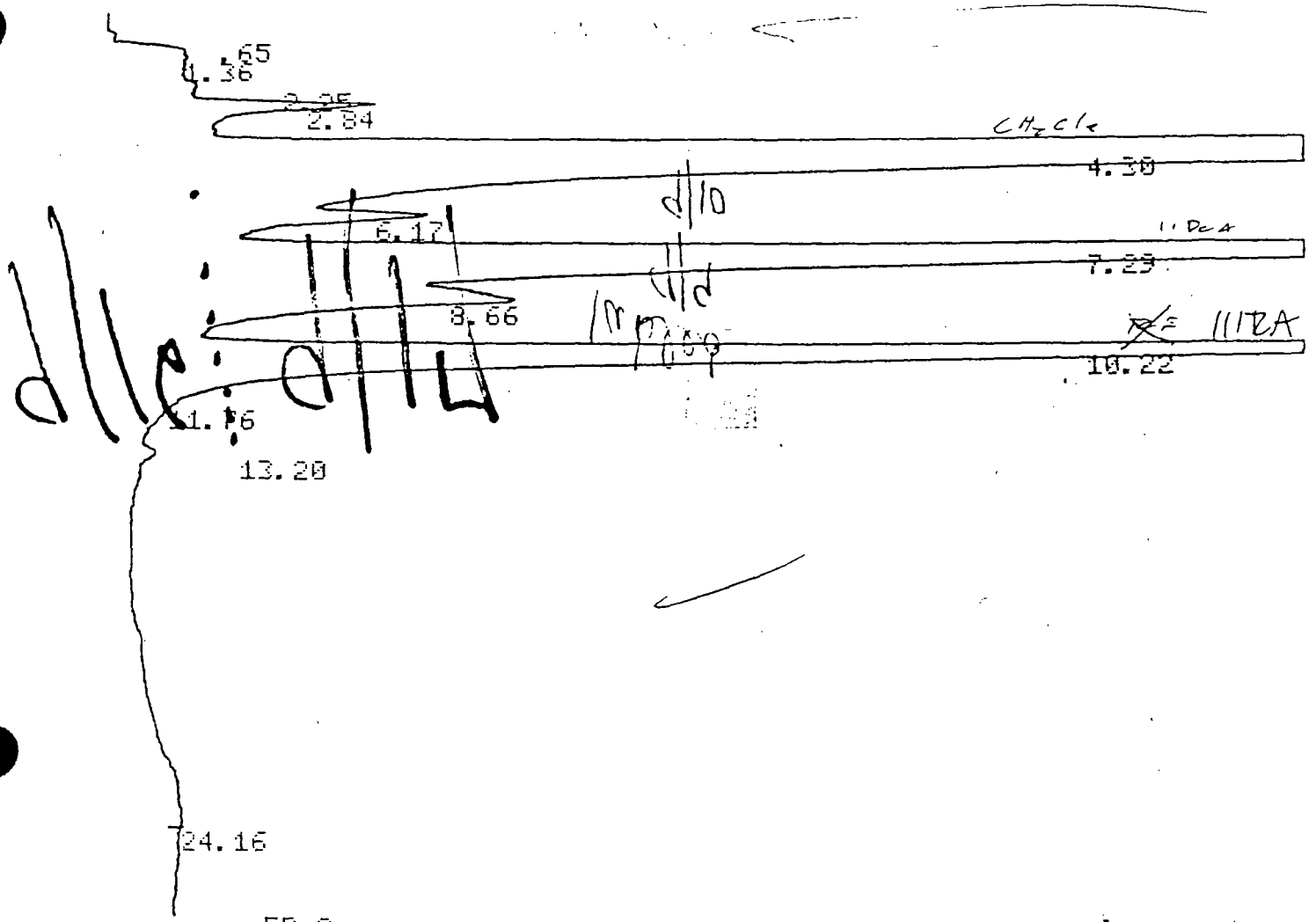
NAME	PPB	RT	AREA	BC	RF
1	0.	9.39	273666	02	
2	0.	10.7	75467	03	
TOTALS	0.		349133		

CHANNEL A INJECT 09/09/87 15:51:21

7090136



CHANNEL A INJECT 09/09/87 16:28:15 7082428 50µL



ER 0

HALL 09/09/87 16:28:15 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 574 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	0.65	10539	02	
2	0.	1.36	242757	03	6481169
3	0.	2.25	68304	02	
4	0.	2.84	928771	02	
5	0.	4.3	69395625	08	
6	0.	6.17	503224	05	
7	0.	7.29	21963679	06	
8	0.	8.66	2595974	06	
9	0.	10.22	12112051	06	
10	0.	11.76	67732	07	
11	0.	13.2	57159	01	
12	0.	24.16	450027	01	
TOTALS	0.		108395842		

24.16

ER 0

HALL 09/09/87 16:28:15 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 574 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	0.65	10539	02	
2	0.	1.36	242757	03	6481167
3	0.	2.25	68304	02	
4	0.	2.84	928771	02	
5	0.	4.3	69,395,625	08	
6	0.	6.17	503224	05	
7	0.	7.29	21,963,679	06	
8	0.	8.66	2595974	06	
9	0.	10.22	12112051	06	
10	0.	11.76	67732	07	
11	0.	13.2	57159	01	
12	0.	24.16	450027	01	
TOTALS	0.		108395842		

7082428

INPUT OVERRANGE AT RT= 4.67

PID 09/09/87 16:28:15 CH= "B" PS= 1.

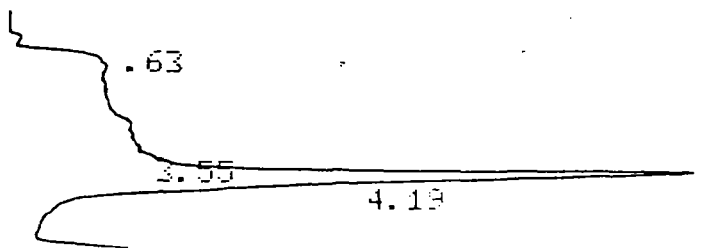
FILE 1. METHOD 5. RUN 548 INDEX 1

ANALYST: KWK

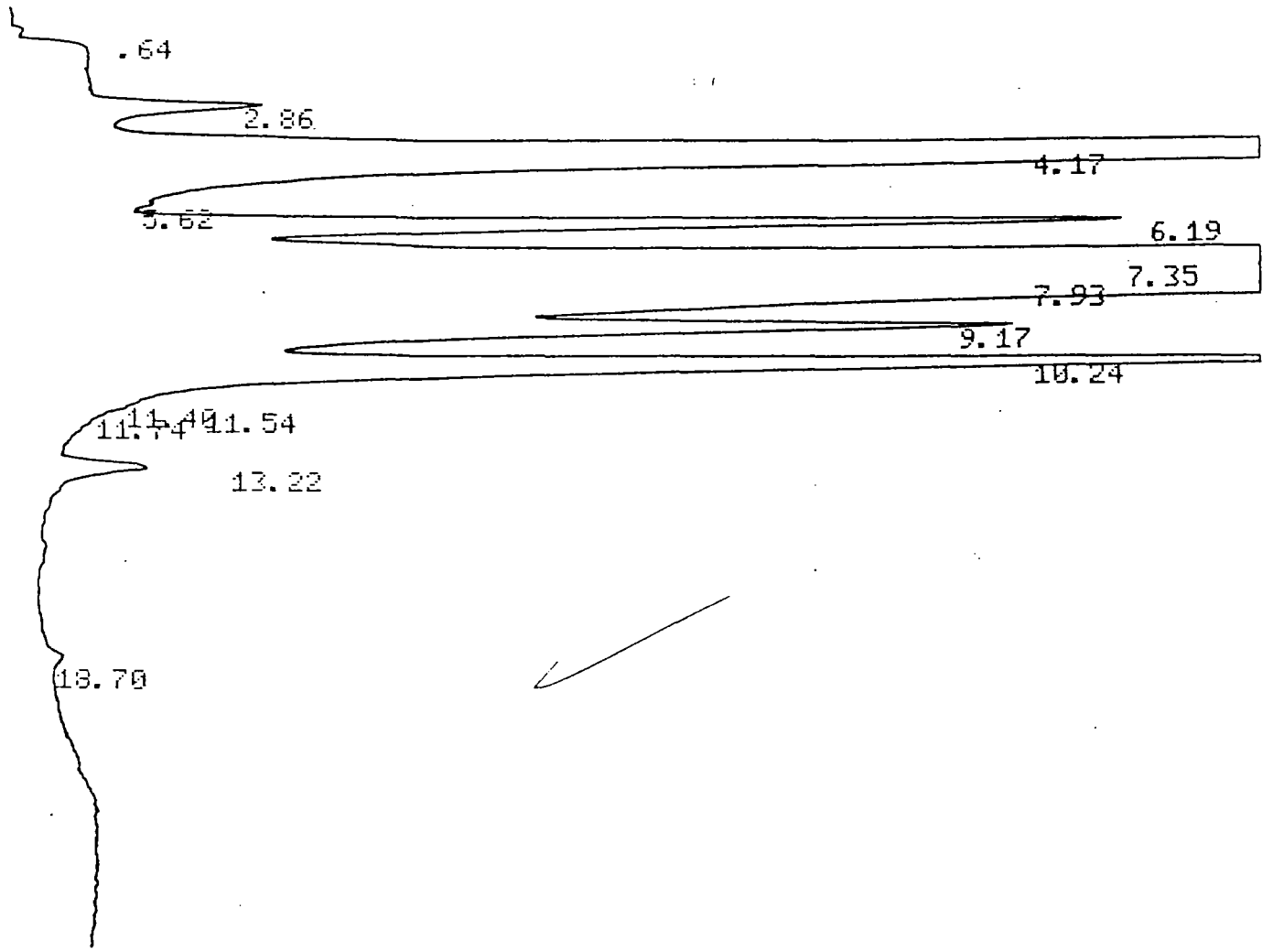
NAME	PPB	RT	AREA	BC	RF
1	0.	9.39	280741	02	
2	0.	10.67	83268	03	
TOTALS	0.		364009		

7082429 ↓ .5 ml

CHANNEL A INJECT 09/09/87 17:10:38



CHANNEL A INJECT 09/10/87 09:33:28 7082424 Neat



HALL 09/10/87 09:33:28 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 597 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	0.64	19580	03	
2	0.	2.86	712025	02	
3	0.	4.17	36198033	08	
4	0.	5.62	11291	06	
5	0.	6.19	4215084	06	
6	0.	7.35	52969847	06	
7	0.	7.93	34519489	06	
8	0.	9.17	5517238	06	
9	0.	10.24	7958253	06	
10	0.	11.4	75532	06	
11	0.	11.54	65053	06	
12	0.	11.74	13496	07	
13	0.	13.22	398136	01	

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	0.64	19580	03	
2	0.	2.86	712025	02	7082929
3	0.	4.17	36198033	08	
4	0.	5.62	11291	06	
5	0.	6.19	4215084	06	
6	0.	7.35	52969847	06	
7	0.	7.93	34519489	06	
8	0.	9.17	5517238	06	
9	0.	10.24	7958253	06	
10	0.	11.4	75532	06	
11	0.	11.54	65053	06	
12	0.	11.74	13496	07	
13	0.	13.22	398136	01	
14	0.	18.7	64661	01	
TOTALS	0.		142737718		

INPUT OVERRANGE AT RT= 4.65

PID 09/10/87 09:33:28 CH= "B" PS= 1.

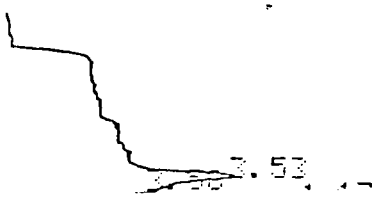
FILE 1. METHOD 5. RUN 571 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	0.53	9191	01	
2	0.	6.09	50676	01	
3	0.	7.8	409294	01	
4	0.	9.39	141159	02	
5	0.	10.43	71372	03	
6	0.	23.5	239261	02	
7	0.	24.48	141056	02	
8	0.	25.15	1649617	03	
9	0.	27.07	444700	01	
TOTALS	0.		3156326		

7082930 50 µL

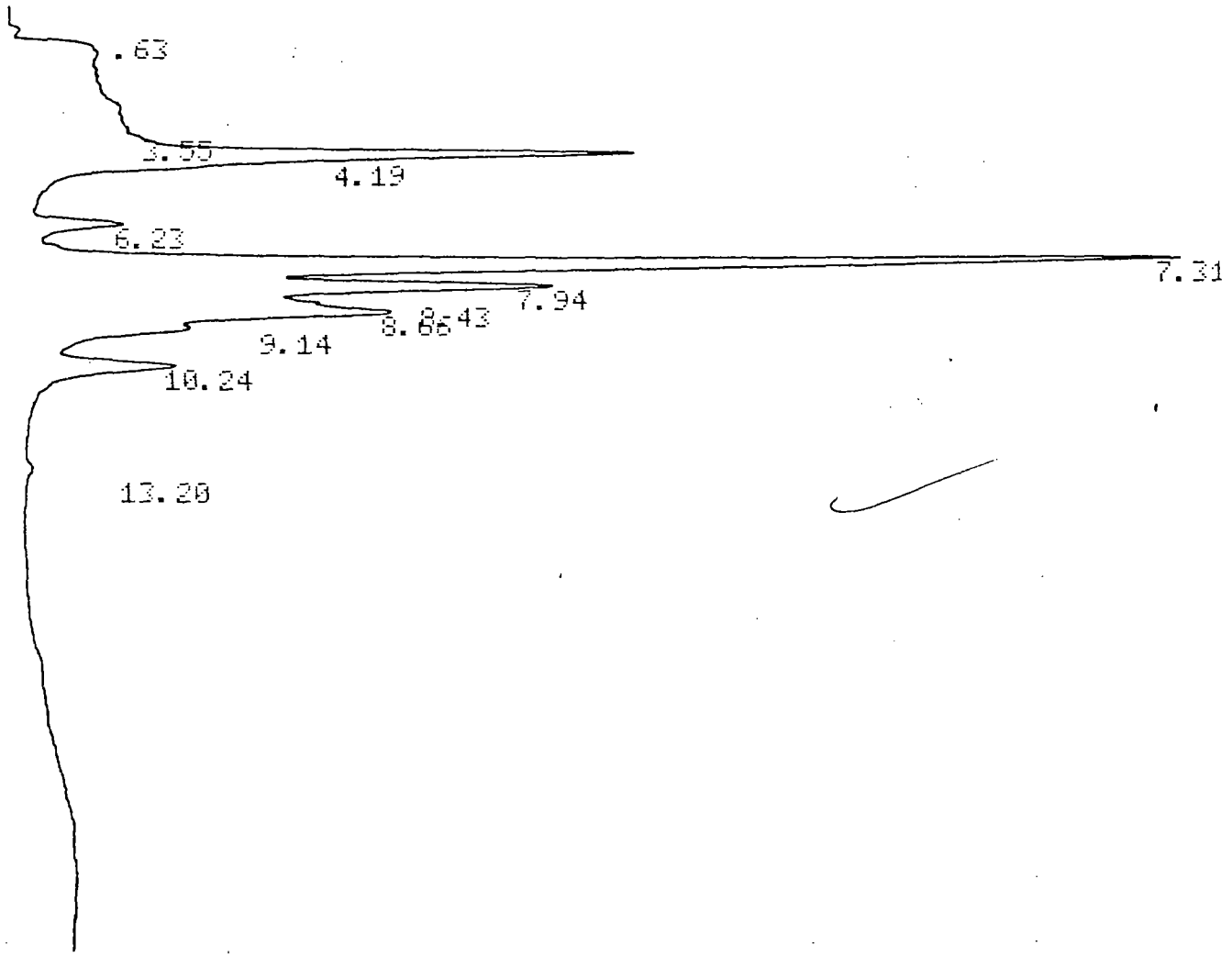
CHANNEL A INJECT 09/10/87 10:20:37



			AREA BC	RF
1	0.	9.39	280741 02	
2	0.	10.67	83268 03	
TOTALS	0.		364009	

7082929 ↓ .5 M

CHANNEL A INJECT 09/09/87 17:10:38



HALL 09/09/87 17:10:38 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 575 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA BC	RF
1	0.	0.63	18951 03	
2	0.	3.55	362018 02	
3	0.	4.19	2914458 03	
4	0.	6.23	315568 02	
5	0.	7.31	4985205 02	
6	0.	7.94	2451712 02	
7	0.	8.43	645913 02	
8	0.	8.66	1829304 02	

7091068

~~7090686~~ 20 µL

HALL 09/09/87 17:10:38 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 575 INDEX 1

ANALYST: KWK

7082429

NAME	PPB	RT	AREA	BC	RF
1	0.	0.63	18951	03	
2	0.	3.55	362018	02	
3	0.	4.19	2914458	03	
4	0.	6.23	315568	02	
5	0.	7.31	4985305	02	
6	0.	7.94	2451712	02	
7	0.	8.43	645913	02	
8	0.	8.66	1829304	02	
9	0.	9.14	776412	02	
10	0.	10.24	727375	03	
11	0.	13.2	25018	01	
TOTALS	0.		15052034		

7094068

~~7090686~~ 50 µL

INPUT OVERRANGE AT RT= 4.71

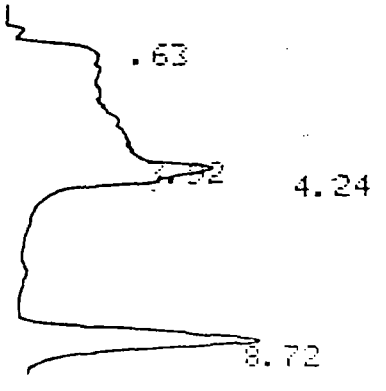
PID 09/09/87 17:10:38 CH= "B" PS= 1.

FILE 1. METHOD 5. RUN 549 INDEX 1

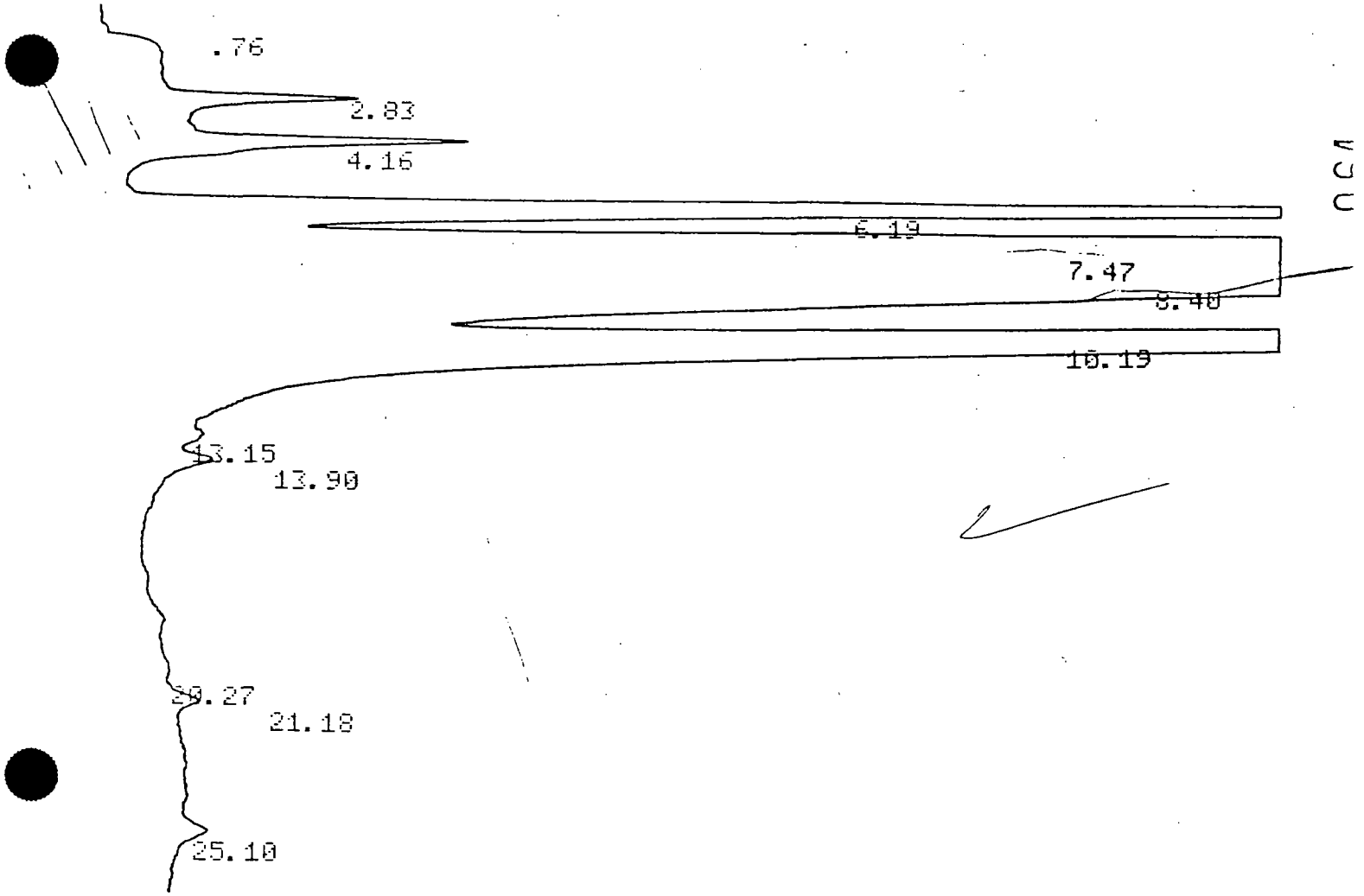
ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	7.6	224626	02	
2	0.	7.82	58114	03	
3	0.	9.39	264583	02	
4	0.	10.62	86326	03	
5	0.	25.18	155753	01	
TOTALS	0.		789402		

CHANNEL A INJECT 09/09/87 17:52:23



CHANNEL A INJECT 09/09/87 19:52:22 0.5ml 7082430



HALL 09/09/87 19:52:22 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 578 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	0.76	5958	03	
2	0.	2.83	597584	01	
3	0.	4.16	1495180	01	
4	0.	6.19	11400460	02	
5	0.	7.47	83222384	02	
6	0.	8.4	55986603	08	
7	0.	10.19	38463549	05	
8	0.	13.15	56191	06	
9	0.	13.9	191263	07	
10	0.	20.27	144479	02	
11	0.	21.18	165201	03	
12	0.	25.1	179420	01	
TOTALS	0.		191908272		

HALL 09/10/87 10:20:37 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 598 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	3.53	402911	02	
2	0.	3.58	207835	02	
3	0.	4.17	1144391	03	
4	0.	6.22	488759	02	
5	0.	7.3	13964490	08	
6	0.	8.72	313647	05	
7	0.	10.24	2717817	05	
TOTALS	0.		19239850		

7082430

50µl

INPUT OVERRANGE AT RT= 4.69

PID 09/10/87 10:20:38 CH= "B" PS= 1.

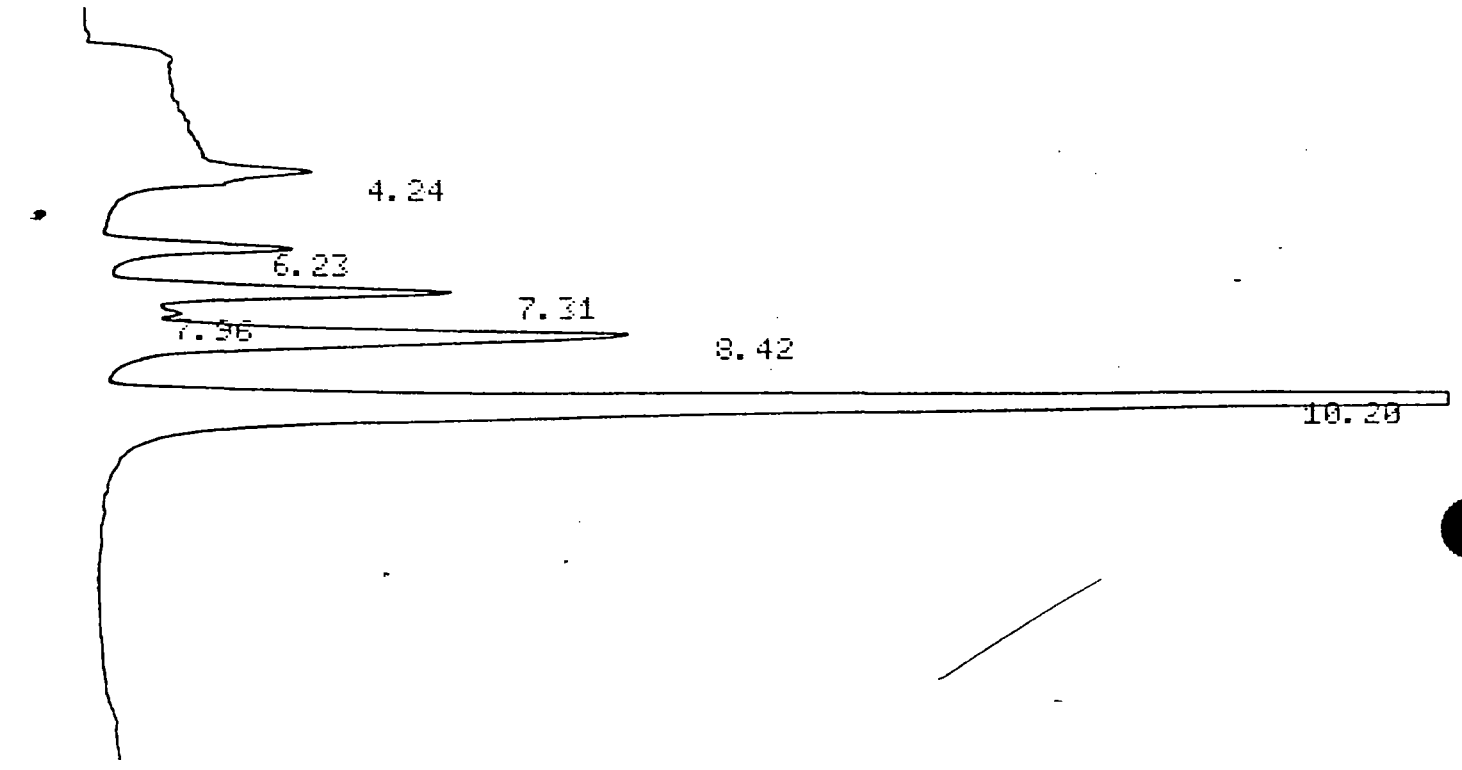
FILE 1. METHOD 5. RUN 572 INDEX 1

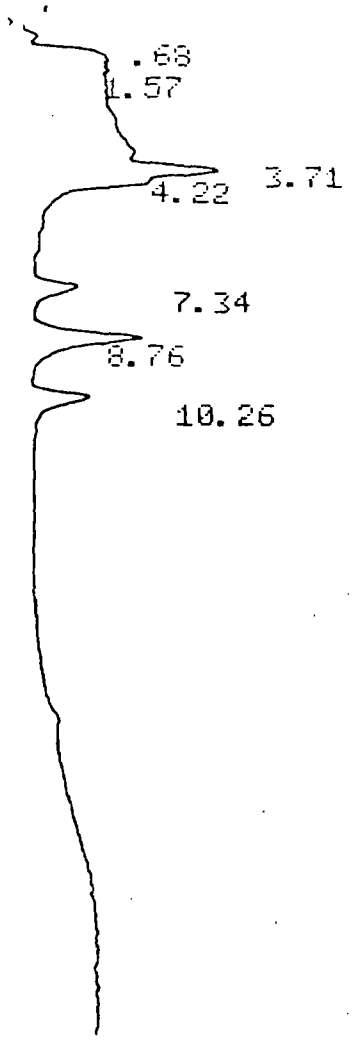
ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	9.39	148929	01	
TOTALS	0.		148929		

7082432 Neat

CHANNEL A INJECT 09/10/87 11:02:14





708 2431

HALL 09/16/87 11:04:10 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 566 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	0.68	19143	02	
2	0.	1.57	287033	03	
3	0.	3.71	426869	02	
4	0.	4.22	845010	03	
5	0.	7.34	151491	01	
6	0.	8.76	493445	01	
7	0.	10.26	220482	01	
TOTALS	0.		2443473		

INPUT OVERRANGE AT RT= 4.7

PID 09/16/87 11:04:10 CH= "B" PS= 1.

FILE 1. METHOD 5. RUN 541 INDEX 1

ANALYST: KWK

FILE 1. METHOD 5. RUN 366 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	0.68	19143	02	
2	0.	1.57	287033	03	
3	0.	3.71	426869	02	
4	0.	4.22	845010	03	
5	0.	7.34	151491	01	
6	0.	8.76	493445	01	
7	0.	10.26	220482	01	
TOTALS	0.		2443473		

7082431

INPUT OVERRANGE AT RT= 4.7

PID 09/16/87 11:04:10 CH= "B" PS= 1.

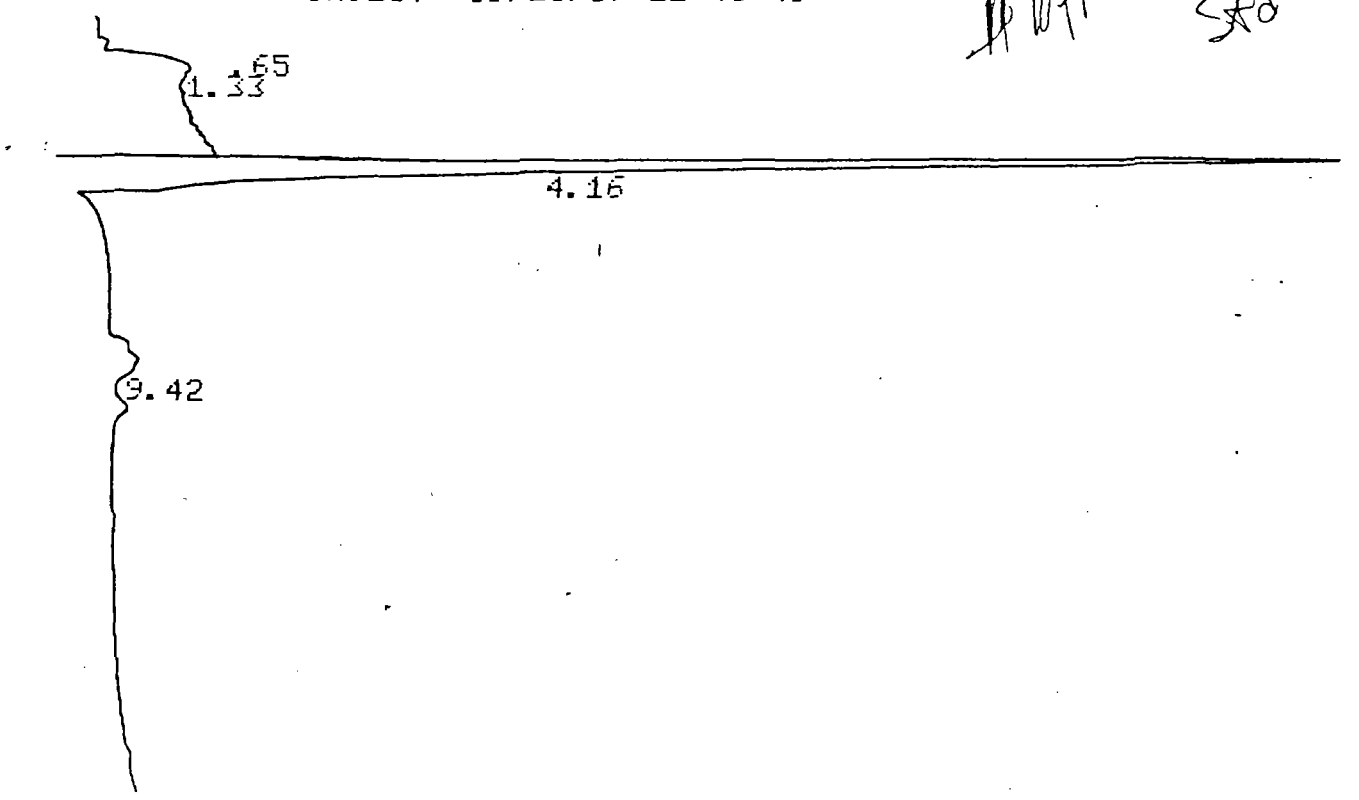
FILE 1. METHOD 5. RUN 541 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	0.53	19548	01	
2	0.	9.44	168249	02	
3	0.	10.72	85228	03	
TOTALS	0.		273025		

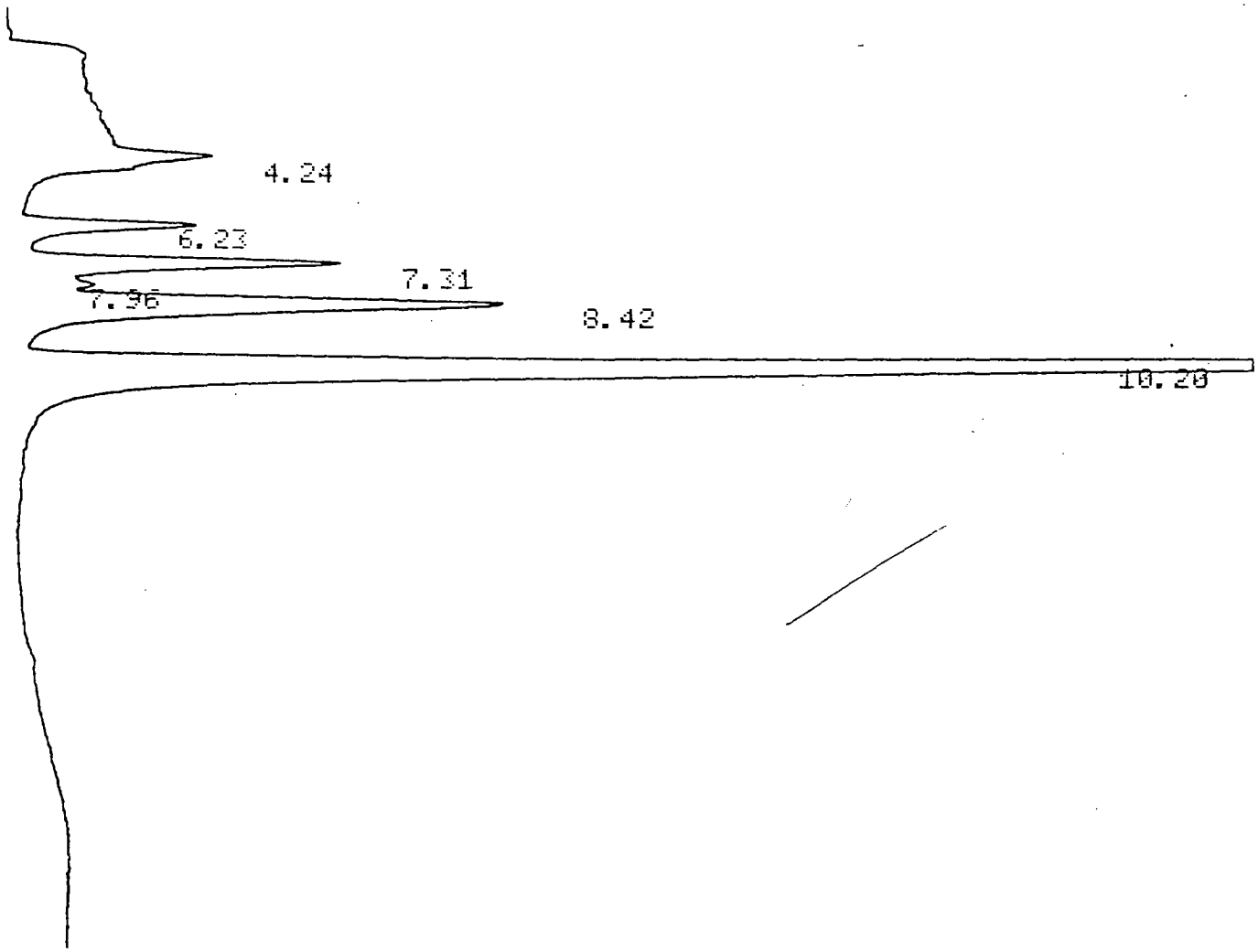
CHANNEL A INJECT 09/16/87 11:45:49

10 PPB MEK Std



TOTALS 0. 148929 782432 Neat

CHANNEL A INJECT 09/10/87 11:02:14



HALL 09/10/87 11:02:14 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 599 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	4.24	1547470	01	
2	0.	6.23	649175	01	
3	0.	7.31	1287050	02	
4	0.	7.96	213837	02	
5	0.	8.42	2847397	03	
6	0.	10.2	11208150	01	
TOTALS	0.		17753079		

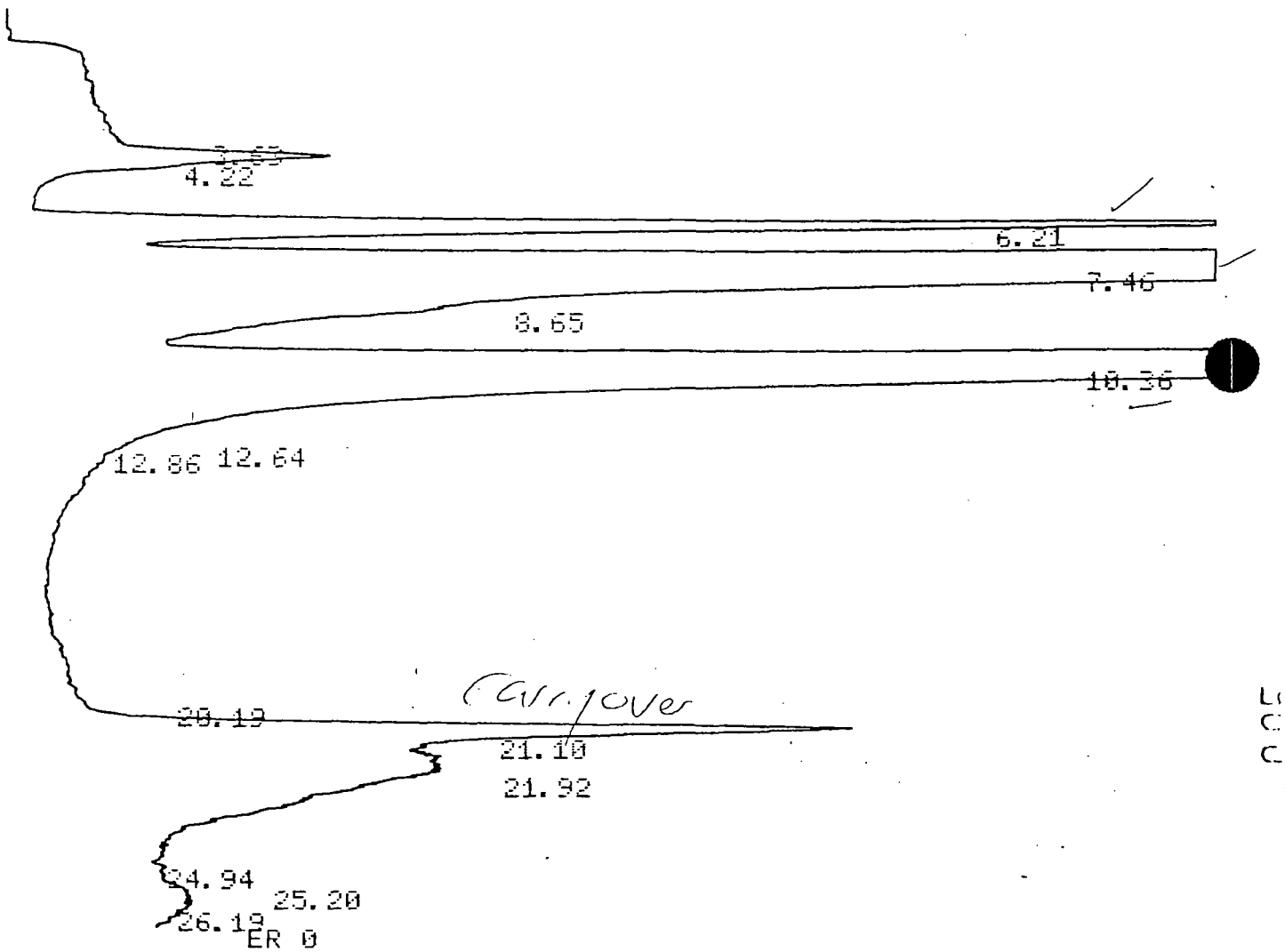
INPUT OVERRANGE AT RT= 4.72

PID 09/10/87 11:02:14 CH= "B" PS= 1

	0.	31.1	234737 01
TOTALS	0.		2987344

7082433
Next ↓

CHANNEL A INJECT 09/10/87 13:47:59

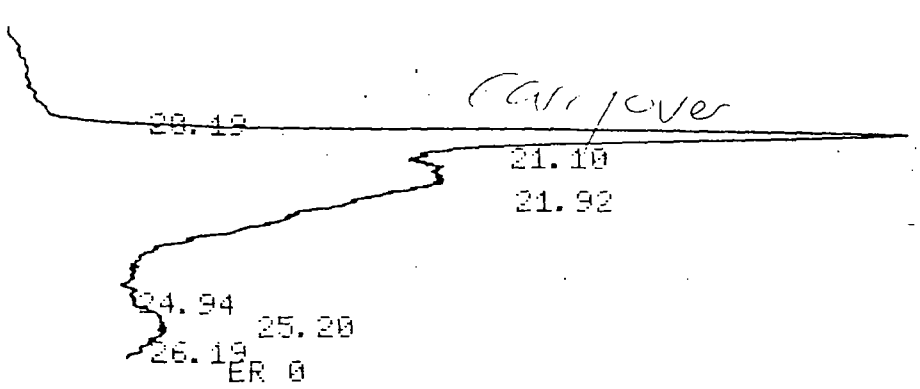


HALL 09/10/87 13:47:59 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 603 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	3.63	240674	02	
2	0.	4.22	1680743	03	
3	0.	6.21	[illegible]	[illegible]	



HALL 09/10/87 13:47:59 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 603 INDEX 1

ANALYST: KWK

7082433

NAME	PPB	RT	AREA	BC	RF
1	0.	3.63	240674	02	
2	0.	4.22	1680743	03	
3	0.	6.21	6131756	02	
4	0.	7.46	82428716	08	
5	0.	8.65	4279	05	
6	0.	10.36	70364243	06	
7	0.	12.64	25808	06	
8	0.	12.86	2180	07	
9	0.	20.19	11763	02	
10	0.	21.1	5366989	02	
11	0.	21.92	6449933	02	
12	0.	24.94	117612	02	
13	0.	25.2	89518	02	
14	0.	26.19	347862	03	
TOTALS	0.		173262076		

INPUT OVERRANGE AT RT= 4.73

PID 09/10/87 13:47:59 CH= "B" PS= 1.

FILE 1. METHOD 5. RUN 577 INDEX 1

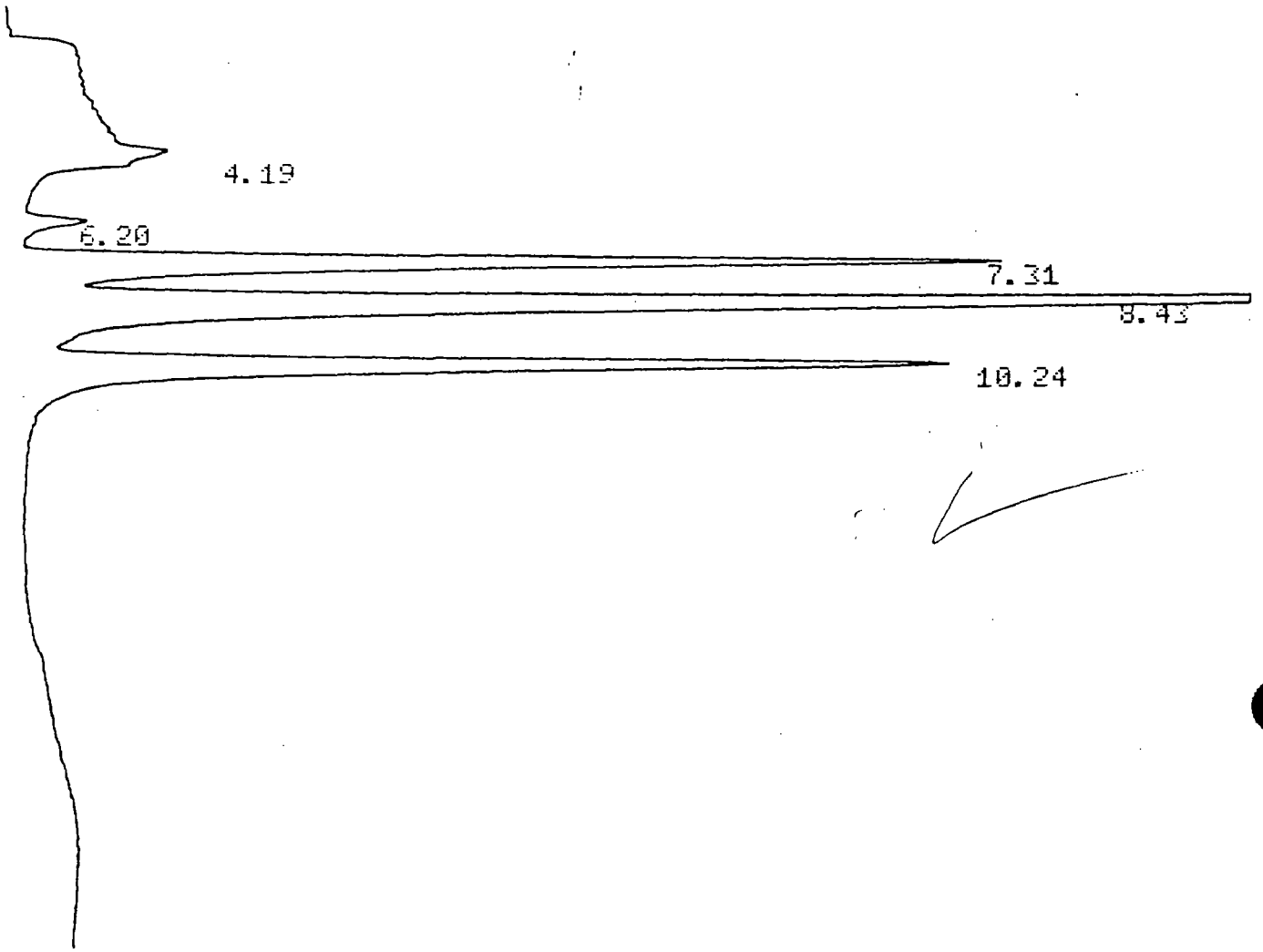
ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	0.54	7855	01	
2	0.	6.09	73167	01	
3	0.	9.42	139721	01	
4	0.	13.52	73064	01	
5	0.	20.48	325	02	
6	0.	20.96	271619	02	
7	0.	22.22	328822	03	
TOTALS	0.		894573		

1	0.	0.46	3936	01
2	0.	9.41	167782	01
TOTALS	0.		171718	

250μ 7082433

CHANNEL A INJECT 09/09/87 22:53:07



HALL 09/09/87 22:53:07 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 582 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	4.19	1333152	01	
2	0.	6.2	220030	01	
3	0.	7.31	4564763	02	
4	0.	8.43	9363761	08	
5	0.	10.24	4598522	05	
TOTALS	0.		20080228		

INPUT OVERRANGE AT RT= 4.74

PID

FILE 1. METHOD 5. RUN 552 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	4.19	1333152	01	
2	0.	6.2	220030	01	
3	0.	7.31	4564763	02	
4	0.	8.43	9363761	08	
5	0.	10.24	4598522	05	
TOTALS	0.		20080228		

INPUT OVERRANGE AT RT= 4.74

PID 09/09/87 22:53:07 CH= "B" PS= 1.

FILE 1. METHOD 5. RUN 556 INDEX 1

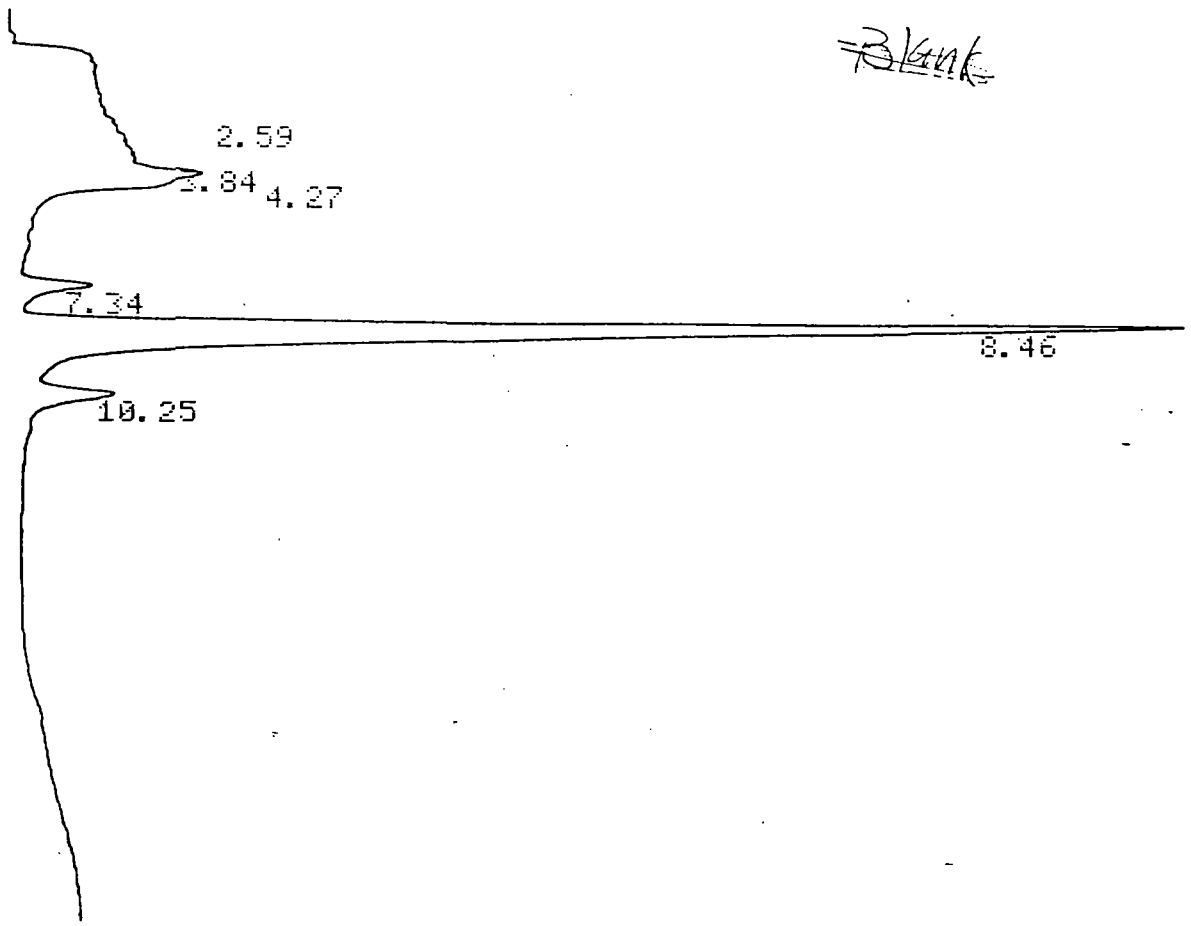
ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	9.39	328538	01	
TOTALS	0.		328538		

7082434

CHANNEL A INJECT 09/09/87 23:35:07

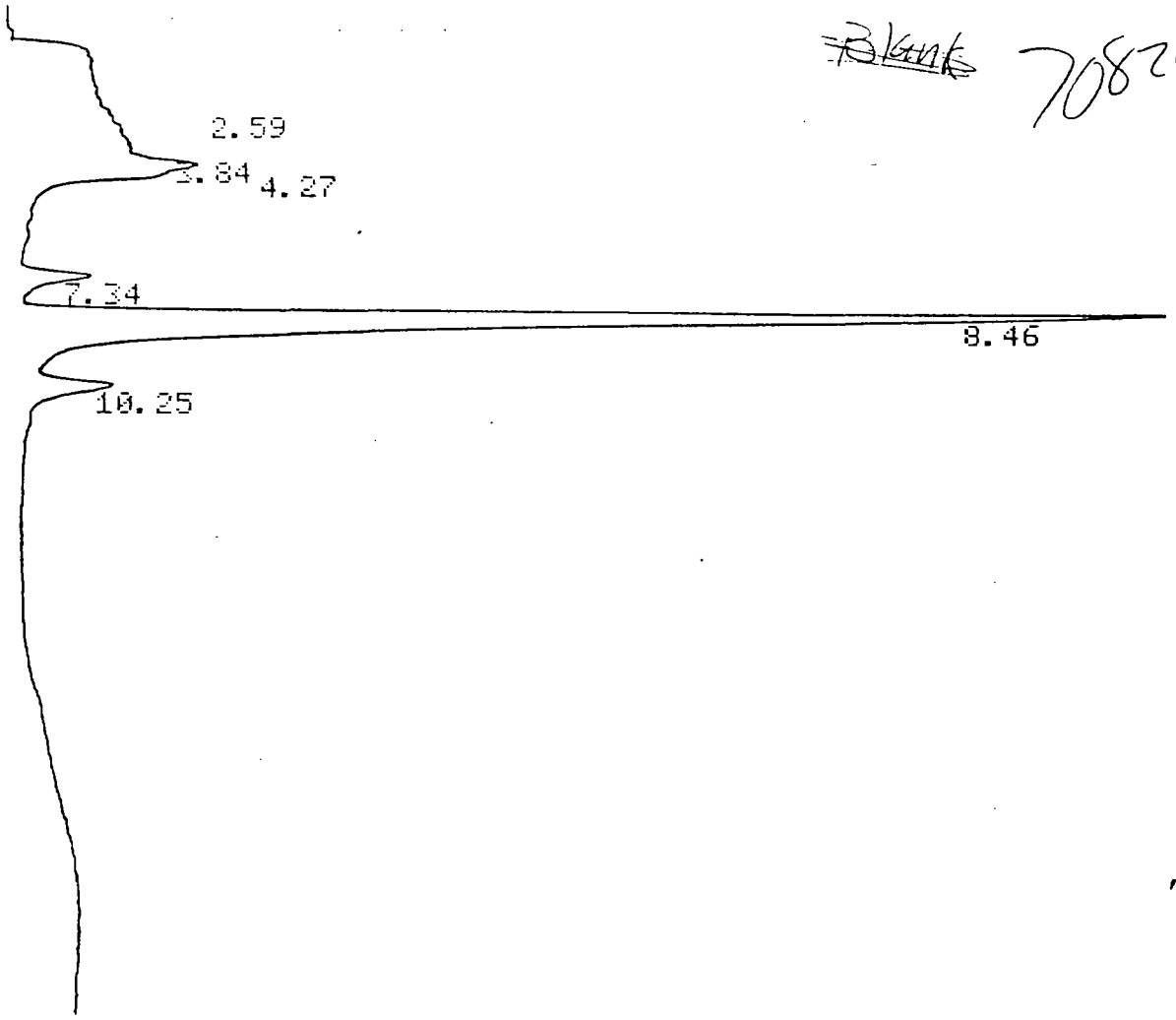
~~Blank~~



CHANNEL A INJECT 09/09/87 23:35:07

1082434

~~Blank~~ 7082434



HALL 09/09/87 23:35:07 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 583 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	2.59	1506289	02	
2	0.	3.84	1308976	02	
3	0.	4.27	1441143	03	
4	0.	7.34	250382	02	
5	0.	8.46	5799461	08	
6	0.	10.25	331441	05	
TOTALS	0.		10637692		

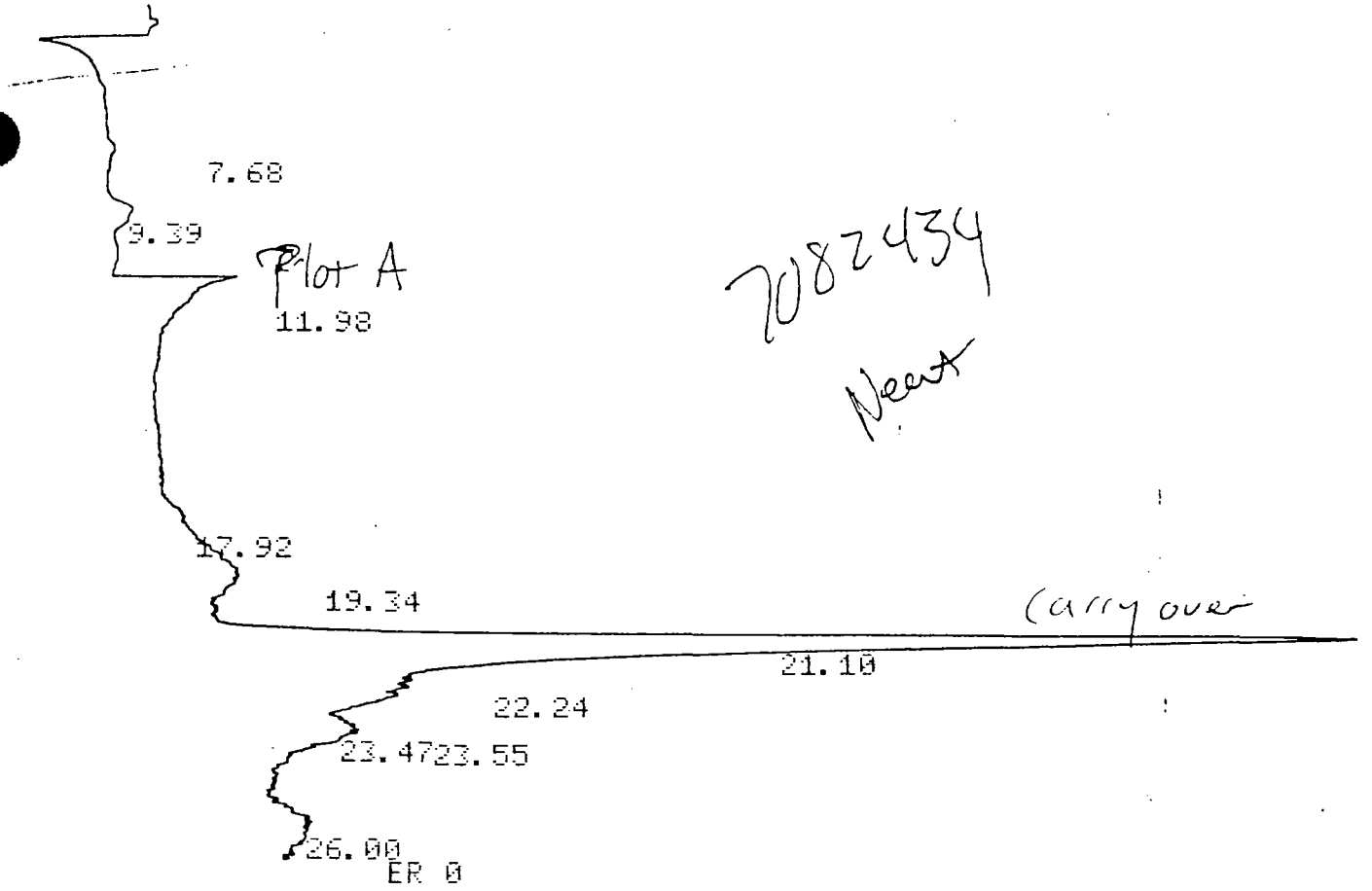
INPUT OVERRANGE AT RT= 4.72

PID 09/09/87 23:35:07 CH= "B" PS= 1.

FILE 1. METHOD 5. RUN 557 INDEX 1

ANALYST: KWK

CHANNEL B INJECT 09/10/87 13:05:47



HALL 09/10/87 13:05:47 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 602 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	1.22	182301	02	
2	0.	1.61	229377	03	
3	0.	2.82	61139	01	
4	0.	4.25	920066	02	
5	0.	4.62	156155	03	
6	0.	5.74	78808	02	
7	0.	6.26	565417	02	
8	0.	7.32	8233213	02	
9	0.	8.48	1573931	02	
10	0.	9.31	9652	03	
11	0.	10.26	8546670	08	
12	0.	11.98	924	05	
13	0.	17.92	66301	02	
14	0.	19.34	671376	02	
15	0.	21.1	7549333	02	carry over
16	0.	22.24	1341358	02	
17	0.	23.47	512224	02	
18	0.	23.55	704846	02	
19	0.	26.	269019	03	
TOTALS	0.		31672110		

INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	1.22	182301	02	
2	0.	1.61	229377	03	
3	0.	2.82	61139	01	
4	0.	4.25	920066	02	
5	0.	4.62	156155	03	
6	0.	5.74	78808	02	
7	0.	6.26	565417	02	
8	0.	7.32	8233213	02	
9	0.	8.48	1573931	02	
10	0.	9.31	9652	03	
11	0.	10.26	8546670	08	
12	0.	11.98	924	05	
13	0.	17.92	66301	02	
14	0.	19.34	671376	02	
15	0.	21.1	7549333	02	carryover
16	0.	22.24	1341358	02	
17	0.	23.47	512224	02	
18	0.	23.55	704846	02	
19	0.	26.	269019	03	
TOTALS	0.		31672110		

7082434

INPUT OVERRANGE AT RT= 4.72

PID 09/10/87 13:05:47 CH= "B" PS= 1.

FILE 1. METHOD 5. RUN 576 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	7.68	27059	01	
2	0.	9.39	154599	01	
3	0.	13.52	169988	01	
4	0.	20.38	19093	02	
5	0.	20.96	584726	02	
6	0.	22.14	1387677	02	
7	0.	22.99	409465	03	
8	0.	31.1	234737	01	
TOTALS	0.		2987344		

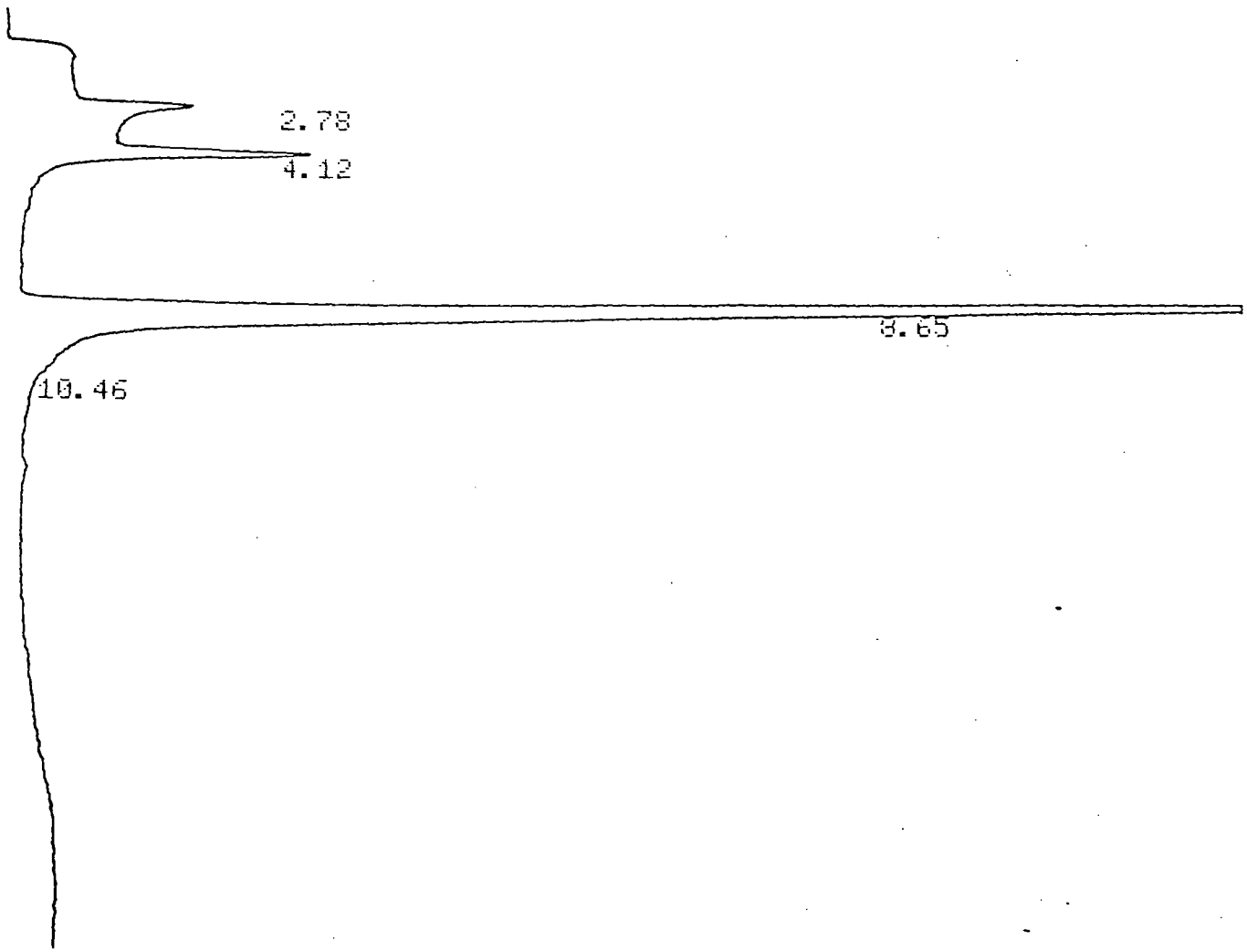
7082433

Next ↓

7082437
5ml

11 9

CHANNEL A INJECT 09/09/87 09:49:25



HALL 09/09/87 09:49:25 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 774 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	2.78	363741	01	
2	0.	4.12	683062	01	
	0.	8.65	7694619	08	

HALL 09/09/87 09:49:25 CH= "A" PS=

FILE 1. METHOD 5. RUN 774 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	2.78	363741	01	
2	0.	4.12	683062	01	
3	0.	8.65	7694619	08	
4	0.	10.46	3024	05	
TOTALS	0.		8744446		

7082437

INPUT OVERRANGE AT RT= 4.28

PID 09/09/87 09:49:25 CH= "B" PS= 1.

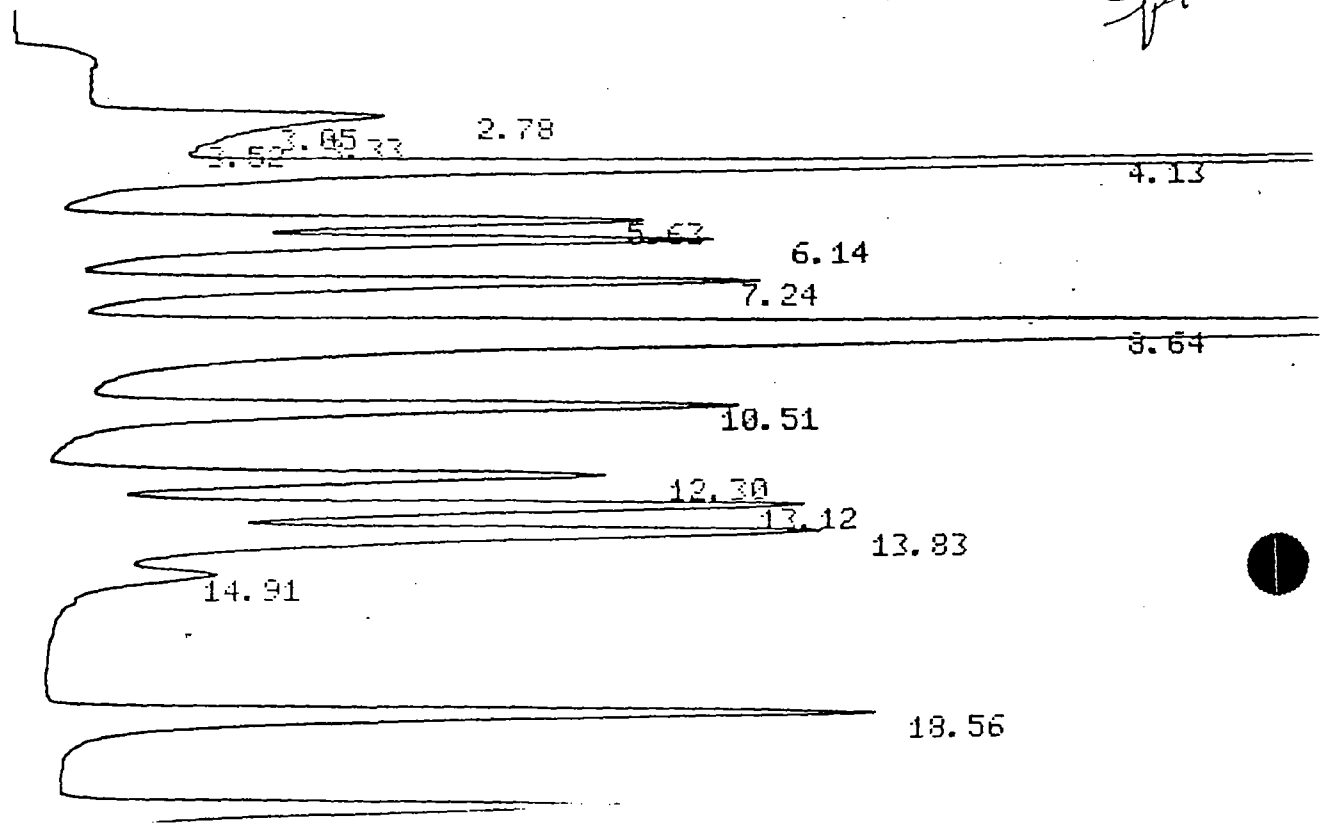
FILE 1. METHOD 5. RUN 744 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	4.56	318936	01	
2	0.	9.3	163624	01	
TOTALS	0.		482560		

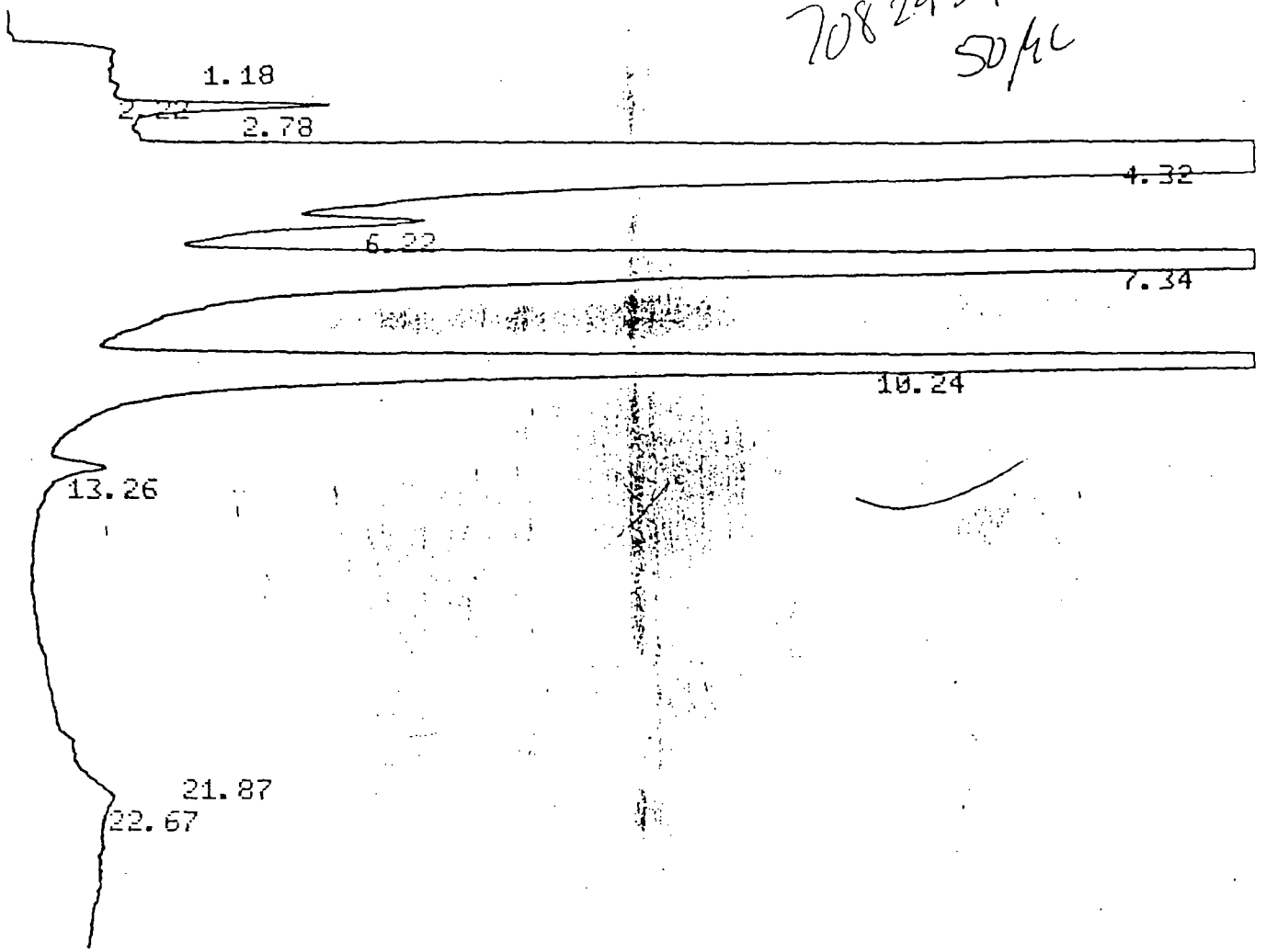
7082437 5ml spike

CHANNEL A INJECT 09/09/87 10:31:01



CHANNEL A INJECT 09/11/87 08:02:14

7082437
50µL



HALL 09/11/87 08:02:14 CH= "A" PS= 1.

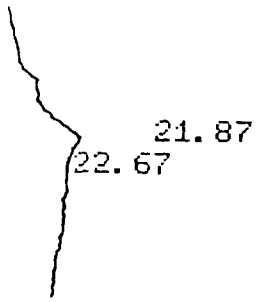
FILE 1. METHOD 5. RUN 622 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	1.18	1286537	02	
2	0.	2.22	510186	02	
3	0.	2.78	1842215	02	
4	0.	4.32	77866857	02	
5	0.	6.22	2893659	02	
6	0.	7.34	29242917	08	
7	0.	10.24	14931854	05	
8	0.	13.26	273631	05	
9	0.	21.87	21348	02	
10	0.	22.67	132992	03	
TOTALS	0.		129002196		

INPUT OVERRANGE AT RT= 4.17

PID



HALL 09/11/87 08:02:14 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 622 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	1.18	1286537	02	
2	0.	2.22	510186	02	
3	0.	2.78	1842215	02	
4	0.	4.32	77866857	02	7082437
5	0.	6.22	2893659	02	
6	0.	7.34	29242917	08	
7	0.	10.24	14931854	05	
8	0.	13.26	273631	05	
9	0.	21.87	21348	02	
10	0.	22.67	132992	03	
TOTALS	0.		129002196		

INPUT OVERRANGE AT RT= 4.17

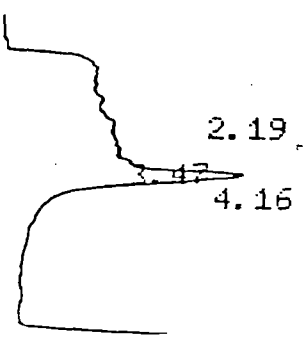
PID 09/11/87 08:02:14 CH= "B" PS= 1.

FILE 1. METHOD 5. RUN 596 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	9.7	202314	01	
TOTALS	0.		202314		

CHANNEL A INJECT 09/11/87 08:51:17

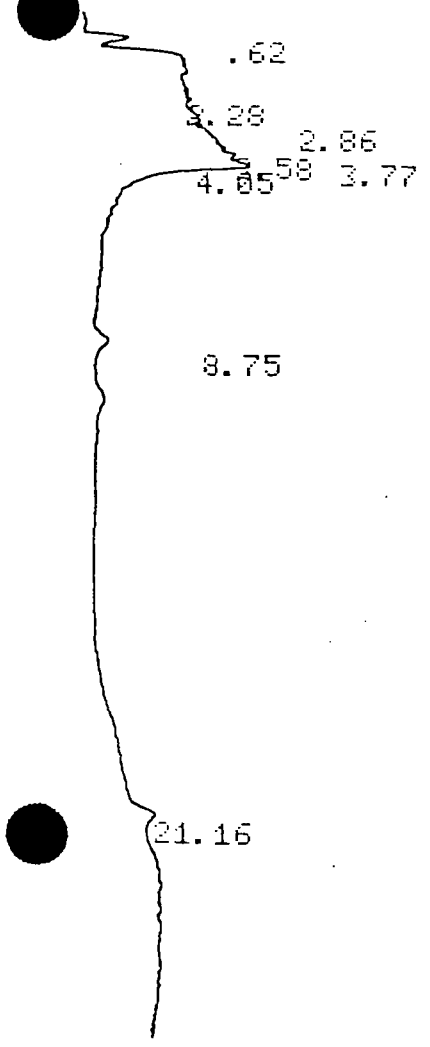


7091182

FMC

OTALS 0. 1421704

HANNEL A INJECT 09/10/87 23:58:10



708 2438

ALL 09/10/87 23:58:10 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 617 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	0.62	74491	03	
2	0.	2.28	4043	01	
3	0.	2.86	92791	02	
4	0.	3.58	352171	02	
5	0.	3.77	191164	02	
6	0.	4.05	343469	03	
7	0.	8.75	56829	01	
8	0.	21.16	397501	01	
TOTALS	0.		1512459		

INPUT OVERRANGE AT RT= 4.17

11 3

HALL 09/10/87 23:58:10 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 617 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	0.62	74491	03	
2	0.	2.28	4043	01	
3	0.	2.86	92791	02	
4	0.	3.58	352171	02	
5	0.	3.77	191164	02	
6	0.	4.05	343469	03	
7	0.	8.75	56829	01	
8	0.	21.16	397501	01	
TOTALS	0.		1512459		

7082438

11 3

INPUT OVERRANGE AT RT= 4.17

PID 09/10/87 23:58:11 CH= "B" PS= 1.

FILE 1. METHOD 5. RUN 591 INDEX 1

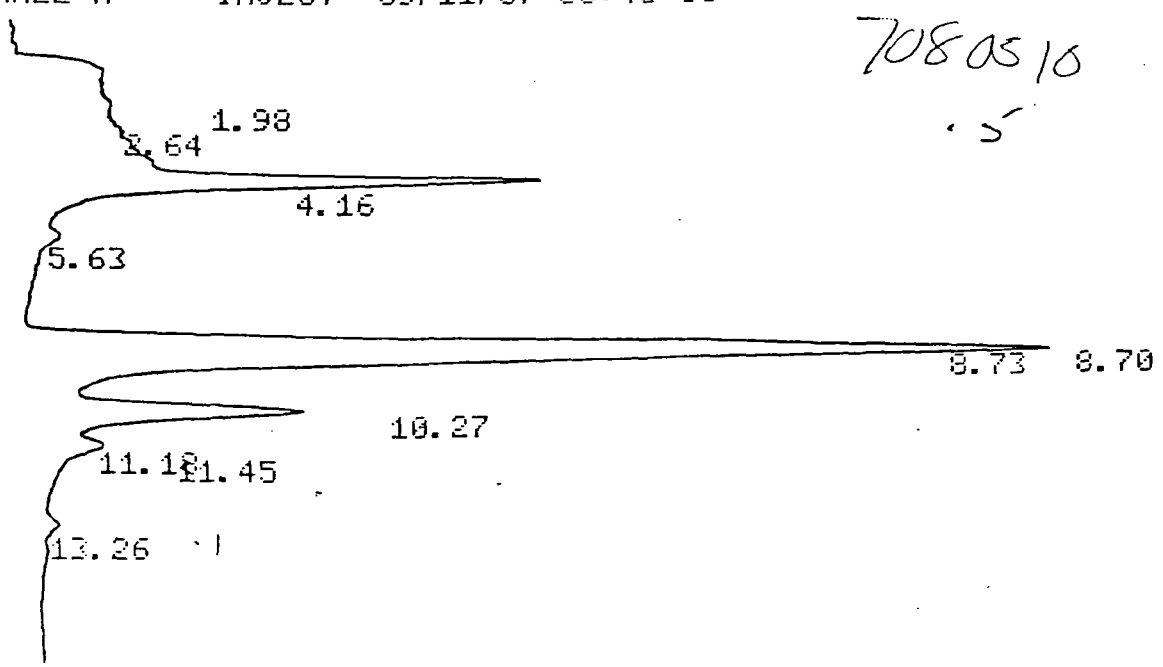
ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	9.68	175780	01	
2	0.	27.02	3811968	01	
TOTALS	0.		3987748		

CHANNEL A INJECT 09/11/87 00:46:56

7080510

.5



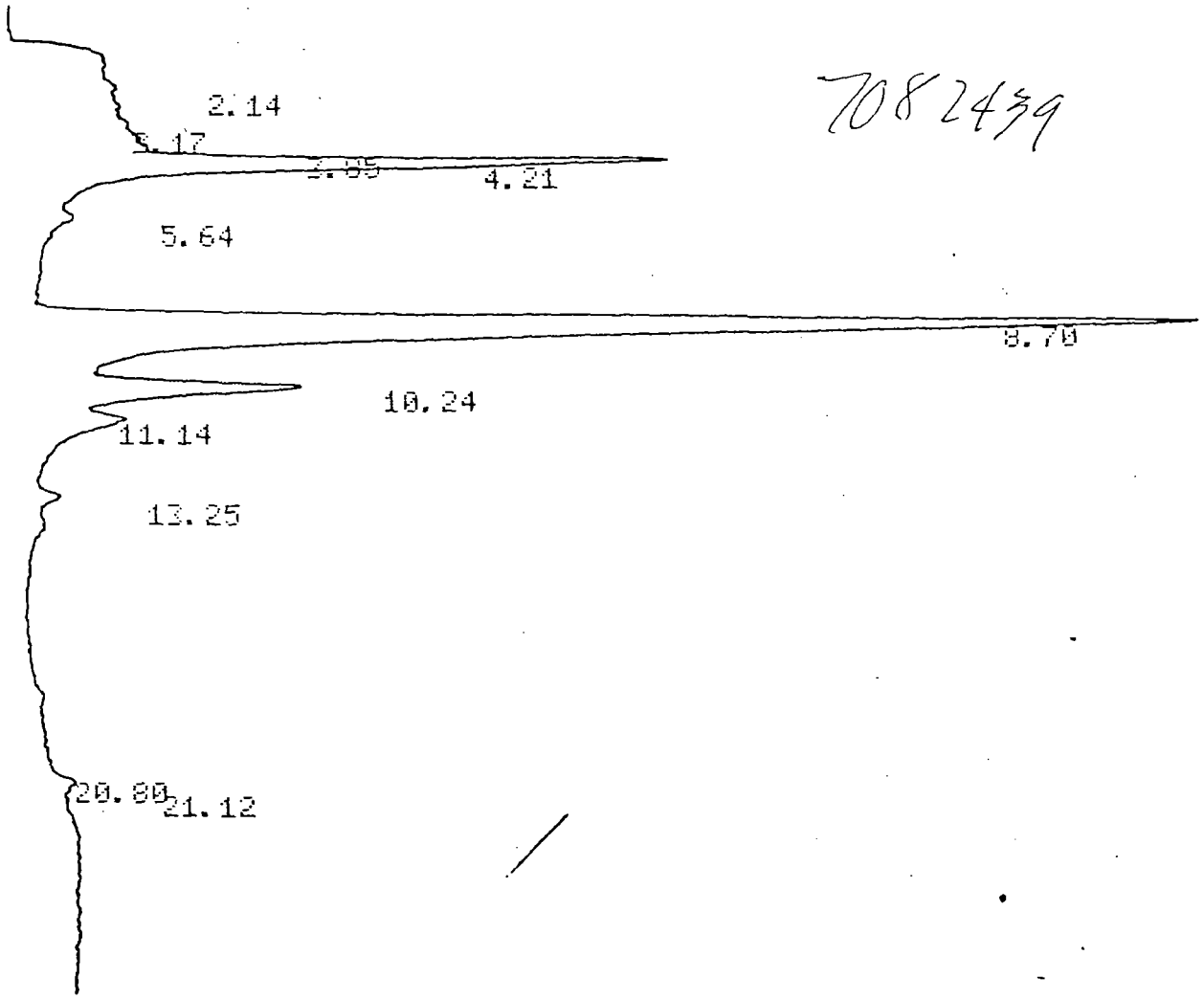
PID 09/10/87 22:39:33 CH= "B" PS= 1.

FILE 1. METHOD 5. RUN 589 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	9.63	128179	02	
2	0.	10.72	66226	03	
TOTALS	0.		194405		

CHANNEL A INJECT 09/10/87 23:15:09



7082439

HALL 09/10/87 23:15:09 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 616 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	2.14	225821	02	
2	0.	3.17	314143	02	
3	0.	3.85	141210	02	

HALL 09/10/87 23:15:09 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 616 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	2.14	225821	02	
2	0.	3.17	314143	02	7082439
3	0.	3.85	141210	02	
4	0.	4.21	2534268	08	
5	0.	5.64	50763	05	
6	0.	8.7	7767848	02	
7	0.	10.24	1447857	02	
8	0.	11.14	569432	03	
9	0.	13.25	63310	01	
10	0.	20.8	10178	02	
11	0.	21.12	56733	03	
TOTALS	0.		13181563		

INPUT OVERRANGE AT RT= 4.43

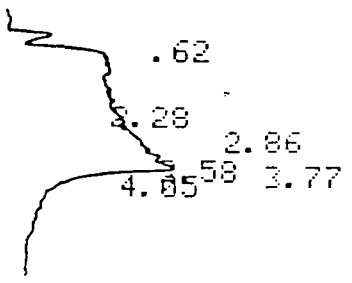
PID 09/10/87 23:15:09 CH= "B" PS= 1.

FILE 1. METHOD 5. RUN 590 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	9.63	139154	02	
2	0.	10.72	72967	03	
3	0.	20.67	43729	02	
4	0.	21.6	129831	02	
5	0.	23.66	1036023	03	
TOTALS	0.		1421704		

CHANNEL A INJECT 09/10/87 23:58:10



7082438

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 08/28/87
Date Received: 08/31/87
Date Reported: 09/30/87
Project No. JCO-104H

Q.C. DATA REPORT

Analyst: J. Schwarz
Date of Analysis: 9/11/87
Method of Analysis: EPA 604
Detection Limit: 1.0
Units: ppb

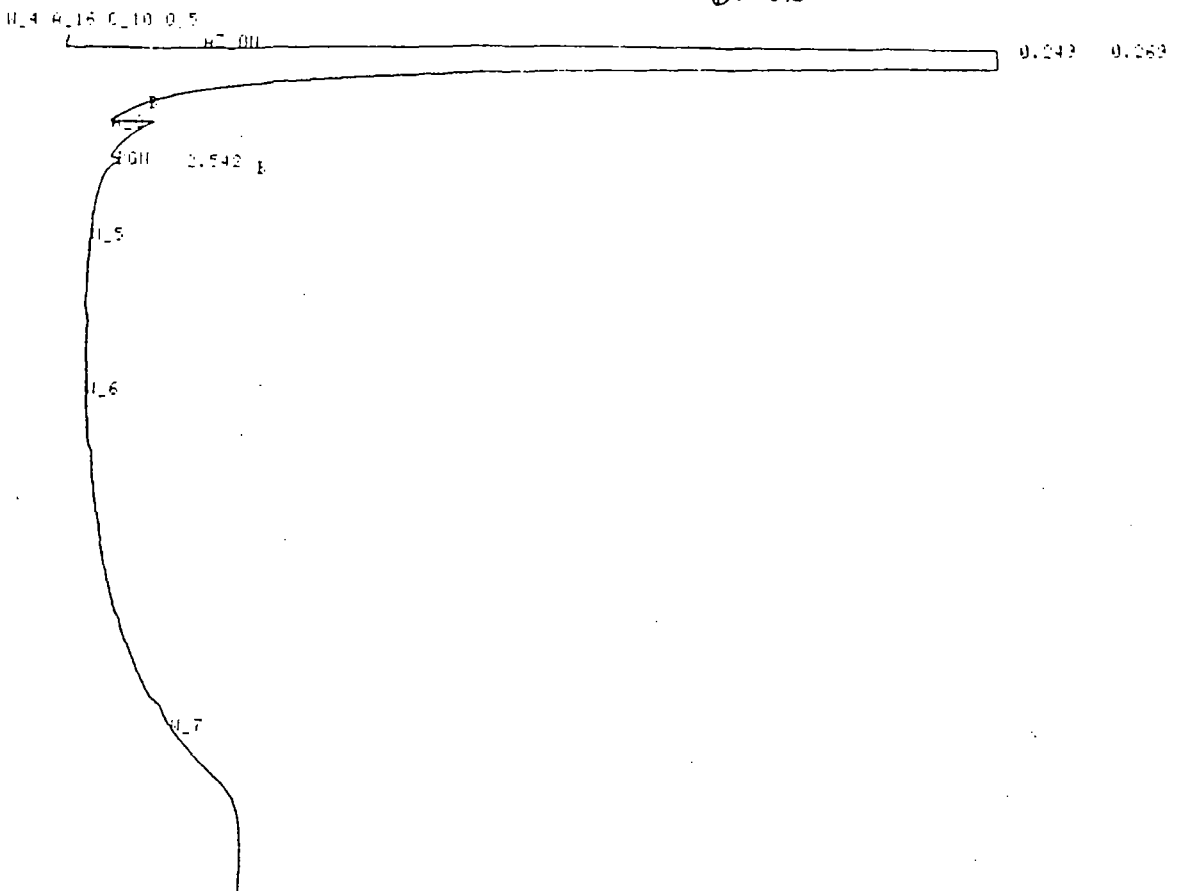
Sample Number	Analyte	Original Result	Duplicate Result	% Deviation
7092431	2 Chlorophenol	< 1	< 1	0.0

Sample Number	Analyte	Sample Contribution	Spike Added	Spike Result	% Recovery
7092431	2 Chloro-phenol	< 1	68	74	109

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

700→3 mt. 604
5λ
Blank



FILE 91 RUN 78 STARTED 12:55.0 80 01/05
% METHOD 1 HIGH BOILERS LAST EDITED 14:36.1 80/01/02

RT	AREA	HEIGHT	EC	AREA PERCENT	HEIGHT PERCENT
2.542	5569	0.7507		100.0000	100.0000

1 FEAK > AREA REJECT 5569 TOTAL AREA
1 FEAK > HEIGHT REJECT 0.7507 TOTAL HEIGHT

KEYBOARD DIRECTED EVENTS

TIME	EVENT	VALUE
1.741	Attn	8
17.447	Stop Data	

FILE 92 RUN 79 STARTED 13:13.6 80/01/05
% METHOD 1 HIGH BOILERS LAST EDITED 14:36.1 80/01/02

W_4 A_16 C_10 O_5
AZ_ON

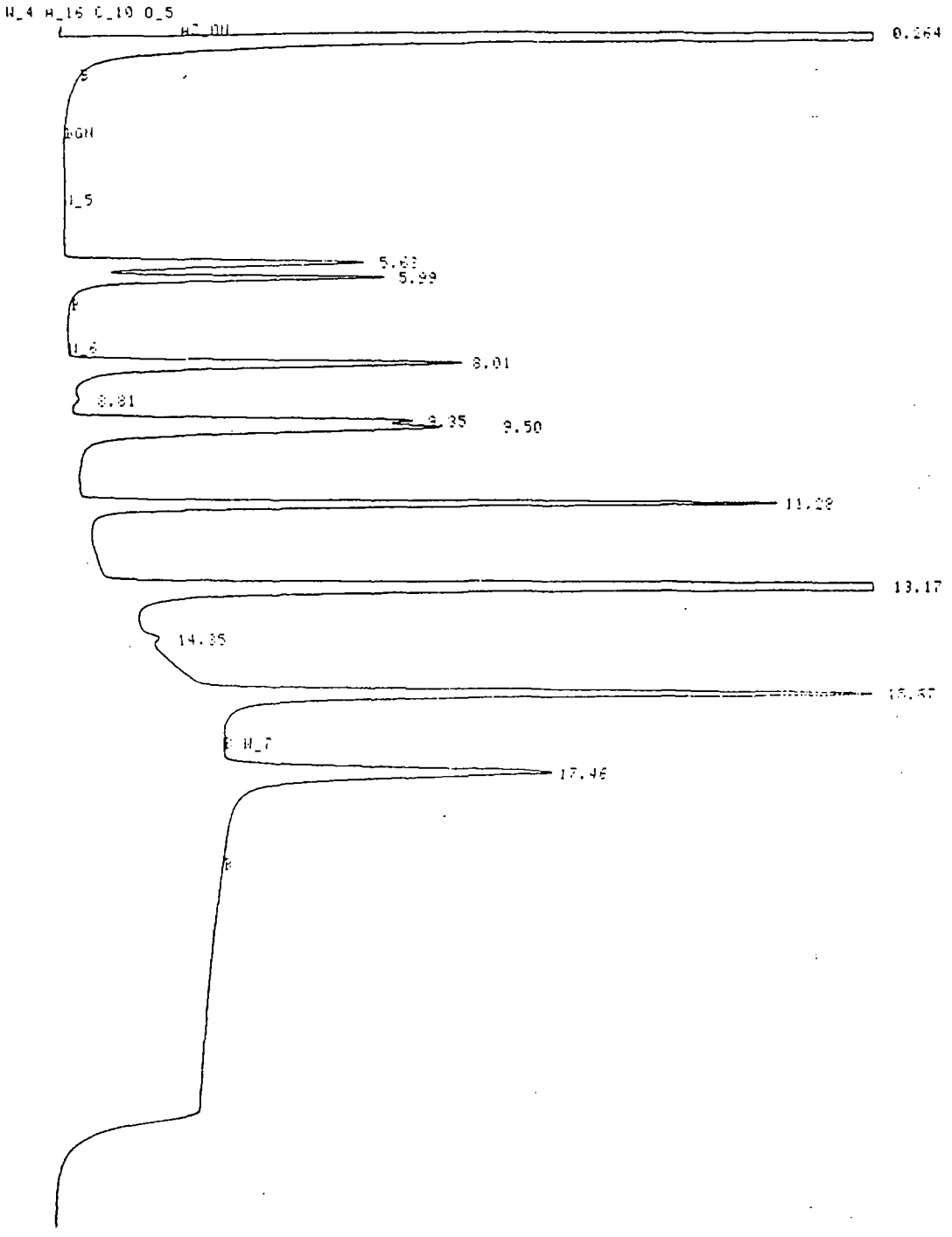
FILE 92 RUN 79 STARTED 13:13.6 80/01/05
% METHOD 1 HIGH BOILERS LAST EDITED 14:36.1 80/01/02

0 FEAKS > AREA REJECT 0 TOTAL AREA
0 FEAKS > HEIGHT REJECT 0.0000 TOTAL HEIGHT

KEYBOARD DIRECTED EVENTS

TIME	EVENT	VALUE
0.332	Stop Data	

1 λ AE mix STD Phenols

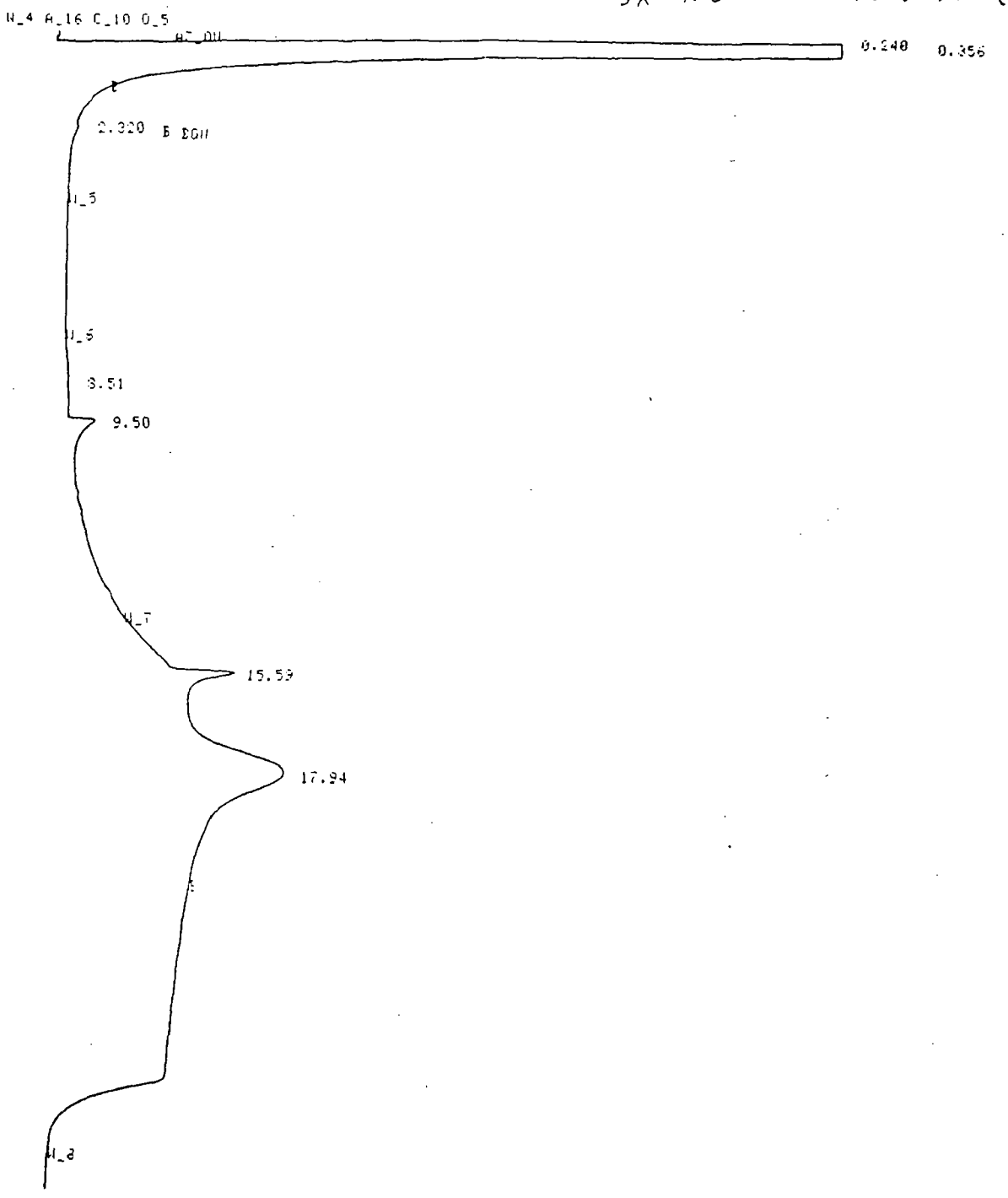


FILE 75 RUN 63 STARTED 21:40.2 80/01/04
% METHOD 1 HIGH BOILERS LAST EDITED 14:36.1 80/01/02

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
5.63	486568	50.0344	U	5.1310	5.9915
5.99	413904	52.6036		4.4023	6.2938
8.01	930068	73.0601	U	9.7677	8.7488
8.81	8526	9.8327	U	0.0895	0.0997
9.35		14.5881	U		1.7469
9.50		13.7963	U		1.6509
11.28	1247897	128.7807	U	13.1003	15.4212
13.17	3313862	309.5433	U	34.8026	37.0676
14.35	5443	1.7658	U	0.0572	0.2115
15.67	1841575	123.3249		19.3404	15.4285
17.46	1266550	61.2597		13.3015	7.3357

9 PEAKS > AREA REJECT 9521332 TOTAL AREA
11 PEAKS > HEIGHT REJECT 835.0902 TOTAL HEIGHT

3λ 70824.27 700ml → 2ml Extract.

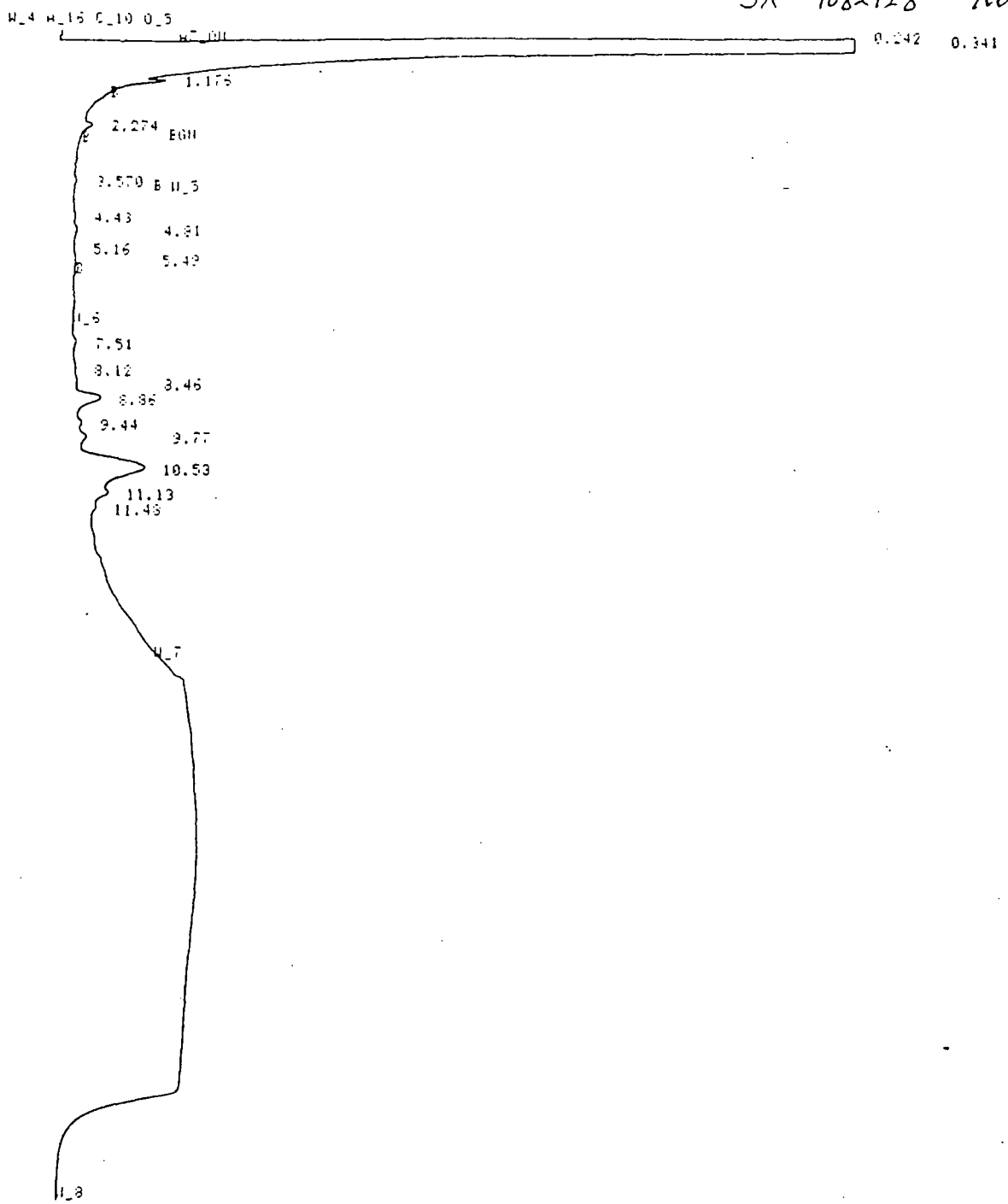


FILE 76 RUN 54 STARTED 22:26.8 80/01/04
% METHOD 1 HIGH BOILERS LAST EDITED 14:36.1 80/01/02

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
8.51	1738	0.1618	V	0.0943	0.4430
9.50	103460	4.9203	V	5.6123	13.4731
15.59	233764	12.8289	V	12.6819	35.1383
17.94	1504332	18.5983		81.6111	50.9406

4 PEAKS > AREA REJECT 1843294 TOTAL AREA
4 PEAKS > HEIGHT REJECT 36.5038 TOTAL HEIGHT

3λ 7082428 100ml → 2ml

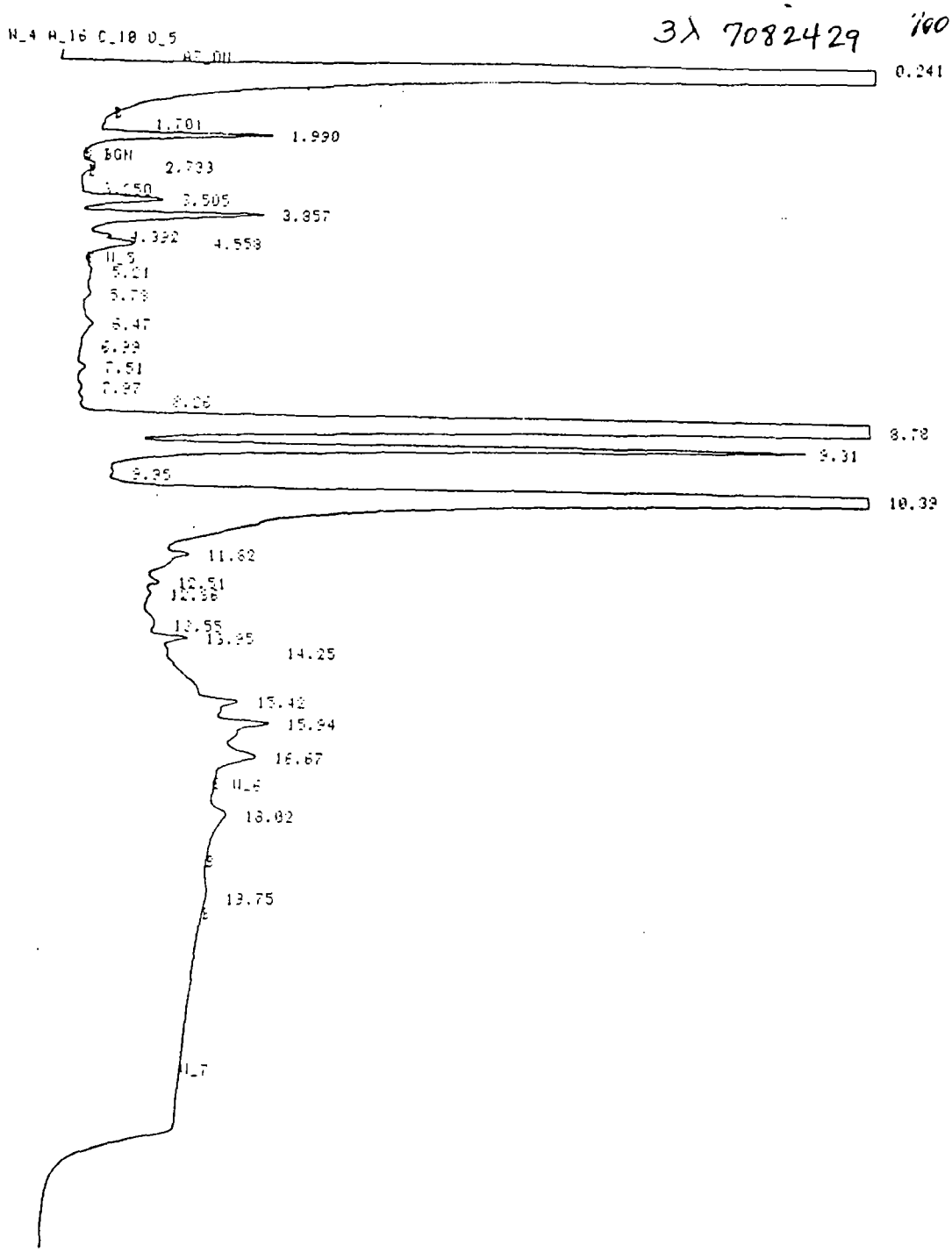


FILE 77 RUN 65 STARTED 23:02.3 80/01/04
% METHOD 1 HIGH BOILERS LAST EDITED 14:36.1 80/01/02

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
3.570	3369	0.4082		0.8373	1.9475
4.43	3036	0.2413	V	0.7545	1.1540
4.81	5897	0.5230	V	1.4655	2.4953
5.16	349	0.0437	V	0.0867	0.2037
5.49	4063	0.3254		1.0097	1.5524
7.51	8551	0.6813	V	2.1251	3.2507
8.12	1998	0.2241	V	0.4966	1.0695
8.46	2343	0.2685	V	0.5823	1.2309
8.86	74346	4.6837	V	18.4766	22.3475
9.44	6456	0.7553	V	1.6043	3.6063
9.77	14754	1.2888	V	3.6667	6.1495
10.53	265033	9.8606	V	65.8664	47.0578
11.13	10740	1.2748	V	2.6690	6.0824
11.48	1445	0.3766	V	0.3591	1.7958

14 PEAKS > AREA REJECT 402379 TOTAL AREA
14 PEAKS > HEIGHT REJECT 20.9564 TOTAL HEIGHT

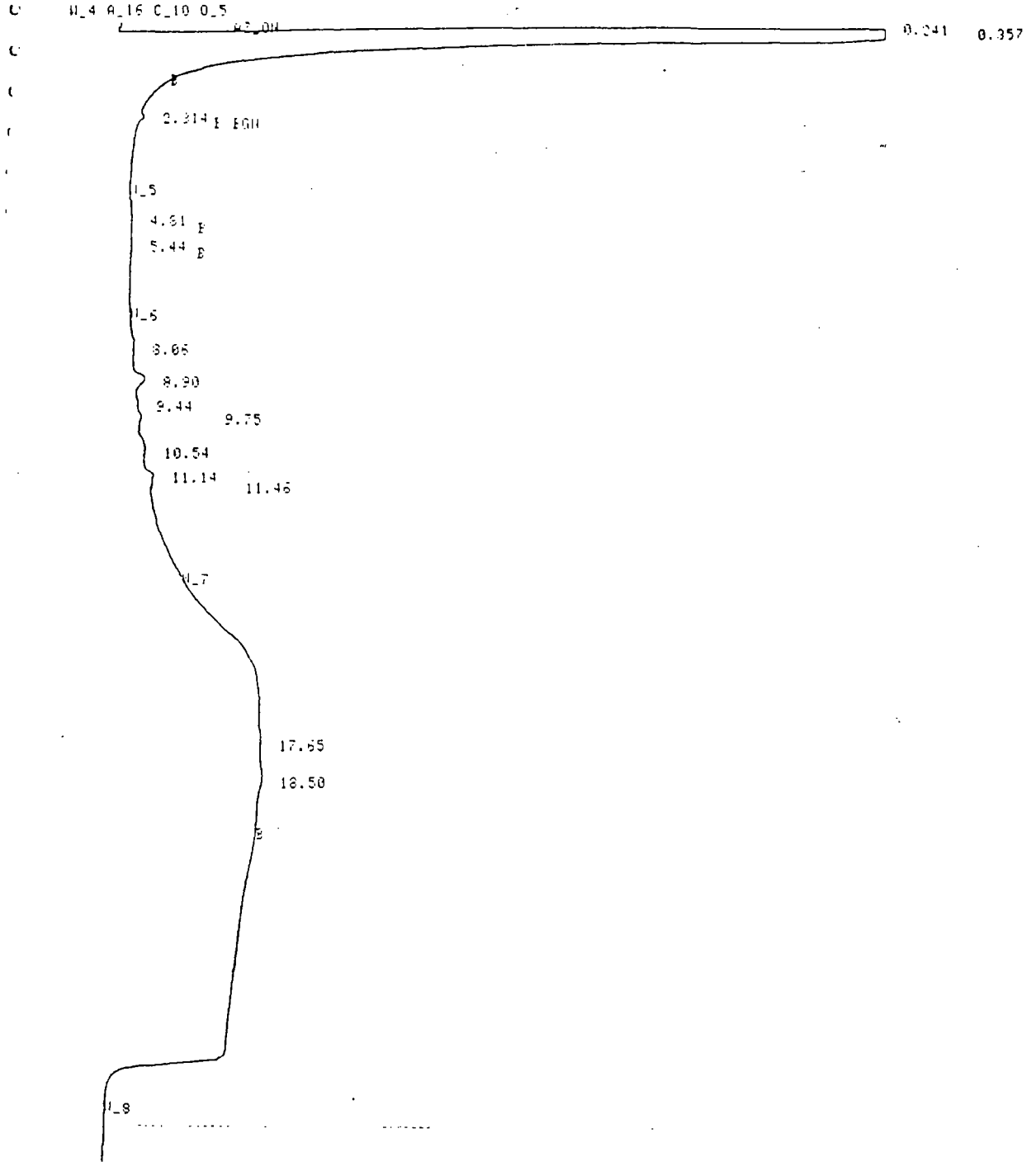
3λ 7082429 100 → 2 ml



FILE 78 RUN 66 STARTED 23:36.9 80/01/04
% METHOD 1 HIGH BOILERS LAST EDITED 14:36.1 80/01/02

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
2.733	20098	1.8203		0.1277	0.1636
3.250	780	0.1620	V	0.0050	0.0150
3.505	153553	14.9042	V	0.9753	1.3803
3.857	347046	33.6325	V	2.2043	3.1147
4.392	8067	1.5252	V	0.0512	0.1412
4.558	66494	6.0805		0.4223	0.5631
5.21	16815	0.8584	V	0.1068	0.0795
5.78	13287	1.0942	V	0.0844	0.1013
6.47	25484	1.6937	V	0.1619	0.1569
6.99	6947	0.2097	V	0.0137	0.0191
7.51	15086	1.4384	V	0.0958	0.1332
7.97	7317	0.7639	V	0.0465	0.0707
8.26	3860	0.6036	V	0.0245	0.0559
8.78	7244102	495.0818	V	46.0119	45.8494
9.31	1247605	124.4547	V	7.9243	11.5257
9.95	4894	0.6185	V	0.0311	0.0573
10.39	5957623	354.4229	V	37.8406	32.8230
11.82	81098	4.9576	V	0.5151	0.4591
12.51	20149	2.0840	V	0.1280	0.1924
12.86	12107	0.9233	V	0.0769	0.0855
13.55	20067	1.0853	V	0.1275	0.1005
13.95	49880	5.5324	V	0.3168	0.5124
14.25	3476	0.4661	V	0.0221	0.0433
15.42	84946	6.2114	V	0.5395	0.5752
15.94	131819	9.2345	V	0.8373	0.8552

3λ 7082430 100 → 2ml

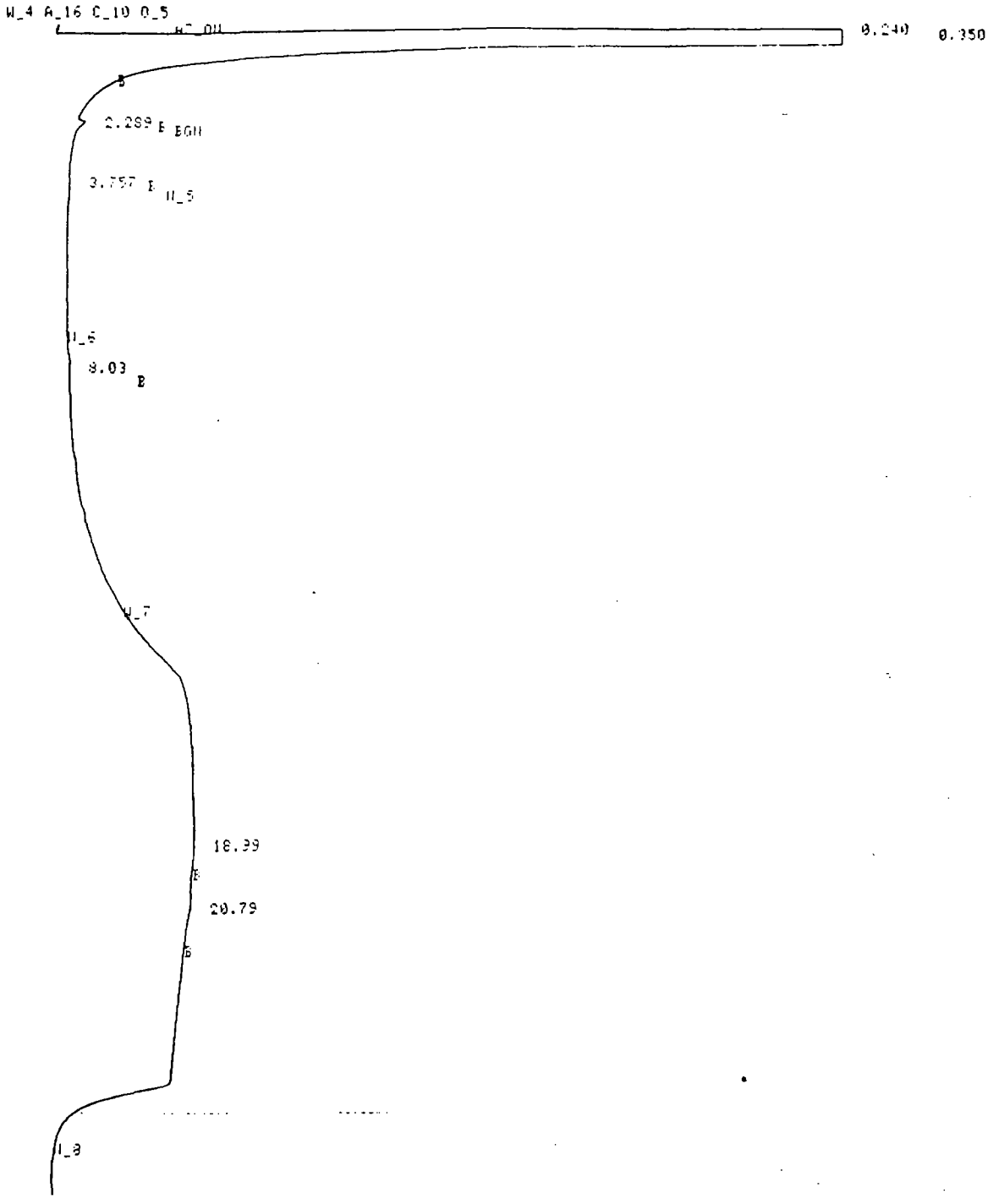


FILE 79 RUN 67 STARTED 00:12.8 80/01/05
% METHOD 1 HIGH BOILERS LAST EDITED 14:36.1 80/01/02

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
4.81	2318	0.1916		0.2449	2.4943
5.44	2145	0.1869		0.2267	2.4333
8.06	8009	0.3901	V	0.8462	5.0783
8.90	31858	2.0716	V	3.3662	26.9677
9.44	2633	0.3118	V	0.2782	4.0592
9.75	8743	0.7050	V	0.9238	9.1777
10.54	14292	0.5965	V	1.5101	7.7909
11.14	7245	1.0096	V	0.7655	13.1435
11.46	1823	0.3036	V	0.1926	3.9516
17.65	835403	1.1717	V	88.2717	15.2529
18.50	31931	0.7413		3.3739	9.6507

11 PEAKS > AREA REJECT 946339 TOTAL AREA
11 PEAKS > HEIGHT REJECT 7.6817 TOTAL HEIGHT

3λ 7082431 700 → 2 ml



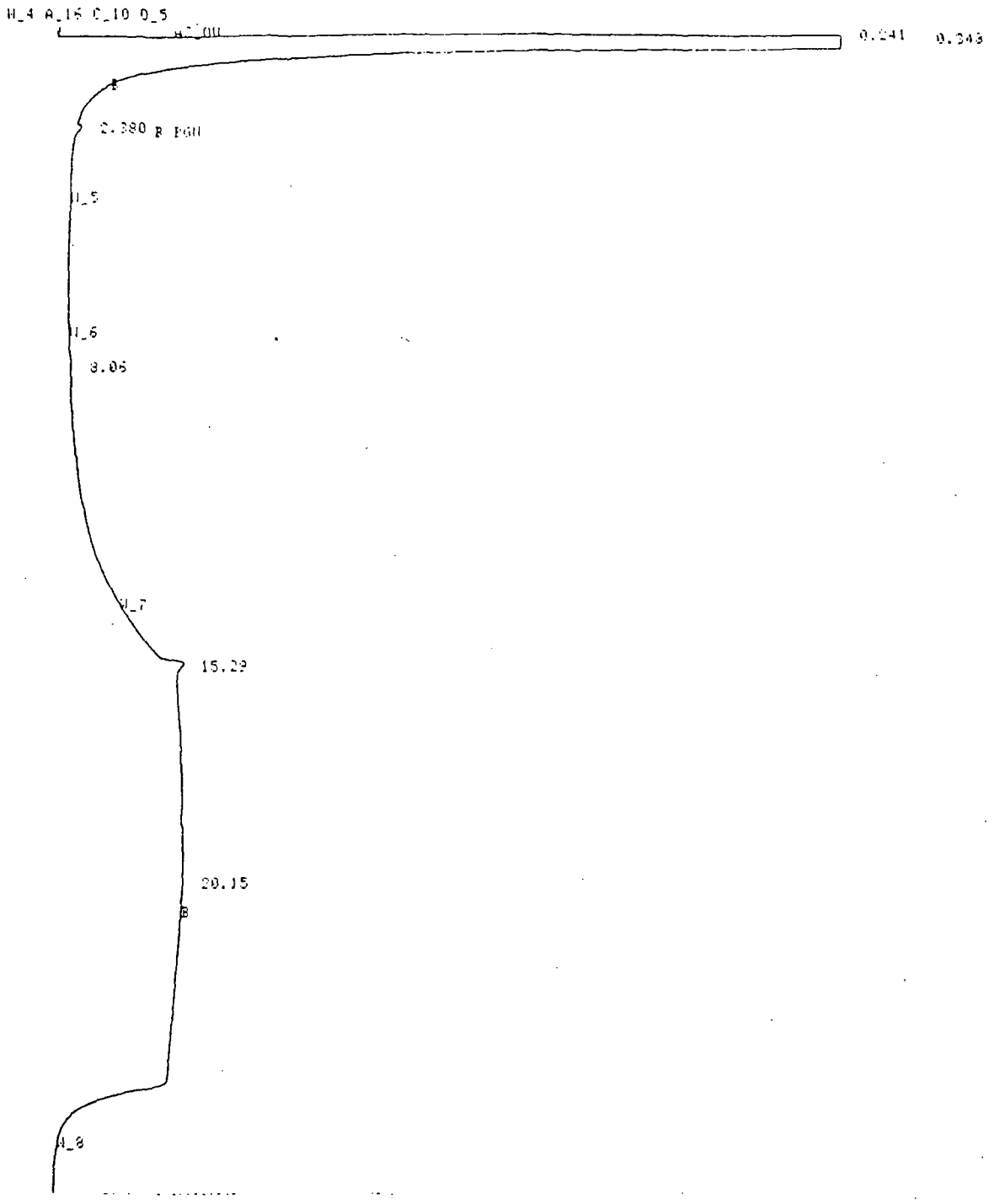
FILE 80 RUN 68 STARTED 00:49.9 80/01/05
% METHOD 1 HIGH BOILERS LAST EDITED 14:36.1 80/01/02

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
3.757	497	0.1302		1.5970	13.7410
8.03	5944	0.3107		19.1185	32.7923
18.99	13964	0.1653		44.9139	17.4491
20.79	10686	0.3412		34.3705	36.0176

4 PEAKS > AREA REJECT 31091 TOTAL AREA
4 PEAKS > HEIGHT REJECT 0.9474 TOTAL HEIGHT

3x 7080432

700 → 2ml

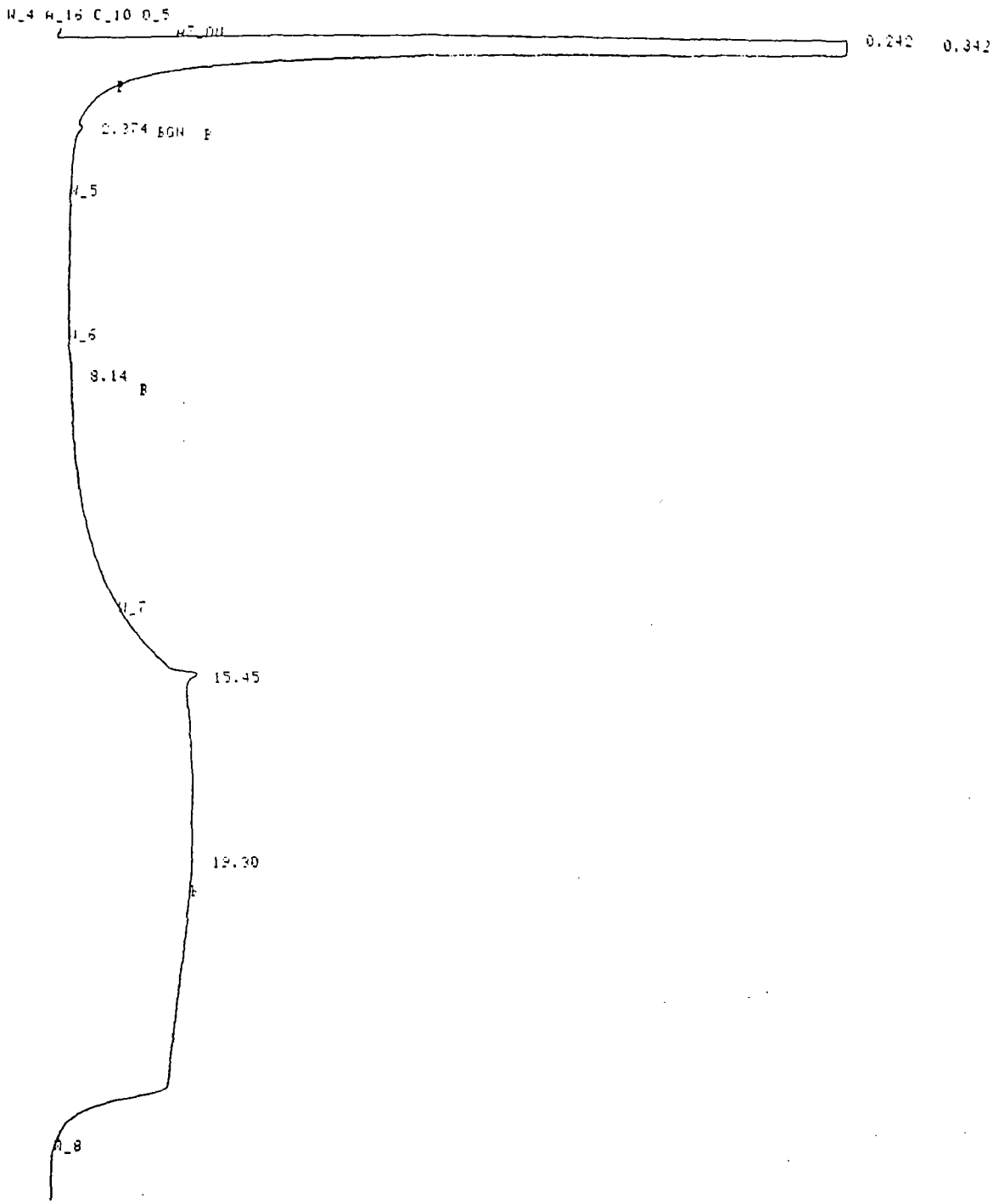


FILE 91 RUN 69 STARTED 01:24.8 80/01/05
% METHOD 1 HIGH BOILERS LAST EDITED 14:36.1 80/01/02

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
8.06	1476	0.1774	V	10.6522	4.3861
15.29	1916	3.6777	V	13.3305	90.9364
20.15	10463	0.1892		75.5163	4.6775

3 PEAKS > AREA REJECT 13855 TOTAL AREA
3 PEAKS > HEIGHT REJECT 4.0443 TOTAL HEIGHT

3λ 7083433 700 → 2ml

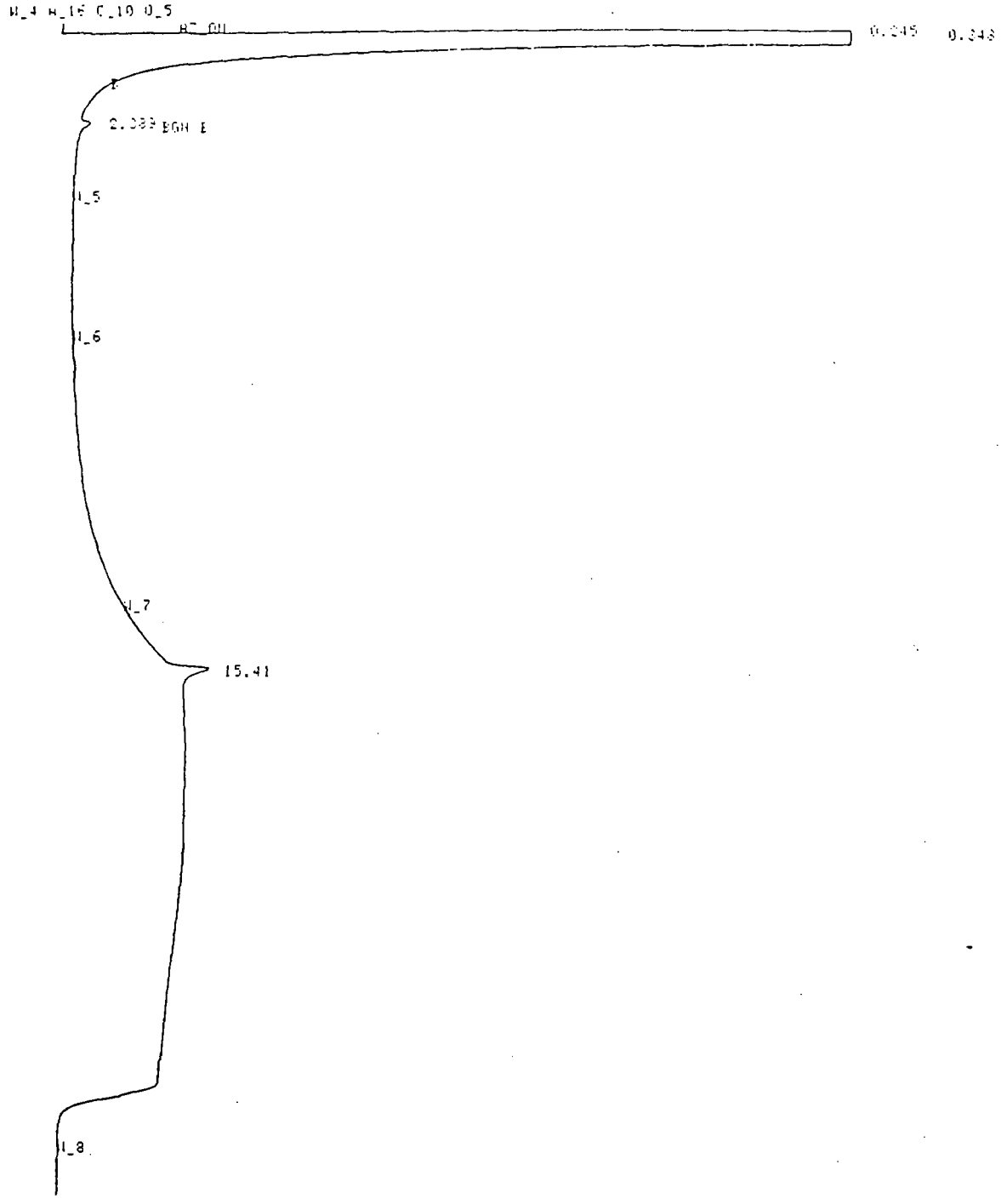


FILE 32 RUN 70 STARTED 01:58.9 80/01/05
% METHOD 1 HIGH BOILERS LAST EDITED 14:36.1 80/01/02

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
8.14	5409	0.2573		25.2625	5.3293
15.45	912	4.3657	V	4.2606	90.4280
19.30	15090	0.2048		70.4769	4.2427

3 PEAKS > AREA REJECT 21411 TOTAL AREA
3 PEAKS > HEIGHT REJECT 4.8279 TOTAL HEIGHT

3λ 1002434 700 → 2ml

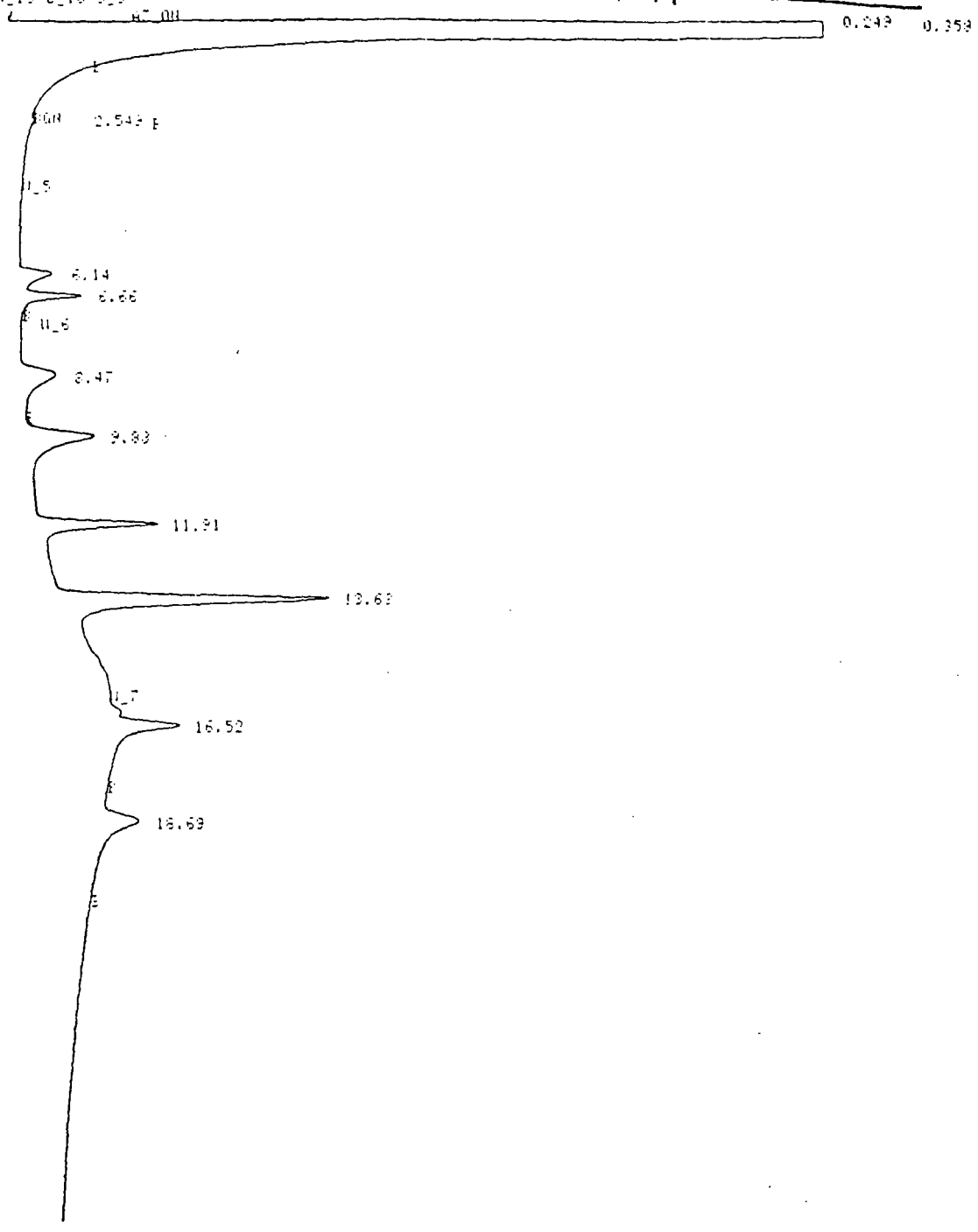


FILE 83 RUN 71 STARTED 02:29.9 80/01/05
% METHOD 1 HIGH BOILERS LAST EDITED 14:36.1 80/01/02

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
15.41	100639	7.9732	V	100.0000	100.0000

1 PEAK > AREA REJECT 100639 TOTAL AREA
1 PEAK > HEIGHT REJECT 7.9732 TOTAL HEIGHT

4λ Spiked (0.2λ std) Sample
Different Col & Different Program (Temp)



FILE 93 RUN 80 STARTED 13:14.1 80-01-05
% METHOD 1 HIGH BOILERS LAST EDITED 14:36.1 80-01-02

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
2.549	3612	0.5771		0.1741	0.4596
6.14	77535	5.4558	U	3.7372	4.3452
6.66	96035	10.3447		4.6289	8.2369
8.47	161365	6.1335		7.8019	4.8849
9.88	273167	12.1535	U	13.1667	9.6735
11.91	250431	21.7753	U	12.0709	17.3427
→13.69	716539	49.0451	U	34.5374	39.0614
16.52	303204	13.1332		14.6145	10.4645
18.69	192287	6.9347		9.2683	5.5231

9 PEAKS > AREA REJECT 2074675 TOTAL AREA
9 PEAKS > HEIGHT REJECT 125.5590 TOTAL HEIGHT

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 08/28/87
Date Received: 08/31/87
Date Reported: 09/30/87
Project No. JCO-104H

Q.C. DATA REPORT

Analyst: G. Brock
Date of Analysis: 9/15/87
Method of Analysis: Common Solvents
Detection Limit: 1.0
Units: ppb

Sample Number	Analyte	Original Result	Duplicate Result	% Deviation
7092427	Acetone	< 1.0	< 1.0	0

Sample Number	Analyte	Sample Contribution	Spike Added	Spike Result	% Recovery
7092427	Acetone	< 1.0	30	28	93

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

2 22:06 87/09/15

BLANK.

5 MODIFIED

10 BGN

1.50
B

3.50
3.98
B

END

RUN 12 22:06 87/09/15

METHOD 5 MODIFIED CALCULATION: %

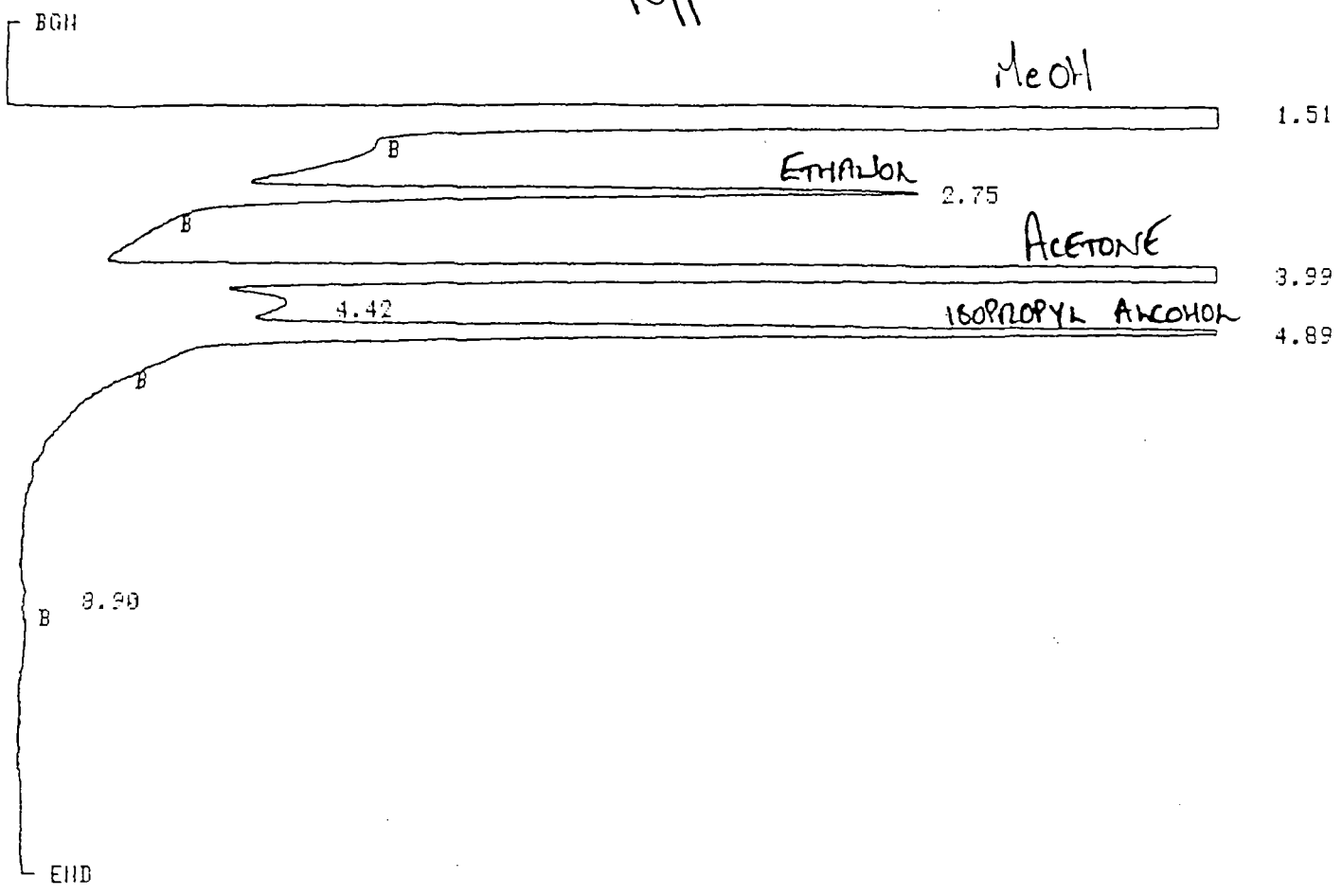
RT	AREA	BC	AREA %
1.50	0.0461		39.3711
3.50	0.0468	V	39.9573
3.98	0.0242		20.6714

3 PEAKS > AREA/HT REJECT

9 21:07 87/09/15

5 MODIFIED

10ppm. STANDARD.



RUN 9 21:07 87/09/15

METHOD 5 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
1.51	44.9355		59.7375
2.75	2.0165		2.6808
3.99	22.1813	T	29.4880
4.42	1.3034	T	1.7328
4.89	4.7669		6.3372
8.90	0.0177		0.0235

6 PEAKS > AREA/HT REJECT

3 PEAKS > AREA/HT REJECT

22:24 87/09/15

MODIFIED

lcc # 7082427

BGN

1.51

B

4.14

B

7.59

B

END

UN 13 22:24 87/09/15

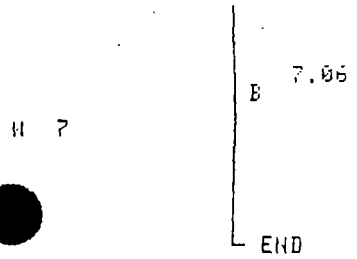
IETHOD 5 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
1.51	0.1016		37.7337
4.14	0.0604		22.4421
7.59	0.1072		39.8241

3 PEAKS > AREA/HT REJECT

UN DEVIATIONS

IME	ZONE	CHANGE	TYPE
07	RAMP RATE 1	4.0 TO 8.0 DEG C/MIN	KB



RUN 6 22:25 87/09/15

METHOD 5 MODIFIED CALCULATION: %

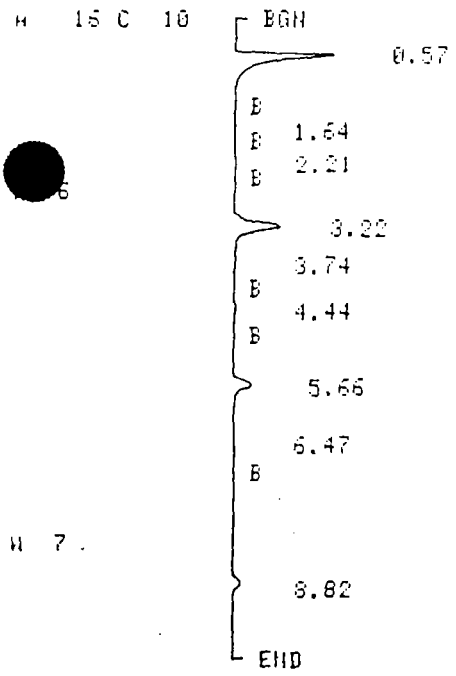
RT	AREA	BC	AREA %
0.60	0.0144	T	23.9502
0.83	0.0260		43.2028
7.06	0.0198		32.8469

3 PEAKS > AREA/HT REJECT

lic # 7082428 (10ds).

RUN 7 22:37 87/09/15

METHOD 5 MODIFIED



RUN 7 22:37 87/09/15

METHOD 5 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
0.57	1.8853		47.8978
1.64	0.0115		0.2927
2.21	0.0445		1.1311
3.22	1.1792	T	29.9586
3.74	0.0617		1.5677
4.44	0.0438		1.1136
5.66	0.4744	T	12.0522
6.47	0.0294		0.7476
8.82	0.2061	V	5.2361

3 PEAKS > AREA/HT REJECT

H 7

END

RUN 2 21:37 87/09/15

METHOD 5 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
0.56	0.0212	T	20.8603
0.86	0.0241		23.7815
1.33	0.0058		5.7847
2.03	0.0504	V	49.5733

4 PEAKS > AREA/HT REJECT

RUN 3 21:50 87/09/15 lic # 7082429. (10mls).

METHOD 5 MODIFIED

H 16 C 10

BGN

B 0.61 0.89

H 6

B 3.36

B 6.51

H 7

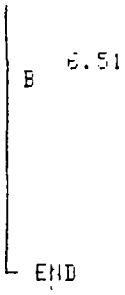
END

RUN 3 21:50 87/09/15

METHOD 5 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
0.61	0.0105	T	12.8154
0.89	0.0285		34.5590
3.36	0.0206		25.0114
6.51	0.0228		27.6139

4 PEAKS > AREA/HT REJECT



RUN 3 21:50 87/09/15

METHOD 5 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
0.61	0.0105	T	12.8154
0.89	0.0285		34.5590
3.36	0.0206		25.0114
6.51	0.0228		27.6139

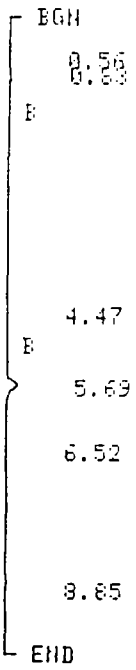
4 PEAKS > AREA/HT REJECT

7082430 (10mls).

4 22:02 87/09/15

THOD 5 MODIFIED

16 C 10



RUN 4 22:02 87/09/15

METHOD 5 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
0.56	0.0186	T	4.1097
0.83	0.0752		16.5633
4.47	0.0400		8.8056
5.69	0.2642	V	58.1507
6.52	0.0137	V	3.0232
8.85	0.0424	V	9.3433

6 PEAKS > AREA/HT REJECT

8.73 0.1526

4 PEAKS > AREA/HT REJECT

RUN DEVIATIONS

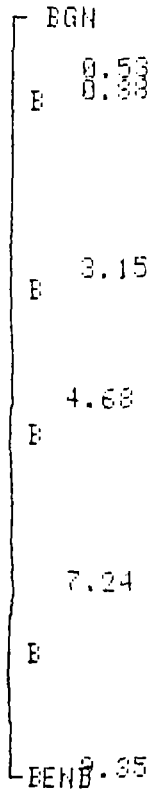
TIME	ZONE	CHANGE	TYPE
10.20	OVEN TEMP	-	

13 23:29 87/09/15

lcc # 7082431.

D 5 MODIFIED

C 10

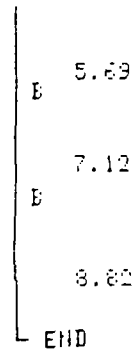


RUN 13 23:29 87/09/15

METHOD 5 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
0.53	0.0200	T	4.3512
0.88	0.0274		5.9684
3.15	0.0131		2.8439
4.68	0.0257		5.5821
7.24	0.2555		55.4683
9.35	0.1187		25.7857

6 PEAKS > AREA/HT REJECT



RUN 5 22:14 87/09/15

METHOD 5 MODIFIED CALCULATION: %

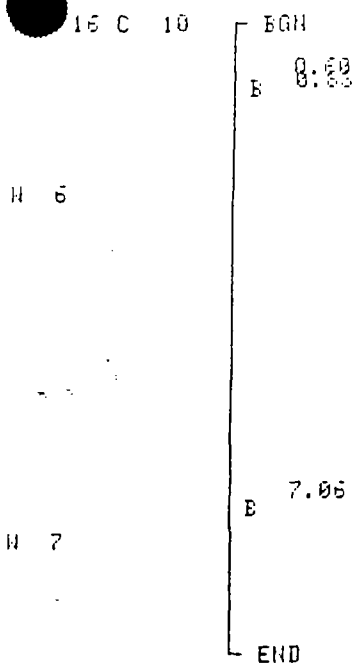
RT	AREA	BC	AREA %
0.56	0.0148	V	10.6411
0.84	0.0127		9.1075
5.69	0.0254		18.2375
7.12	0.0309		22.1318
8.82	0.0557	V	39.8819

5 PEAKS > AREA/HT REJECT

RUN 6 22:25 87/09/15

lcc # 7082432.

METHOD 5 MODIFIED

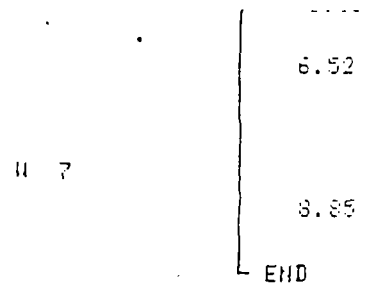


RUN 6 22:25 87/09/15

METHOD 5 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
0.60	0.0144	T	23.9502
0.83	0.0260		43.2028
7.06	0.0198		32.8469

3 PEAKS > AREA/HT REJECT



RUN 4 22:02 87/09/15

METHOD 5 MODIFIED CALCULATION: %

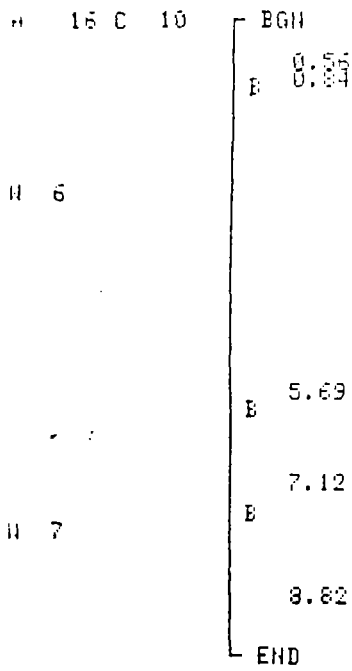
RT	AREA	BC	AREA %
0.56	0.0186	T	4.1097
0.83	0.0752		16.5633
4.47	0.0400		8.8096
5.69	0.2642	V	58.1507
6.52	0.0137	V	3.0232
8.85	0.0424	V	9.3433

6 PEAKS > AREA/HT REJECT

lcc # 7082433 (10mls).

RUN 5 22:14 87/09/15

METHOD 5 MODIFIED



RUN 5 22:14 87/09/15

METHOD 5 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
0.56	0.0148	V	10.6411
0.84	0.0127		9.1075
5.69	0.0254		18.2375
7.12	0.0309		22.1318
8.82	0.0557	V	39.8819

5 PEAKS > AREA/HT REJECT

RUN DEVIATIONS

ME	ZONE	CHANGE		TYPE
6.42	OVEN TEMP 2	150 TO 122	DEG C	KB

lcc # 7082434 (10 mts).

23:16 87/09/15

5 MODIFIED

10 BGN

0.55

3.92

B

8.03

9.79

END

RUN 12 23:16 87/09/15

METHOD 5 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
0.55	0.0109	V	0.5132
3.92	0.0040		0.1899
8.03	1.9185	T	90.2361
9.79	0.1926	V	9.0606

4 PEAKS > AREA/HT REJECT

22:54 87/09/15

MODIFIED

lcc # 70824 Dup.

BGN

0.71
1.04

2.34

3.56

B

10.73

BEND

4 5 22:54 87/09/15

THOD 5 MODIFIED CALCULATION: %

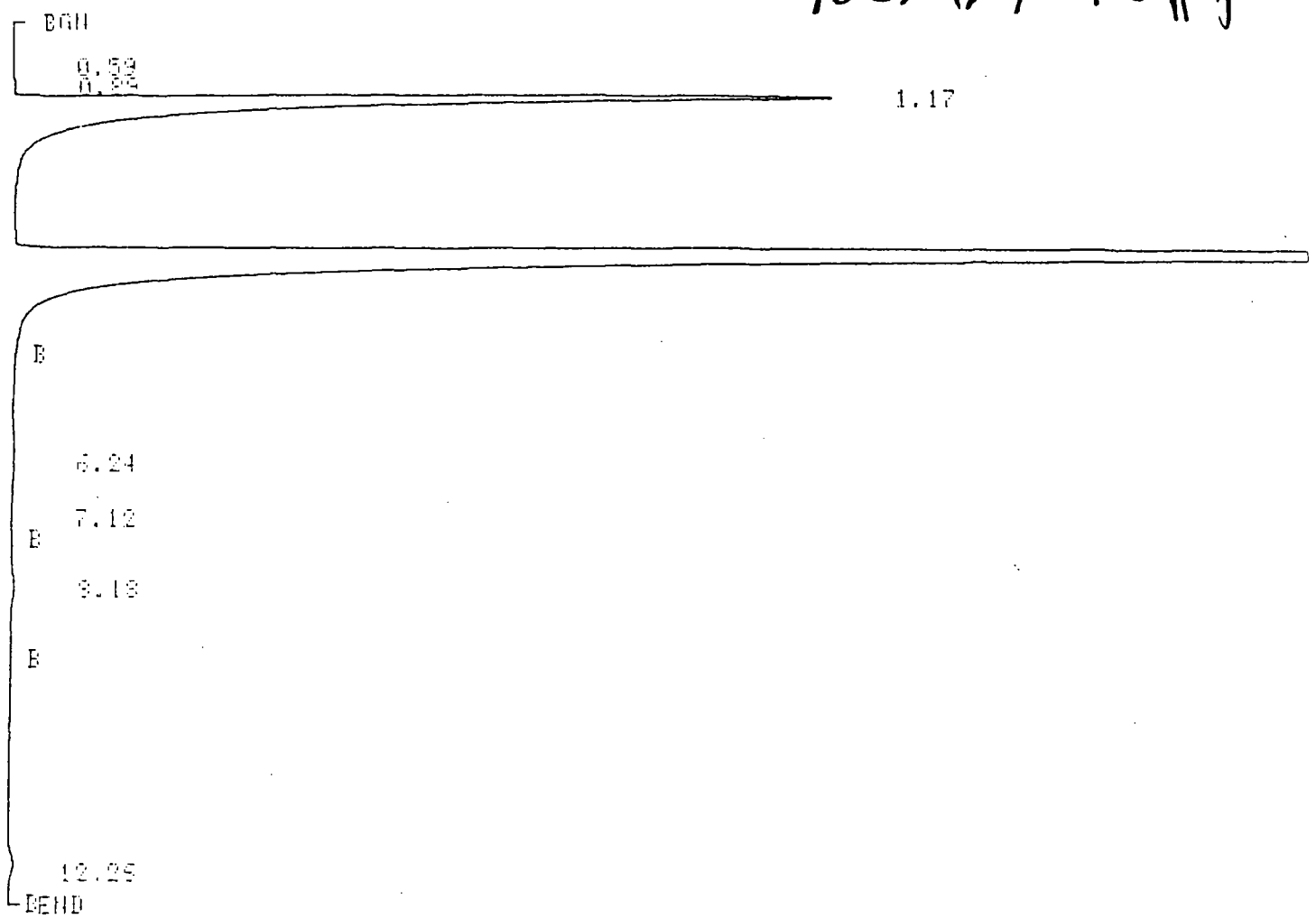
T	AREA	BC	AREA %
0.71	0.0192	T	2.9537
1.04	0.0252	T	3.8704
2.34	0.1019	V	15.6071
3.56	0.4596		70.3486
3.73	0.0471		7.2200

5 PEAKS > AREA/HT REJECT

0:05 87/09/16

MODIFIED

lcc # 70824127 +30ppb spike



RUN 9 0:05 87/09/16

METHOD 5 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
0.59	0.0231	T	0.0273
0.89	0.0738	T	0.0873
1.17	20.9826	U	24.8204
8.46	62.7504		74.2276
6.24	0.1759	U	0.2081
7.12	0.0061		0.0072
8.18	0.2586		0.3059
12.26	0.2669		0.3157

8 PEAKS > AREA/HT REJECT

RUN DEVIATIONS

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 08/28/87
Date Received: 08/31/87
Date Reported: 09/30/87
Project No. JCO-104H

Q.C. DATA REPORT

Analyst: W. Amundsen
Date of Analysis: 9/9/87
Method of Analysis: EPA 624
Detection Limit: 0.5
Units: ppb

Sample Number	Analyte	Original Result	Duplicate Result	% Deviation
7091017	Cl_4	7.4	7.8	2.6

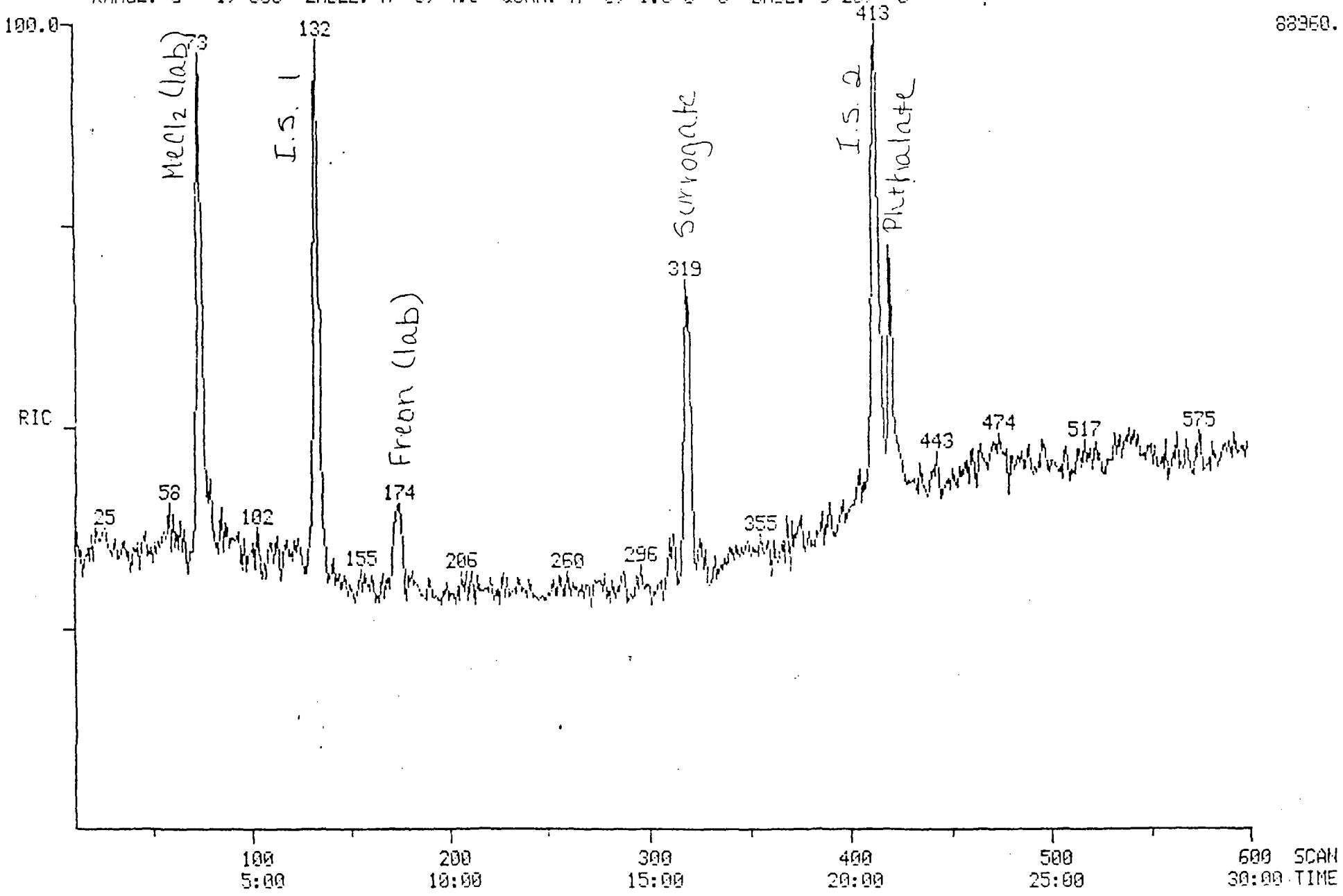
Sample Number	Analyte	Sample Contribution	Spike Added	Spike Result	% Recovery
7082435	I.S. 1	< 0.5	20	22	110

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

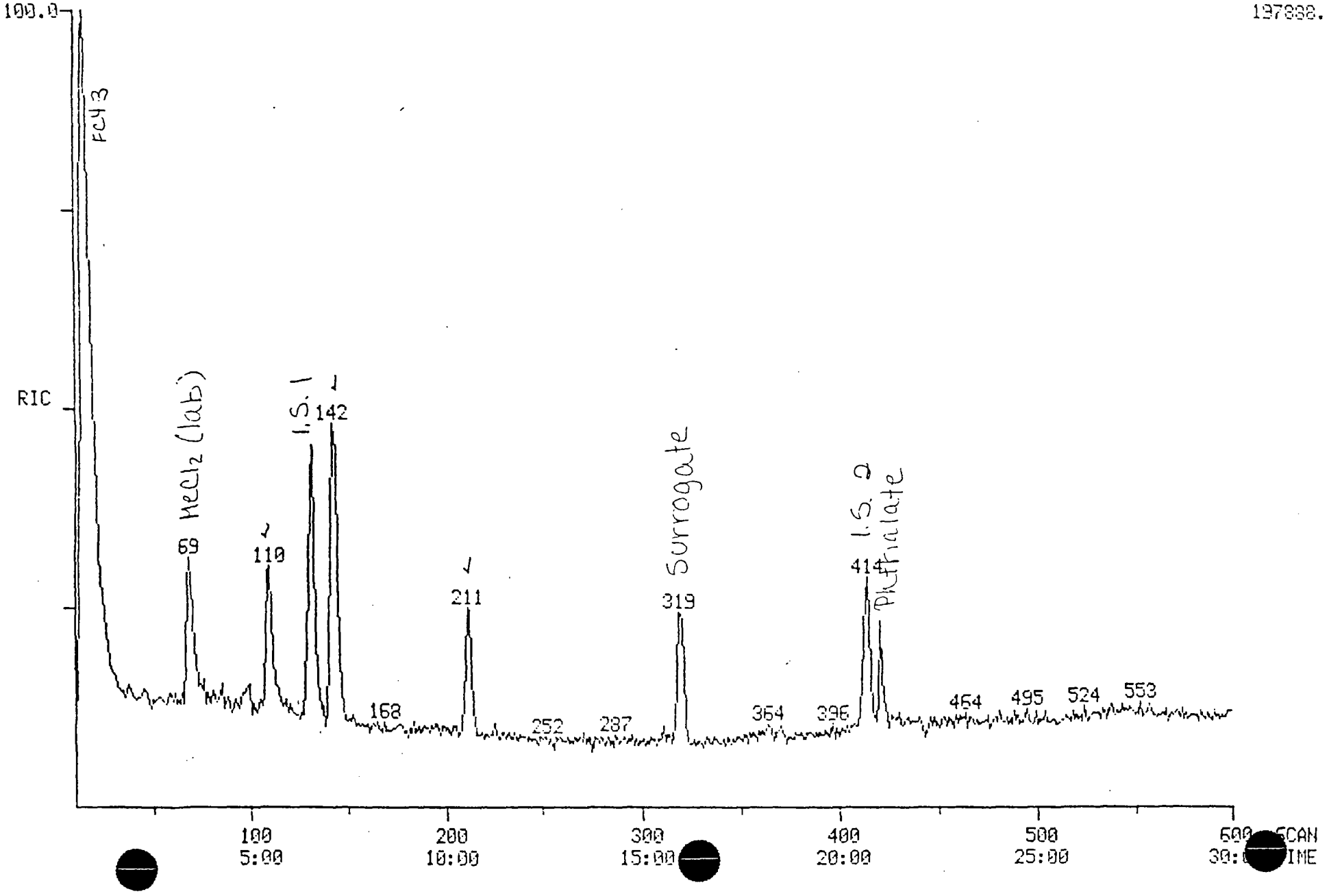
RIC
09/08/87 10:43:00
SAMPLE: VOA MEOH BLANK (200UL/5ML)
CONDS.: VOA METHOD
RANGE: G 1, 600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: VOABLK0908 #420 SCANS 10 TO 600
CALI: VOABLK0908 #2



RIC
09/08/87 16:09:00
SAMPLE: I-2 (5ML)
CONDS.: VOA METHOD
RANGE: G 1, 600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

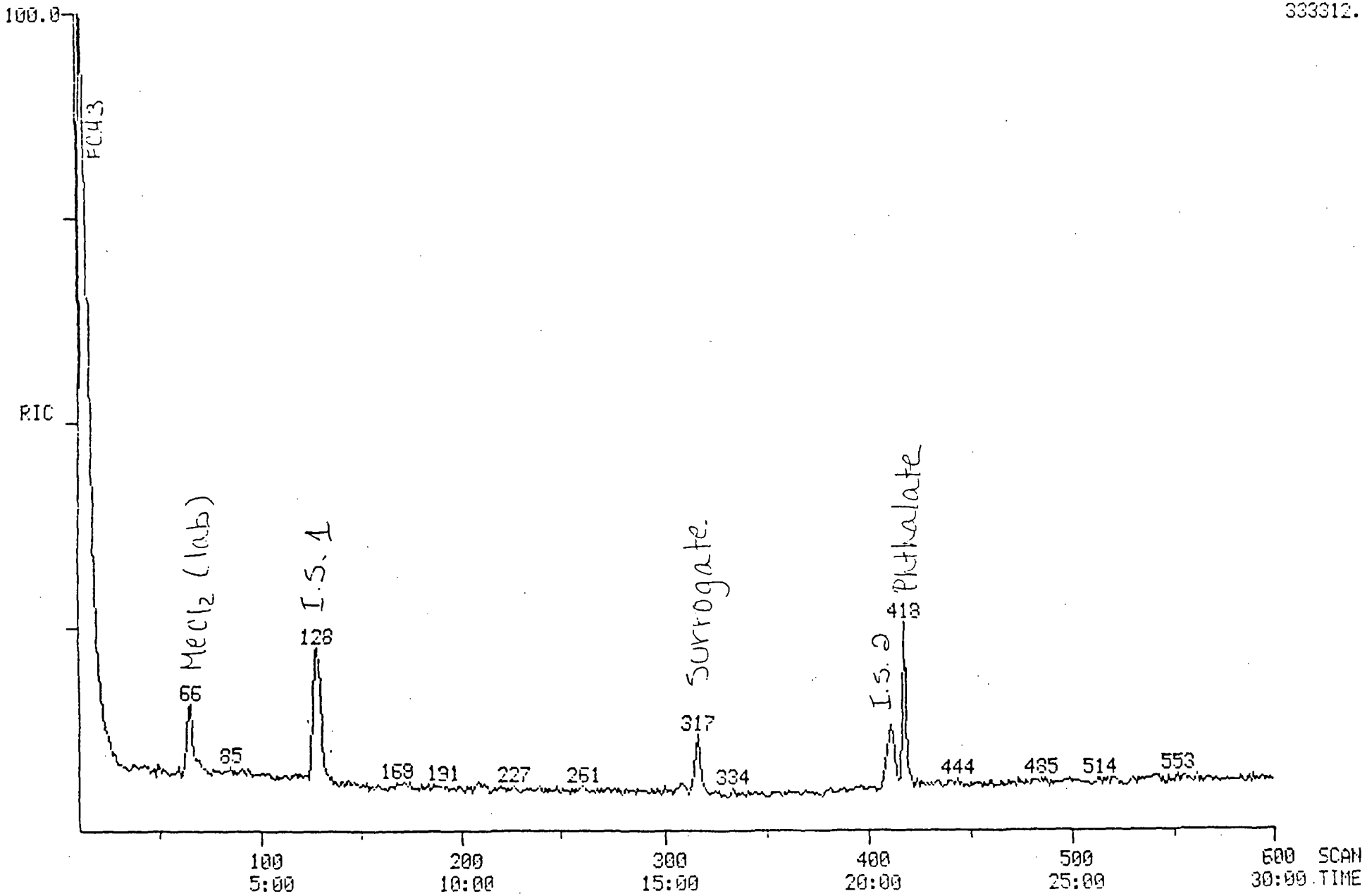
DATA: VOA7082435 #211 SCANS 10 TO 600
CALI: VOA7082435 #2



RIC
09/08/87 18:30:00
SAMPLE: I-2 (5ML)
CONDS.: VOA METHOD
RANGE: G 1, 600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

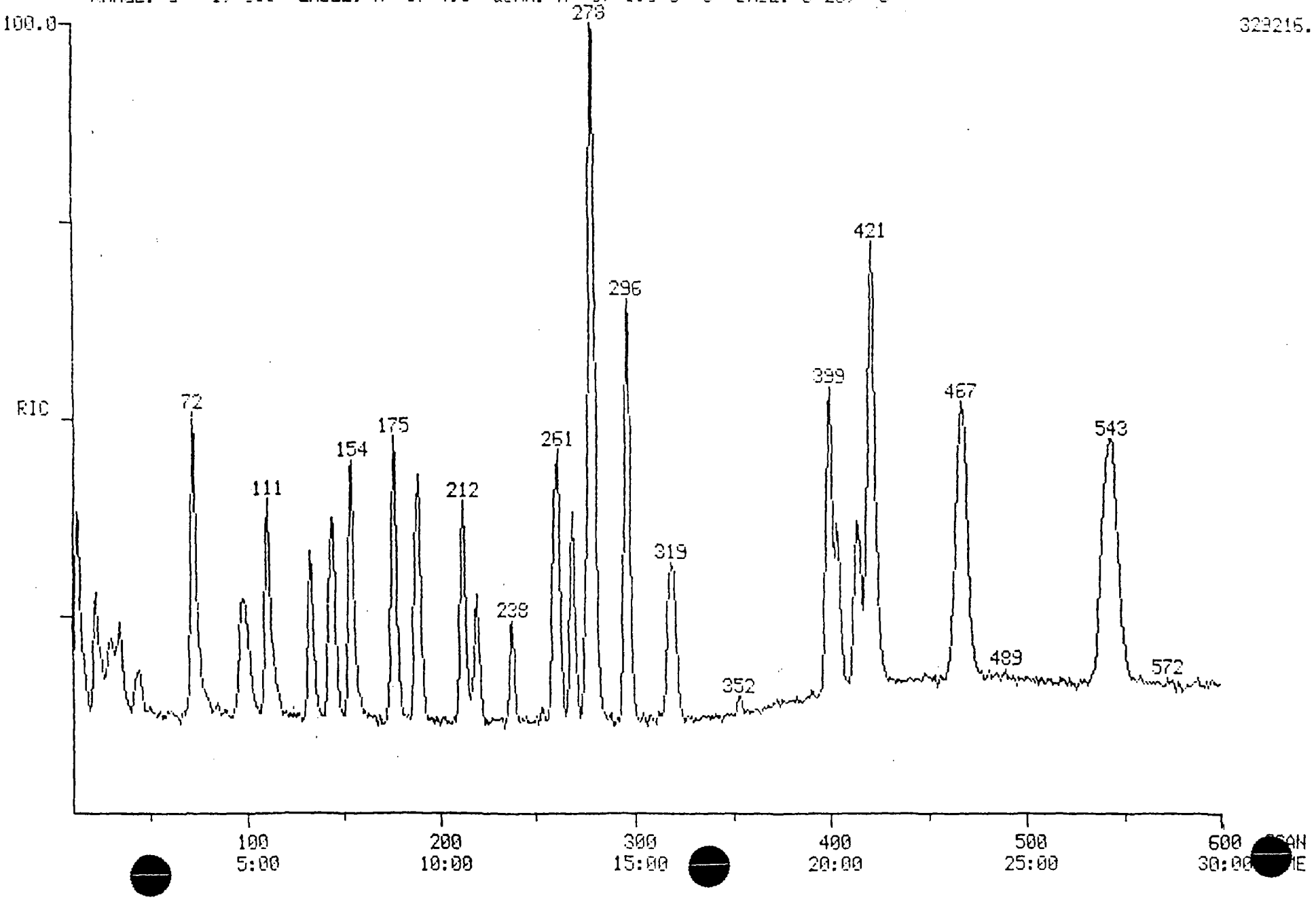
DATA: VOA7082436 #1 SCANS 10 TO 600
CALI: VOA7082436 #2

333312.



RIC
09/08/87 9:39:00
SAMPLE: A,B&C VOA STD (20UG/L)
CONDS.: VOA METHOD
RANGE: G 1, 600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: VOASTD0908 #1 SCANS 10 TO 600
CALI: VOASTD0908 #2



SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 09/25/87
Date Received: 09/28/87
Date Reported: 10/13/87
Project No. JCO-104H

Q.C. DATA REPORT

Analyst: G. Brock
Date of Analysis: 10/12/87
Method of Analysis: EPA 3510/8015
Detection Limit: 1.0
Units: ppm

Sample Number	Analyte	Original Result	Duplicate Result	% Deviation
7092021	P. Thinner	< 1.0	< 1.0	0

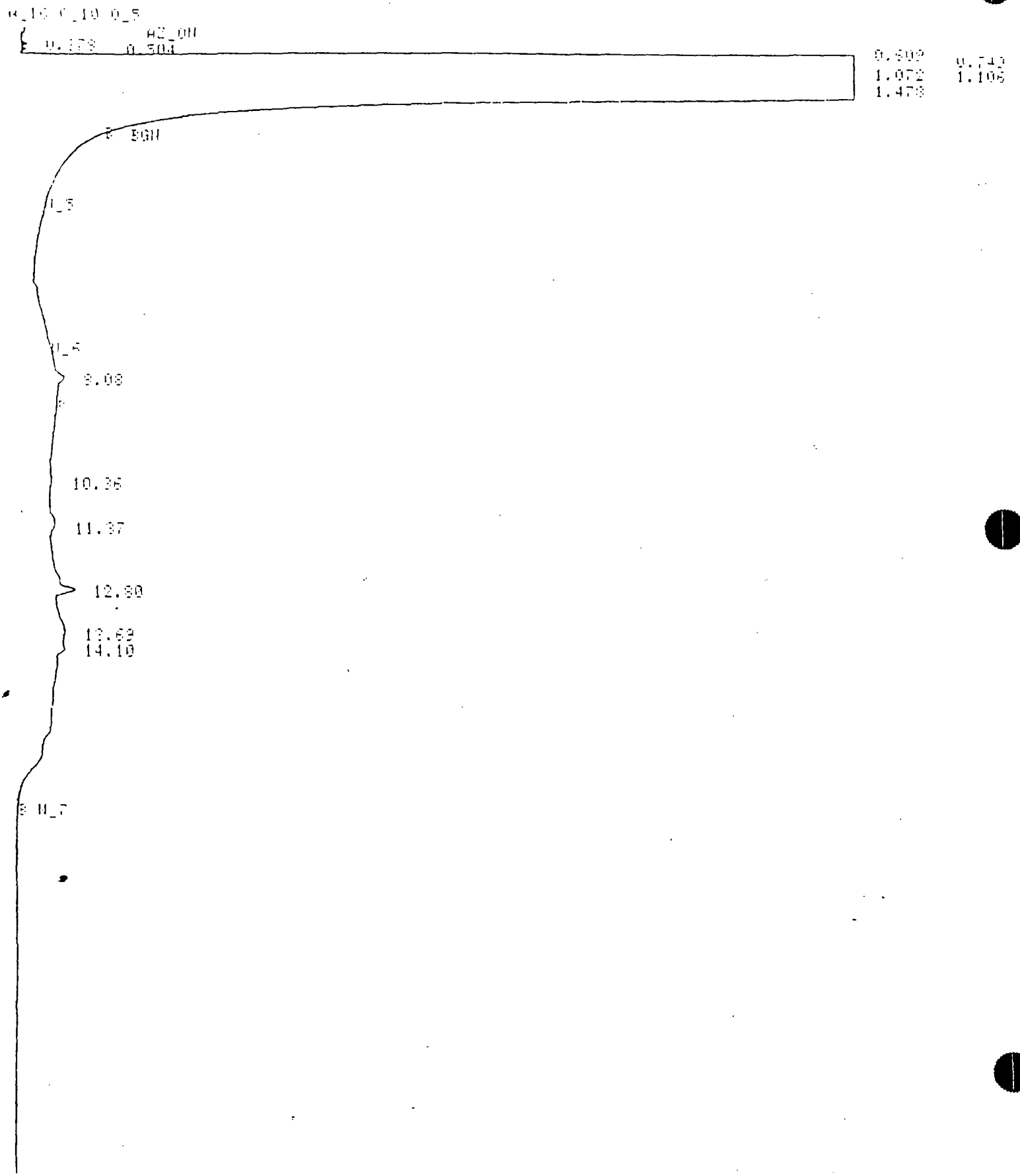
Sample Number	Analyte	Sample Contribution	Spike Added	Spike Result	% Recovery
7092021	P. Thinner	< 1.0	200	210	105

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

FILE 1 RUN 6 STORED 08:17.2 87 10 09
METHOD 1 DIESEL HIGH PS LAST EDITED 06:11.7 90 01 13

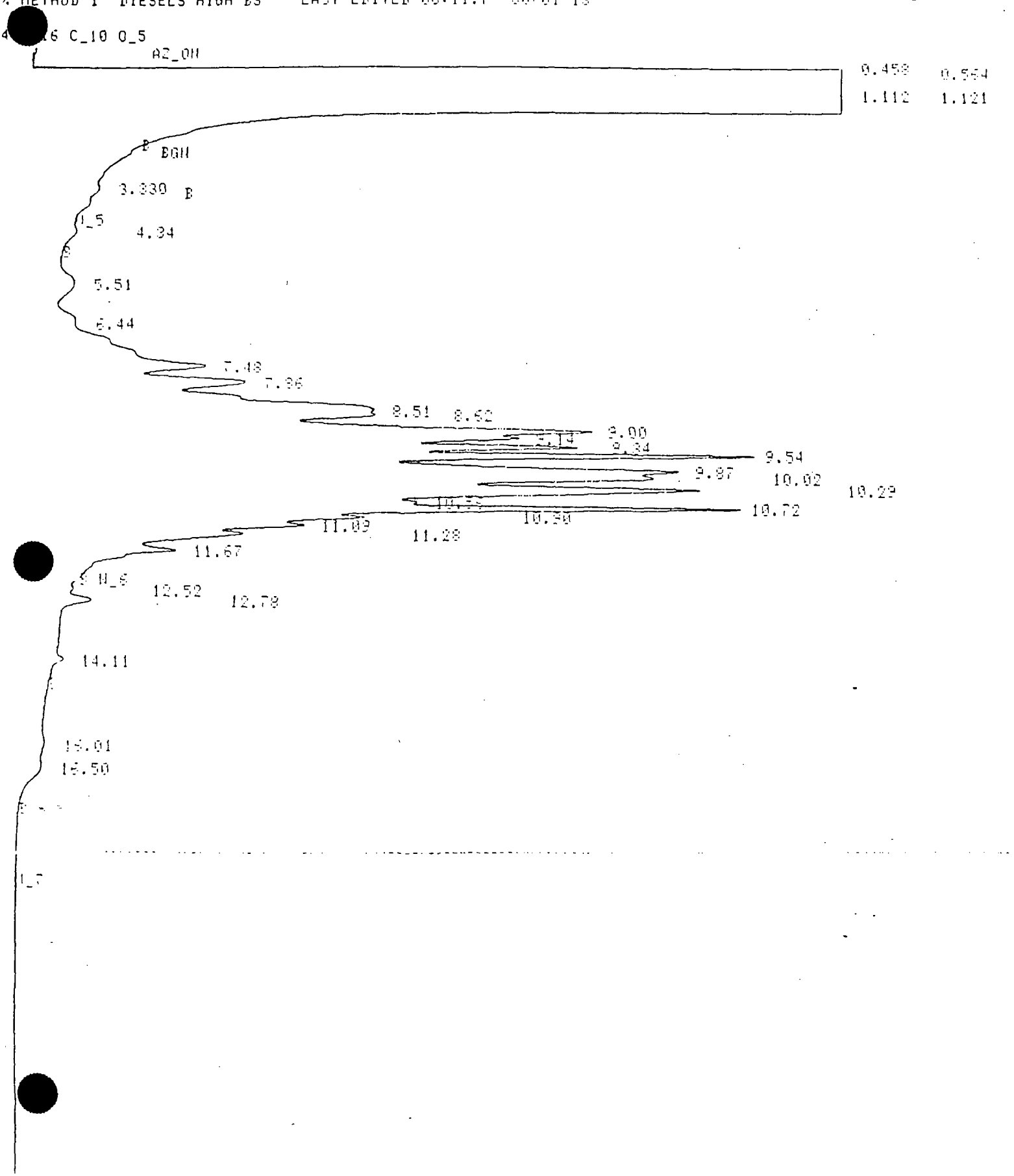
Blank



FILE 1 RUN 6 STORED 08:17.2 87 10 09

Paint-thinner STD.

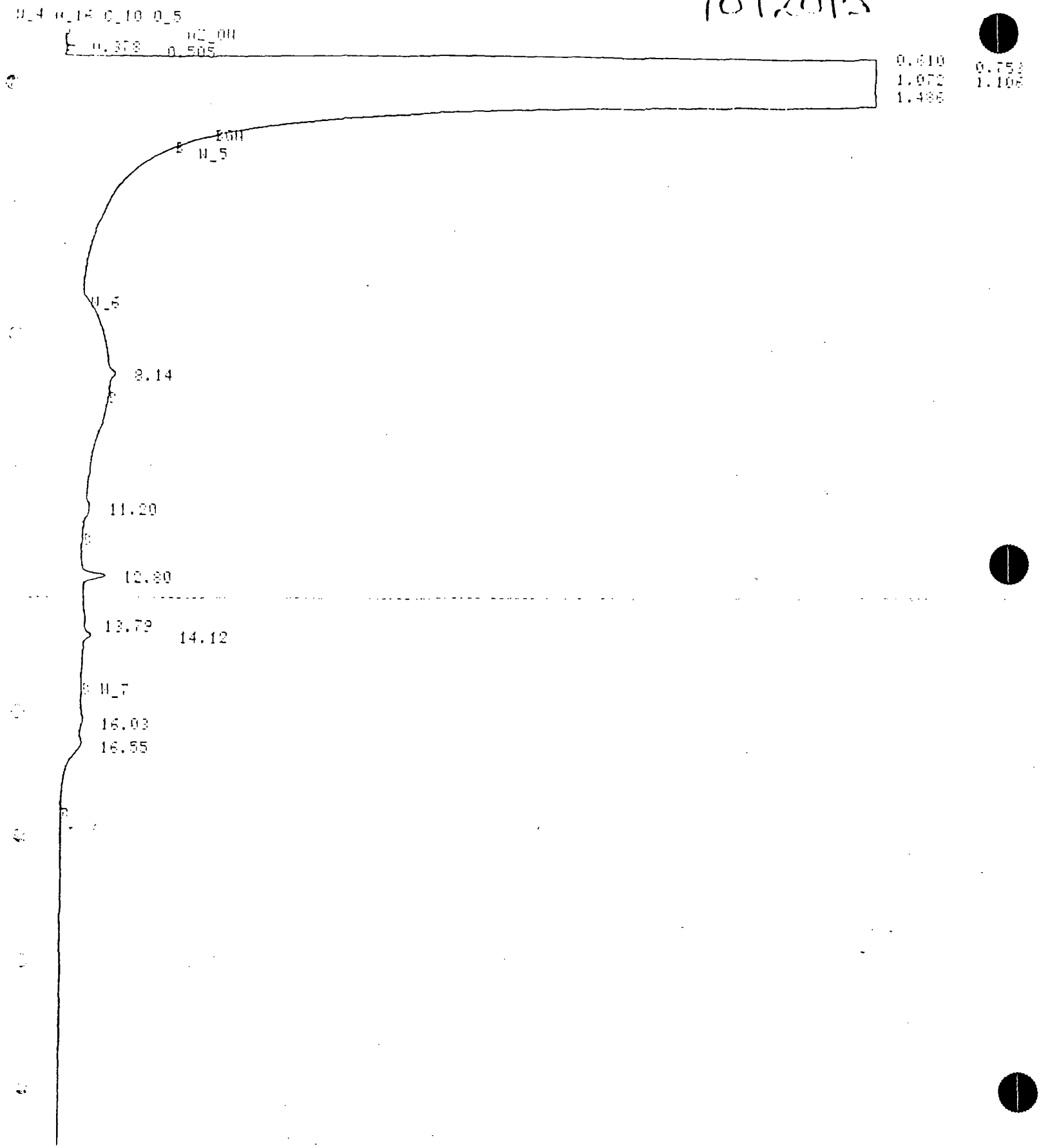
FILE 157 RUN 7 STARTED 08:52.7 87/10.09
% METHOD 1 DIESELS HIGH BS LAST EDITED 06:11.7 80/01/13



FILE 157 RUN 7 STARTED 08:52.7 87/10.09

FILE 159 RUN 9 STARTED 09:21.5 97-10-09
METHOD 1 DIESEL9 HIGH BS LAST EDITED 06:11.7 90/01/13

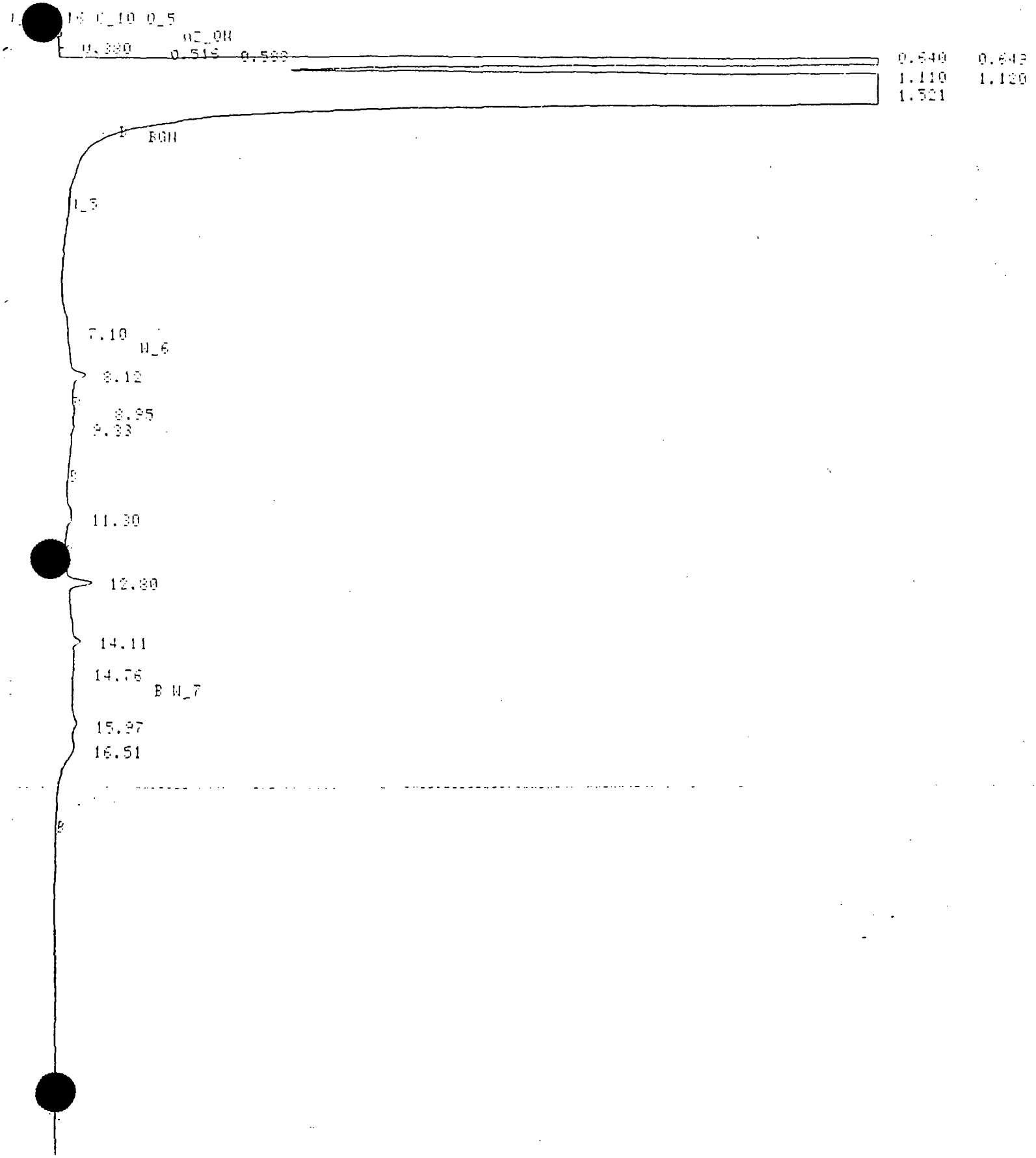
7072016



FILE 159 RUN 9 STARTED 09:21.5 97-10-09
METHOD 1 DIESEL9 HIGH BS LAST EDITED 06:11.7 90/01/13

7092016

FILE 160 RUN 10 STARTED 10:20.9 87/10/09
% METHOD 1 DIESELS HIGH BS LAST EDITED 06:11.7 90/01/13

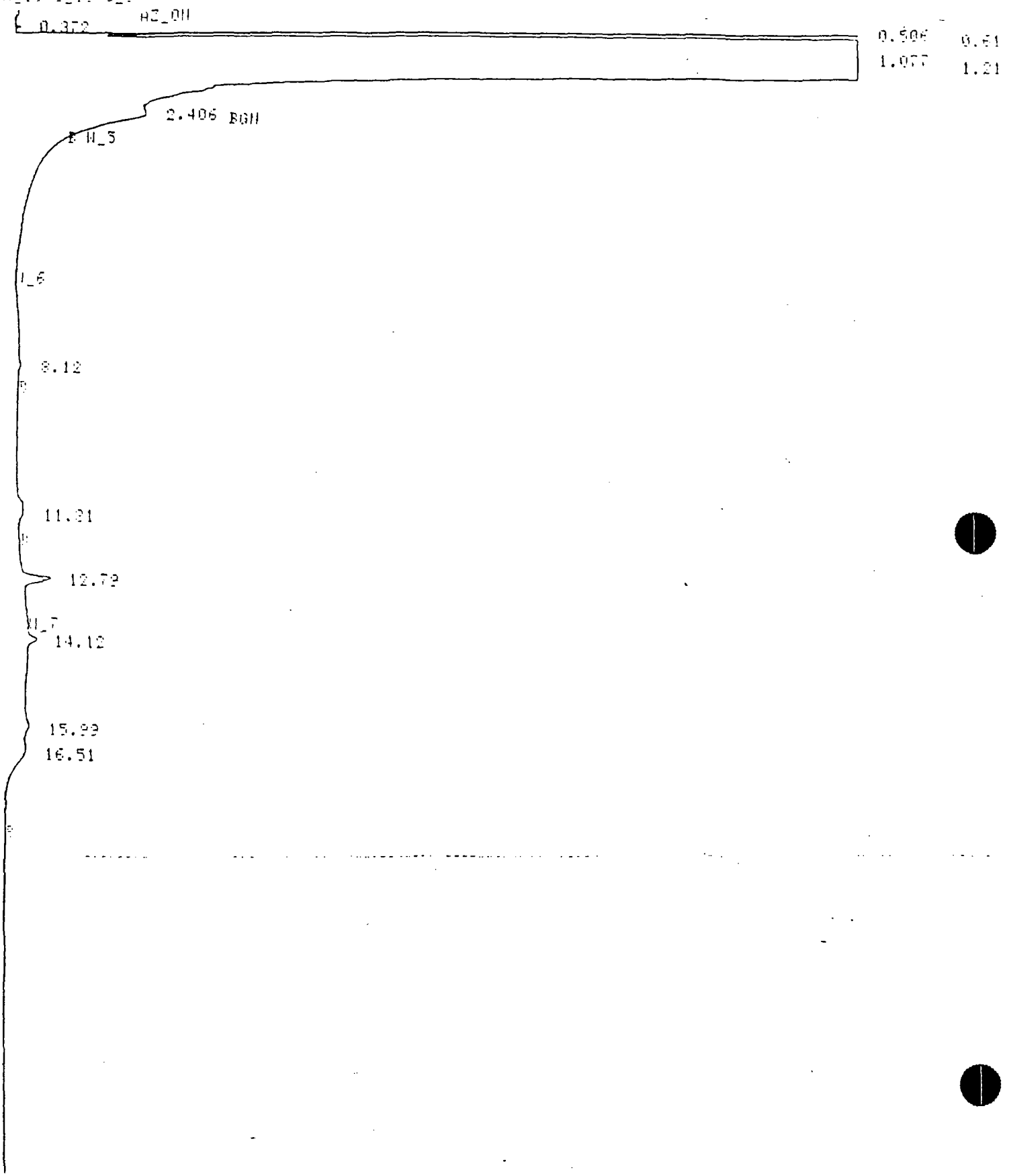


FILE 160 RUN 10 STARTED 10:20.9 87/10/09
% METHOD 1 DIESELS HIGH BS LAST EDITED 06:11.7 90/01/13

1012017

FILE 151 RUN 11 STARTED 10:51.4 87 10 09
% METHOD 1 DIESELS HIGH DS LAST EDITED 06:11.7 80 01 13

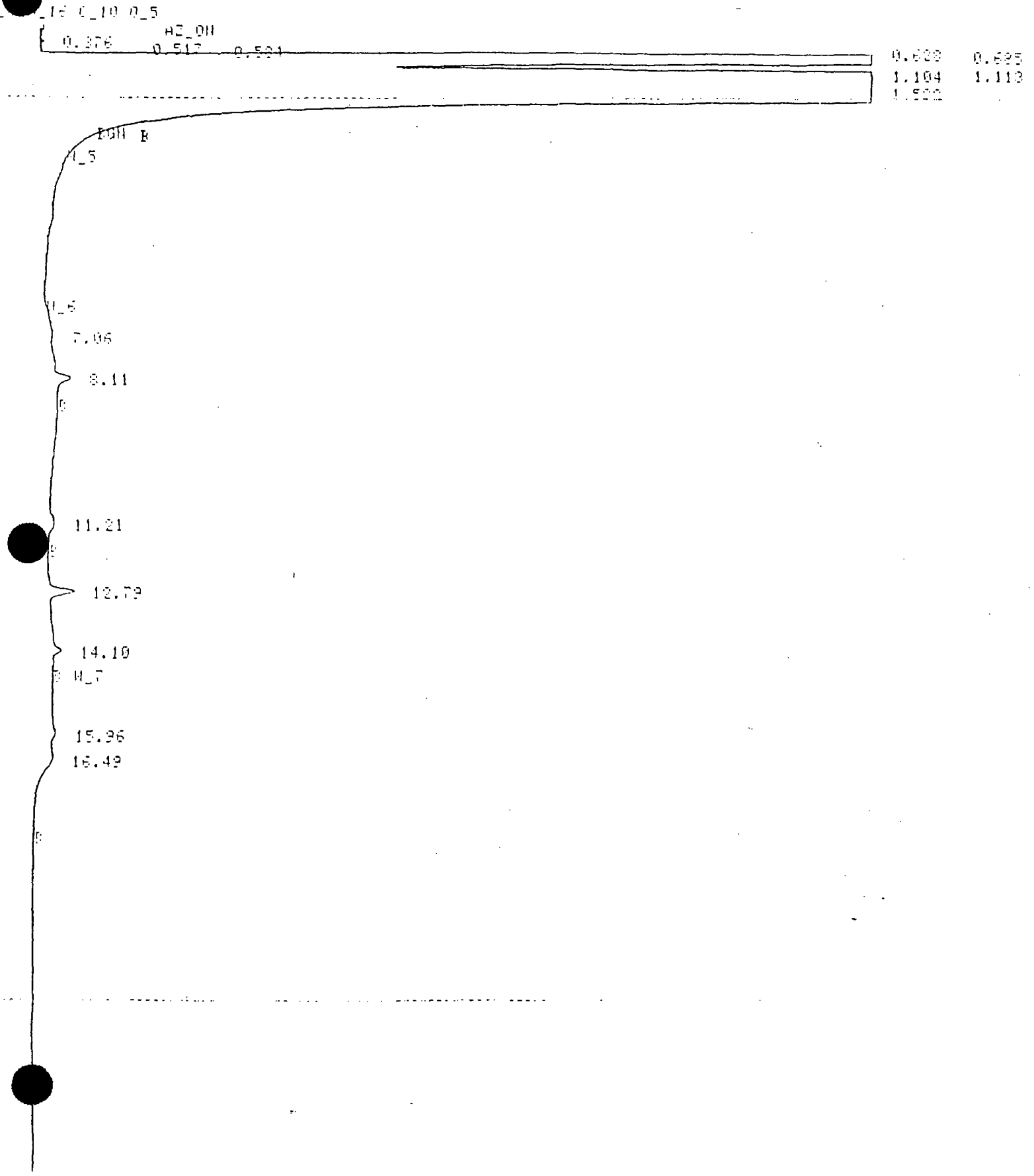
N_4 A_16 C_10 O_5



FILE 151 RUN 11 STARTED 10:51.4 87 10 09
% METHOD 1 DIESELS HIGH DS LAST EDITED 06:11.7 80 01 13

7092018

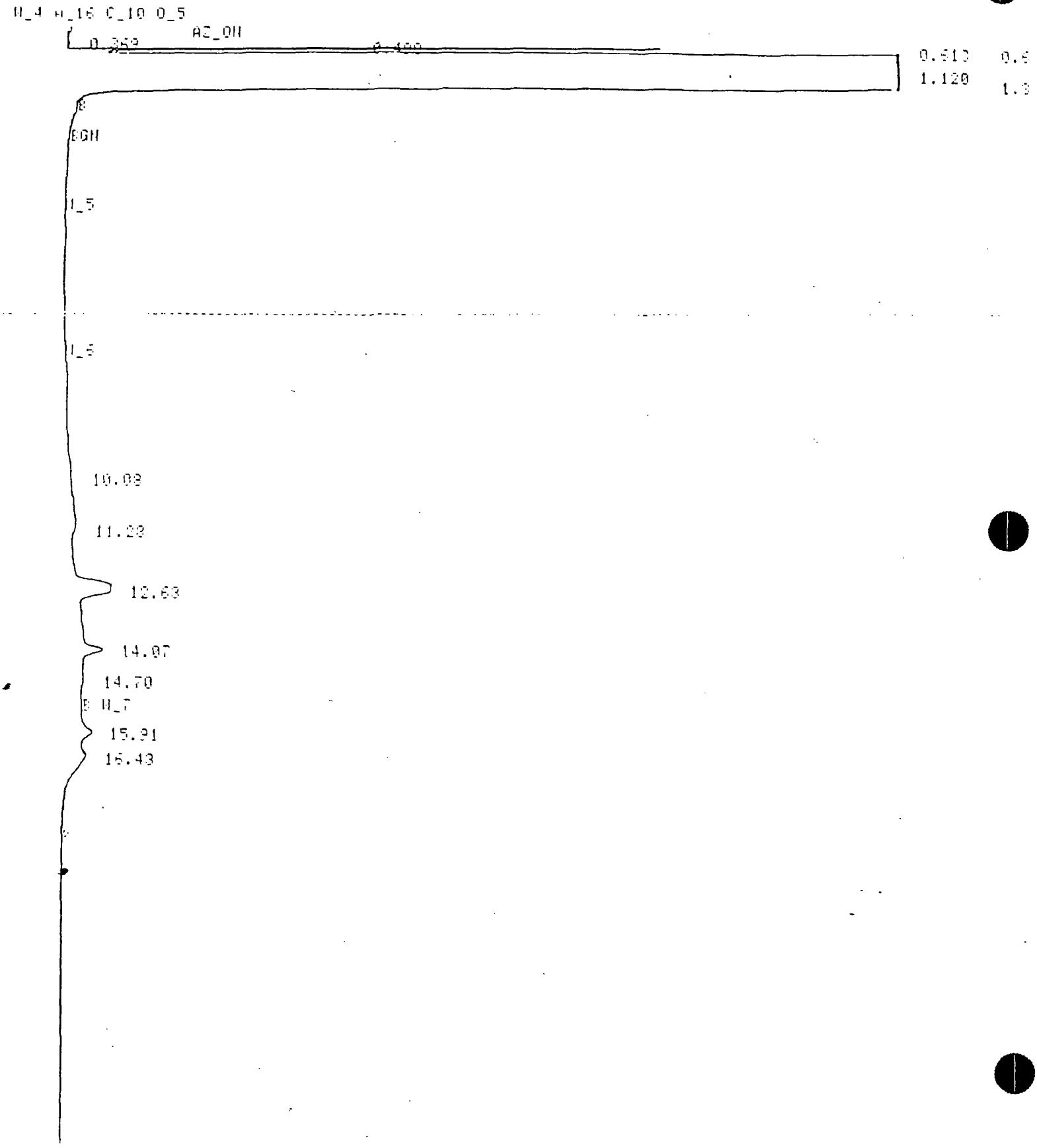
FILE 162 RUN 12 STARTED 11:18.3 87/10/09
METHOD 1 DIESELS HIGH BS LAST EDITED 06:11.7 80/01/13



FILE 162 RUN 12 STARTED 11:18.3 87/10/09

2092019

FILE 164 RUN 14 STARTED 12:53.7 87/10/09
% METHOD 1 DIESEL8 HIGH B8 LAST EDITED 06:11.7 80/01/13

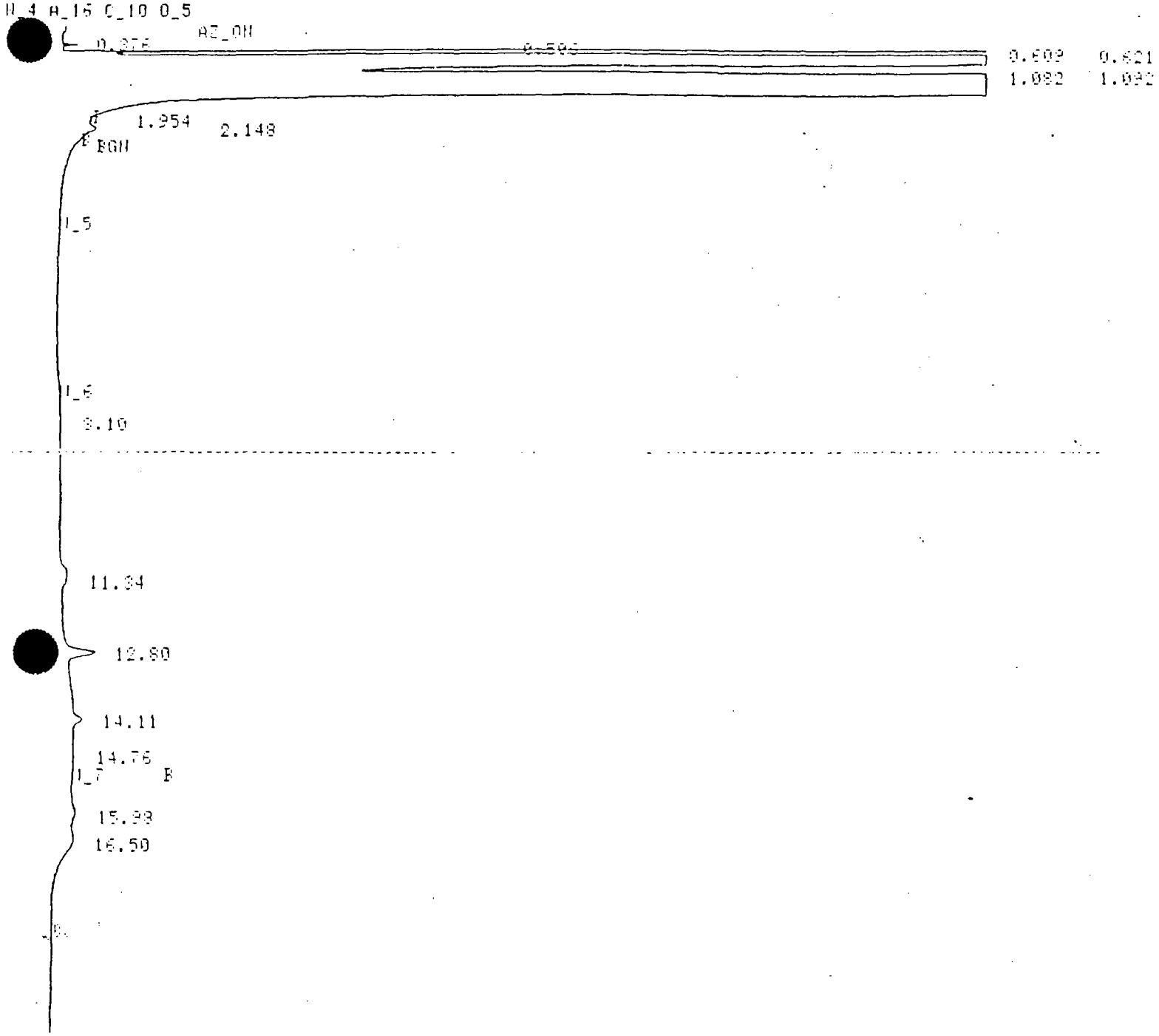


FILE 164 RUN 14 STARTED 12:53.7 87/10/09
% METHOD 1 DIESEL8 HIGH B8 LAST EDITED 06:11.7 80/01/13

1M2020

FILE 165 RUN 15 STARTED 13:46.3 87/10/09
% METHOD 1 DIESELS HIGH BS LAST EDITED 06:11.7 80/01/13

N_4 A_16 C_10 O_5



FILE 165 RUN 15 STARTED 13:46.3 87/10/09
% METHOD 1 DIESELS HIGH BS LAST EDITED 06:11.7 80/01/13

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
9.10	2807	0.1423	U	3.0973	1.6924
11.34	20426	0.9075	U	22.5385	10.7910
12.80	41139	4.5450	U	45.3987	54.0442
14.11	15043	1.4894	U	16.6043	17.7105
14.76	1507	0.1264		1.6629	1.5034
15.99	9700	0.6209	U	10.7032	7.4065
16.50		0.5762			6.8521

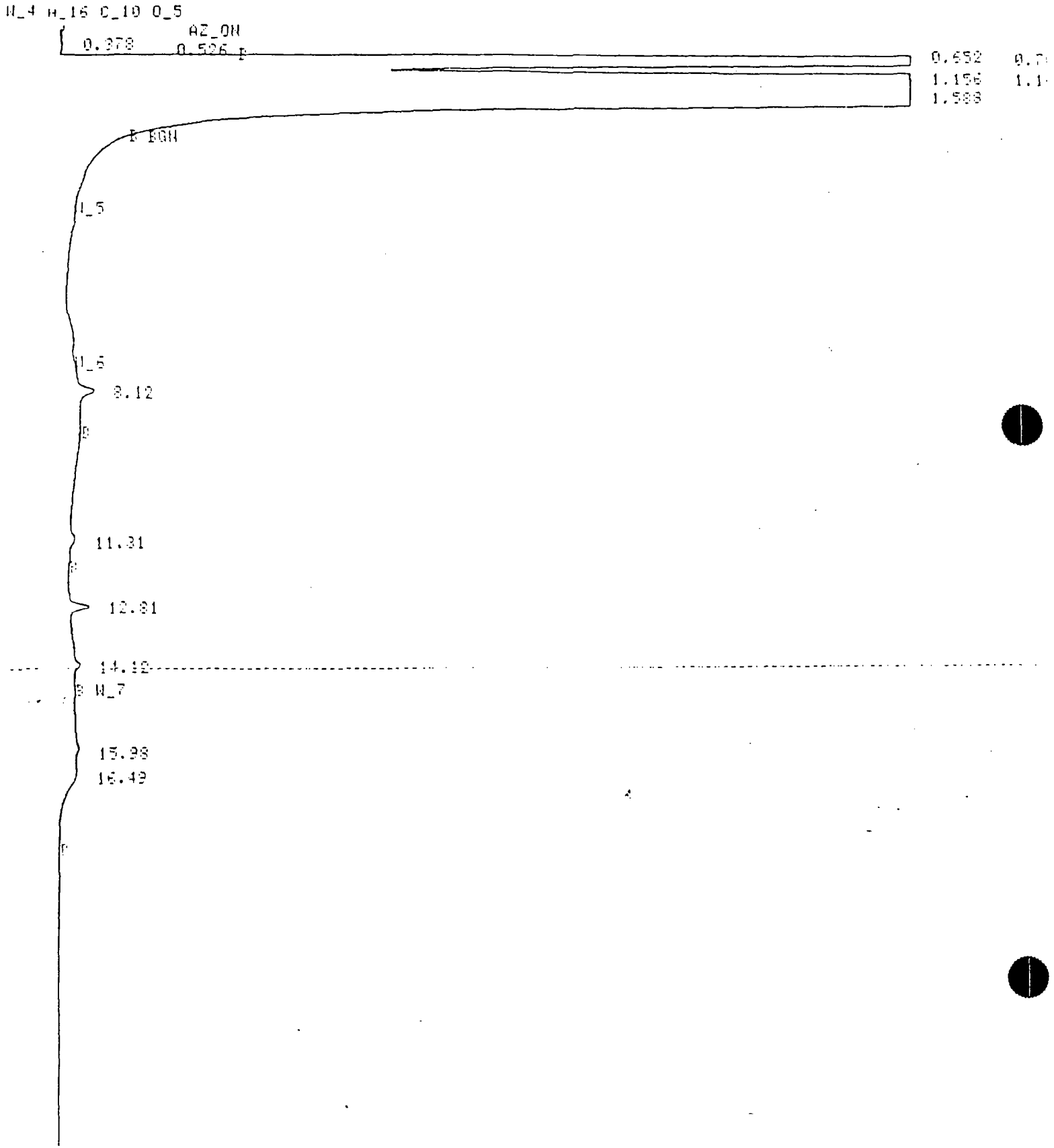
6 PEAKS : AREA REJECT 90627 TOTAL AREA
7 PEAKS : HEIGHT REJECT 8.4098 TOTAL HEIGHT

USER DEFINED EVENTS

TIME	EVENT	VALUE

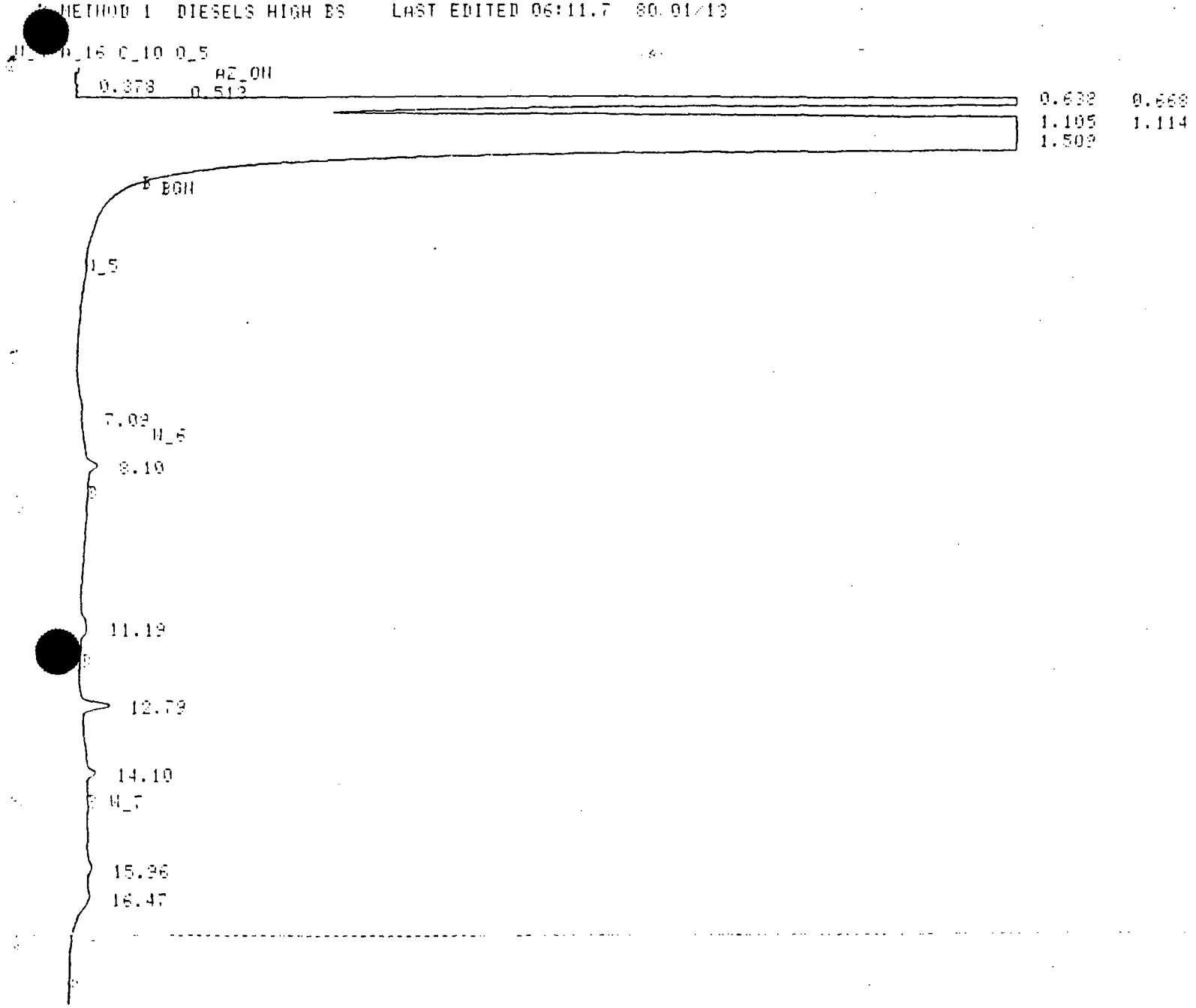
7-092021

FILE 166 RUN 16 STARTED 14:08.8 87/10/09
: METHOD 1 DIESELS HIGH BS LAST EDITED 06:11.7 80/01/13



7092022

FILE 167 RUN 17 STARTED 14:37.9 87/10/09
METHOD 1 DIESELS HIGH BS LAST EDITED 06:11.7 80/01/13

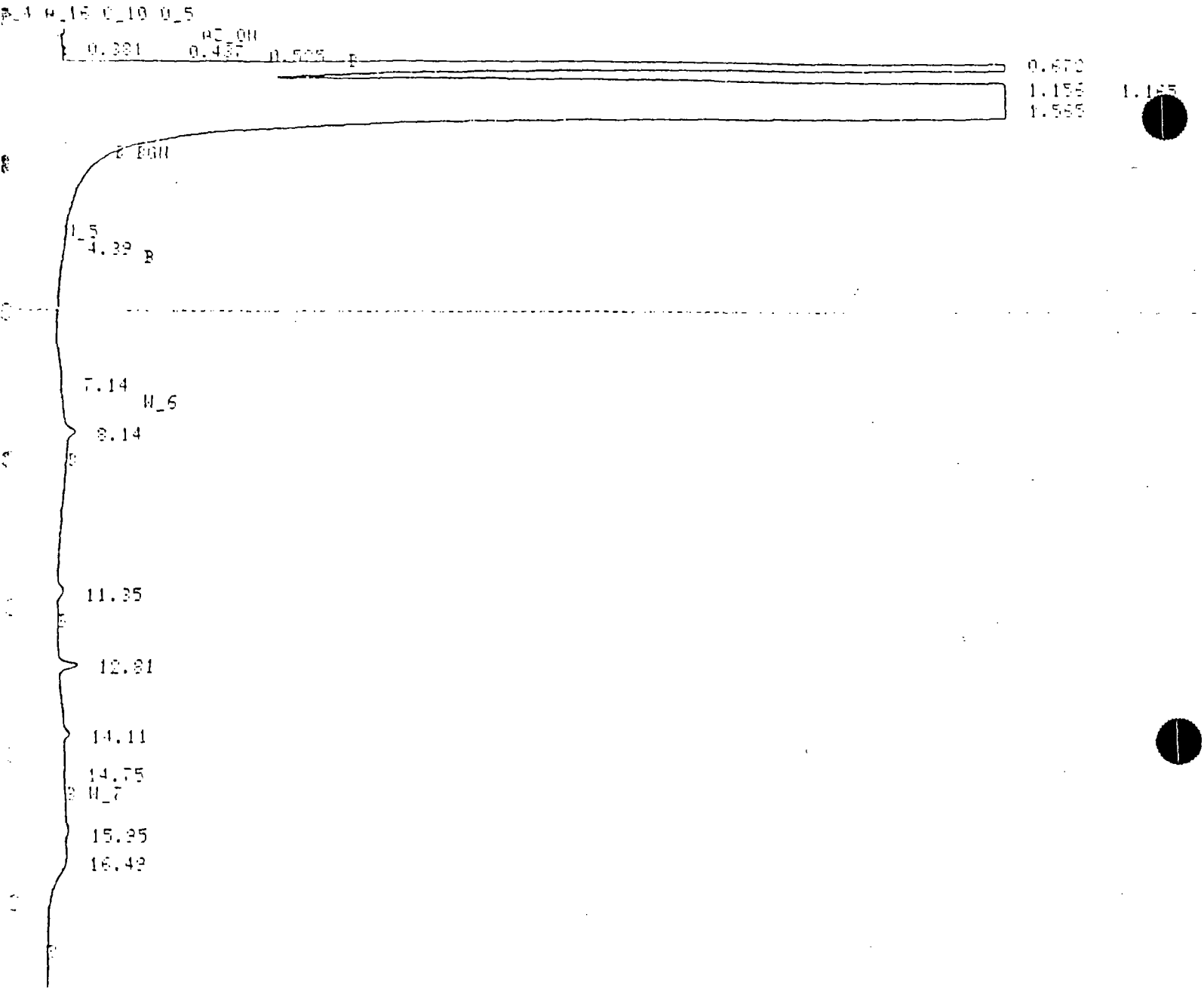


FILE 167 RUN 17 STARTED 14:37.9 87/10/09
METHOD 1 DIESELS HIGH BS LAST EDITED 06:11.7 80/01/13

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
7.09	1041	0.1173	V	0.9287	1.1167
8.10	22942	1.7828		20.4660	16.9795
11.19	19873	0.8753		17.7282	8.3369
12.79	41489	4.6765	V	37.0105	44.5390
14.[illegible]	13809	1.5138		12.3187	14.4175
15.[illegible]	12945	0.8392	V	11.5480	7.9929
16.47		0.6948			6.6174

6 PEAKS > AREA REJECT 112098 TOTAL AREA
7 PEAKS > HEIGHT REJECT 10.4997 TOTAL HEIGHT

METHOD 1 DIESELS HIGH BS LAST EDITED 06:11.7 80/01 13



SAMPLE 168 RUN 18 STARTED 14:58.1 87/10/09
METHOD 1 DIESELS HIGH BS LAST EDITED 06:11.7 80/01/13

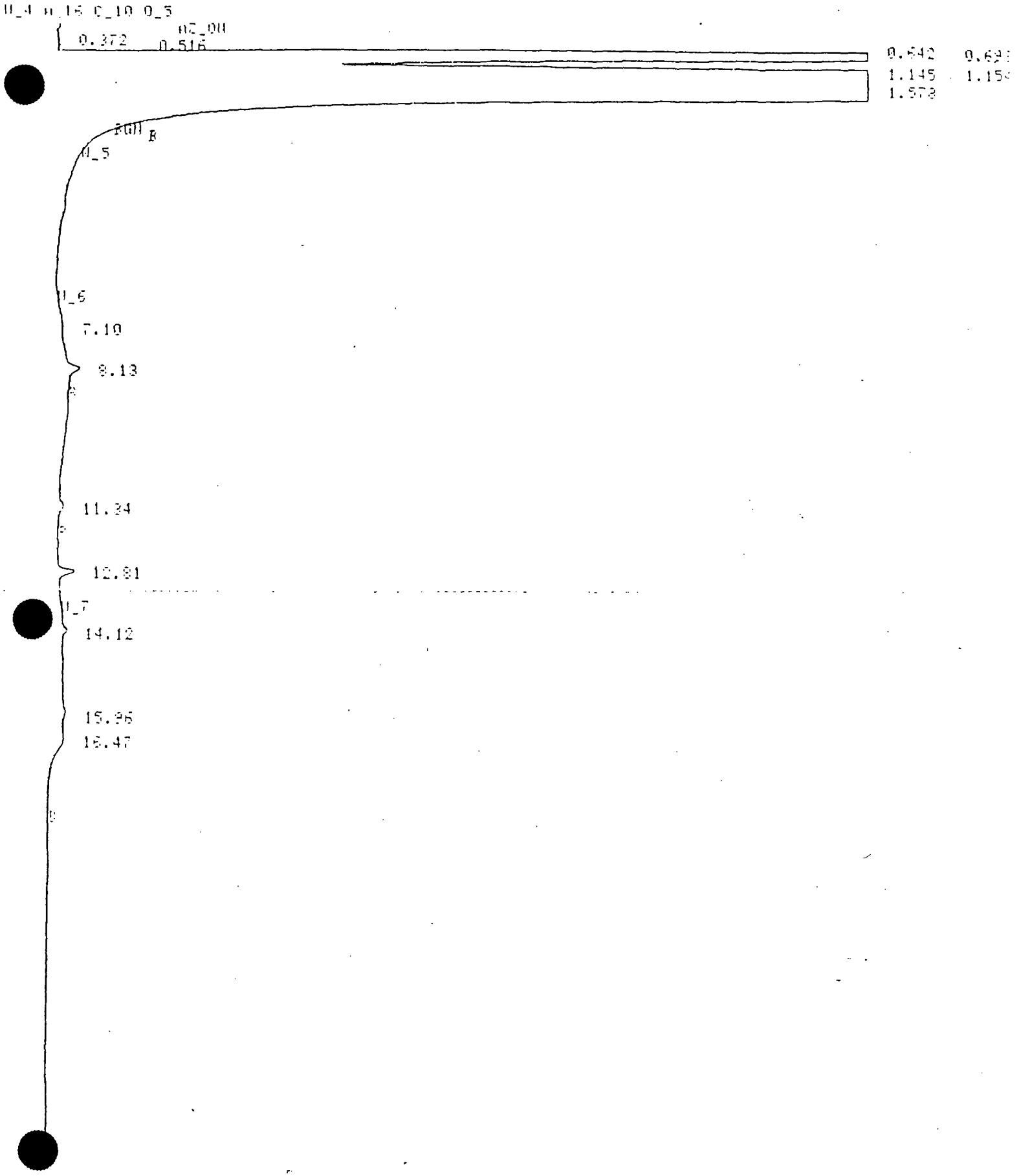
RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
.39	1391	0.1338		1.6442	1.6852
.14	1143	0.1113	V	1.3505	1.4021
4.14	28131	1.7566		33.2514	22.1253
.35	13315	0.8997		15.7382	11.3326
.81	24316	3.0049	V	28.7419	37.8486
.11	8426	0.9143	V	9.9599	11.5161
.75	534	0.0799		0.6307	1.0062
.35	7346	0.4942	V	8.6833	6.2253
.42		0.5445			6.8586

0 PEAKS : AREA REJECT 84600 TOTAL AREA
0 PEAKS : HEIGHT REJECT 7.9399 TOTAL HEIGHT

POWER DIRECTED EVENTS
TIME EVENT VALUE
0.000 Stop Data

FILE 169 RUN 19 STARTED 15:18.3 87/10/09
% METHOD 1 DIESELS HIGH BS LAST EDITED 06:11.7 80/01/13

7092024

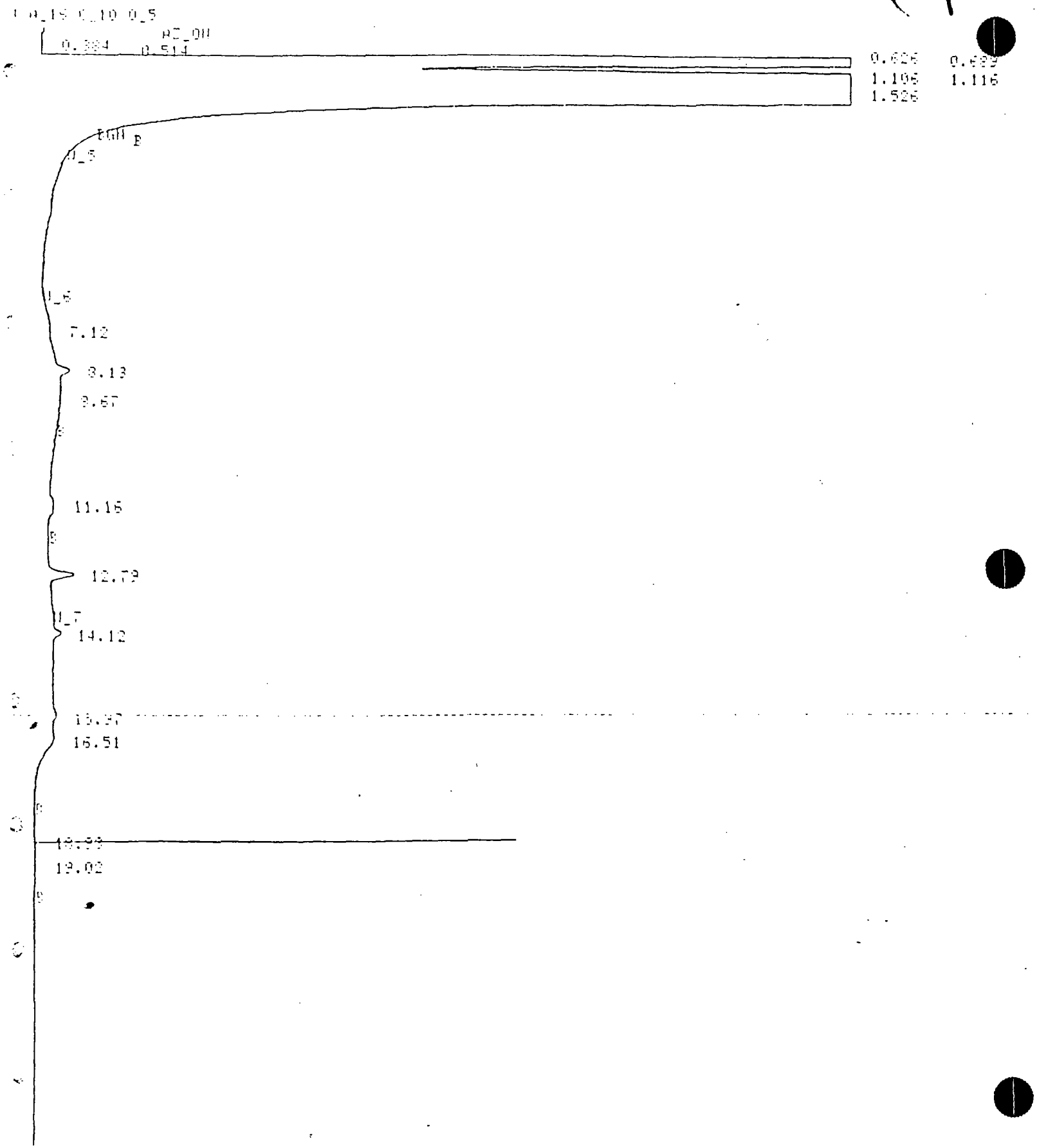


FILE 169 RUN 19 STARTED 15:18.3 87/10/09
% METHOD 1 DIESELS HIGH BS LAST EDITED 06:11.7 80/01/13

RT	AREA	HEIGHT BC	AREA PERCENT	HEIGHT PERCENT
7.10	1718	0.1918 H	[illegible]	[illegible]

FILE 179 RUN 9 STARTED 09:52.0 87 10 09
METHOD 1 DIESELS HIGH BS LAST EDITED 06:11.7 80 01 13

#7012021 (Duplica

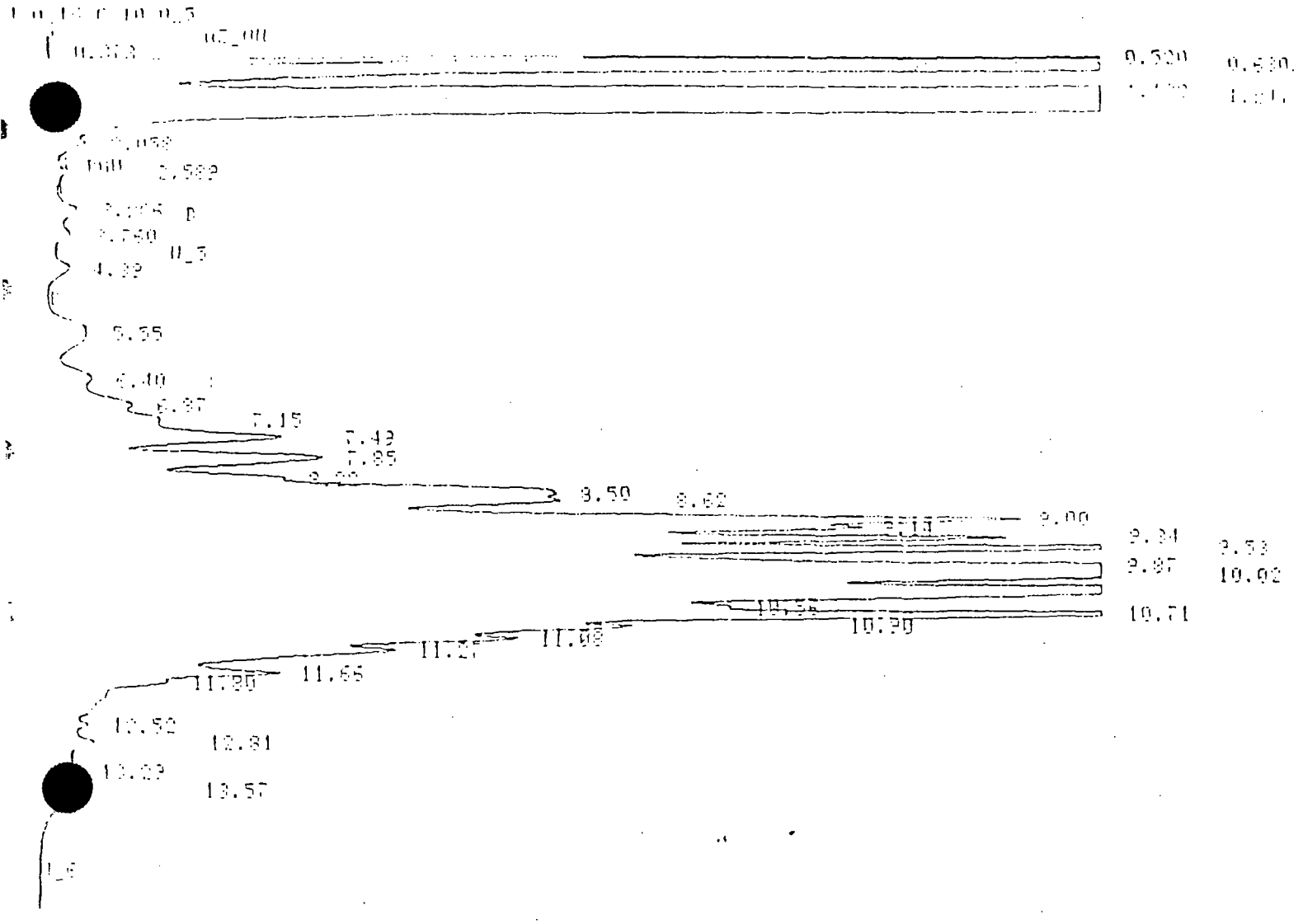


FILE 179 RUN 9 STARTED 09:52.0 87 10 09
METHOD 1 DIESELS HIGH BS LAST EDITED 06:11.7 80 01 13

	AREA	WEIGHT BS	AREA PERCENT	WEIGHT PERCENT

FILE 155 RUN 5 STARTED 23:31.7 87/10/08
METHOD 1 DIESELS HIGH BS LAST EDITED 06:11.7 80/01/13

7092021 + spike



FILE 155 RUN 5 STARTED 23:31.7 87/10/08
METHOD 1 DIESELS HIGH BS LAST EDITED 06:11.7 80/01/13

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
[illegible]	17479	1.6125		0.3989	0.2745
286	12914	1.5925		0.2947	0.2711
760	5473	0.7528	V	0.1249	0.1282
39	34308	2.4022		0.7829	0.4090
55	146533	4.8239	V	3.3440	0.8212
40	27307	2.1151	V	0.6232	0.3601
[illegible]	[illegible]	[illegible]	V	0.2806	[illegible]
15	15199	1.7880	V	0.3468	0.3044
49	233681	20.1956	V	5.3329	3.4381
85	311358	25.2079	V	7.1055	4.2914
22	19594	2.9139	V	0.4472	0.4961
50	147719	8.2737	V	3.3711	1.4085
62	48824	8.4372	V	1.1142	1.4364
90	319491	43.8212	V	7.2911	7.4602
11	56569	12.3351	V	1.2910	2.0999
34	274800	47.2464	V	6.2712	8.0433
53	614071	104.9910	V	14.0136	17.8738
37	141398	29.1128	V	3.2268	4.9562
32	159499	22.9763	V	3.6399	3.9115
29	779347	76.1182	V	17.7854	12.9585
[illegible]	6635	1.6559	V	0.1514	0.2819
1	646600	109.3858	V	14.7560	18.6220
[illegible]	51695	11.9767	V	1.1795	[illegible]
[illegible]	[illegible]	[illegible]	V	[illegible]	[illegible]

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 09/25/87
Date Received: 09/28/87
Date Reported: 10/13/87
Project No. JCO-104H

Q.C. DATA REPORT

Analyst: K. Keeley
Date of Analysis: 10/09/87
Method of Analysis: EPA 601/602
Detection Limit: 0.5
Units: ppb

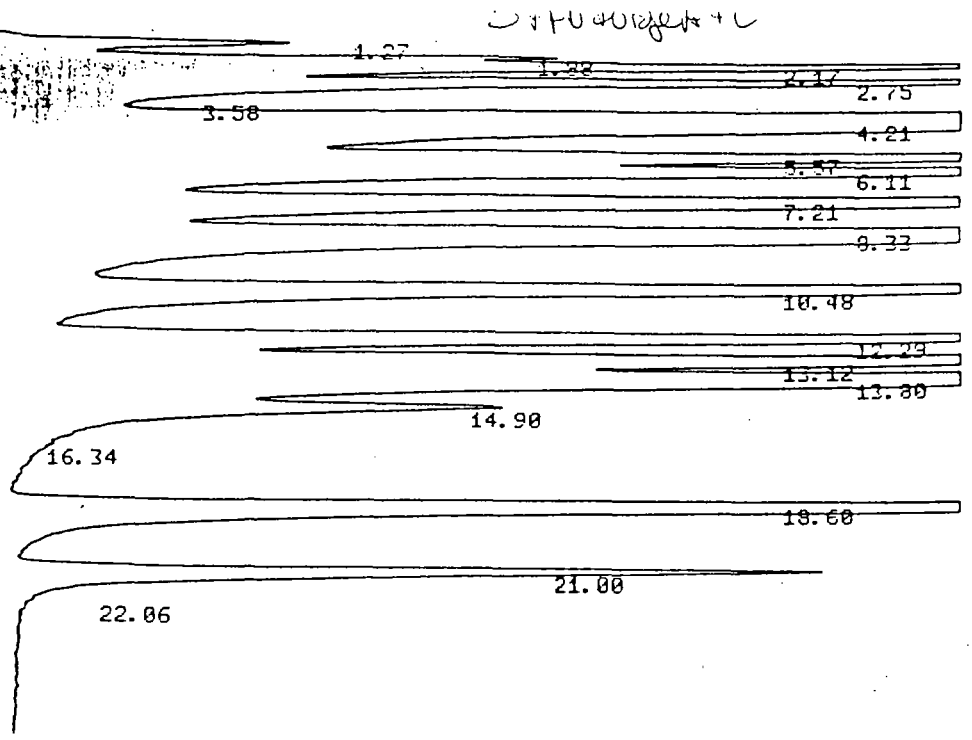
Sample Number	Analyte	Original Result	Duplicate Result	% Deviation
7092018	11 DCA	310	300	1.6
	111 TCA	30	31	1.6

Sample Number	Analyte	Sample Contribution	Spike Added	Spike Result	% Recovery
7092015	Benzene	< 0.5	5.0	4.8	96

SEQUOIA ANALYTICAL LABORATORY

Scot Cocanour

Arthur G. Burton
Laboratory Director



HALL 10/09/87 20:07:35 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 304 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	1.27	1608739	02	
2	0.	1.88	1938421	02	
3	0.	2.17	6015002	02	
4	0.	2.75	7580212	02	
5	0.	3.58	233239	02	
6	0.	4.21	64036629	08	
7	0.	5.57	6429528	06	
8	0.	6.11	7453082	06	
9	0.	7.21	10516144	06	
10	0.	8.33	17926460	07	
11	0.	10.48	11763663	08	
12	0.	12.29	9080170	06	
13	0.	13.12	11853032	06	
14	0.	13.8	17601566	06	
15	0.	14.9	4006874	06	
16	0.	16.34	68987	07	
17	0.	18.6	13786490	01	
18	0.	21.	4663052	08	
19	0.	22.06	1777	05	
TOTALS	0.		196563067		

INPUT OVERRANGE AT RT= 5.68

PID 10/09/87 20:07:35 CH= "B" PS= 1.

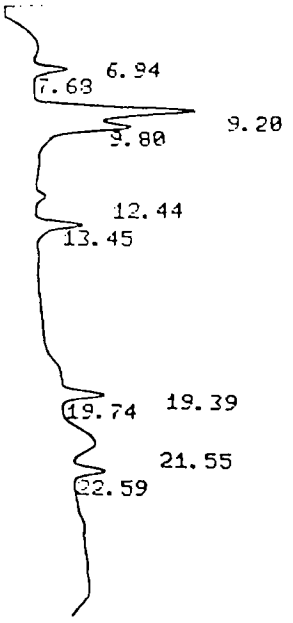
FILE 1. METHOD 5. RUN 297 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	9.24	324398	01	
2	0.	12.98	89668	01	
3	0.	14.78	24406	01	
4	0.	18.49	81889	01	
5	0.	20.88	184374	01	
TOTALS	0.		704724		

093

3 ppb Forgeable Mix B



119

INPUT OVERRANGE AT RT= 5.62

PID 10/09/87 09:01:26 CH= "B" PS= 1.

FILE 1. METHOD 5. RUN 317 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	6.94	155173	02	
2	0.	7.68	165472	03	
3	0.	9.2	1012900	02	
4	0.	9.8	650734	03	
5	0.	12.44	40581	01	
6	0.	13.45	223205	01	
7	0.	19.39	100032	02	
8	0.	19.74	225272	03	
9	0.	21.55	388192	02	
10	0.	22.59	156264	03	
TOTALS	0.		3117825		

HALL 10/09/87 09:01:26 CH= "A" PS= 1.

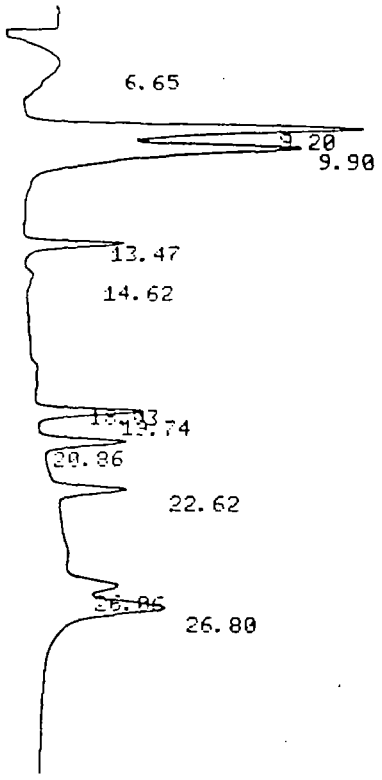
FILE 1. METHOD 5. RUN 324 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	3.73	351201	02	
2	0.	4.08	11161982	08	
3	0.	5.17	157489	06	
4	0.	5.3	457866	07	
5	0.	6.6	700	05	
6	0.	7.81	9380705	02	
7	0.	8.56	1060588	02	
8	0.	9.01	11241486	02	
9	0.	10.11	10844735	02	
10	0.	10.99	7808252	02	
11	0.	11.89	159517	02	
12	0.	12.57	9554562	02	
13	0.	13.87	4605732	02	
14	0.	14.64	210065	02	
15	0.	14.83	227737	03	
16	0.	16.47	1024168	02	
17	0.	16.91	64495	02	
18	0.	17.	170717	03	
19	0.	18.57	13285045	02	
20	0.	19.4	2721560	02	
21	0.	19.74	6018426	02	
22	0.	20.49	983133	02	
23	0.	21.61	31950443	02	
24	0.	23.26	105649	03	

CHANNEL B INJECT 10/09/87 08:09:09

5 ppb Aromatic mix
10 ppb MEK



INPUT OVERRANGE AT RT= 5.6

PID 10/09/87 08:09:09 CH= "B" PS= 1.

FILE 1. METHOD 5. RUN 316 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	6.65	402463	01	
2	0.	9.2	2162369	02	
3	0.	9.9	2254006	03	
4	0.	13.47	415576	01	
5	0.	14.62	57208	01	
6	0.	18.03	69067	02	
7	0.	19.74	460365	02	
8	0.	20.86	381440	03	
9	0.	22.62	339103	01	
10	0.	26.06	422809	02	
11	0.	26.8	1009267	03	
TOTALS	0.		7973678		

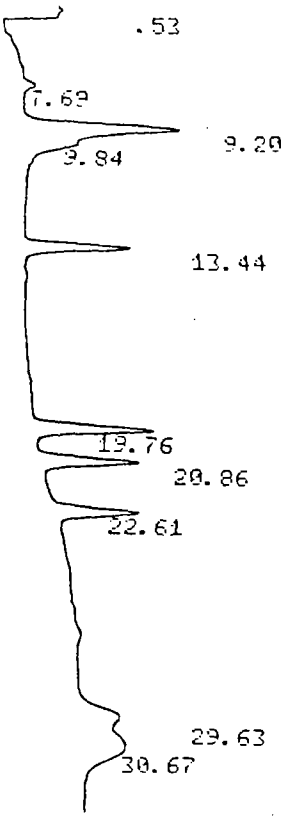
HALL 10/09/87 08:09:09 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 323 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	4.16	119356469	03	
2	0.	6.24	197079	06	
3	0.	6.48	1026596	07	
4	0.	8.99	25690057	05	
5	0.	13.12	211433	05	
6	0.	18.6	48460	01	
7	0.	20.98	9469857	01	
TOTALS	0.		155989950		

CHANNEL B INJECT 10/09/87 09:01:26



7092015 5ppb Acetone MEK
5 ppb MEK spike

INPUT OVERRANGE AT RT= 5.64

PID 10/09/87 09:45:20 CH= "B" PS= 1.

FILE 1. METHOD 5. RUN 266 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	0.53	198062	01	
2	0.	7.69	41231	01	
3	0.	9.2	1028270	02	
4	0.	9.84	220416	03	
5	0.	13.44	407396	01	
6	0.	19.76	483587	01	
7	0.	20.86	419283	01	
8	0.	22.61	361736	01	
9	0.	29.63	280239	02	
10	0.	30.67	658672	03	
TOTALS	0.		4198892		

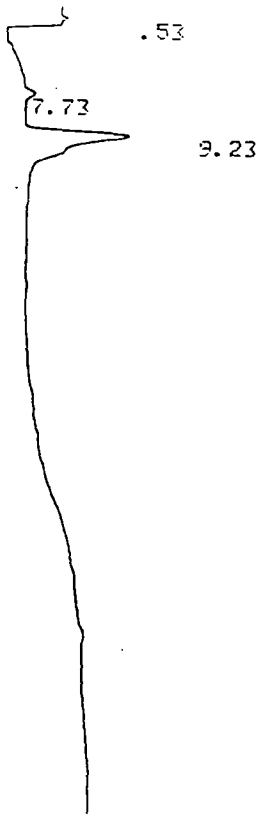
HALL 10/09/87 09:45:20 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 272 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	2.21	338251	02	
2	0.	3.64	229595	02	
3	0.	4.09	24467990	08	
4	0.	5.4	68616	05	
5	0.	6.09	2682222	06	
6	0.	7.17	19458934	06	
7	0.	7.8	5866507	06	
8	0.	8.58	4922491	06	
9	0.	9.01	1606154	06	
10	0.	10.09	1100806	07	
11	0.	13.08	523336	01	
12	0.	18.58	156417	01	
13	0.	20.38	10525034	01	

6.1 7092015.



7092015

INPUT OVERRANGE AT RT= 5.64

FID 10/09/87 10:29:02 CH= "B" PS= 1.

FILE 1. METHOD 5. RUN 267 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	0.53	9639	01	
2	0.	7.73	37785	01	
3	0.	9.23	835672	01	
TOTALS	0.		883096		

HALL 10/09/87 10:29:02 CH= "A" PS= 1.

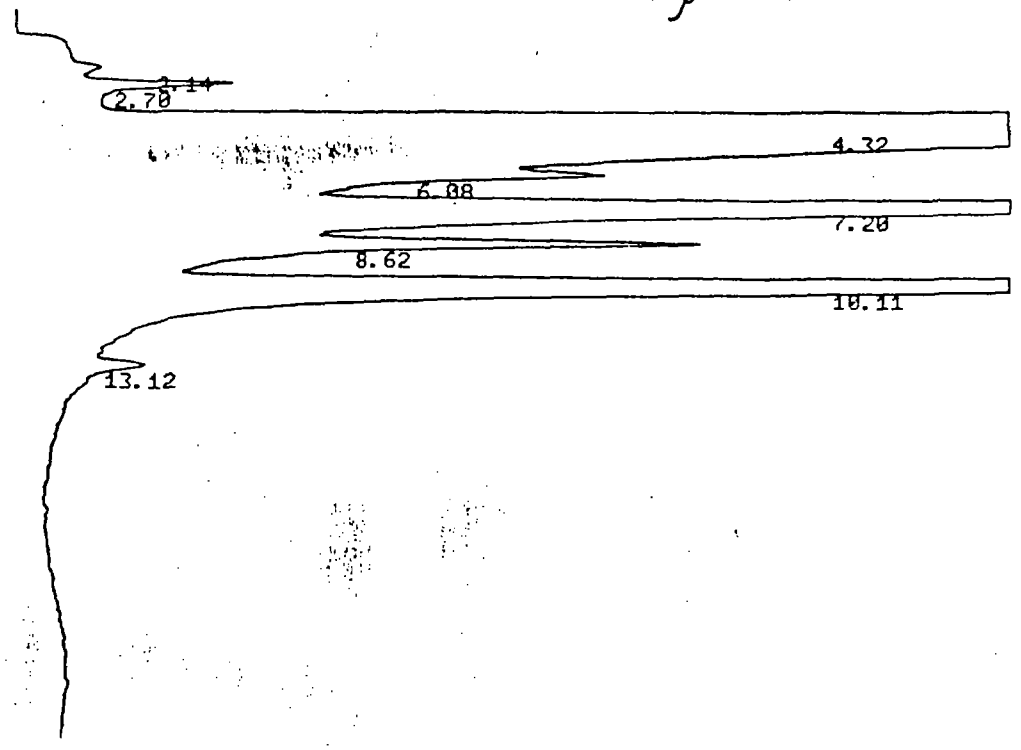
FILE 1. METHOD 5. RUN 273 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	2.16	83976	02	
2	0.	3.37	197279	02	
3	0.	3.6	212752	02	
4	0.	4.12	16386756	08	
5	0.	5.3	1346	05	
6	0.	5.49	29285	05	
7	0.	6.1	2063285	06	
8	0.	6.68	72276	06	
9	0.	7.2	14962960	06	
10	0.	7.84	4362981	06	
11	0.	8.25	452819	06	
12	0.	8.61	1936280	06	
13	0.	9.09	972177	06	
14	0.	10.13	827207	07	
15	0.	13.12	432599	01	
16	0.	18.58	76849	01	
TOTALS	0.		43071927		

Smpl # 7092016.

CHANNEL A INJECT



HALL CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 339 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	2.14	160695	02	
2	0.	2.7	862669	02	
3	0.	4.32	119696708	08	
4	0.	6.08	565281	05	
5	0.	7.2	18849125	06	
6	0.	8.62	2902026	06	
7	0.	10.11	21959174	07	
8	0.	13.12	279740	05	
TOTALS	0.		165275418		

INPUT OVERRANGE AT RT= 4.7

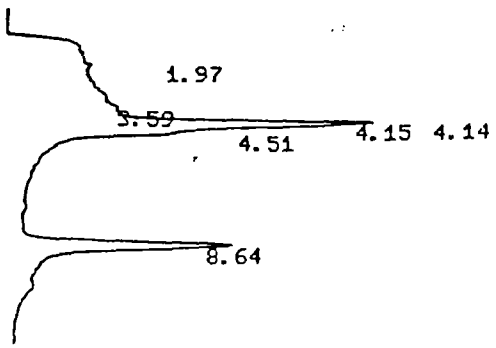
PID CH= "B" PS= 1.

FILE 1. METHOD 5. RUN 332 INDEX 1

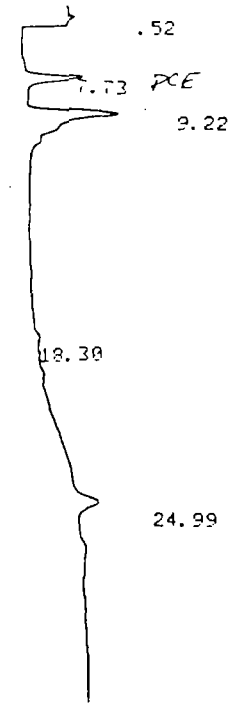
ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	9.29	130860	01	
TOTALS	0.		130860		

CHANNEL A INJECT 10/09/87 20:50:22



7092017



INPUT OVERRANGE AT RT= 5.74

PID 10/09/87 12:44:13 CH= "B" PS= 1.

FILE 1. METHOD 5. RUN 270 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	0.52	12618	01	
2	0.	7.73	257353	01	
3	0.	9.22	742561	01	
4	0.	18.3	1917749	02	
5	0.	24.99	751692	03	
TOTALS	0.		3681973		

HALL 10/09/87 12:44:12 CH= "A" PS= 1.

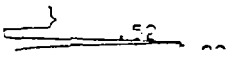
FILE 1. METHOD 5. RUN 276 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	1.55	307228	02	
2	0.	1.58	14872	02	
3	0.	1.68	7677	03	
4	0.	1.96	14016	02	
5	0.	2.19	1374565	02	
6	0.	2.82	343029	02	
7	0.	2.91	384899	02	
8	0.	3.44	846001	02	
9	0.	3.56	279263	02	
10	0.	4.42	18633577	08	
11	0.	6.11	2677258	06	
12	0.	7.21	25551653	06	
13	0.	7.85	27379757	06	
14	0.	9.08	536672	06	
15	0.	9.6	22214	06	
16	0.	10.1	3627242	06	
17	0.	11.28	54191	06	
18	0.	11.54	7024	07	
19	0.	11.73	364	05	
20	0.	12.03	1090	05	
21	0.	13.14	725127	06	
22	0.	13.88	64307	07	
23	0.	18.56	129042	01	
TOTALS	0.		182987169		

Blnks #7092018.

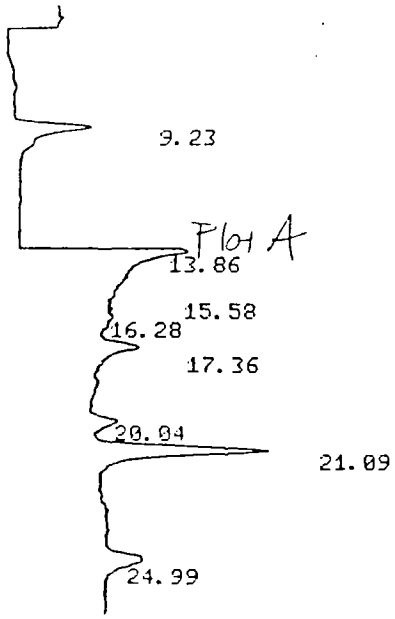
CHANNEL B INJECT 10/09/87 13:24:19



TOTALS 0. [illegible]

CHANNEL B INJECT

7092016
Sml



HALL CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 295 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	0.6	81030	03	
2	0.	2.21	324820	02	
3	0.	2.81	9784845	08	
4	0.	4.19	5788797	06	
5	0.	5.24	189287	06	
6	0.	5.5	149799	06	
7	0.	6.16	4801694	06	
8	0.	7.54	119797986	06	
9	0.	9.05	7508663	06	
10	0.	10.14	10451562	06	
11	0.	12.	246932	06	
12	0.	12.25	531206	06	
13	0.	13.05	412542	06	
14	0.	13.86	793205	06	
15	0.	15.58	201	07	
16	0.	16.28	12830	01	
17	0.	17.36	249446	01	
18	0.	20.04	144770	02	
19	0.	21.09	994594	03	
20	0.	24.99	280376	01	
TOTALS	0.		162544585		

INPUT OVERRANGE AT RT= 5.72

PID CH= "B" PS= 1.

FILE 1. METHOD 5. RUN 289 INDEX 1

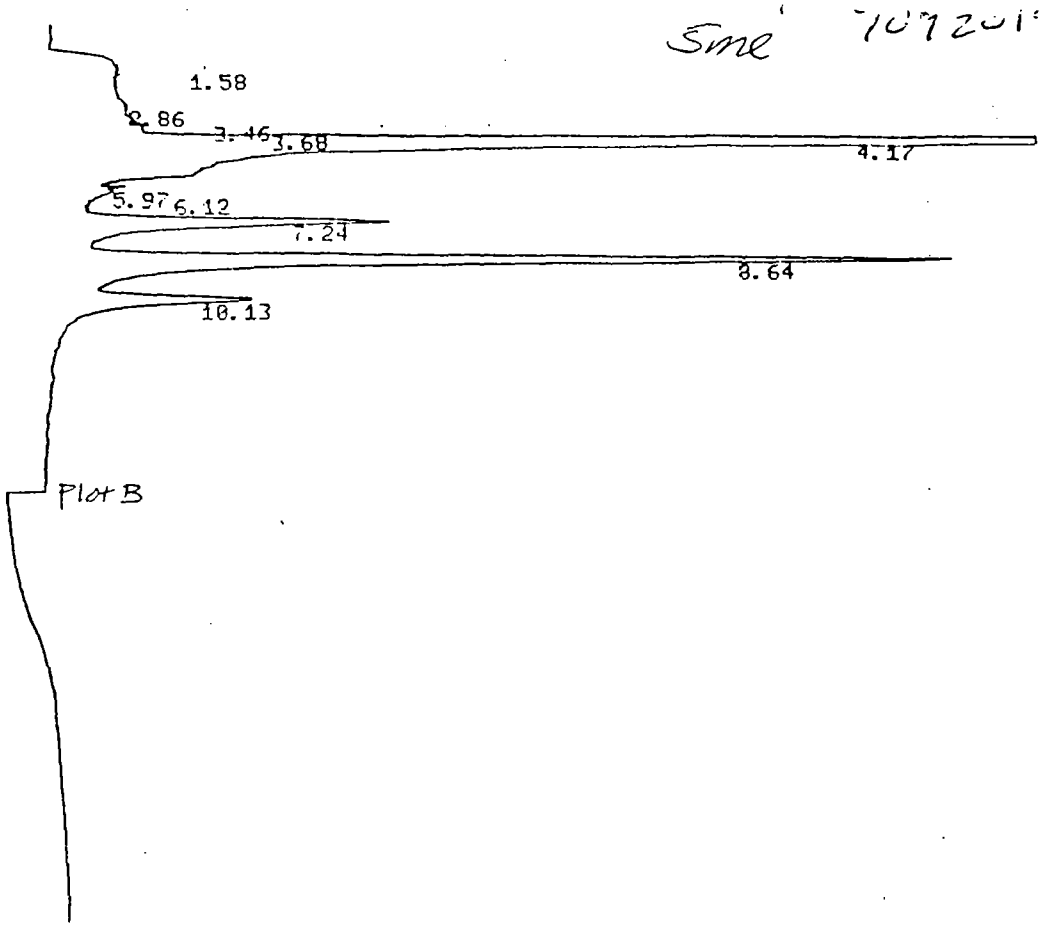
ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	9.23	366738	01	
2	0.	19.79	353389	01	
TOTALS	0.		720127		

7092019
Sml

CHANNEL A INJECT

Sme 7072019



INPUT OVERRANGE AT RT= 5.71

PID CH= "B" PS= 1.

FILE 1. METHOD 5. RUN 298 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	0.52	11944	01	
2	0.	9.24	305585	01	
TOTALS	0.		317529		

HALL CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 296 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	1.58	610972	01	
2	0.	2.86	88427	02	
3	0.	3.46	57663	02	
4	0.	3.68	164796	02	
5	0.	4.17	11776659	08	
6	0.	5.97	25011	06	
7	0.	6.12	39876	07	
8	0.	7.24	1753501	02	
9	0.	8.64	5446782	08	
10	0.	10.13	938930	05	
11	0.	18.62	278278	01	
TOTALS	0.		21180895		

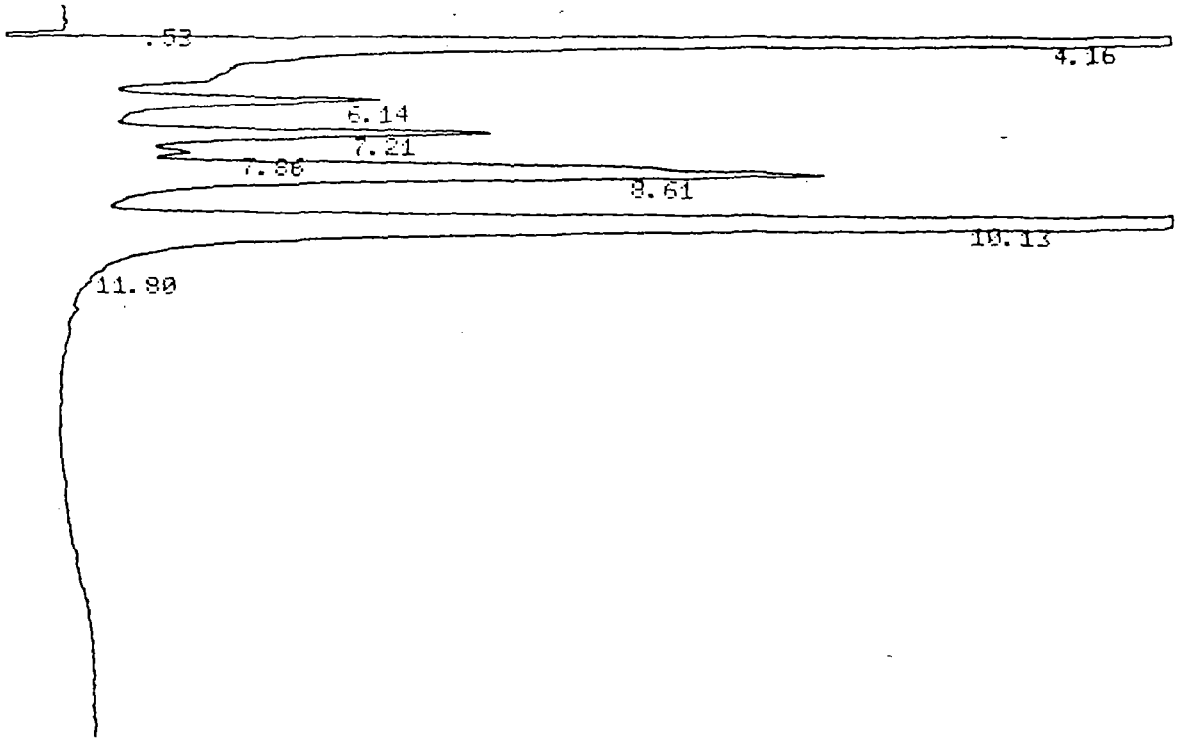
DATE"10/9/97
TIME"15:52:00
15:52:02

HALL CH= "A" PS= 1.

034

1014020
SMC

CHANNEL B INJECT 10/09/87 15:54:06



HALL 10/09/87 15:54:06 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 298 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	3.26	115454	02	
2	0.	3.6	146733	02	
3	0.	4.16	12623708	08	
4	0.	6.14	1106722	06	
5	0.	7.21	1715453	06	
6	0.	7.86	286080	06	
7	0.	8.61	5582092	06	
8	0.	10.13	15464954	06	
9	0.	11.8	24663	07	
TOTALS	0.		37065859		

INPUT OVERRANGE AT RT= 5.73

PID 10/09/87 15:54:06 CH= "B" PS= 1.

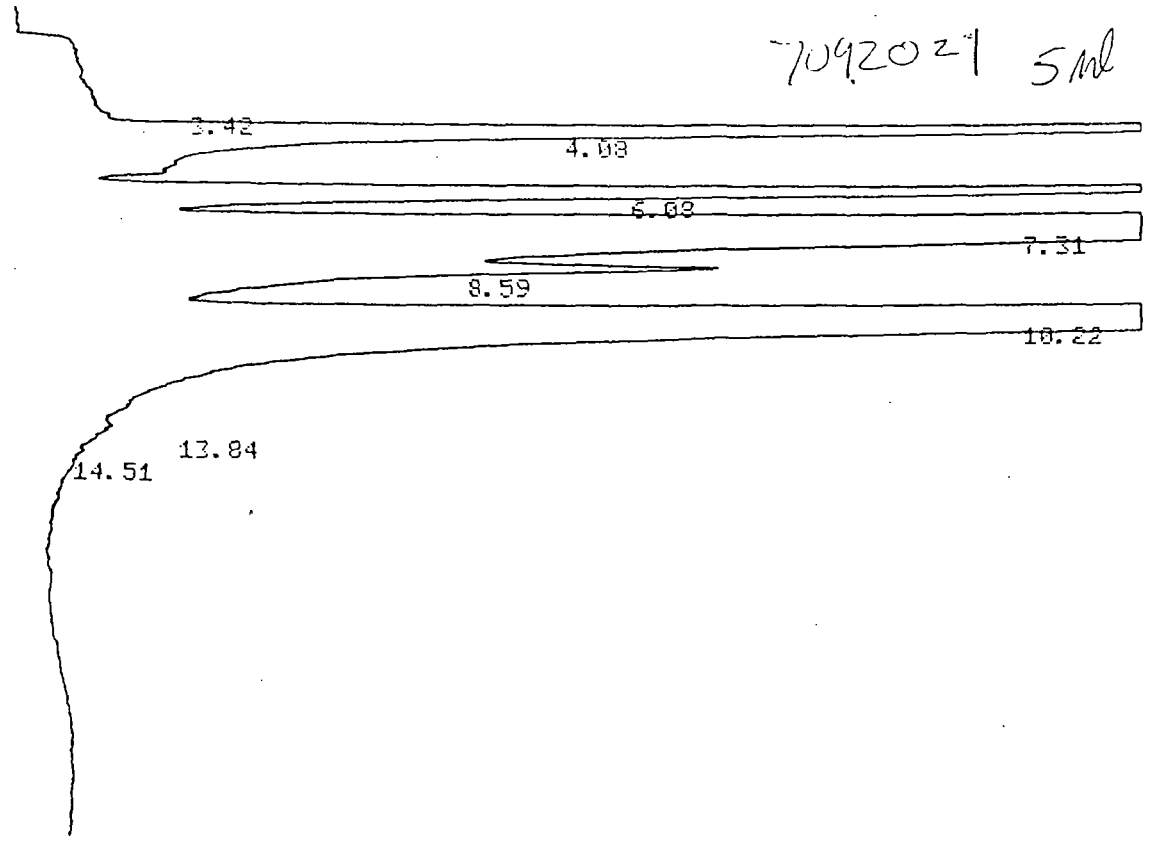
FILE 1. METHOD 5. RUN 291 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	0.53	226379	01	
2	0.	9.24	228772	01	
3	0.	13.46	197588	01	
TOTALS	0.		652739		

CHANNEL A INJECT 10/09/87 16:45:31

7092021 5ml



HALL 10/09/87 16:45:31 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 299 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	3.42	106719	02	
2	0.	4.08	10881534	02	
3	0.	6.08	8507973	02	
4	0.	7.31	73642143	02	
5	0.	8.59	5215724	02	
6	0.	10.22	78473145	02	
7	0.	13.84	465483	02	
8	0.	14.51	271316	03	
TOTALS	0.		177564037		

PLOT "B" AUTO

ER 0

INPUT OVERRANGE AT RT= 5.59

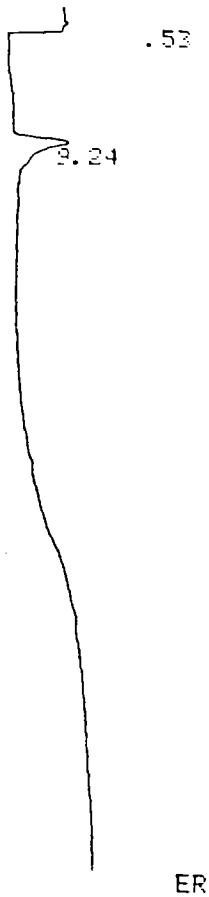
PID 10/09/87 16:45:31 CH= "B" PS= 1.

FILE 1. METHOD 5. RUN 292 INDEX 1

ANALYST: KWK

CHANNEL B INJECT 10/09/87 17:25:41

7/09/2022
5ml



INPUT OVERRANGE AT RT= 5.76

PID 10/09/87 17:25:41 CH= "B" PS= 1.

FILE 1. METHOD 5. RUN 293 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	0.53	224524	01	
2	0.	9.24	364721	01	
TOTALS	0.		589245		

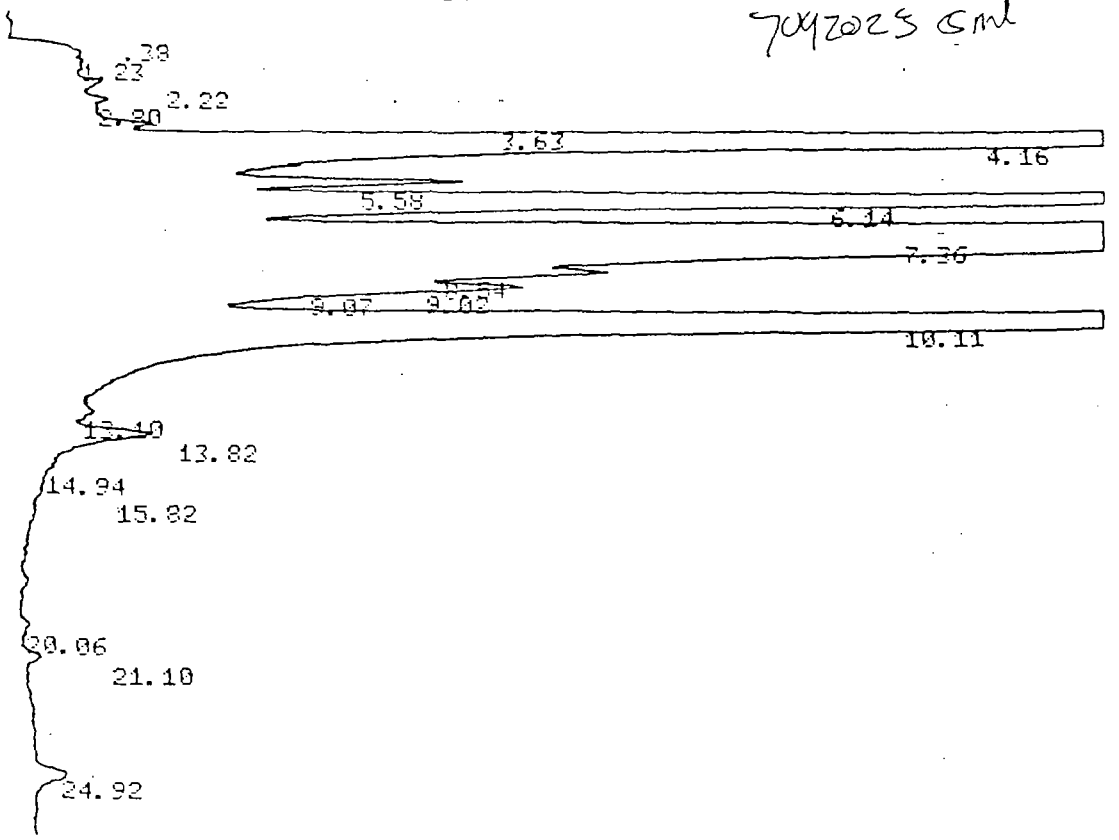
HALL 10/09/87 17:25:41 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 300 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	3.66	32209	02	
2	0.	4.16	7450141	08	
3	0.	5.11	9949	06	
4	0.	5.22	509	07	
5	0.	5.54	203775	01	
6	0.	6.12	491584	01	
7	0.	7.24	10560293	02	
8	0.	8.35	1225958	02	
9	0.	8.63	1186116	02	
10	0.	9.13	84600	03	
11	0.	10.13	6922385	01	
12	0.	12.07	16633	01	

7042025 6ml



HALL 10/09/87 18:03:21 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 301 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	0.38	19284	02	
2	0.	1.23	935918	02	
3	0.	2.22	588357	02	
4	0.	2.8	808003	02	
5	0.	3.63	699093	02	
6	0.	4.16	27300924	02	
7	0.	5.58	2209708	02	
8	0.	6.14	14739325	02	
9	0.	7.36	81179674	02	
10	0.	8.54	2930880	02	
11	0.	9.02	1172500	02	
12	0.	9.07	2508080	02	
13	0.	10.11	34232447	08	
14	0.	13.1	74841	06	
15	0.	13.82	499261	06	
16	0.	15.82	3580	07	
17	0.	20.06	52298	06	
18	0.	21.1	85473	07	
19	0.	24.92	198842	01	
TOTALS	0.		170238488		

INPUT OVERRANGE AT RT= 5.75

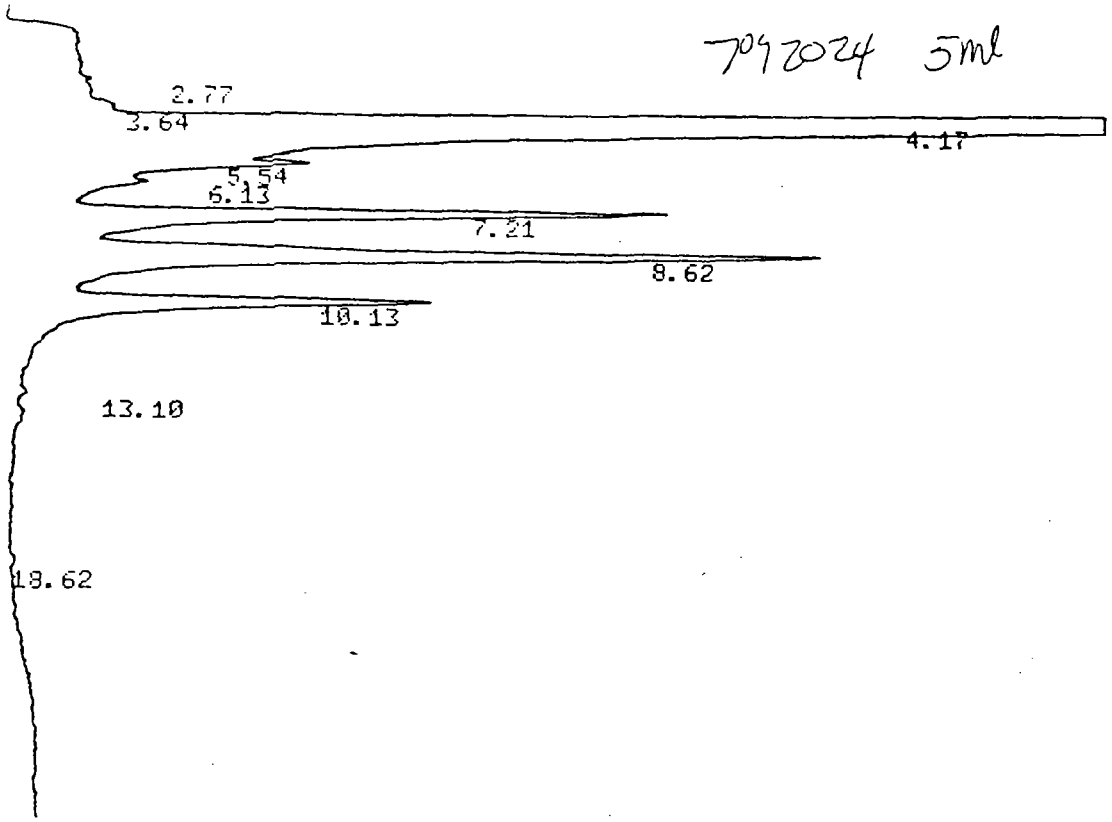
FID 10/09/87 18:03:21 CH= "B" PS= 1.

FILE 1. METHOD 5. RUN 294 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF

7092024 5ml



HALL 10/09/87 18:43:28 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 302 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	2.77	96324	02	
2	0.	3.64	165236	02	
3	0.	4.17	36485424	08	
4	0.	5.54	253453	05	
5	0.	6.13	85596	05	
6	0.	7.21	2999138	06	
7	0.	8.62	4768364	06	
8	0.	10.13	2250336	07	
9	0.	13.1	12684	01	
10	0.	18.62	16054	01	
TOTALS	0.		47132609		

INPUT OVERRANGE AT RT= 5.72

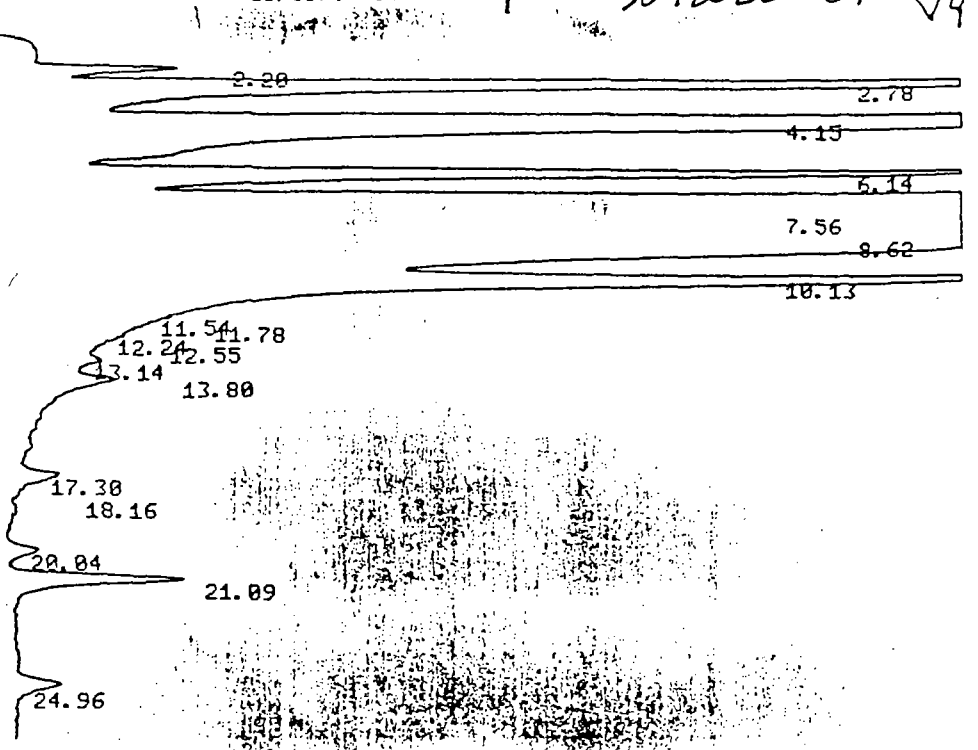
PID 10/09/87 18:43:28 CH= "B" PS= 1.

FILE 1. METHOD 5. RUN 295 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	0.52	12412	01	
2	0.	9.24	304469	01	
TOTALS	0.		316881		

CHANNEL A INJECT 10/09/87 19:23:33 7092025 SMC V4



HALL 10/09/87 19:23:33 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 303 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	2.2	612349	02	
2	0.	2.78	15665469	08	
3	0.	4.15	29940640	06	
4	0.	6.14	5511797	06	
5	0.	7.56	116161258	06	
6	0.	8.62	18381436	06	
7	0.	10.13	10600312	06	
8	0.	11.54	348544	06	
9	0.	11.78	522881	06	
10	0.	12.24	302296	06	
11	0.	12.55	224269	06	
12	0.	13.14	333441	06	
13	0.	13.8	663797	07	
14	0.	17.3	266506	02	
15	0.	18.16	7919	03	
16	0.	20.04	174076	02	
17	0.	21.09	1021699	03	
18	0.	24.96	280707	01	
TOTALS	0.		201019396		

092

INPUT OVERRANGE AT RT= 5.72

PID 10/09/87 19:23:34 CH= "B" PS= 1.

FILE 1. METHOD 5. RUN 296 INDEX 1

ANALYST: KWK

NAME	PPB	RT	AREA	BC	RF
1	0.	9.25	356867	01	
TOTALS	0.		356867		

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 09/25/87
Date Received: 09/28/87
Date Reported: 10/13/87
Project No. JCO-104H

Q.C. DATA REPORT

Analyst: W. Amundson
Date of Analysis: 10/12/87
Method of Analysis: EPA 625
Detection Limit: 10
Units: ppb

Sample Number	Analyte	Original Result	Duplicate Result	% Deviation
7092018	Pentachlor-ophenol	< 10	< 10	0.0

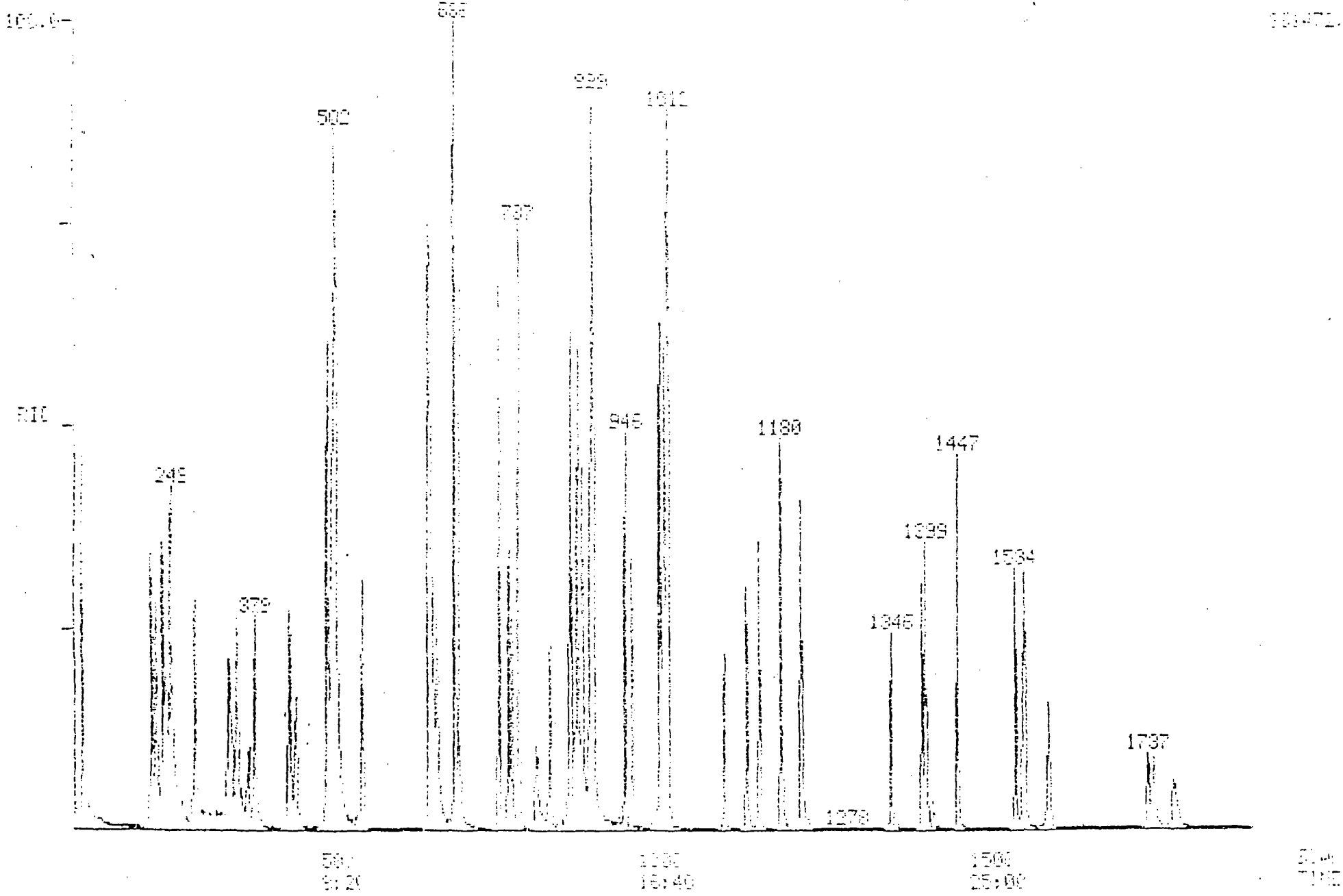
Sample Number	Analyte	Sample Contribution	Spike Added	Spike Result	% Recovery
7092015	4,4-Dibromo-biphenyl	0	20	17	86
	D8-Naphthalene	0	20	15	74
	2-Fluorophenol	0	20	11	57
	Pentafluoro-phenol	0	20	7.4	37

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

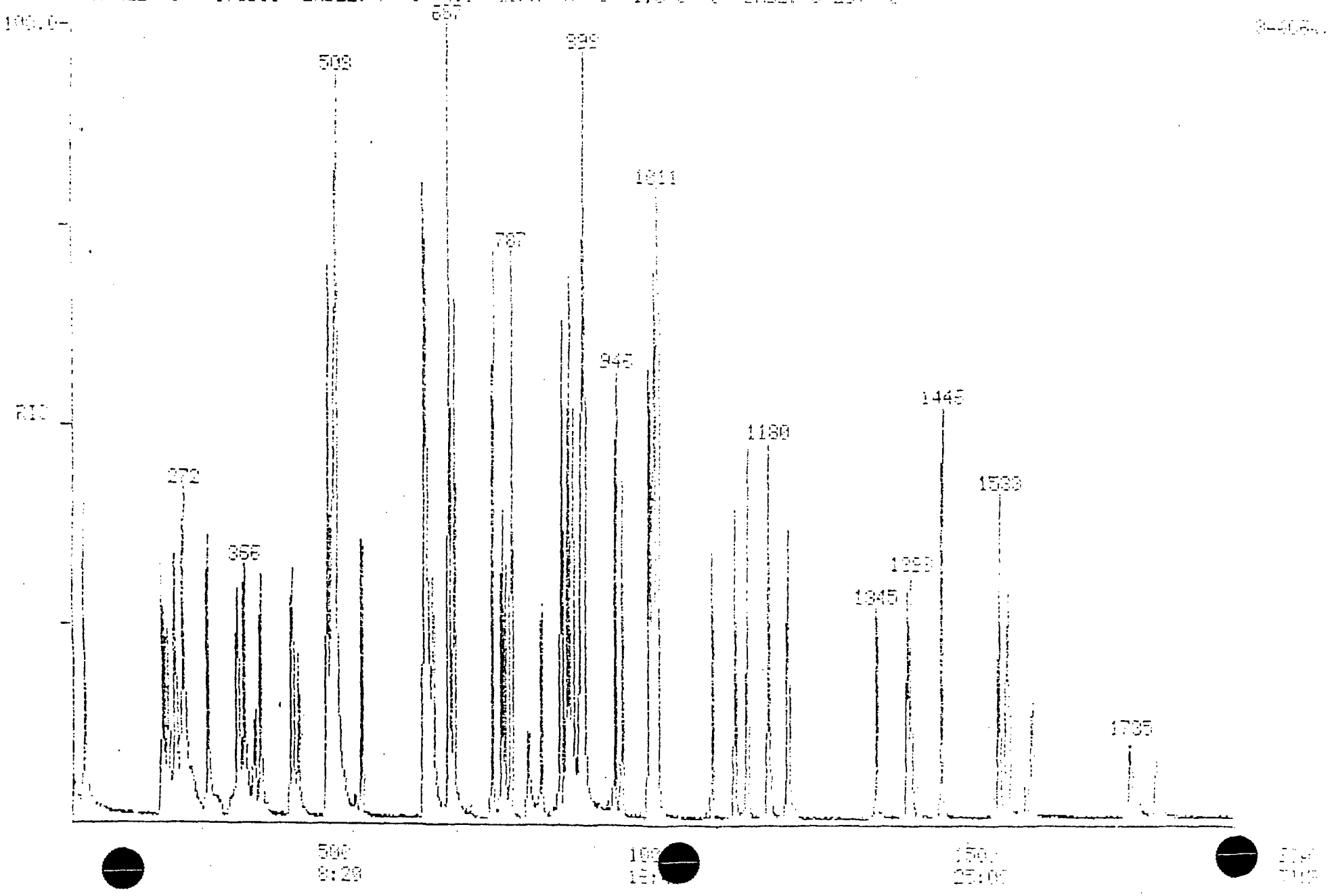
RIC
10/10/87 10:24:00
SAMPLE: BNA STD (40-200NG)
COND.: BNA METHOD

DATA: BNAETD1012 #1 SCANS 100 TO 1900
CAL1: BNAETD1012 #2



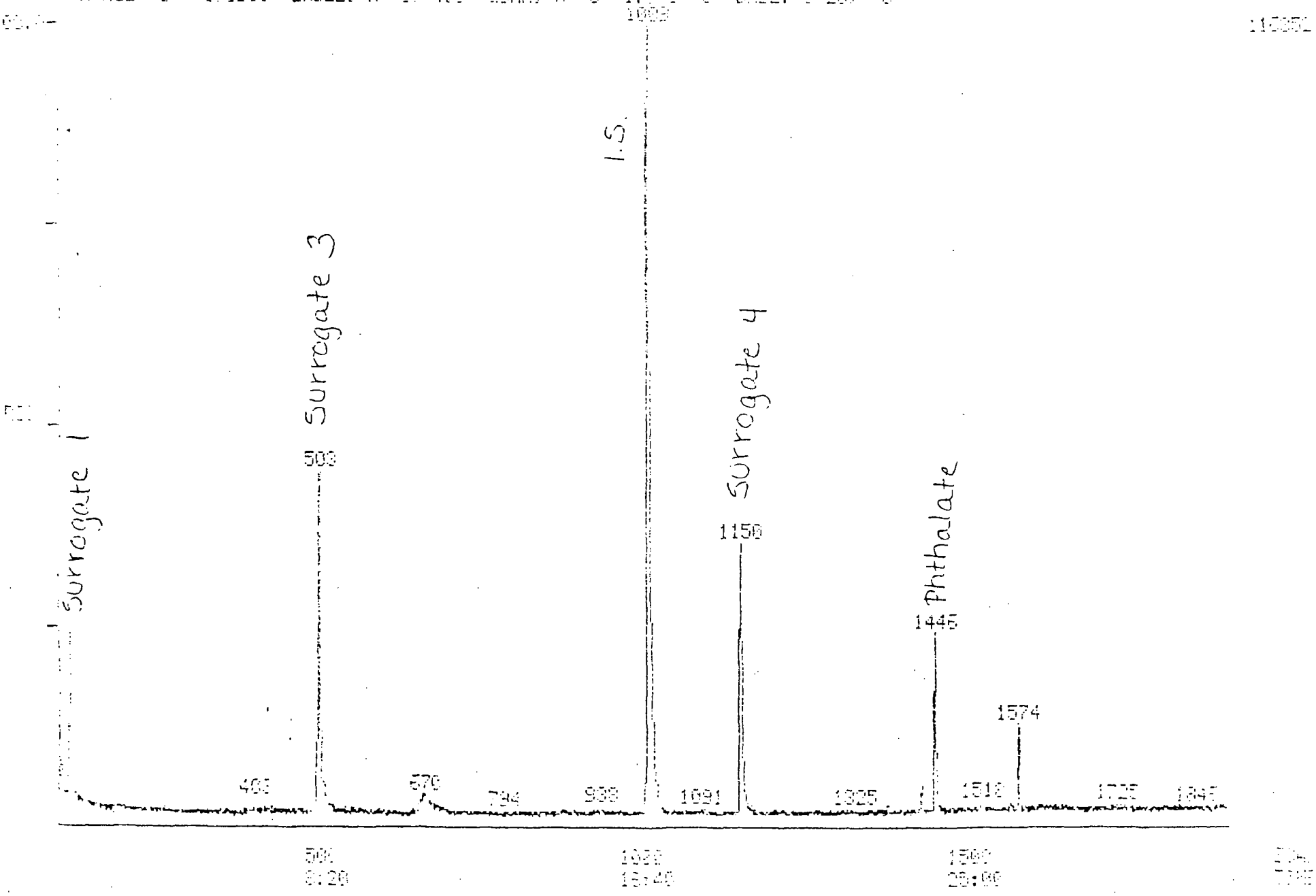
RIC
10/13/87 8:39:00
SAMPLE: BNA STD (40-200UG)
COMMS.: BNA METHOD

DATA: BNASTD1013 #1 SCANS 100 TO 1900
CALI: BNASTD1013 #2



RIC
10/13/87 9:35:06
SAMPLE: BNA METHOD BLANK (1000ML/ML)
CONDS.: BNA METHOD
RANGE: 2 1,1900 LABEL: N 0, 4.0 QUAN: A 0, 1.0 I 0 BASE: U 20, 3

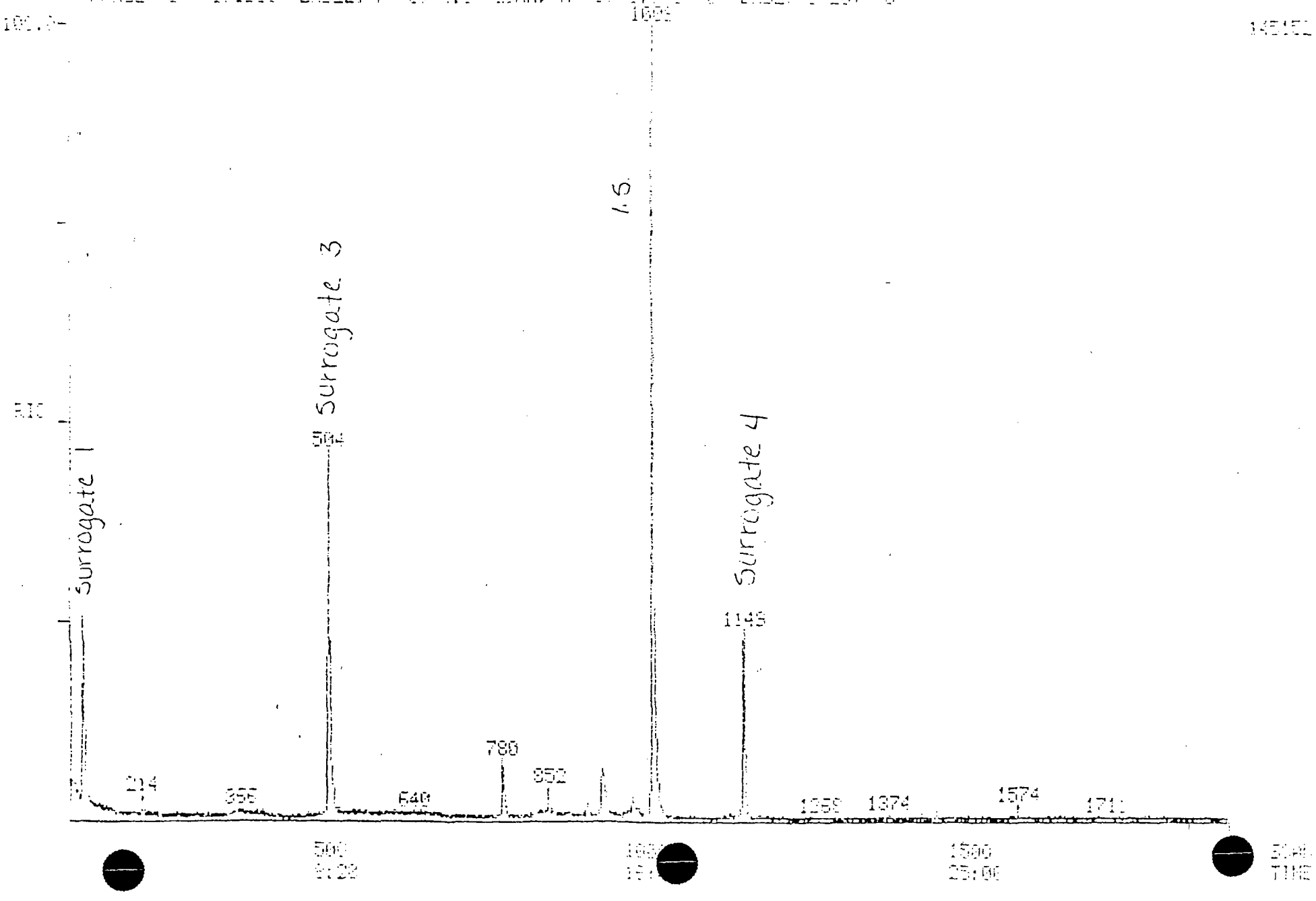
DATA: BNABLK1009 #1574 SCANS 100 TO 1900
CALI: BNABLK1009 #2



RIC
10/12/87 14:14:00
SAMPLE: M-1 (1000ML/ML)
COMPD.: BNA METHOD

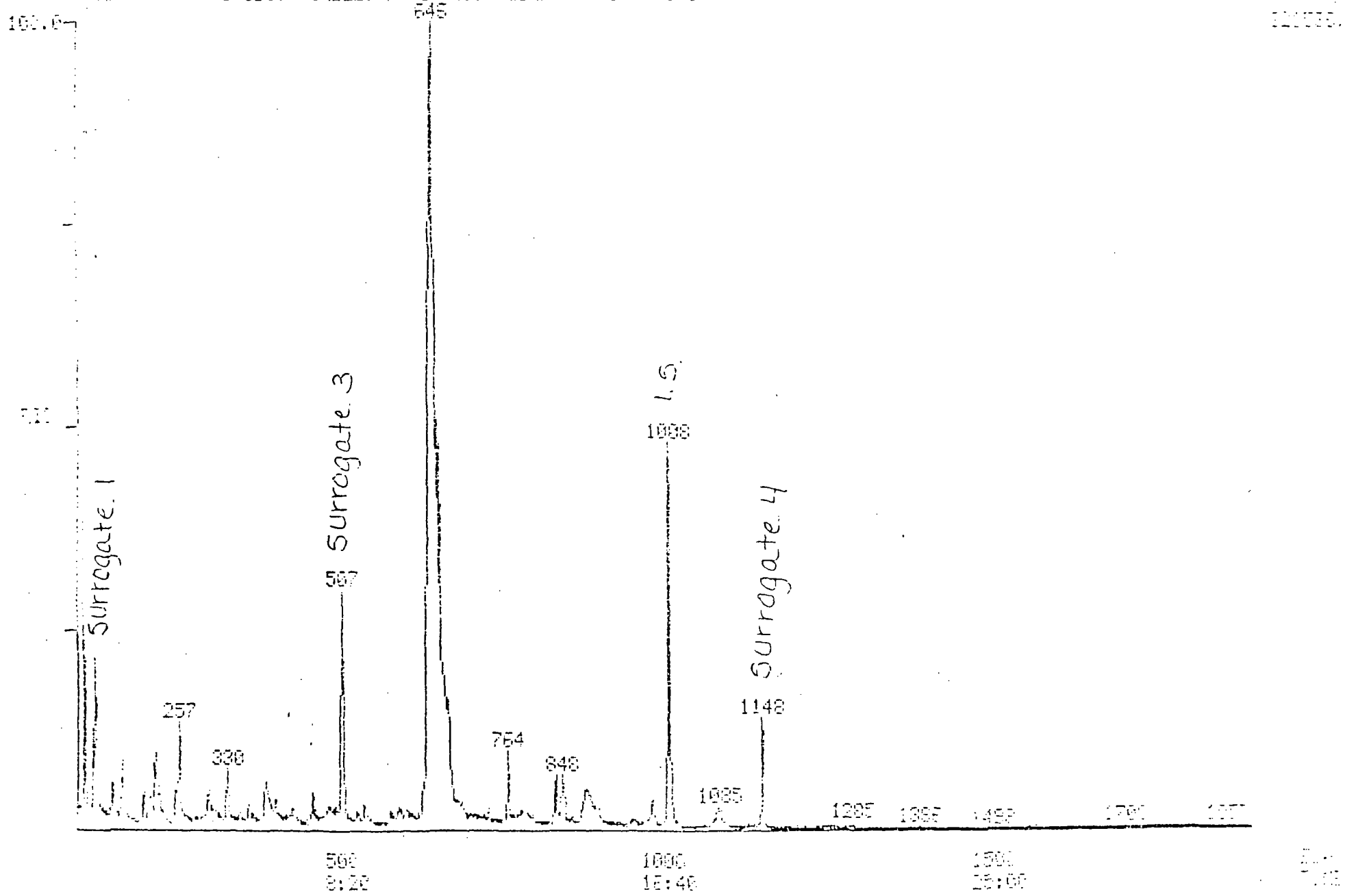
DATA: AN7092015 #1
CALI: AN7092015 #2

SCANS 100 TO 1900



RIC
10/12/87 15:12:00
SAMPLE: M-2 (1000ML/ML)
CONDS.: BNA METHOD
RANGE: 0 1,1900 LABEL: N 0, 4.0 QUAN: A 0 1.0 J 0 BASE: 0 20 0

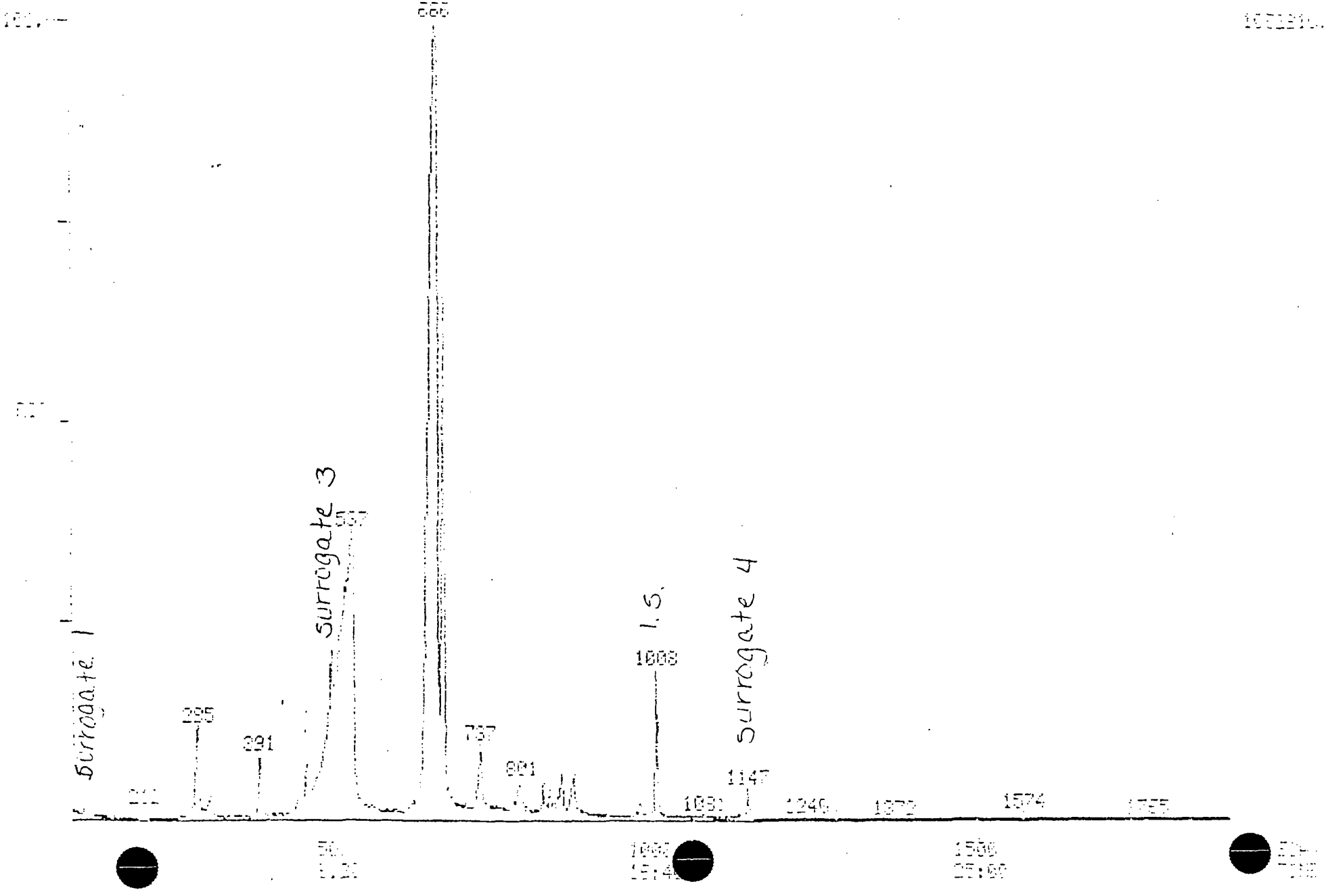
DATA: AN7052010 #1 SCANS 100 TO 1900
CALI: AN7052010 #2



RIC
10/12 ST 16:04:00
SAMPLE: V-3 (1000ML/ML)
CONDS.: BNA METHOD
RANGE: 0 1,1900 LABEL: 1 0 4.0 QUAN: A 0 1.0 J 0 BASE: V 20, 0

DATA: AN7092017 #1
CALI: AN7092017 #2

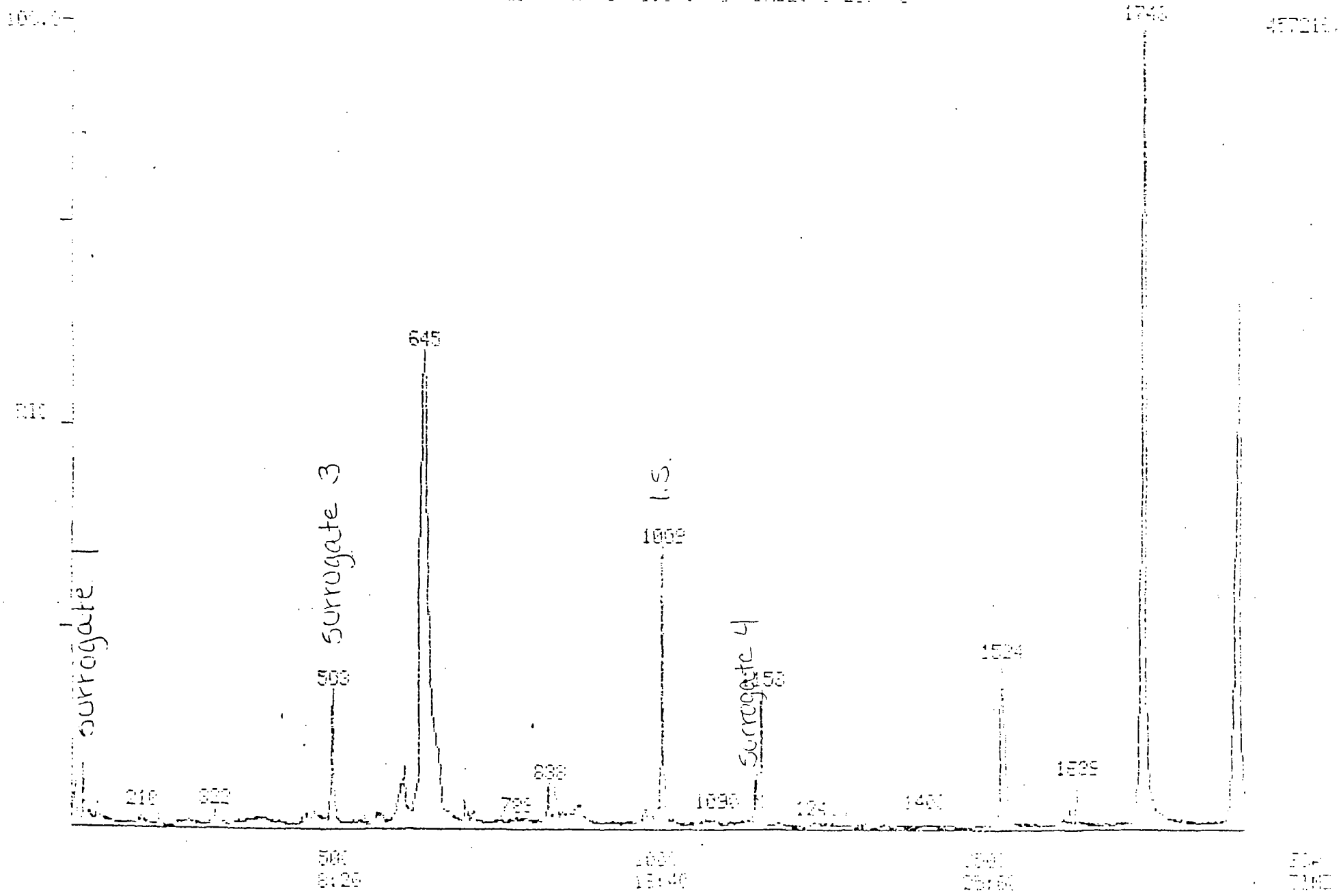
SCANS 100 TO 1900



RIC
10/12/87 16:54:00
SAMPLE: U-4 (500ML/ML)
CONDS.: BNA METHOD
RANGE: G 1,1900 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: L 20, 3

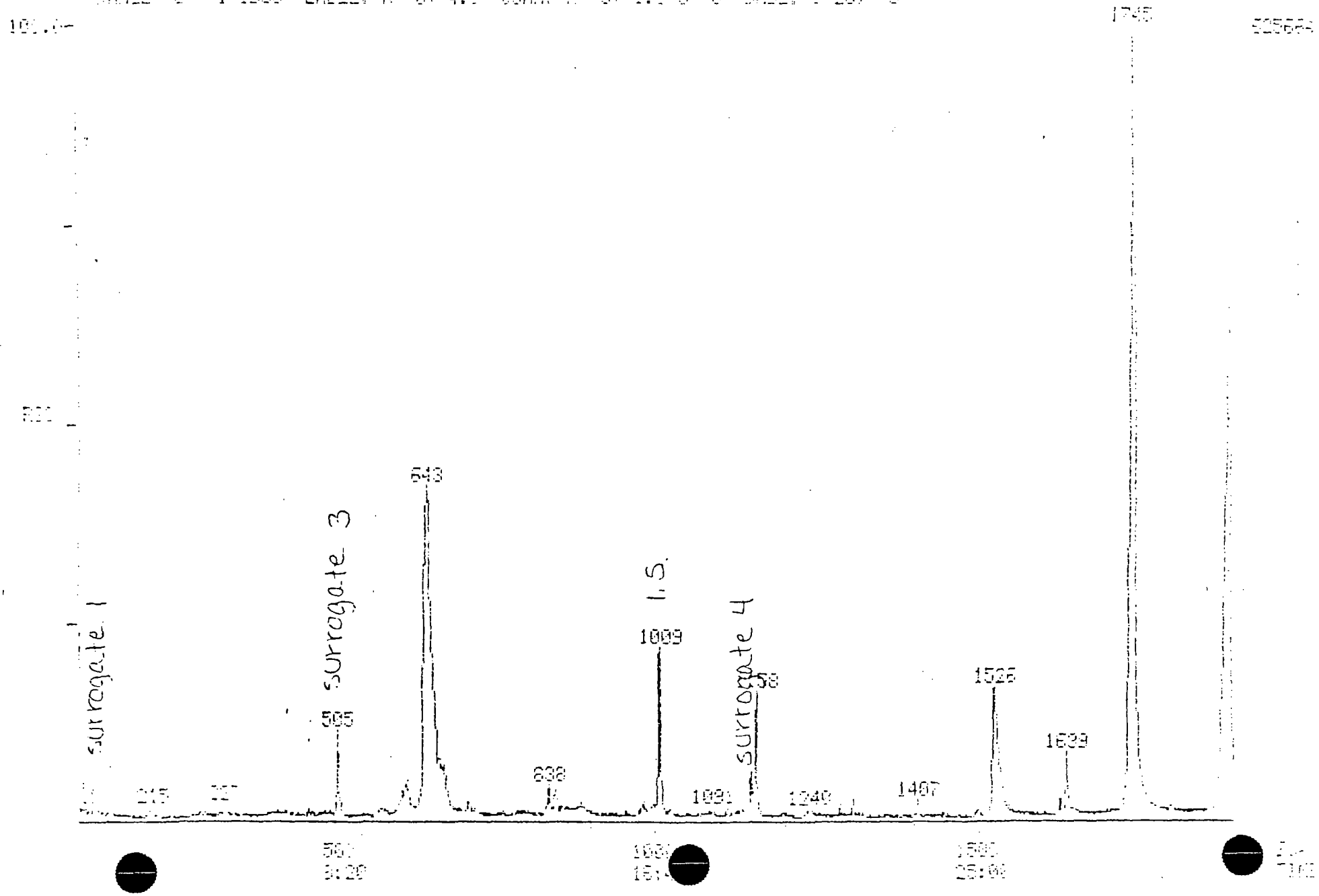
DATA: AN7052018 #1
CALI: AN7052018 #2

SCANS 100 TO 1900



RIC
10/13/87 11:25:00
SAMPLE: V-4 DUP (500ML/ML)
CONDS.: BNA METHOD
RANGE: 0 1-1900 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

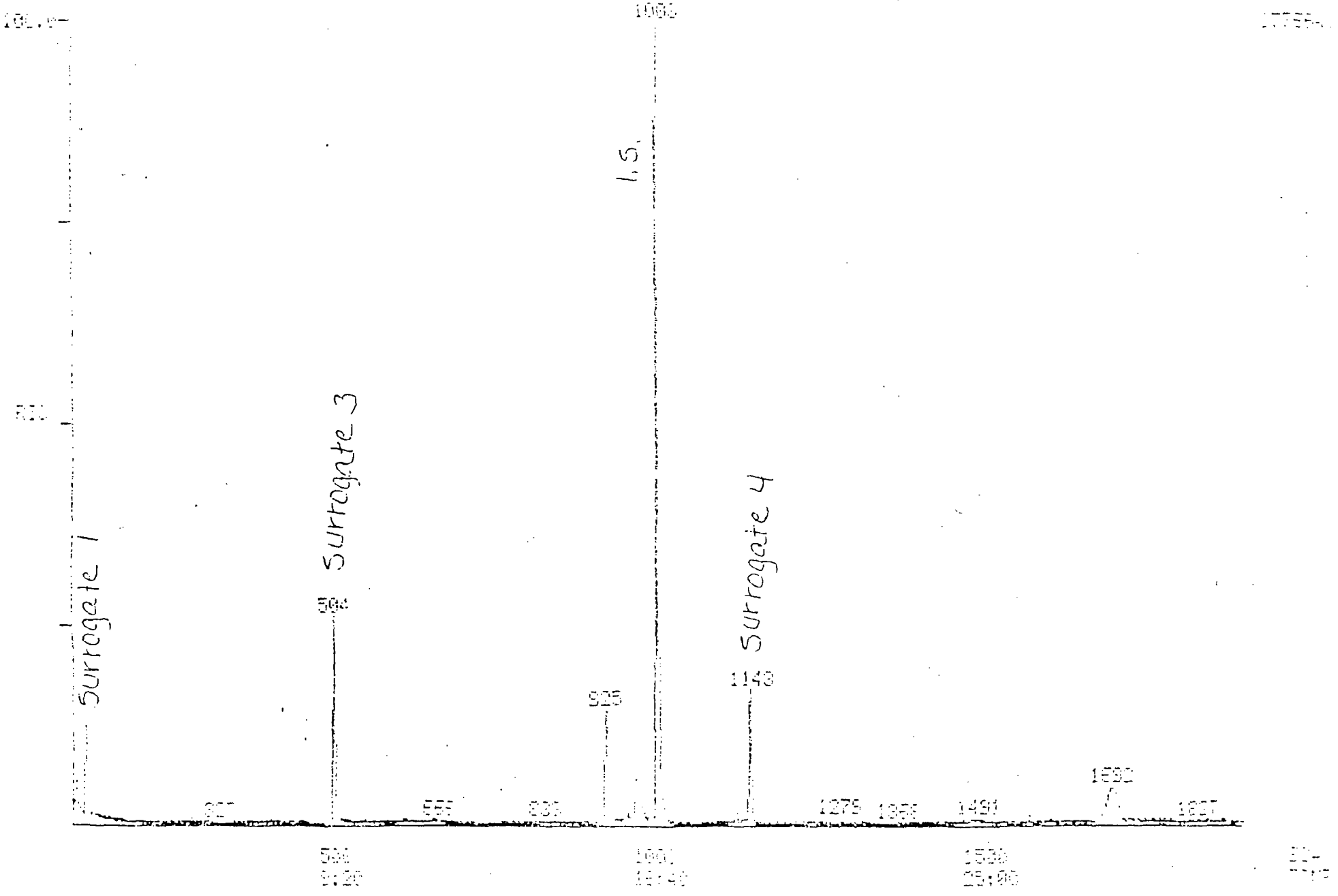
DATA: AN7092018DU #1 SCANS 100 TO 1900
CALI: AN7092018DU #2



RIC
10/12/87 18:41:00
SAMPLE: U-5 (1000ML/ML)
CONDS.: BNA METHOD
RANGE: 0 1,1900 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 0

DATA: AN7052019 #1
CALI: AN7052019 #2

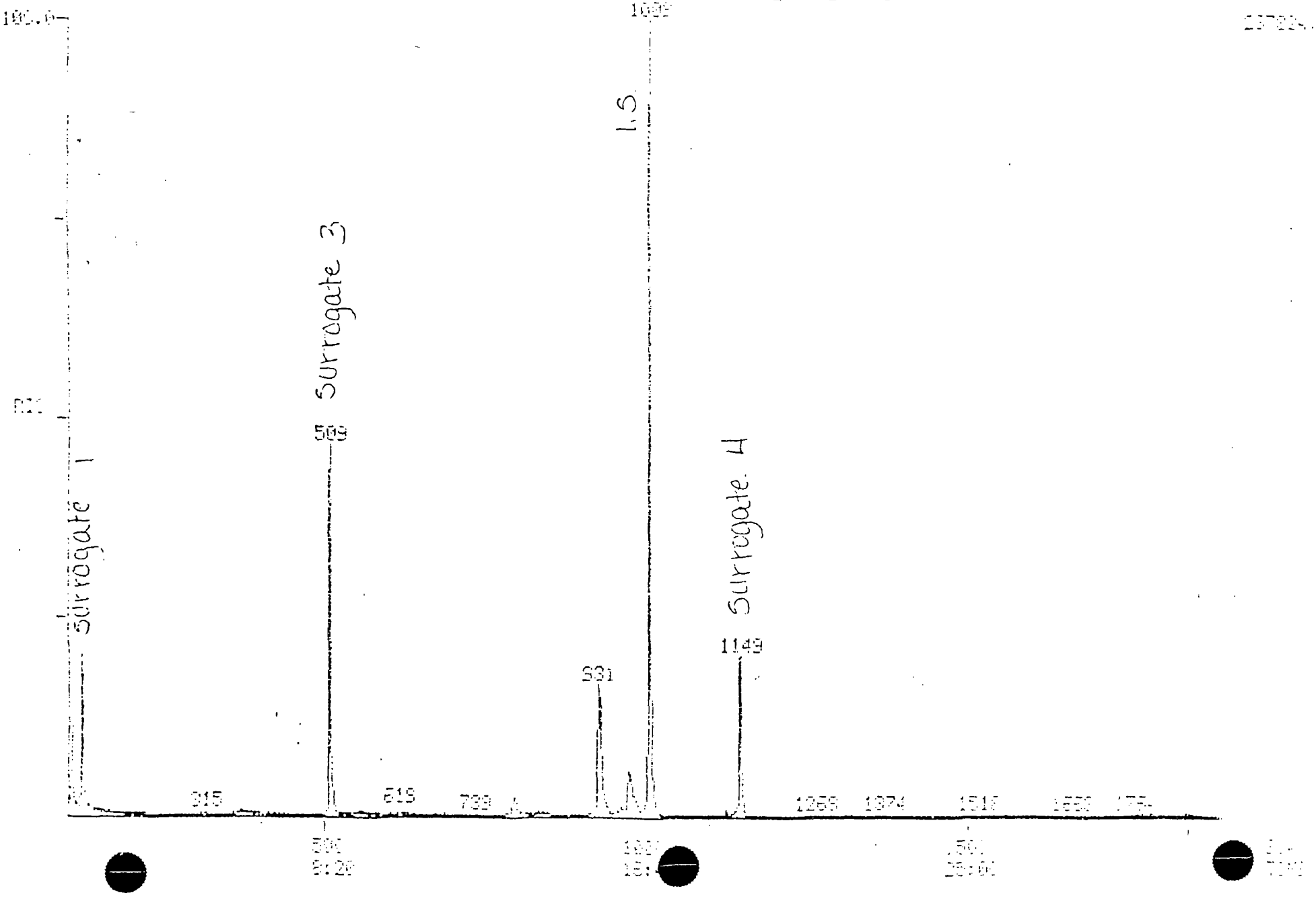
SCANS 100 TO 1900



RIC
10/12/87 20:12:00
SAMPLE: U-6 (1000ML/ML)
CONDI.: BNA METHOD
RANGE: 0 1,1900 LABEL: N 6, 4.0 QUAN: A 0 1.0 J 0 BASE: U 20, 2

DATA: AN7092020 #1
CALI: AN7092020 #2

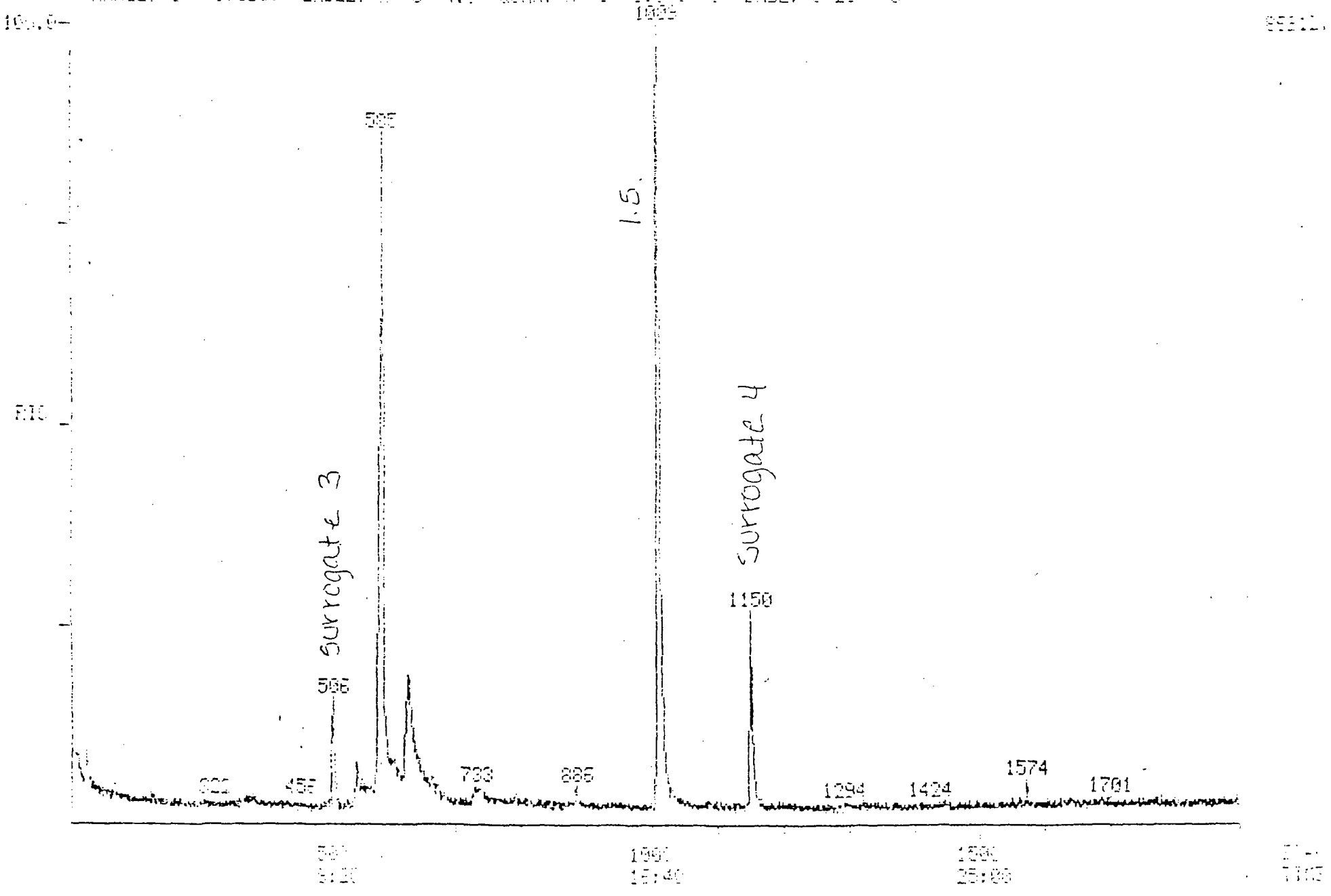
SCANS 100 TO 1900



RIC
10/13/87 10:31:00
SAMPLE: U-7 (1000ML/ML)
CONDS.: BNA METHOD
RANGE: 0 1/1900 LABEL: N 0 4.0 QUAN: A 0 1.0 J 0 BASE: U 20 3

DATA: AN7092021 #1
CALI: AN7092021 #2

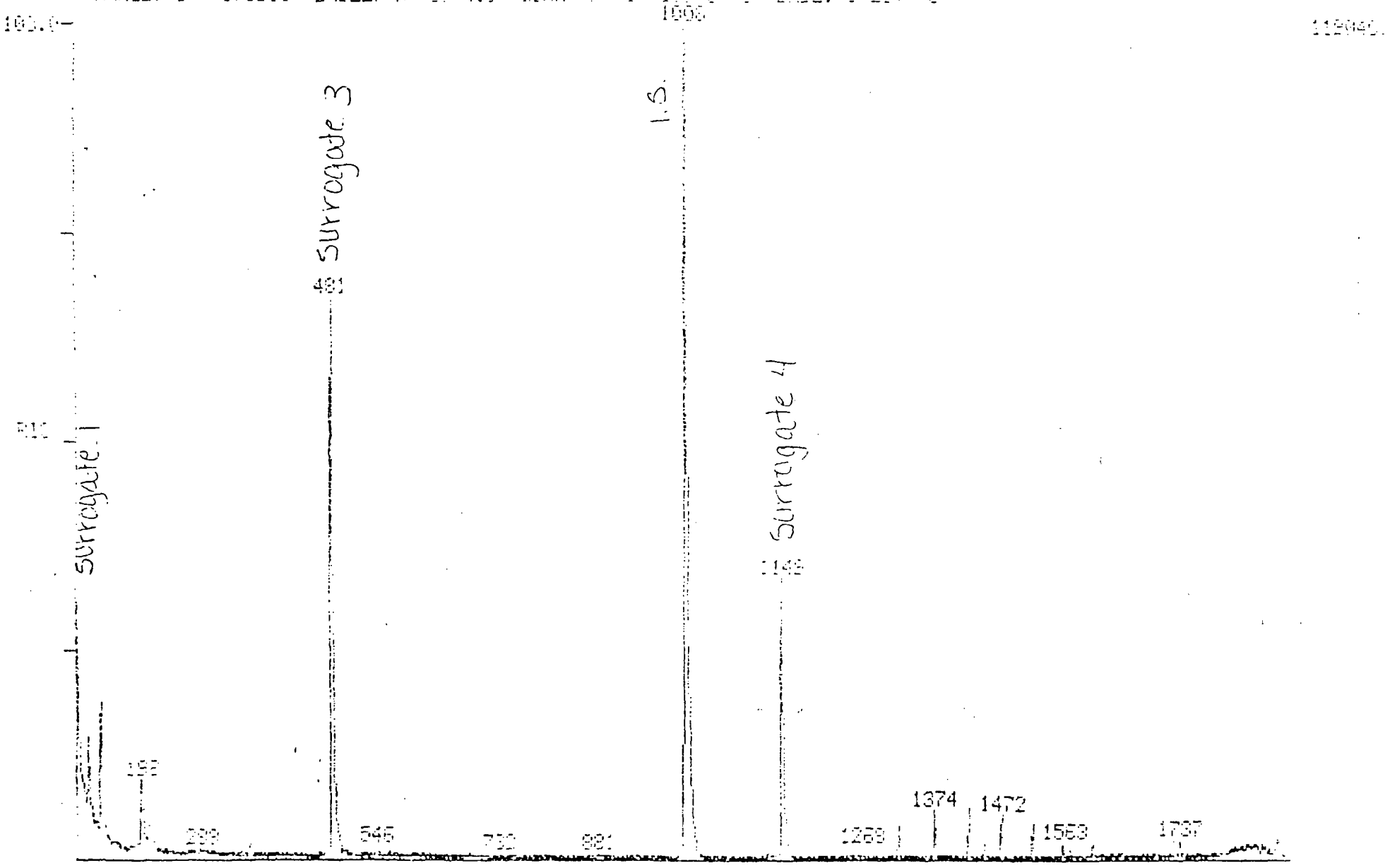
SCANS 100 TO 1900



RIC
10/12/87 22:05:00
SAMPLE: U-5 (1000ML/ML)
CONDS.: BNA METHOD
RANGE: C 1/1900 LABEL: N 0, 4.0 QUAN A 0, 1.0 C BASE: U 20, 3

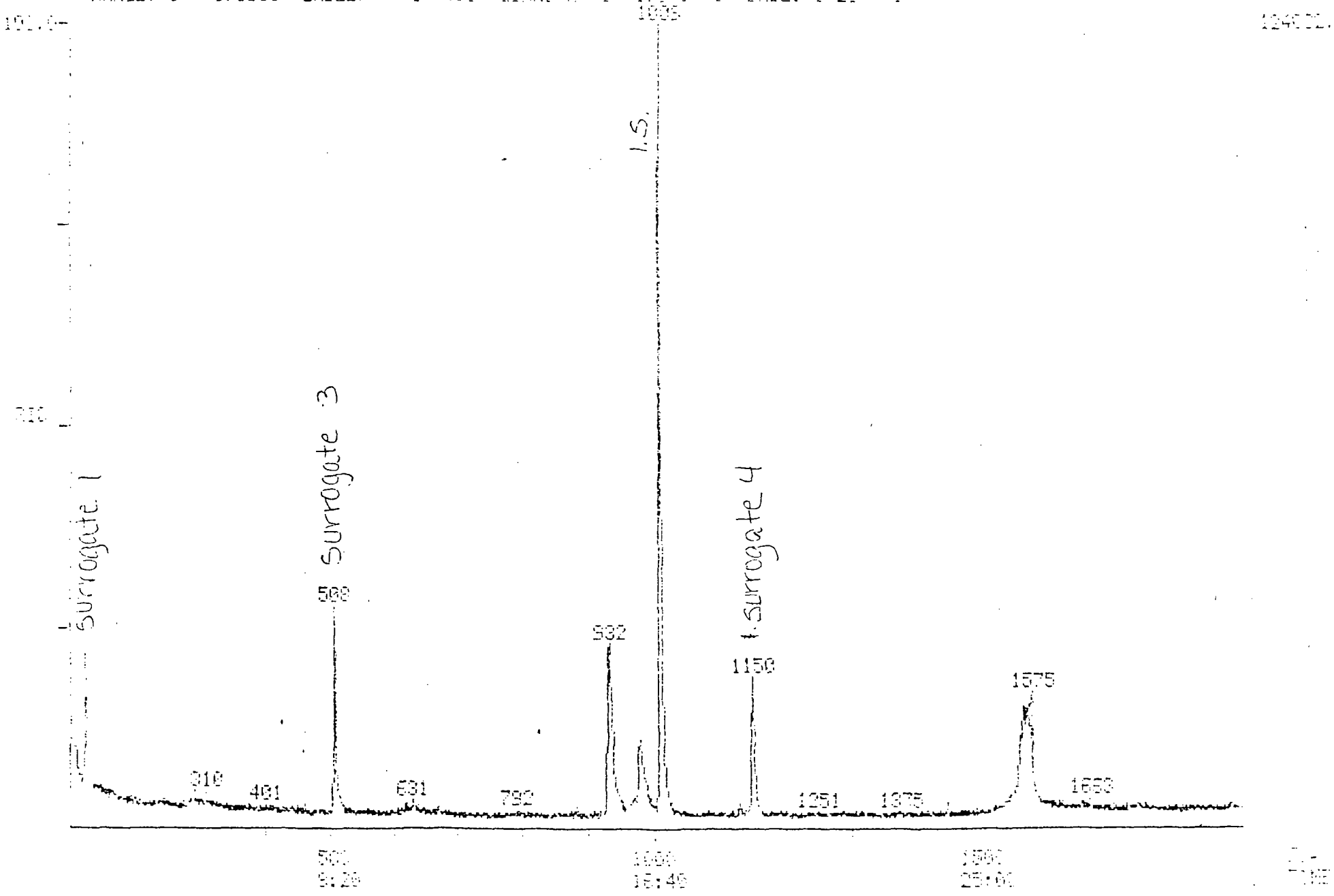
DATA: AN7092022 #1
CALI: AN7092022 #2

SCANS 100 TO 1900



RIC
10/13/87 12:31:00
SAMPLE: 1-2 (1000ML/ML)
CONDS.: BNA METHOD
RANGE: 0 1,1900 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 0

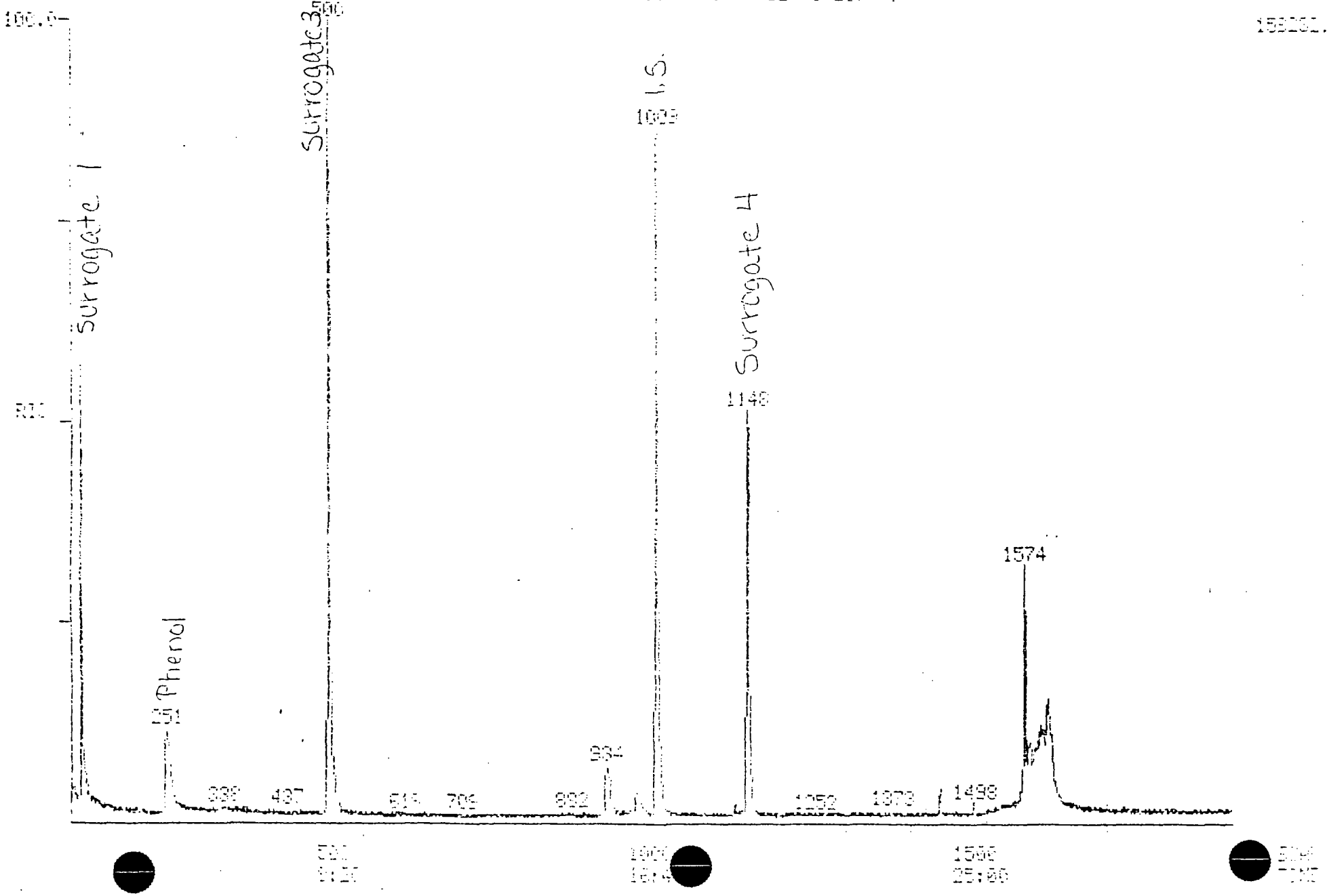
DATA: AN7032023 #1 SCANS 100 TO 1900
CALI: AN7032023 #2



RIC
10/13/87 13:25:00
SAMPLE: I-3 (1000ML/ML)
CONDS.: BNA METHOD
RANGE: G 1,1900 LABEL: N 0, 4.0 QUAN: A 0 1.0 J 0 BASE: U 20. 0

DATA: AN7092024 #1
CALI: AN7092023 #2

SCANS 100 TO 1900



SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 09/25/87
Date Received: 09/28/87
Date Reported: 10/13/87
Project No. JCO-104H

Q.C. DATA REPORT

Analyst: G. Brock
Date of Analysis: 10/12/87
Method of Analysis: Common Solvents
Detection Limit: 50
Units: ppb

Sample Number	Analyte	Original Result	Duplicate Result	% Deviation
7092015	Acetone	< 50	< 50	0

Sample Number	Analyte	Sample Contribution	Spike Added	Spike Result	% Recovery
7092015	Acetone	< 50	600	460	76

SEQUOIA ANALYTICAL LABORATORY

Scot Cocanour

Arthur G. Burton
Laboratory Director

5mls #D.1

23:11 87/10/12

9 MODIFIED

10 BGN

1.60

2.61
2.84
3.26
3.41

4.08

4.99

B

5.93
6.41

B

8.50
9.04

17.05

18.28

BEND

RUN 10 23:11 87/10/12

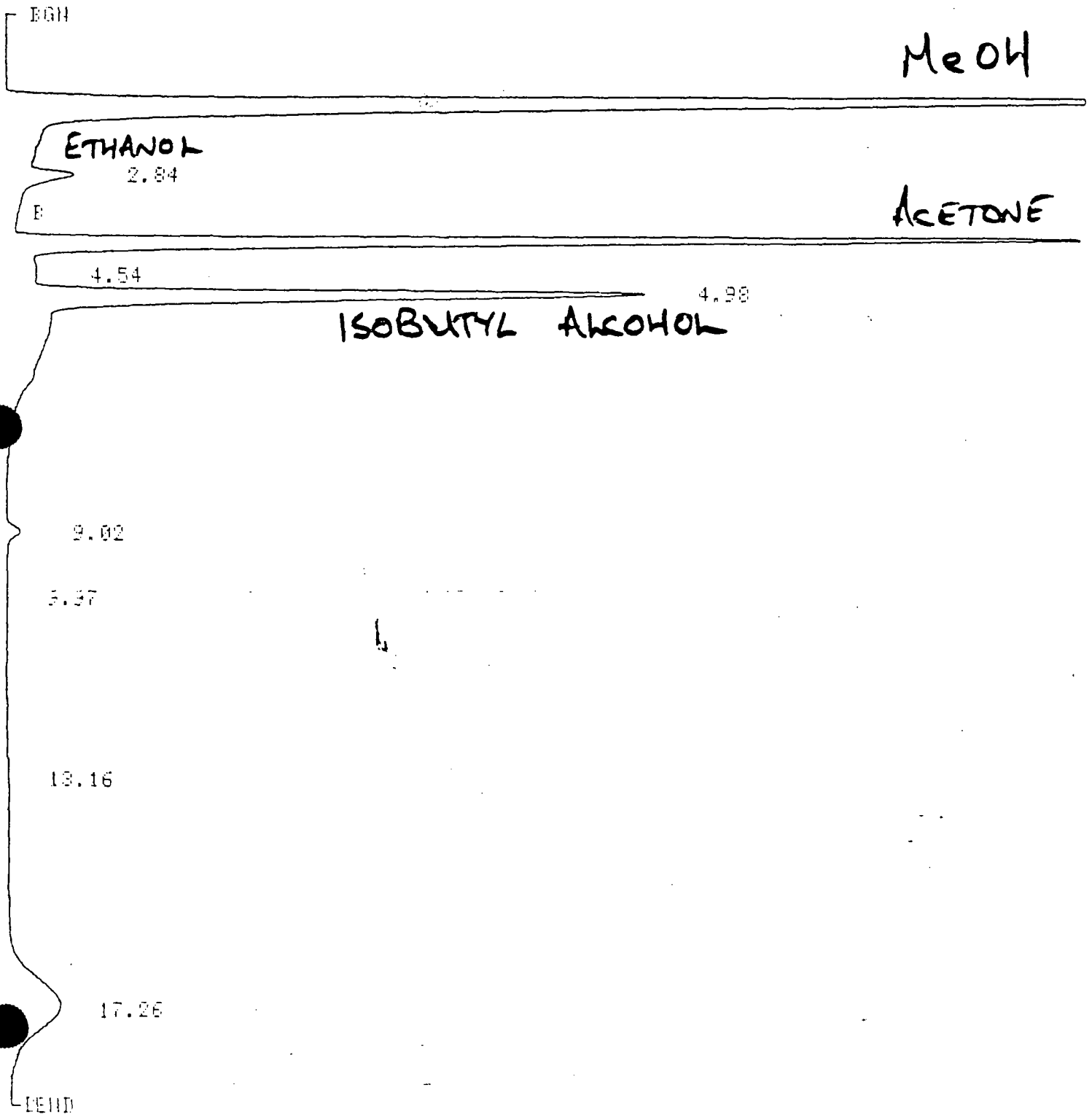
METHOD 9 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
1.60	1.6496	T	26.5006
2.61	0.0658	T	1.0579

22:34 87/10/12

MODIFIED

11 # STD.



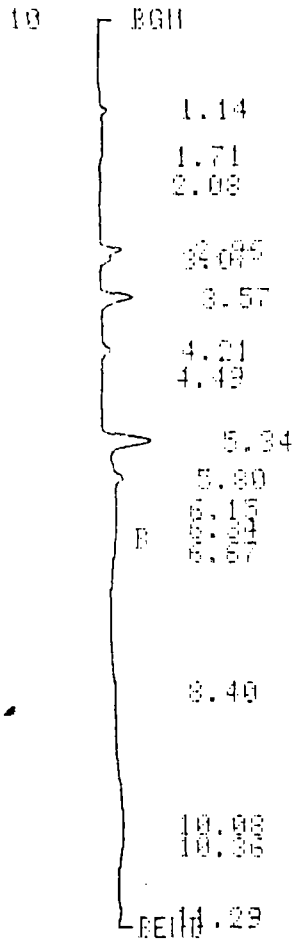
[illegible]	[illegible]	[illegible]	[illegible]
6.13	1.1615	V	3.1755
8.43	0.3685	T	1.0075
9.55	0.9073	T	2.4806
10.08	0.3478	T	0.9509
10.31	0.3758		1.0276

11 PEAKS > AREA HI REJECT

Smb # 7092015

20:23 87/10/12

9 MODIFIED



RUN 5 20:25 87/10/12

METHOD 9 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
1.14	0.5707	T	6.6703
1.71	0.3744	T	4.3762
2.08	0.0807	V	0.9440
2.96	0.5480	T	6.4041
3.07	0.2299	V	2.6875
3.57	0.9544	T	11.1534
4.21	0.2914	T	3.4059
[illegible]	0.6711	V	[illegible]
[illegible]	1.3629	T	15.9275

17.29	0.1844	U	4.6996
18.26	0.1156		2.9453

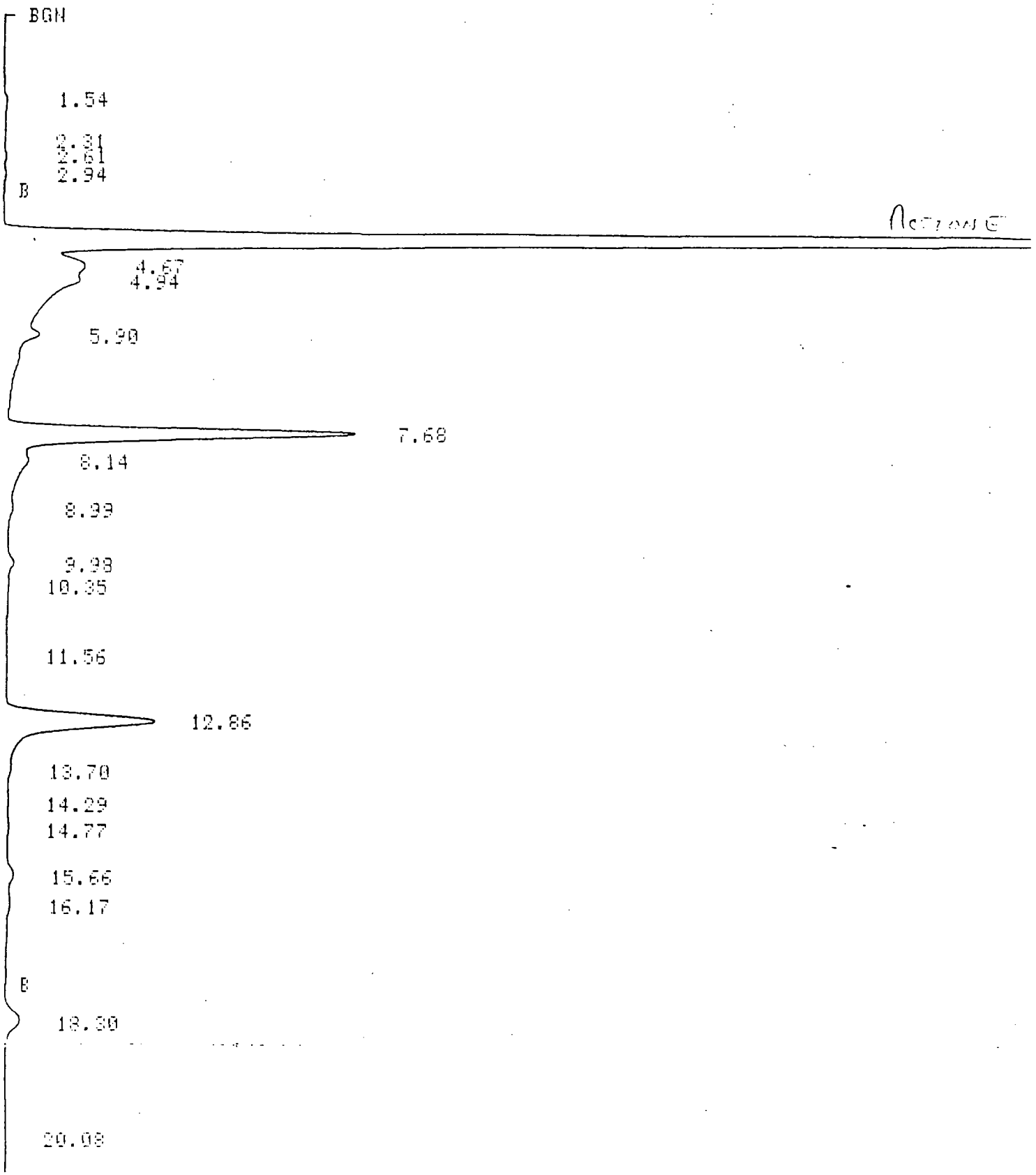
9 PEAKS > AREA/HT REJECT

Im\ # 7092016.

0:25 97/10/12

9 MODIFIED

10

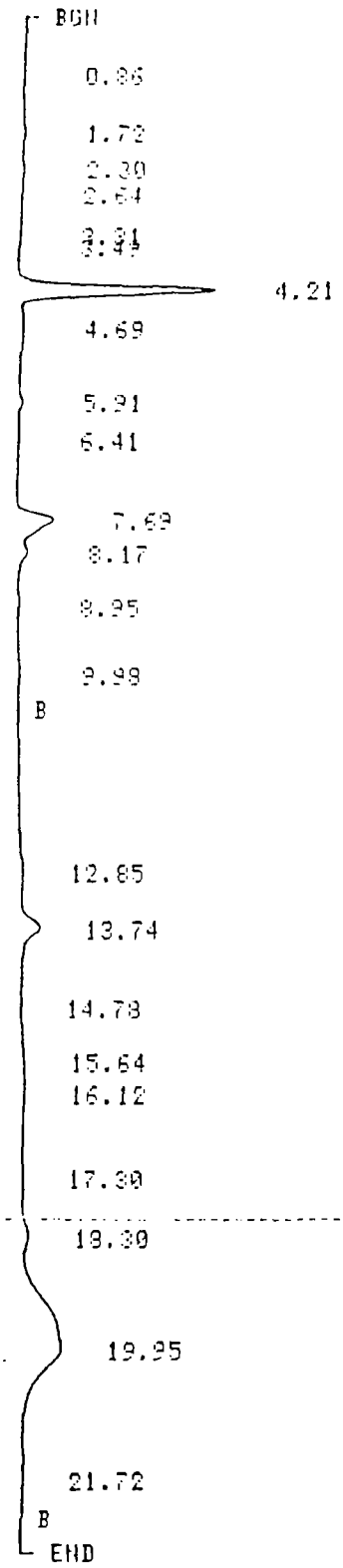


5 ml 7092017

RUN 14 1:11 87/10/13

METHOD 9 MODIFIED

32 C 10

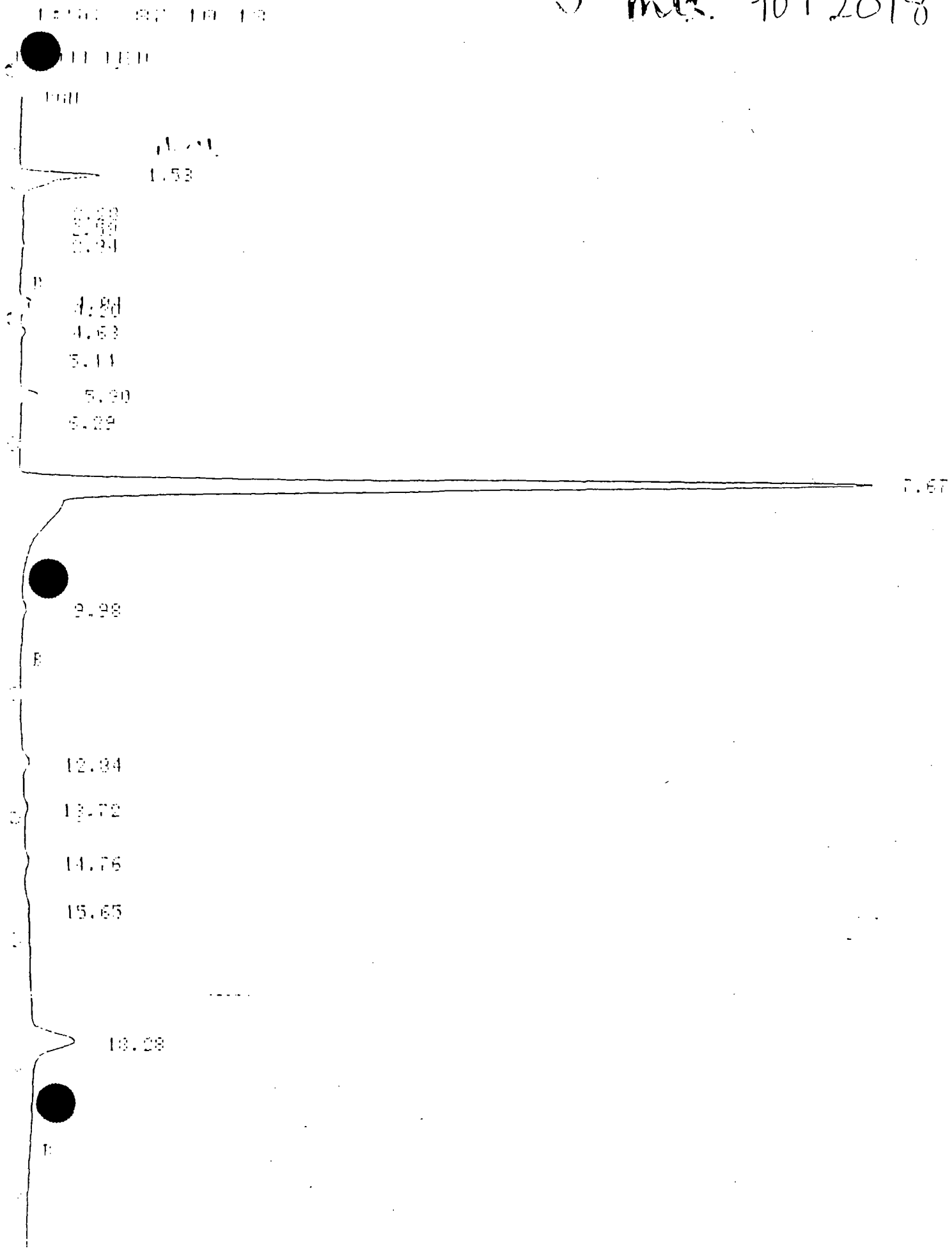


RUN 14 1:11 87/10/13

METHOD 9 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
0.96	0.0889	T	0.2459
1.72	0.2885	T	0.7978
2.30	0.2929	T	0.8102
2.64	0.1578	T	0.4364
3.91	0.2403	T	0.6564

5 mts. 7092018



5 ml 7092019

2:41 87/10/13

MODIFIED

BGN

0.68
0.88

1.53

2.31
2.60
2.81
3.12
3.31

B

4.04
4.19

4.94

B

5.90
6.37

B

7.65

8.34

8.97

9.99

B

12.84

13.72

15.66

16.11

B

18.28

19.81

END

5me 7092020

17 3:26 87/10/13

MODIFIED

10 DBH

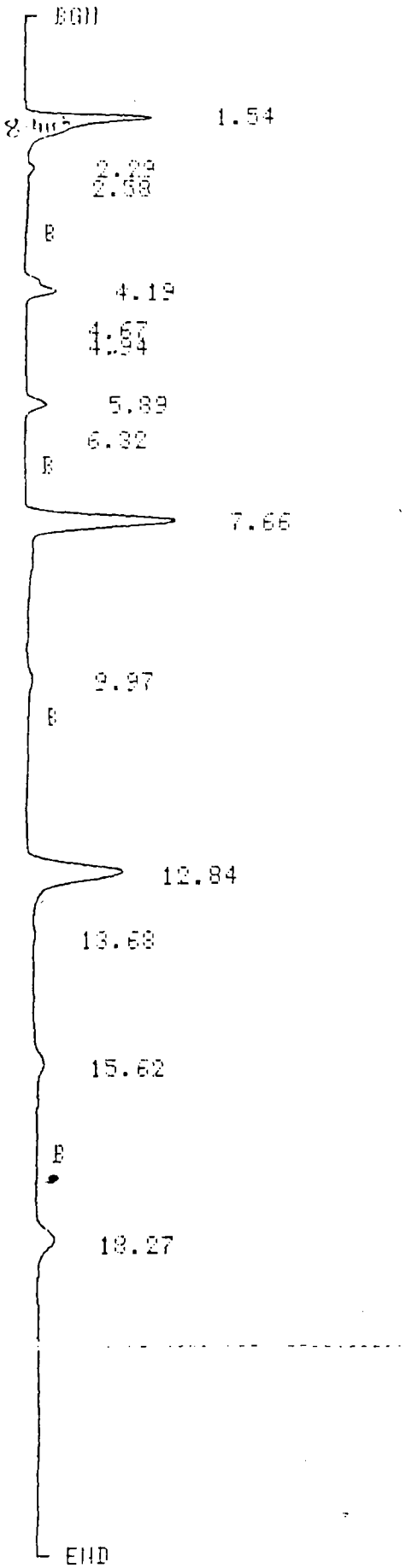
1.51
1.73
2.31
2.60
B
3.45
4.19
4.96
5.90
6.34
7.64
8.36
9.17
9.98
B
12.85
13.72
15.63
18.27
66

4:11 87/10/13

5 ml 709 2021

9 MODIFIED

10



5 ml 7092022

4:55 87/10/13

MODIFIED

10

BGN

1.54

2.30

B

4.19

B

5.89

6.33

7.66

8.34

9.18

B

9.97

B

12.88

13.70

15.63

18.25

19.58

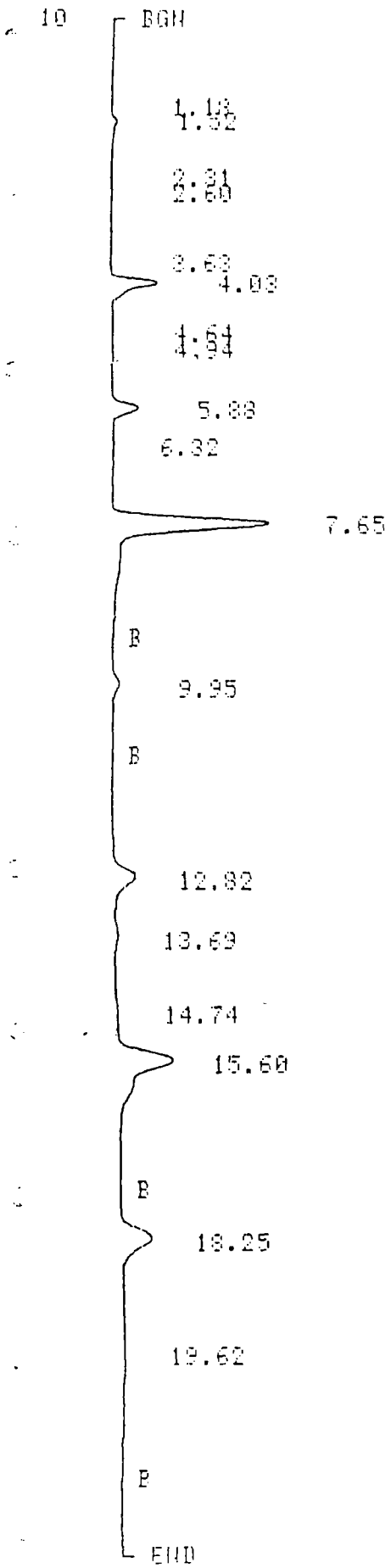
B

END

5 ml 7092023

0 5:40 87/10/13

9 MODIFIED



5 ml 7092024

6:25 87/10/13

MODIFIED

BGN

0.24

1.72

2.58

4.09

4.96

5.86

B

7.64

8.31

9.19

9.94

B

12.83

13.69

15.62

16.06

18.25

19.62

B

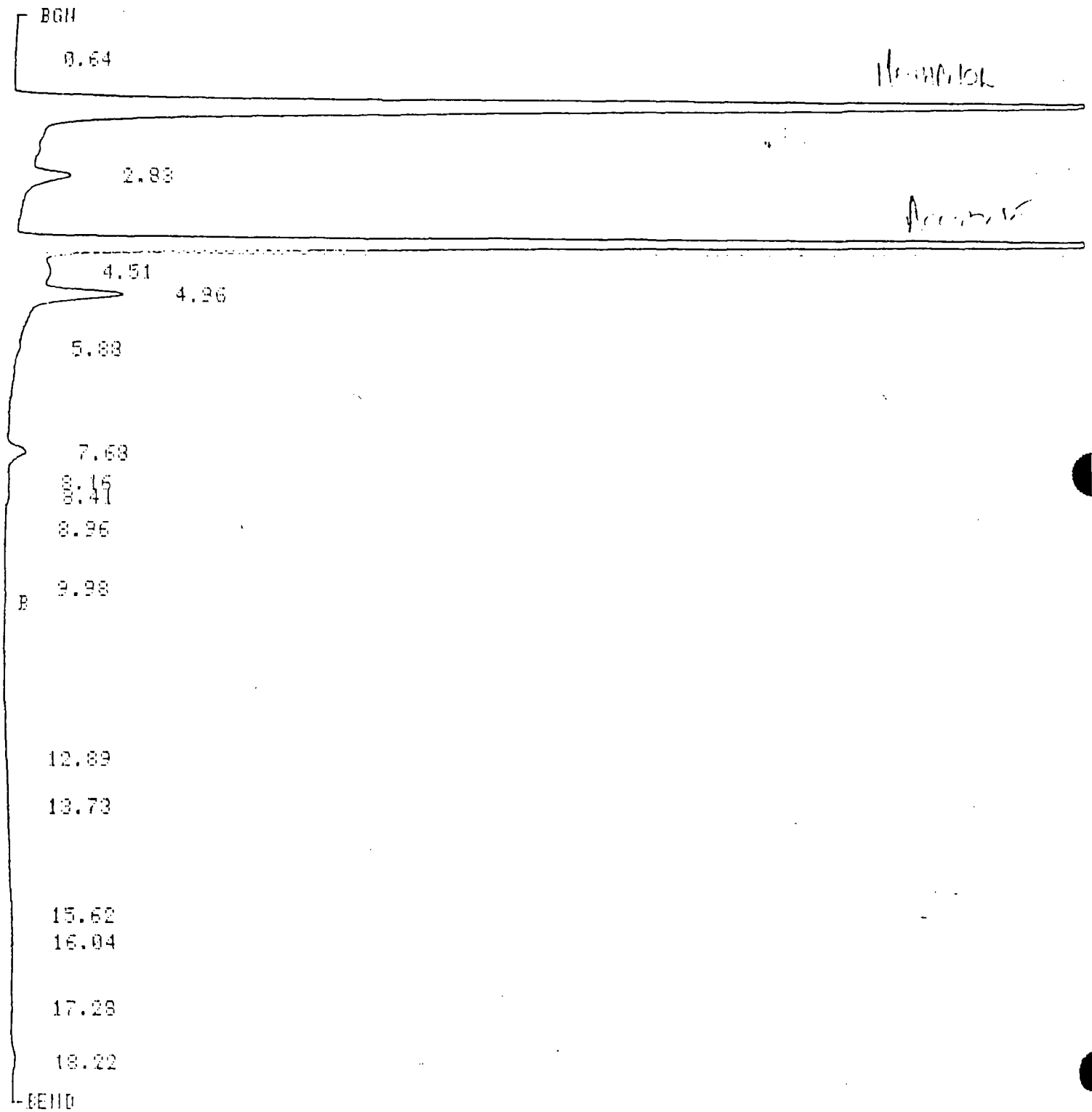
END

18 PEAKS > AREA/HT REJECT

Sample #7092015 + spike.

23:35 87/10/12

MODIFIED



11 23:35 87/10/12

THOD 9 MODIFIED CALCULATION: %

PT	HEIGHT	BC	HEIGHT %
0.49	0.0196	V	0.0010
1.20	82.5126	T	4.4186
1.75	5.7054	T	0.3055
2.11	6.4489	T	0.3453
2.98	69.4965	T	3.7218
3.60	1286.2490	T	68.8837
3.94	244.9159	T	13.1162
6.14	156.5871	T	8.3858
8.43	11.4965	T	0.6157
8.90	1.9168		0.1026
10.11	1.8559	V	0.0993
11.39	0.0674		0.0036

12 PEAKS > AREA/HT REJECT

Smls # 7092015

19:53 87/10/12

MODIFIED

BGN

1.20

2.11

2.98

3.59

3.95

4.47

6.13

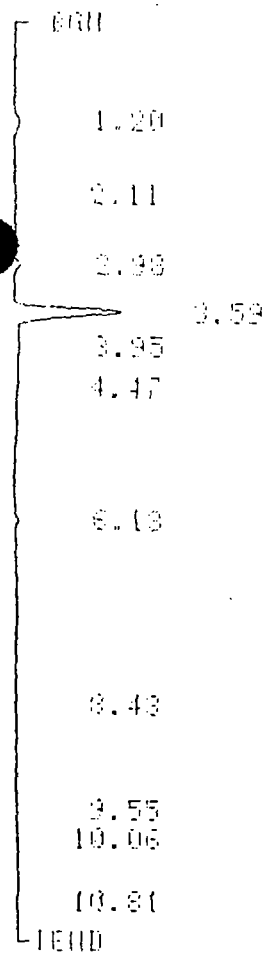
8.43

9.55

10.06

10.81

TEND



4 19:53 87/10/12

METHOD 9 MODIFIED CALCULATION: %

PT	AREA	BC	AREA %
1.20	2.0220	T	5.5393
[illegible]	[illegible]	V	[illegible]

APPENDIX E

Wahler Associates

WA Project Number: JC0-1041H

Page 1 of 2

Field Sample Chain of Custody Record

Source of Sample(s) Mountain View

Address

Phone ( )

Report to (1) Robert Breymaertz

Collector Paul Schmitt

Affiliation Wahler Assoc.

Address 1023 Commercial Way
Palo Alto CA 94025

Phone (415) 968-6250

Sample Information

Lab No.	Field No.	Date	Time	Type (2)	Depth	Remarks (Suspected Contaminants, Field Conditions, etc.)
		/ /				See Attached
		/ /				analysis request form
		/ /				
		/ /				
		/ /				
		/ /				
		/ /				
		/ /				

Chain of Possession

	Relinquished by (Signature and affiliation)	Date	Time	Received by (3) (Signature and affiliation)	Date	Time
1.	[illegible]	8/20/87	2:30	Pat Burke	8/20/87	2:3[illegible]
2.		/ /			/ /	
3.		/ /			/ /	

(1) There is a separate Request for Analysis form that should be filled out by the collecto and given to the Laboratory when samples are delivered.
(2) e.g. water, sludge, soil, etc.
(3) If any samples are not intact at time of transfer, please describe on the back of this form.

Wahler Associates

Geotechnical and Water Resources Engineering

ANALYSIS REQUEST FORM

Page____of____

Sequoia Date Sample Shipped 8-20-87

Wahler Associates will indicate a contact person and phone number which the Lab staff can use to obtain or verify the appropriate analytical requirements.

Your Sample I.D.	Matrix	Container	Analysis Requested
JCO-817-TAP	H_2O	2 VOA	EPA-601
JCO-817-TANK	H_2O	2 VOA	EPA-601

Comments Written turnaround in 10-15 days. Last possible day for results is September 11, 1987. Please include all QA/QC data plus chromatograms per request of RWQCB.

Contact Person Bob Breymeyer (415) 968-6250
Name Telephone

Lab Project Manager (if known) Scott Cocanour

1023 Corporation Way, P.O. Box 10023, Palo Alto, California 94303 • Telephone Number (415) 968-6250
Telex Number 4995623

Wahler Associates

WA Project Number: JCO-104

Page 1 of 2

Field Sample Chain of Custody Record

Source of Sample(s): Mountainview

Address:

Phone: (415) 968-6250

Report to (1): Robert Breymaert

Collector: Paul Schmidt CK CHW

Affiliation: Wahler Associates

Address: PO Box 10023, Palo Alto CA 94303

Phone: (415) 968-6250

Sample Information

Lab No.	Field No.	Date	Time	Type (2)	Depth	Remarks (Suspected Contaminants, Field Conditions, etc.)
		/ /				See Attached
		/ /				Analysis Request Form
		/ /				
		/ /				
		/ /				
		/ /				
		/ /				
		/ /				

Chain of Possession

	Relinquished by (Signature and affiliation)	Date	Time	Received by (3) (Signature and affiliation)	Date	Time
1.	Charles H. Wahler	8/3/87	2:14	Laura Marsh	8/3/87	14:14
2.		/ /			/ /	
3.		/ /			/ /	

(1) There is a separate Request for Analysis form that should be filled out by the collector and given to the Laboratory when samples are delivered.
(2) e.g. water, sludge, soil, etc.
(3) If any samples are not intact at time of transfer, please describe on the back of this form.

Wahler Associates

Geotechnical and Water Resources Engineering

ANALYSIS REQUEST FORM

Analytics Date Sample Shipped 8-27-87

Wahler Associates will indicate a contact person and phone number which the Lab staff can use to obtain or verify the appropriate analytical requirements.

Your Sample I.D.	Matrix	Container	Analysis Requested
U-2	H_2O	VOA	EPA 601/602 plus MEK and Xylenes

Comments 10-15 day turnaround please supply Lab QA/QC documentation plus chromatograms for both analyses. - There is likely to be Methylene chloride in sample

Contact Person Bob Breynaert or (415) 968-6250
Name Avi Schmidt Telephone

Lab Project Manager (if known) _____

1023 Corporation Way, P.O. Box 10023, Palo Alto, California 94303 • Telephone Number (415) 968-6250
Telex Number 4998623

Wahler Associates

WA Project Number: JCO-104H

Page 1 of 2

Field Sample Chain of Custody Record

Source of Sample(s) Mountain View, CA

Address

Phone ( )

Report to (1) Bob Breynaert

Collector Paul Schmidt

Affiliation Wahler Assoc.

Address PO Box 10023

Palo Alto CA 94303

Phone (415) 868-6250

Sample Information

Lab No.	Field No.	Date	Time	Type (2)	Depth	Remarks (Suspected Contaminants, Field Conditions, etc.)
		/ /				See attached
		/ /				analysis request form.
		/ /				
		/ /				
		/ /				
		/ /				
		/ /				
		/ /				

Chain of Possession

	Relinquished by (Signature and affiliation)	Date	Time	Received by (3) (Signature and affiliation)	Date	Time
1.	[signature]	9/25/87	452p	[signature], Amresco	9/25/87	4:52
2.		/ /			/ /	
3.		/ /			/ /	

(1) There is a separate Request for Analysis form that should be filled out by the collector and given to the Laboratory when samples are delivered.
(2) e.g. water, sludge, soil, etc.
(3) If any samples are not intact at time of transfer, please describe on the back of this form.

Wahler Associates

Geotechnical and Water Resources Engineering

ANALYSIS REQUEST FORM

ANRESCO Date Sample Shipped 9-25-87

Wahler Associates will indicate a contact person and phone number which the Lab staff can use to obtain or verify the appropriate analytical requirements.

Your Sample I.D.	Matrix	Container	Analysis Requested
V-2	H_2O	(2) VOA	EPA 601/602 plus MEK, Xylenes
V-4	H_2O	(2) VOA	EPA 601/602 plus MEK and Xylenes
Field Blank (9/24)	H_2O	(1) VOA	EPA 601/602 plus MEK and Xylenes
Field Blank (9/25)	H_2O	(1) VOA	EPA 601/602 plus MEK and Xylenes
Method Blank	H_2O	(1) VOA	EPA 601/602 plus MEK and Xylenes

Comments Results due by Friday October 9, 1987. Please submit: dilution factors; detection limits based on limits of quantification; calculated recoveries of internal standards and/or surrogates. Also state whether H_2O samples were filtered before or during sample analysis. Submit concentrations of blanks analyzed before and during sample analysis. Please call if you have any questions regarding this request.

Contact Person Bob Breynaert (415) 968-6250
Name Telephone

Lab Project Manager (if known) _____

1023 Corporation Way, P.O. Box 10323, Palo Alto, California 94303 • Telephone Number (415) 968-6250
Telex Number 4998823

Wahler Associates

WA Project Number: JCO-104

Page 1 of 2

Field Sample Chain of Custody Record

Source of Sample(s): Mountain View

Address:

Phone: ( )

Report to (1):

Collector: Paul Schmidt OK CH

Affiliation: Wahler Associates

Address: PO Box 10023
Palo Alto, CA 943

Phone: (415) 968-6250

Sample Information

Lab No.	Field No.	Date	Time	Type (2)	Depth	Remarks (Suspected Contaminants, Field Conditions, etc.)
		/ /				See Attached
		/ /				Analysis Request Sh
		/ /				
		/ /				
		/ /				
		/ /				
		/ /				
		/ /				

Chain of Possession

	Relinquished by (Signature and affiliation)	Date	Time	Received by (3) (Signature and affiliation)	Date	Time
1.	Paul Schmidt	8/3/87	10:23	[illegible]	8/3/87	10:23
2.		/ /			/ /	
3.		/ /			/ /	

(1) There is a separate Request for Analysis form that should be filled out by the collecto and given to the Laboratory when samples are delivered.
(2) e.g. water, sludge, soil, etc.
(3) If any samples are not intact at time of transfer, please describe on the back of this form.

Wahler Associates

Geotechnical and Water Resources Engineering

ANALYSIS REQUEST FORM

Sequoia Date Sample Shipped 8-28-87

Wahler Associates will indicate a contact person and phone number which the Lab staff can use to obtain or verify the appropriate analytical requirements.

	Your Sample I.D.	Matrix	Container	Analysis Requested
(1)	U-1	H_2O	VOA	(1) EPA 601/602 plus MEK and Xylene
	U-2			
	U-3	H_2O	VOA	(2) Total Hydrocarbons as Paint Thinner
	U-4			
	U-5	H_2O	VOA	(3) Alcohols / Acetone
	U-6			
	U-7 *	H_2O	1 l. jar	(4) EPA 604 - phenols
	I-1			
(2)	I-2	H_2O	VOA	EPA 624 Openscan
(3)	I-3	H_2O	VOA	EPA 624 Openscan
(4)	F2	H_2O	VOA	EPA 601/602 - Perform duplicate run on sample (we will pay for it)
(5)	2 Field Blank (8-27/8-28)	H_2O	2 VOA's	EPA 601/602
(6)	2 Method Blank (8-27/8-28)	H_2O	2 VOA's	EPA 601/602

Comments Please include all laboratory QA/QC documentation plus chromatograms for all analyses - normal 10-15 day turnaround * Note V-7 604-phenol jar was labeled preserved (H_2SO_4)

Contact Person Bob Breymeyer (415) 968-6250
Name Paul Schmidt Telephone

Lab Project Manager (if known) Scott Corganor

Wahler Associates

WA Project Number: JCO-104H

Page 1 of 2

Field Sample Chain of Custody Record

Source of Sample(s) Mountain View, CA

Address

Phone ( )

Report to (1) Bob Breynaert

Collector Paul Schmidt

Affiliation Wahler Assoc.

Address PO Box 10023

Palo Alto CA 94303

Phone (415) 868-6250

Sample Information

Lab No.	Field No.	Date	Time	Type (2)	Depth	Remarks (Suspected Contaminants, Field Conditions, etc.)
		/ /				See attached
		/ /				analysis request form.
		/ /				
		/ /				
		/ /				
		/ /				
		/ /				
		/ /				

Chain of Possession

	Relinquished by (Signature and affiliation)	Date	Time	Received by (3) (Signature and affiliation)	Date	Time
1.	[signature]	9 12 81 87	9 34	Carolyn Anderson AR	9 12 81 87	9:34
2.	[signature]	9 12 81 87	9:[illegible]	[signature] Sequoia Lab	9 12 81 87	
3.		/ /			/ /	

(1) There is a separate Request for Analysis form that should be filled out by the collector and given to the Laboratory when samples are delivered.
(2) e.g. water, sludge, soil, etc.
(3) If any samples are not intact at time of transfer, please describe on the back of this form.

F-H
9/25/87

Wahler Associates

Geotechnical and Water Resources Engineering

ANALYSIS REQUEST FORM

Sequoia Date Sample Shipped 9-25-87

Wahler Associates will indicate a contact person and phone number which the Lab staff can use to obtain or verify the appropriate analytical requirements.

Your Sample I.D.	Matrix	Container	Analysis Requested
U-1			
U-2			① EPA 601/602 plus MEK and Xylenes
U-3			② Total Hydrocarbons as Paint Thinner
U-4			③ Alcohols/Acetone
U-5	H_2O	(2) VOA	④ EPA-604 Phenols.
U-6			
U-7			
I-1			
I-2			
I-3			
U-4	H_2O	2 VOA	EPA 601/602 plus MEK + Xylenes *
			* Note - perform duplicate run on sample from well U-4 we will pay for it.

Comments Please include all QA/QC data as performed previously. WE NEED ALL RESULTS IN WRITTEN FORM PLUS QA/QC DOCUMENTATION. BY OCTOBER 15, 1987 AT THE ABSOLUTE LATEST.

Contact Person Bob Braynaert (415) 968-6250
Name Telephone

Lab Project Manager (if known) Scott Cocanour.

1023 Corporation Way. P.O. Box 10023. Palo Alto, California 94303 • Telephone Number (415) 968-6250
Telex Number [illegible]

ANRESCO
INCORPORATED
ANALYSIS RESEARCH

1370 - VAN DYKE AVENUE
SAN FRANCISCO, CALIFORNIA 94124
(415) 822-1100

07 October 1987

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303

File No. 987125 A-E

Attn: Mr. Bob Breynaert

Re: Two water samples and three water blanks as labeled below for EPA methods 601, 602 plus Methyl Ethyl Keytone and Xylene.
A) V-2; B) V-4; C) Field Blank (8:00);
D) Field Blank (8:15); E) Method Blank

Received: 9-28-87

ANALYSIS

ANRESCO #	SAMPLE #	RESULTS		
		EPA-601		
987125A	V-2	Chloroethane	26	ppb
		Methylene Chloride	4600	ppb
		1,1 Dichloroethene	76	ppb
		1,1 Dichloroethane	700	ppb
		1,1,1 Trichloroethane	500	ppb
		Chlorobenzene	37	ppb
		EPA-602		
	V-2	Benzene	7	ppb
		Toluene	200	ppb
		Chlorobenzene	37	ppb
		Methyle Ethyl Keytone	27	ppb
		Xylene	44	ppb
		EPA-601		
987125B	V-4	Chloroethane	59	ppb
		Methylene Chloride	3	ppb
		1,1 Dichloroethene	28	ppb
		1,1 Dichloroethane	1000	ppb
		1,1,1 Trichloroethane	20	ppb
		Chlorobenzene	8	ppb
		1,2 Dichloroethane	8	ppb
		EPA-602		
		Toluene	17	ppb
		Chlorobenzene	8	ppb

File No. 987125 A-C

ANRESCO #	SAMPLE #	RESULTS	
987125C		EPA-601	None Detected
		EPA-602	None Detected
		MEK, Xylene	None Detected
987125D		Same as 987175C	
987125E		Same as 987175C	

Limit of Detection on all compounds listed in methods 601 & 602 but not detected in these samples is estimated to be 10 ppb or less.

Spike Recoveries:

Sample V-4 was spiked at a level of 10 ppb with methylene chloride and toluene.

Recovery $MeCl_2$ = 90%
Recovery Toluene = 75%

Samples were not filtered.

Reported by,

ANRESCO, INC.

Mary Mesics
Mary Mesics
Senior Chemist

Eric Tam
Eric Tam
Senior Chemist

MM/ET:sc

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 01/12/88
Date Received: 01/12/88
Date Reported: 02/24/88
Project: JCO-104H

TOTAL PETROLEUM HYDROCARBONS

Sample Number	Sample Description	Detection Limit ppb	High Boiling Point Hydrocarbons ppb
	Water,		
8010573	V-1	50	360
8010574	V-2	50	47,000
8010575	V-3	50	20,000
8010576	V-4	50	2,200
8010577	V-5	50	< 50
8010578	V-6	50	< 50
8010579	V-7	50	< 50
8010580	I-1	50	< 50
8010581	I-2	50	< 50
8010582	I-3	50	< 50

Method of Analysis: EPA 3510/8015

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 01/12/88
Date Received: 01/12/88
Date Analyzed: 01/25/88
Date Reported: 02/24/88

Project: JCO-104H

Sample Number	Sample Description
8010573	Water, V-1

PRIORITY POLLUTANTS

PURGEABLE HALOCARBONS & AROMATICS
results in ppb

Benzene	< 0.5	1,2-Dichloropropane	< 0.5
Bromomethane	< 0.5	1,3-Dichloropropane	< 0.5
Bromodichloromethane	< 0.5	Ethylbenzene	< 0.5
Bromoform	< 0.5	Methylene chloride	1.4
Carbon tetrachloride	< 0.5	1,1,2,2-Tetrachloroethane	< 0.5
Chlorobenzene	< 0.5	Tetrachloroethene	< 0.5
Chloroethane	3.1	1,1,1-Trichloroethane	< 0.5
2-Chloroethylvinyl ether	< 0.5	1,1,2-Trichloroethane	< 0.5
Chloroform	< 0.5	Trichloroethene	< 0.5
Chloromethane	< 0.5	Toluene	< 0.5
Dibromochloromethane	< 0.5	Vinyl chloride	< 0.5
1,1-Dichloroethane	4.0	1,2-Dichlorobenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,3-Dichlorobenzene	< 0.5
1,1-Dichloroethene	0.7	1,4-Dichlorobenzene	< 0.5
trans-1,2-Dichloroethene	1.6		

Method of Analysis: EPA 601/602

SEQUOIA ANALYTICAL LABORATORY

Scot Cetanour

Arthur G. Burton
Laboratory Director

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 01/12/88
Date Received: 01/12/88
Date Analyzed: 01/25/88
Date Reported: 02/24/88

Project: JCO-104H

Sample Number	Sample Description
8010573	Water, V-1

NON-PRIORITY POLLUTANTS
PURGEABLE AROMATICS
results in ppb

Xylene	< 1
Methyl Ethyl Ketone	< 1
Methyl Isobutyl Ketone	< 1

Method of Analysis: EPA 602

SEQUOIA ANALYTICAL LABORATORY

Scot Cocanour

Arthur G. Burton
Laboratory Director

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 01/12/88
Date Received: 01/12/88
Date Extracted: 01/25/88
Date Reported: 02/24/88

Project: JCO-104H

Sample Number	Sample Description
8010573	Water, V-1

PRIORITY POLLUTANTS

PHENOLS

results in ppb

4-Chloro-3-methylphenol	< 10
2-Chlorophenol	< 10
2,4-Dichlorophenol	< 10
2,4-Dimethylphenol	< 10
2,4-Dinitrophenol	< 15
2-Methyl-4,6-dinitrophenol	< 15
2-Nitrophenol	< 10
4-Nitrophenol	< 5
Pentachlorophenol	< 10
Phenol	< 10
2,4,6-Trichlorophenol	< 10

Method of Analysis: EPA 604

SEQUOIA ANALYTICAL LABORATORY

Scot Cocanour

Arthur G. Burton
Laboratory Director

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 01/12/88
Date Received: 01/12/88
Date Reported: 02/24/88

Project: JCO-104H

Sample Number	Sample Description
8010573	Water, V-1

ANALYSIS

Ethanol, ppb	< 10
Methanol, ppb	< 10
Acetone, ppb	14
Isopropanol, ppb	< 10

SEQUOIA ANALYTICAL LABORATORY

Scot Cocanour

Arthur G. Burton
Laboratory Director

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 01/12/88
Date Received: 01/12/88
Date Analyzed: 01/25/88
Date Reported: 02/24/88

Project: JCO-104H

Sample Number	Sample Description
8010574	Water, V-2

PRIORITY POLLUTANTS

PURGEABLE HALOCARBONS & AROMATICS
results in ppb

Benzene	< 0.5	1,2-Dichloropropane	< 0.5
Bromomethane	< 0.5	1,3-Dichloropropane	< 0.5
Bromodichloromethane	< 0.5	Ethylbenzene	12
Bromoform	< 0.5	Methylene chloride	6,800
Carbon tetrachloride	< 0.5	1,1,2,2-Tetrachloroethane	< 0.5
Chlorobenzene	< 0.5	Tetrachloroethene	0.6
Chloroethane	180	1,1,1-Trichloroethane	200
2-Chloroethylvinyl ether	< 0.5	1,1,2-Trichloroethane	< 0.5
Chloroform	< 0.5	Trichloroethene	12
Chloromethane	< 0.5	Toluene	35
Dibromochloromethane	0.8	Vinyl chloride	7.2
1,1-Dichloroethane	250	1,2-Dichlorobenzene	< 0.5
1,2-Dichloroethane	6.5	1,3-Dichlorobenzene	25
1,1-Dichloroethene	26	1,4-Dichlorobenzene	< 0.5
trans-1,2-Dichloroethene	4.6		

Method of Analysis: EPA 601/602

SEQUOIA ANALYTICAL LABORATORY

Scott Cocanour

Arthur G. Burton
Laboratory Director

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 01/12/88
Date Received: 01/12/88
Date Analyzed: 01/25/88
Date Reported: 02/24/88

Project: JCO-104H

Sample Number	Sample Description
8010574	Water, V-2

NON-PRIORITY POLLUTANTS
PURGEABLE AROMATICS
results in ppb

Xylene	80
Methyl Ethyl Ketone	14
Methyl Isobutyl Ketone	< 1

Method of Analysis: EPA 602

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

SEQUOIA Analytical Laboratory
2549 Middlefield Road
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Attn: Bob Breynaert

Date Sampled: 01/12/88
Date Received: 01/12/88
Date Extracted: 01/25/88
Date Reported: 02/24/88

Project: JCO-104H

Sample Number	Sample Description
8010574	Water, V-2

PRIORITY POLLUTANTS

PHENOLS
results in ppb

4-Chloro-3-methylphenol	< 10
2-Chlorophenol	< 10
2,4-Dichlorophenol	< 10
2,4-Dimethylphenol	< 10
2,4-Dinitrophenol	< 15
2-Methyl-4,6-dinitrophenol	< 15
2-Nitrophenol	< 10
4-Nitrophenol	< 5
Pentachlorophenol	< 10
Phenol	< 10
2,4,6-Trichlorophenol	< 10

Method of Analysis: EPA 604

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Date Reported: 02/24/88

Project: JCO-104H

Sample Number	Sample Description
8010574	Water, V-2

ANALYSIS

Ethanol, ppb	26
Methanol, ppb	< 10
Acetone, ppb	1,800
Isopropanol, ppb	92

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Date Reported: 02/24/88

Project: JCO-104H

Sample Number	Sample Description
8010584	Water, V-2, Duplicate

PRIORITY POLLUTANTS

PURGEABLE HALOCARBONS & AROMATICS
results in ppb

Benzene	< 0.5	1,2-Dichloropropane	< 0.5
Bromomethane	< 0.5	1,3-Dichloropropane	< 0.5
Bromodichloromethane	< 0.5	Ethylbenzene	7.6
Bromoform	< 0.5	Methylene chloride	5,300
Carbon tetrachloride	< 0.5	1,1,2,2-Tetrachloroethane	< 0.5
Chlorobenzene	< 0.5	Tetrachloroethene	< 0.5
Chloroethane	84	1,1,1-Trichloroethane	240
2-Chloroethylvinyl ether	< 0.5	1,1,2-Trichloroethane	< 0.5
Chloroform	< 0.5	Trichloroethene	9.9
Chloromethane	< 0.5	Toluene	21
Dibromochloromethane	< 0.5	Vinyl chloride	4.1
1,1-Dichloroethane	360	1,2-Dichlorobenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,3-Dichlorobenzene	10
1,1-Dichloroethene	2.0	1,4-Dichlorobenzene	< 0.5
trans-1,2-Dichloroethene	5.1		

Method of Analysis: EPA 601/602

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Project: JCO-104H

Sample Number	Sample Description
8010584	Water, V-2, Duplicate

NON-PRIORITY POLLUTANTS
PURGEABLE AROMATICS
results in ppb

Xylene	62
Methyl Ethyl Ketone	2.1
Methyl Isobutyl Ketone	< 1

Method of Analysis: EPA 602

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Date Reported: 02/24/88

Project: JCO-104H

Sample Number	Sample Description
8010575	Water, V-3

PRIORITY POLLUTANTS

PURGEABLE HALOCARBONS & AROMATICS
results in ppb

Benzene	< 0.5	1,2-Dichloropropane	< 0.5
Bromomethane	< 0.5	1,3-Dichloropropane	< 0.5
Bromodichloromethane	< 0.5	Ethylbenzene	< 0.5
Bromoform	< 0.5	Methylene chloride	0.8
Carbon tetrachloride	< 0.5	1,1,2,2-Tetrachloroethane	< 0.5
Chlorobenzene	< 0.5	Tetrachloroethene	< 0.5
Chloroethane	< 0.5	1,1,1-Trichloroethane	0.8
2-Chloroethylvinyl ether	< 0.5	1,1,2-Trichloroethane	< 0.5
Chloroform	< 0.5	Trichloroethene	< 0.5
Chloromethane	< 0.5	Toluene	< 0.5
Dibromochloromethane	< 0.5	Vinyl chloride	0.6
1,1-Dichloroethane	8.0	1,2-Dichlorobenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,3-Dichlorobenzene	< 0.5
1,1-Dichloroethene	0.8	1,4-Dichlorobenzene	< 0.5
trans-1,2-Dichloroethene	4.0		

Method of Analysis: EPA 601/602

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Project: JCO-104H

Sample Number	Sample Description
8010575	Water, V-3

NON-PRIORITY POLLUTANTS
PURGEABLE AROMATICS
results in ppb

Xylene	< 1
Methyl Ethyl Ketone	< 1
Methyl Isobutyl Ketone	< 1

Method of Analysis: EPA 602

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Project: JCO-104H

Sample Number	Sample Description
8010575	Water, V-3

PRIORITY POLLUTANTS

PHENOLS
results in ppb

4-Chloro-3-methylphenol	< 10
2-Chlorophenol	< 10
2,4-Dichlorophenol	< 10
2,4-Dimethylphenol	< 10
2,4-Dinitrophenol	< 15
2-Methyl-4,6-dinitrophenol	< 15
2-Nitrophenol	< 10
4-Nitrophenol	< 5
Pentachlorophenol	< 10
Phenol	< 10
2,4,6-Trichlorophenol	< 10

Method of Analysis: EPA 604

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Project: JCO-104H

Sample Number	Sample Description
8010575	Water, V-3

ANALYSIS

Ethanol, ppb	< 10
Methanol, ppb	< 10
Acetone, ppb	< 10
Isopropanol, ppb	< 10

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Date Reported: 02/24/88

Project: JCO-104H

Sample Number	Sample Description
8010576	Water, V-4

PRIORITY POLLUTANTS

PURGEABLE HALOCARBONS & AROMATICS
results in ppb

Benzene	< 0.5	1,2-Dichloropropane	< 0.5
Bromomethane	< 0.5	1,3-Dichloropropane	< 0.5
Bromodichloromethane	< 0.5	Ethylbenzene	< 0.5
Bromoform	3.0	Methylene chloride	210
Carbon tetrachloride	< 0.5	1,1,2,2-Tetrachloroethane	< 0.5
Chlorobenzene	< 0.5	Tetrachloroethene	< 0.5
Chloroethane	28	1,1,1-Trichloroethane	250
2-Chloroethylvinyl ether	< 0.5	1,1,2-Trichloroethane	< 0.5
Chloroform	< 0.5	Trichloroethene	0.5
Chloromethane	< 0.5	Toluene	14
Dibromochloromethane	2.6	Vinyl chloride	10
1,1-Dichloroethane	530	1,2-Dichlorobenzene	< 0.5
1,2-Dichloroethane	4.1	1,3-Dichlorobenzene	< 0.5
1,1-Dichloroethene	63	1,4-Dichlorobenzene	< 0.5
trans-1,2-Dichloroethene	< 0.5		

Method of Analysis: EPA 601/602

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Date Reported: 02/24/88

Project: JCO-104H

Sample Number	Sample Description
8010576	Water, V-4

NON-PRIORITY POLLUTANTS
PURGEABLE AROMATICS
results in ppb

Xylene	< 1
Methyl Ethyl Ketone	< 1
Methyl Isobutyl Ketone	< 1

Method of Analysis: EPA 602

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Project: JCO-104H

Sample Number	Sample Description
8010576	Water, V-4

PRIORITY POLLUTANTS

PHENOLS
results in ppb

4-Chloro-3-methylphenol	< 10
2-Chlorophenol	< 10
2,4-Dichlorophenol	< 10
2,4-Dimethylphenol	< 10
2,4-Dinitrophenol	< 15
2-Methyl-4,6-dinitrophenol	< 15
2-Nitrophenol	< 10
4-Nitrophenol	< 5
Pentachlorophenol	< 10
Phenol	< 10
2,4,6-Trichlorophenol	< 10

Method of Analysis: EPA 604

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Project: JCO-104H

Sample Number	Sample Description
8010576	Water, V-4

ANALYSIS

Ethanol, ppb	< 10
Methanol, ppb	< 10
Acetone, ppb	18
Isopropanol, ppb	< 10

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Project: JCO-104H

Sample Number	Sample Description
8010583	Water, V-4, Duplicate

PRIORITY POLLUTANTS

PURGEABLE HALOCARBONS & AROMATICS
results in ppb

Benzene	< 0.5	1,2-Dichloropropane	< 0.5
Bromomethane	< 0.5	1,3-Dichloropropane	< 0.5
Bromodichloromethane	< 0.5	Ethylbenzene	< 0.5
Bromoform	5.1	Methylene chloride	220
Carbon tetrachloride	< 0.5	1,1,2,2-Tetrachloroethane	< 0.5
Chlorobenzene	< 0.5	Tetrachloroethene	< 0.5
Chloroethane	41	1,1,1-Trichloroethane	250
2-Chloroethylvinyl ether	< 0.5	1,1,2-Trichloroethane	< 0.5
Chloroform	< 0.5	Trichloroethene	< 0.5
Chloromethane	< 0.5	Toluene	10
Dibromochloromethane	2.7	Vinyl chloride	15
1,1-Dichloroethane	550	1,2-Dichlorobenzene	< 0.5
1,2-Dichloroethane	5.2	1,3-Dichlorobenzene	< 0.5
1,1-Dichloroethene	75	1,4-Dichlorobenzene	< 0.5
trans-1,2-Dichloroethene	< 0.5		

Method of Analysis: EPA 601/602

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Date Reported: 02/24/88

Project: JCO-104H

Sample Number	Sample Description
8010583	Water, V-4, Duplicate

NON-PRIORITY POLLUTANTS
PURGEABLE AROMATICS
results in ppb

Xylene	< 1
Methyl Ethyl Ketone	< 1
Methyl Isobutyl Ketone	< 1

Method of Analysis: EPA 602

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Project: JCO-104H

Sample Number	Sample Description
8010577	Water, V-5

PRIORITY POLLUTANTS

PURGEABLE HALOCARBONS & AROMATICS
results in ppb

Benzene	< 0.5	1,2-Dichloropropane	< 0.5
Bromomethane	< 0.5	1,3-Dichloropropane	< 0.5
Bromodichloromethane	< 0.5	Ethylbenzene	< 0.5
Bromoform	< 0.5	Methylene chloride	< 0.5
Carbon tetrachloride	< 0.5	1,1,2,2-Tetrachloroethane	< 0.5
Chlorobenzene	< 0.5	Tetrachloroethene	< 0.5
Chloroethane	< 0.5	1,1,1-Trichloroethane	< 0.5
2-Chloroethylvinyl ether	< 0.5	1,1,2-Trichloroethane	< 0.5
Chloroform	< 0.5	Trichloroethene	< 0.5
Chloromethane	< 0.5	Toluene	< 0.5
Dibromochloromethane	< 0.5	Vinyl chloride	< 0.5
1,1-Dichloroethane	< 0.5	1,2-Dichlorobenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,3-Dichlorobenzene	< 0.5
1,1-Dichloroethene	< 0.5	1,4-Dichlorobenzene	< 0.5
trans-1,2-Dichloroethene	< 0.5		

Method of Analysis: EPA 601/602

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Date Reported: 02/24/88

Project: JCO-104H

Sample Number	Sample Description
8010577	Water, V-5

NON-PRIORITY POLLUTANTS
PURGEABLE AROMATICS
results in ppb

Xylene	< 1
Methyl Ethyl Ketone	< 1
Methyl Isobutyl Ketone	< 1

Method of Analysis: EPA 602

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Project: JCO-104H

Sample Number	Sample Description
8010577	Water, V-5

PRIORITY POLLUTANTS

PHENOLS
results in ppb

4-Chloro-3-methylphenol	< 10
2-Chlorophenol	< 10
2,4-Dichlorophenol	< 10
2,4-Dimethylphenol	< 10
2,4-Dinitrophenol	< 15
2-Methyl-4,6-dinitrophenol	< 15
2-Nitrophenol	< 10
4-Nitrophenol	< 5
Pentachlorophenol	< 10
Phenol	< 10
2,4,6-Trichlorophenol	< 10

Method of Analysis: EPA 604

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Project: JCO-104H

Sample Number	Sample Description
8010577	Water, V-5

ANALYSIS

Ethanol, ppb	< 10
Methanol, ppb	< 10
Acetone, ppb	< 10
Isopropanol, ppb	< 10

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Project: JCO-104H

Sample Number	Sample Description
8010578	Water, V-6

PRIORITY POLLUTANTS

PURGEABLE HALOCARBONS & AROMATICS
results in ppb

Benzene	< 0.5	1,2-Dichloropropane	< 0.5
Bromomethane	< 0.5	1,3-Dichloropropane	< 0.5
Bromodichloromethane	< 0.5	Ethylbenzene	< 0.5
Bromoform	< 0.5	Methylene chloride	< 0.5
Carbon tetrachloride	< 0.5	1,1,2,2-Tetrachloroethane	< 0.5
Chlorobenzene	< 0.5	Tetrachloroethene	< 0.5
Chloroethane	< 0.5	1,1,1-Trichloroethane	2.6
2-Chloroethylvinyl ether	< 0.5	1,1,2-Trichloroethane	< 0.5
Chloroform	< 0.5	Trichloroethene	< 0.5
Chloromethane	< 0.5	Toluene	< 0.5
Dibromochloromethane	< 0.5	Vinyl chloride	< 0.5
1,1-Dichloroethane	< 0.5	1,2-Dichlorobenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,3-Dichlorobenzene	< 0.5
1,1-Dichloroethene	< 0.5	1,4-Dichlorobenzene	< 0.5
trans-1,2-Dichloroethene	< 0.5		

Method of Analysis: EPA 601/602

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Date Reported: 02/24/88

Project: JCO-104H

Sample Number	Sample Description
8010578	Water, V-6

NON-PRIORITY POLLUTANTS
PURGEABLE AROMATICS
results in ppb

Xylene	< 1
Methyl Ethyl Ketone	< 1
Methyl Isobutyl Ketone	< 1

Method of Analysis: EPA 602

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Project: JCO-104H

Sample Number	Sample Description
8010578	Water, V-6

PRIORITY POLLUTANTS

PHENOLS
results in ppb

4-Chloro-3-methylphenol	< 10
2-Chlorophenol	< 10
2,4-Dichlorophenol	< 10
2,4-Dimethylphenol	< 10
2,4-Dinitrophenol	< 15
2-Methyl-4,6-dinitrophenol	< 15
2-Nitrophenol	< 10
4-Nitrophenol	< 5
Pentachlorophenol	< 10
Phenol	< 10
2,4,6-Trichlorophenol	< 10

Method of Analysis: EPA 604

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Date Reported: 02/24/88

Project: JCO-104H

Sample Number	Sample Description
8010578	Water, V-6

ANALYSIS

Ethanol, ppb	< 10
Methanol, ppb	< 10
Acetone, ppb	< 10
Isopropanol, ppb	< 10

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Date Reported: 02/24/88

Project: JCO-104H

Sample Number	Sample Description
8010579	Water, V-7

PRIORITY POLLUTANTS

PURGEABLE HALOCARBONS & AROMATICS
results in ppb

Benzene	< 0.5	1,2-Dichloropropane	< 0.5
Bromomethane	< 0.5	1,3-Dichloropropane	< 0.5
Bromodichloromethane	< 0.5	Ethylbenzene	< 0.5
Bromoform	< 0.5	Methylene chloride	< 0.5
Carbon tetrachloride	< 0.5	1,1,2,2-Tetrachloroethane	< 0.5
Chlorobenzene	< 0.5	Tetrachloroethene	< 0.5
Chloroethane	< 0.5	1,1,1-Trichloroethane	12
2-Chloroethylvinyl ether	< 0.5	1,1,2-Trichloroethane	< 0.5
Chloroform	0.7	Trichloroethene	< 0.5
Chloromethane	< 0.5	Toluene	< 0.5
Dibromochloromethane	< 0.5	Vinyl chloride	1.2
1,1-Dichloroethane	14	1,2-Dichlorobenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,3-Dichlorobenzene	< 0.5
1,1-Dichloroethene	3.5	1,4-Dichlorobenzene	< 0.5
trans-1,2-Dichloroethene	< 0.5		

Method of Analysis: EPA 601/602

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Date Analyzed: 01/25/88
Date Reported: 02/24/88

Project: JCO-104H

Sample Number	Sample Description
8010579	Water, V-7

NON-PRIORITY POLLUTANTS
PURGEABLE AROMATICS
results in ppb

Xylene	< 1
Methyl Ethyl Ketone	< 1
Methyl Isobutyl Ketone	< 1

Method of Analysis: EPA 602

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 01/12/88
Date Received: 01/12/88
Date Extracted: 01/25/88
Date Reported: 02/24/88

Project: JCO-104H

Sample Number	Sample Description
8010579	Water, V-7

PRIORITY POLLUTANTS

PHENOLS
results in ppb

4-Chloro-3-methylphenol	< 10
2-Chlorophenol	< 10
2,4-Dichlorophenol	< 10
2,4-Dimethylphenol	< 10
2,4-Dinitrophenol	< 15
2-Methyl-4,6-dinitrophenol	< 15
2-Nitrophenol	< 10
4-Nitrophenol	< 5
Pentachlorophenol	< 10
Phenol	< 10
2,4,6-Trichlorophenol	< 10

Method of Analysis: EPA 604

SEQUOIA ANALYTICAL LABORATORY

Scot Cocanour

Arthur G. Burton
Laboratory Director

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Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 01/12/88
Date Received: 01/12/88
Date Reported: 02/24/88

Project: JCO-104H

Sample Number	Sample Description
8010579	Water, V-7

ANALYSIS

Ethanol, ppb	< 10
Methanol, ppb	< 10
Acetone, ppb	< 10
Isopropanol, ppb	< 10

SEQUOIA ANALYTICAL LABORATORY

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Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 01/12/88
Date Received: 01/12/88
Date Analyzed: 01/25/88
Date Reported: 02/24/88

Project: JCO-104H

Sample Number	Sample Description
8010580	Water, I-1

PRIORITY POLLUTANTS

PURGEABLE HALOCARBONS & AROMATICS
results in ppb

Benzene	< 0.5	1,2-Dichloropropane	< 0.5
Bromomethane	< 0.5	1,3-Dichloropropane	< 0.5
Bromodichloromethane	< 0.5	Ethylbenzene	< 0.5
Bromoform	< 0.5	Methylene chloride	< 0.5
Carbon tetrachloride	< 0.5	1,1,2,2-Tetrachloroethane	< 0.5
Chlorobenzene	< 0.5	Tetrachloroethene	< 0.5
Chloroethane	< 0.5	1,1,1-Trichloroethane	2.1
2-Chloroethylvinyl ether	< 0.5	1,1,2-Trichloroethane	< 0.5
Chloroform	< 0.5	Trichloroethene	< 0.5
Chloromethane	< 0.5	Toluene	< 0.5
Dibromochloromethane	< 0.5	Vinyl chloride	< 0.5
1,1-Dichloroethane	1.2	1,2-Dichlorobenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,3-Dichlorobenzene	< 0.5
1,1-Dichloroethene	< 0.5	1,4-Dichlorobenzene	< 0.5
trans-1,2-Dichloroethene	< 0.5		

Method of Analysis: EPA 601/602

SEQUOIA ANALYTICAL LABORATORY

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Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 01/12/88
Date Received: 01/12/88
Date Analyzed: 01/25/88
Date Reported: 02/24/88

Project: JCO-104H

Sample Number	Sample Description
8010580	Water, I-1

NON-PRIORITY POLLUTANTS
PURGEABLE AROMATICS
results in ppb

Xylene	< 1
Methyl Ethyl Ketone	< 1
Methyl Isobutyl Ketone	< 1

Method of Analysis: EPA 602

SEQUOIA ANALYTICAL LABORATORY

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Attn: Bob Breynaert

Date Sampled: 01/12/88
Date Received: 01/12/88
Date Extracted: 01/25/88
Date Reported: 02/24/88

Project: JCO-104H

Sample Number	Sample Description
8010580	Water, I-1

PRIORITY POLLUTANTS

PHENOLS
results in ppb

4-Chloro-3-methylphenol	< 10
2-Chlorophenol	< 10
2,4-Dichlorophenol	< 10
2,4-Dimethylphenol	< 10
2,4-Dinitrophenol	< 15
2-Methyl-4,6-dinitrophenol	< 15
2-Nitrophenol	< 10
4-Nitrophenol	< 5
Pentachlorophenol	< 10
Phenol	< 10
2,4,6-Trichlorophenol	< 10

Method of Analysis: EPA 604

SEQUOIA ANALYTICAL LABORATORY

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Attn: Bob Breynaert

Date Sampled: 01/12/88
Date Received: 01/12/88
Date Reported: 02/24/88

Project: JCO-104H

Sample Number	Sample Description
8010580	Water, I-1

ANALYSIS

Ethanol, ppb	< 10
Methanol, ppb	< 10
Acetone, ppb	< 10
Isopropanol, ppb	< 10

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
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Attn: Bob Breynaert

Date Sampled: 01/12/88
Date Received: 01/12/88
Date Analyzed: 01/25/88
Date Reported: 02/24/88

Project: JCO-104H

Sample Number	Sample Description
8010581	Water, I-2

PRIORITY POLLUTANTS

PURGEABLE HALOCARBONS & AROMATICS
results in ppb

Benzene	< 0.5	1,2-Dichloropropane	< 0.5
Bromomethane	< 0.5	1,3-Dichloropropane	< 0.5
Bromodichloromethane	< 0.5	Ethylbenzene	< 0.5
Bromoform	< 0.5	Methylene chloride	< 0.5
Carbon tetrachloride	< 0.5	1,1,2,2-Tetrachloroethane	< 0.5
Chlorobenzene	< 0.5	Tetrachloroethene	< 0.5
Chloroethane	< 0.5	1,1,1-Trichloroethane	3.2
2-Chloroethylvinyl ether	< 0.5	1,1,2-Trichloroethane	< 0.5
Chloroform	< 0.5	Trichloroethene	< 0.5
Chloromethane	< 0.5	Toluene	< 0.5
Dibromochloromethane	< 0.5	Vinyl chloride	< 0.5
1,1-Dichloroethane	10	1,2-Dichlorobenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,3-Dichlorobenzene	< 0.5
1,1-Dichloroethene	3.0	1,4-Dichlorobenzene	< 0.5
trans-1,2-Dichloroethene	< 0.5		

Method of Analysis: EPA 601/602

SEQUOIA ANALYTICAL LABORATORY

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Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 01/12/88
Date Received: 01/12/88
Date Analyzed: 01/25/88
Date Reported: 02/24/88

Project: JCO-104H

Sample Number	Sample Description
8010581	Water, I-2

NON-PRIORITY POLLUTANTS
PURGEABLE AROMATICS
results in ppb

Xylene	< 1
Methyl Ethyl Ketone	< 1
Methyl Isobutyl Ketone	< 1

Method of Analysis: EPA 602

SEQUOIA ANALYTICAL LABORATORY

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Attn: Bob Breynaert

Date Sampled: 01/12/88
Date Received: 01/12/88
Date Extracted: 01/25/88
Date Reported: 02/24/88

Project: JCO-104H

Sample Number	Sample Description
8010581	Water, I-2

PRIORITY POLLUTANTS

PHENOLS
results in ppb

4-Chloro-3-methylphenol	< 10
2-Chlorophenol	< 10
2,4-Dichlorophenol	< 10
2,4-Dimethylphenol	< 10
2,4-Dinitrophenol	< 15
2-Methyl-4,6-dinitrophenol	< 15
2-Nitrophenol	< 10
4-Nitrophenol	< 5
Pentachlorophenol	< 10
Phenol	< 10
2,4,6-Trichlorophenol	< 10

Method of Analysis: EPA 604

SEQUOIA ANALYTICAL LABORATORY

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Attn: Bob Breynaert

Date Sampled: 01/12/88
Date Received: 01/12/88
Date Reported: 02/24/88

Project: JCO-104H

Sample Number	Sample Description
8010581	Water, I-2

ANALYSIS

Ethanol, ppb	< 10
Methanol, ppb	< 10
Acetone, ppb	< 10
Isopropanol, ppb	< 10

SEQUOIA ANALYTICAL LABORATORY

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1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 01/12/88
Date Received: 01/12/88
Date Analyzed: 01/25/88
Date Reported: 02/24/88

Project: JCO-104H

Sample Number	Sample Description
8010582	Water, I-3

PRIORITY POLLUTANTS

PURGEABLE HALOCARBONS & AROMATICS
results in ppb

Benzene	< 0.5	1,2-Dichloropropane	< 0.5
Bromomethane	< 0.5	1,3-Dichloropropane	< 0.5
Bromodichloromethane	< 0.5	Ethylbenzene	< 0.5
Bromoform	< 0.5	Methylene chloride	< 0.5
Carbon tetrachloride	< 0.5	1,1,2,2-Tetrachloroethane	< 0.5
Chlorobenzene	< 0.5	Tetrachloroethene	< 0.5
Chloroethane	< 0.5	1,1,1-Trichloroethane	< 0.5
2-Chloroethylvinyl ether	< 0.5	1,1,2-Trichloroethane	< 0.5
Chloroform	< 0.5	Trichloroethene	< 0.5
Chloromethane	< 0.5	Toluene	< 0.5
Dibromochloromethane	< 0.5	Vinyl chloride	4.0
1,1-Dichloroethane	< 0.5	1,2-Dichlorobenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,3-Dichlorobenzene	< 0.5
1,1-Dichloroethene	< 0.5	1,4-Dichlorobenzene	< 0.5
trans-1,2-Dichloroethene	< 0.5		

Method of Analysis: EPA 601/602

SEQUOIA ANALYTICAL LABORATORY

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1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 01/12/88
Date Received: 01/12/88
Date Analyzed: 01/25/88
Date Reported: 02/24/88

Project: JCO-104H

Sample Number	Sample Description
8010582	Water, I-3

NON-PRIORITY POLLUTANTS
PURGEABLE AROMATICS
results in ppb

Xylene	< 1
Methyl Ethyl Ketone	< 1
Methyl Isobutyl Ketone	< 1

Method of Analysis: EPA 602

SEQUOIA ANALYTICAL LABORATORY

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Attn: Bob Breynaert

Date Sampled: 01/12/88
Date Received: 01/12/88
Date Extracted: 01/25/88
Date Reported: 02/24/88

Project: JCO-104H

Sample Number	Sample Description
8010582	Water, I-3

PRIORITY POLLUTANTS

PHENOLS
results in ppb

4-Chloro-3-methylphenol	< 10
2-Chlorophenol	< 10
2,4-Dichlorophenol	< 10
2,4-Dimethylphenol	< 10
2,4-Dinitrophenol	< 15
2-Methyl-4,6-dinitrophenol	< 15
2-Nitrophenol	< 10
4-Nitrophenol	< 5
Pentachlorophenol	< 10
Phenol	< 10
2,4,6-Trichlorophenol	< 10

Method of Analysis: EPA 604

SEQUOIA ANALYTICAL LABORATORY

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Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 01/12/88
Date Received: 01/12/88
Date Reported: 02/24/88

Project: JCO-104H

Sample Number	Sample Description
8010582	Water, I-3

ANALYSIS

Ethanol, ppb	< 10
Methanol, ppb	< 10
Acetone, ppb	< 10
Isopropanol, ppb	< 10

SEQUOIA ANALYTICAL LABORATORY

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Arthur G. Burton
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Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 01/12/88
Date Received: 01/12/88
Date Reported: 02/24/88
Project: JCO-104H

Q.C. DATA REPORT

Analyst: Kevin Keeley
Date of Analysis: 1/25/88
Method of Analysis: EPA 601/602
Detection Limit: 0.5
Units: ppb

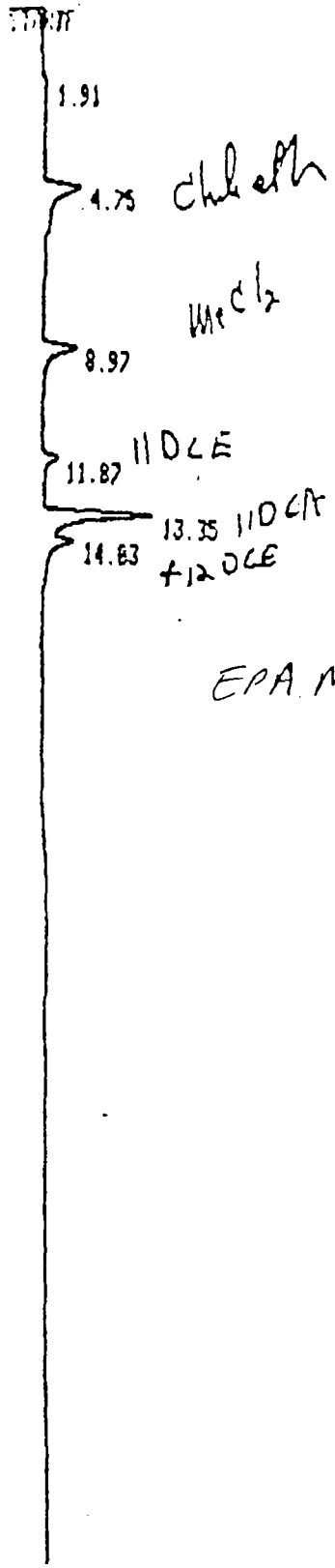
Sample Number	Analyte	Original Result	Duplicate Result	% Deviation
8010576	1,1 DCE	64	62	3.2

Sample Number	Analyte	Sample Contribution	Spike Added	Spike Result	% Recovery
8010579	$CHCl_3$	0.7	16	16.77	99

SEQUOIA ANALYTICAL LABORATORY

Scot Cocanour

Arthur G. Burton
Laboratory Director



- 573 Sand

EPA METHODS 601/602

STOP

KP

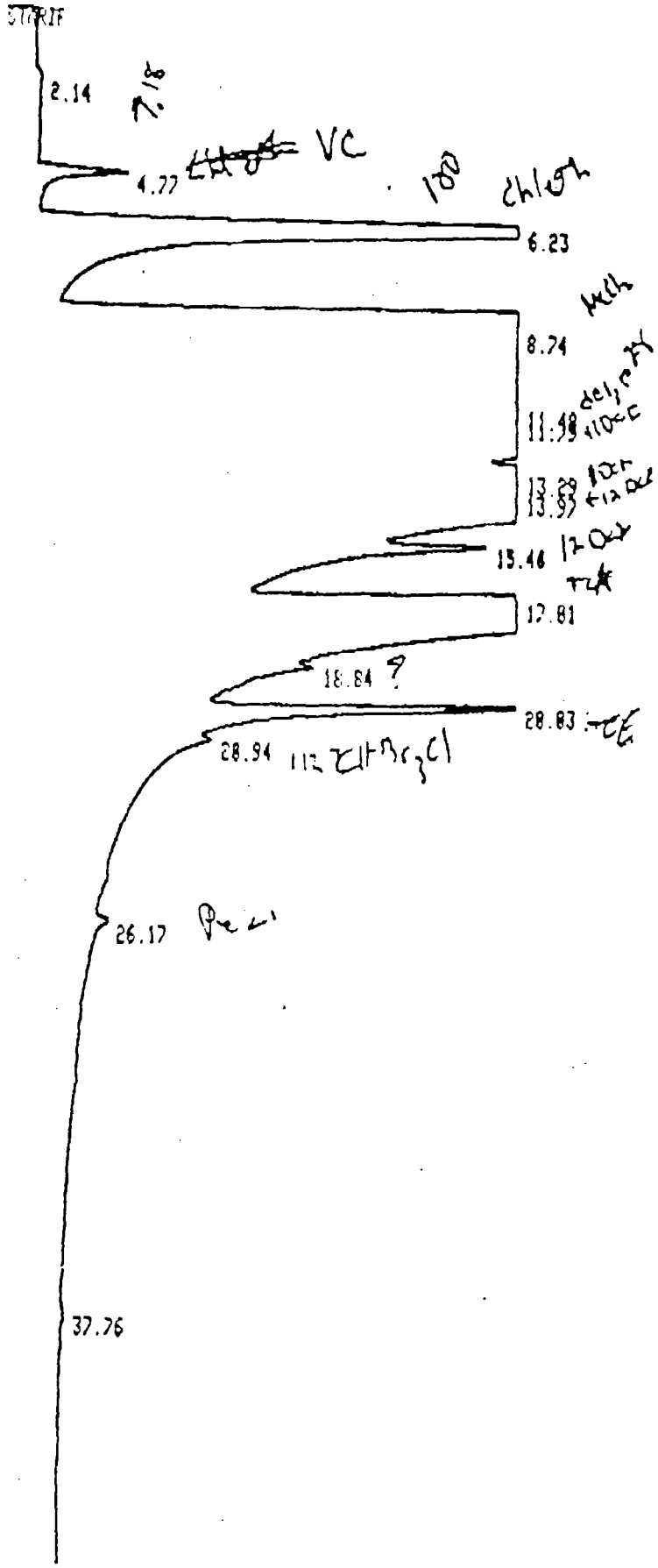
RUN # 531 JAN/25/88 14:25:38

AREA%

RT	AREA	TYPE	AR/HT	AREA%
1.91	19188	BB	0.232	1.042
4.75	367700	PB	0.368	19.977
8.97	286070	PB	0.291	15.541
11.87	106440	PB	0.237	5.782
13.35	826750	PV	0.267	44.916
14.03	234530	VB	0.286	12.742

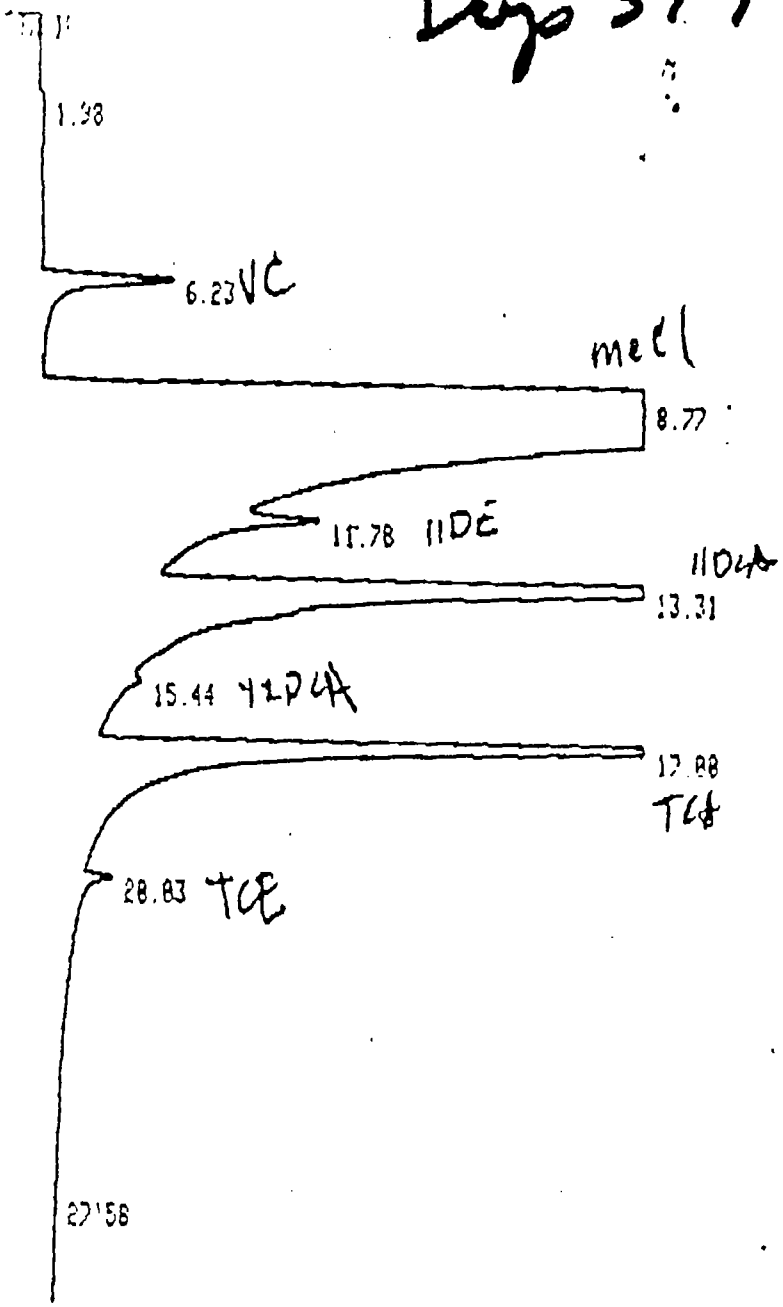
-574 5ml

-0574 5ml



STOP

Dup 574 500 µl



STOP

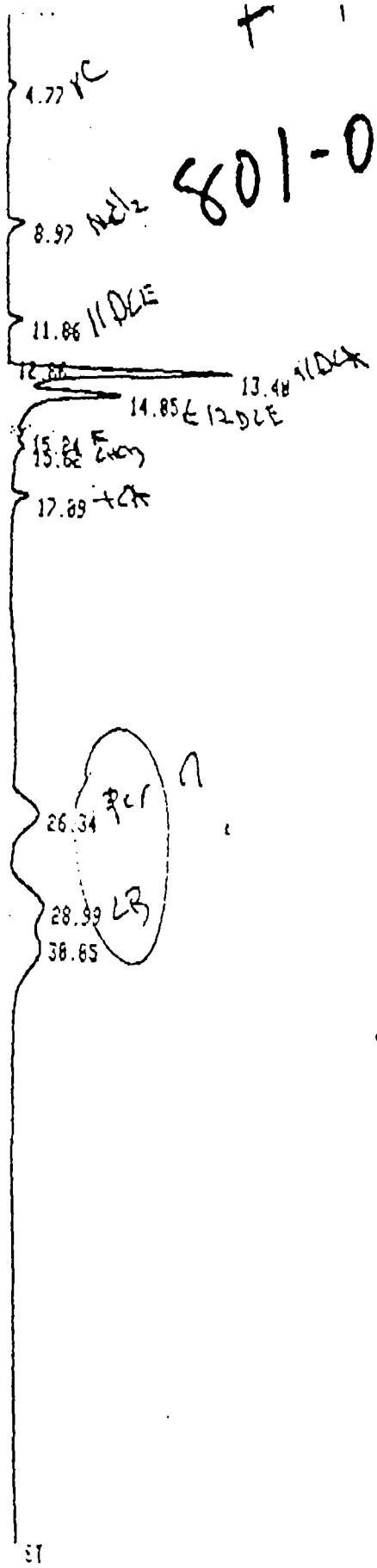
RUN # 346 JAN/20/98 09:12:34

AREA%

RT	AREA	TYPE	AR/HT	AREA%
1.98	114310	PV	0.688	0.038
6.23	924800	BB	0.274	0.308
8.77	2.7516E+03	VBBH	0.528	91.486
11.78	521880	TBB	0.252	0.174
13.31	1.4692E+07	TBV	0.307	4.885
15.44	135580	TVB	0.296	0.045
17.88	9840700	TBB	0.324	3.886
20.83	178778	TBB	0.245	0.059

TOTAL AREA= 3.0076E+03
FUL FACTOR= 1.0000E+00

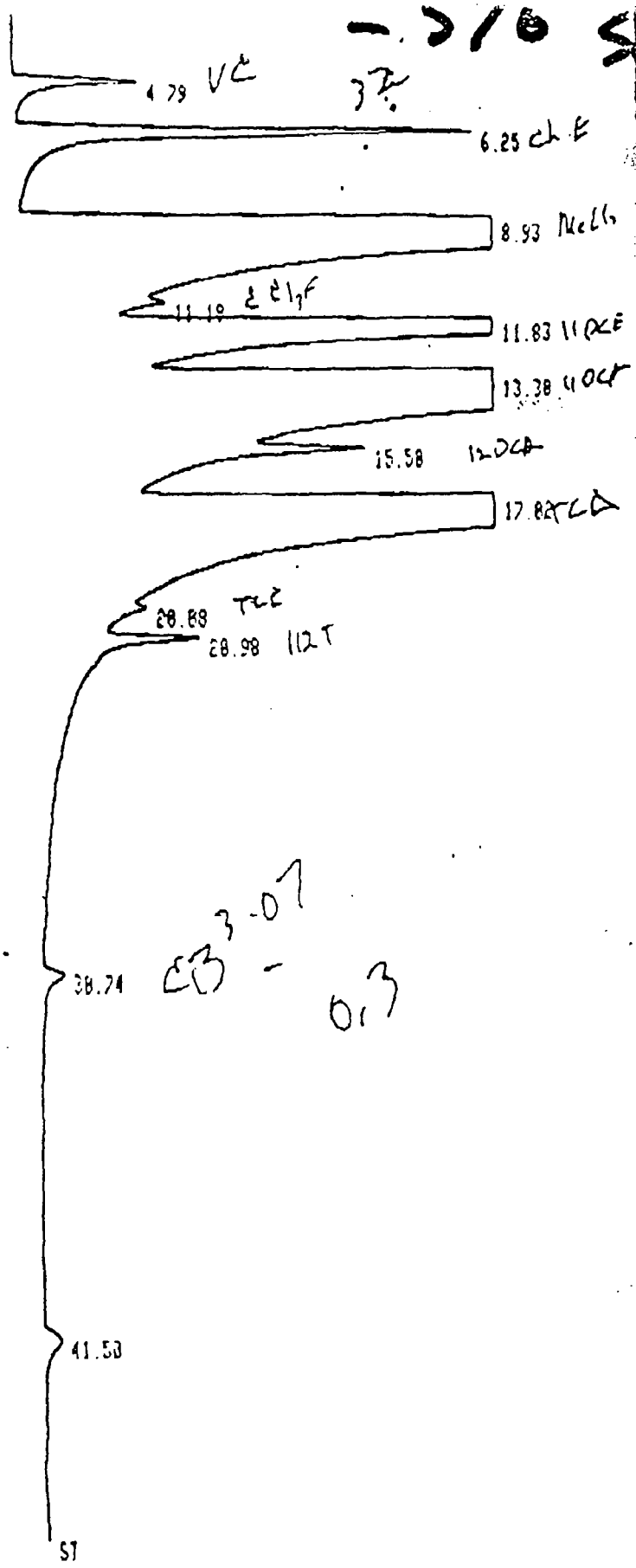
801-0575



RUN # 536 JAN/25/88 19:07:36

AREA%

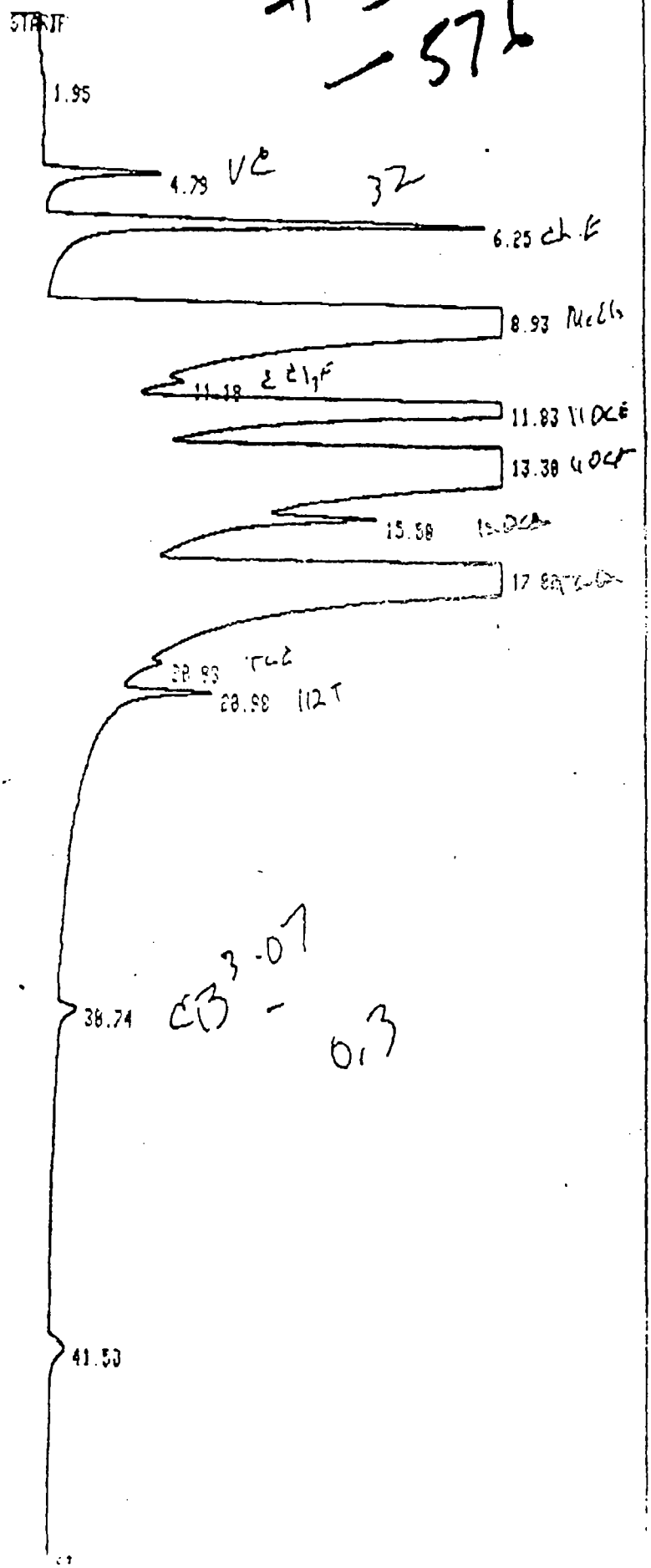
RT	AREA	TYPE	AR/HT	AREA%
1.24	[illegible]	FB	[illegible]	[illegible]
1.96	[illegible]	[illegible]	[illegible]	[illegible]



RUN # 537 06/23/88 20:09:01

AREA% RT	AREA	TYPE	HEIGHT	AREA%
1.35	[illegible]	PB	[illegible]	[illegible]
4.79	[illegible]	PB	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

#5
-576

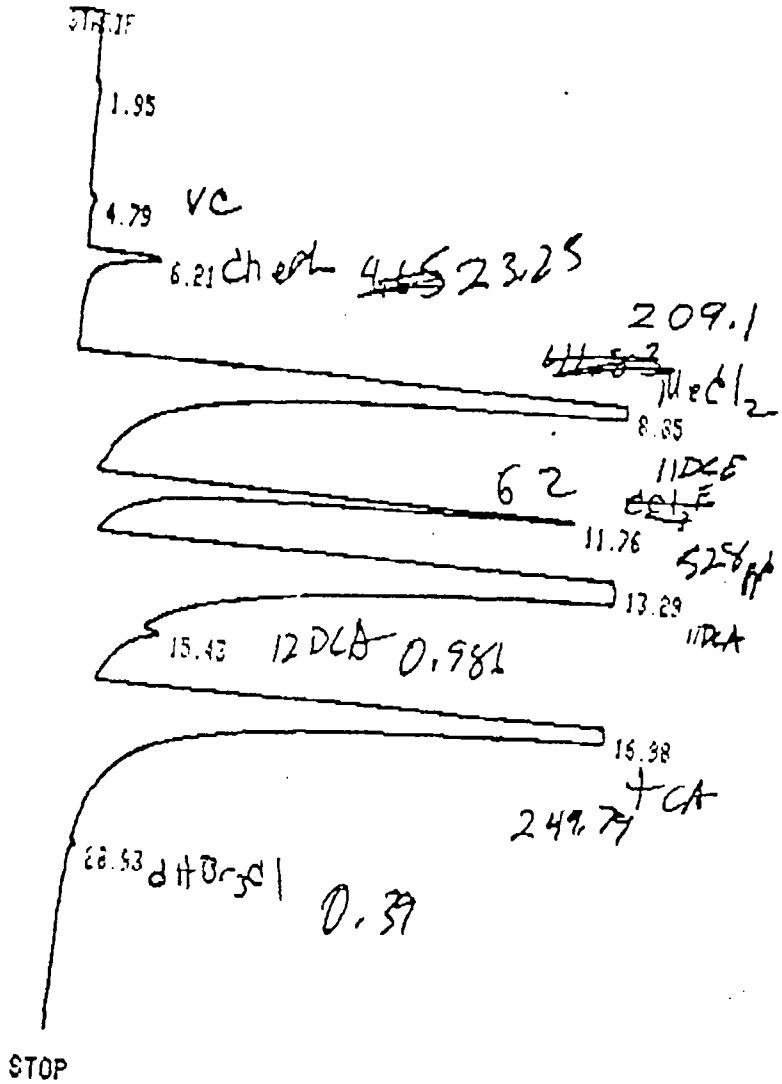


1.95
4.79 VC
32
6.25 ch.E
8.93 MeCl2
11.18 EClyF
11.83 11DCE
13.38 4DCF
15.58
17
28.93 TCE
28.98 112T
38.74
CB3-07
0.3
41.53

576

Dup 576 hml (B)

Dup -0576

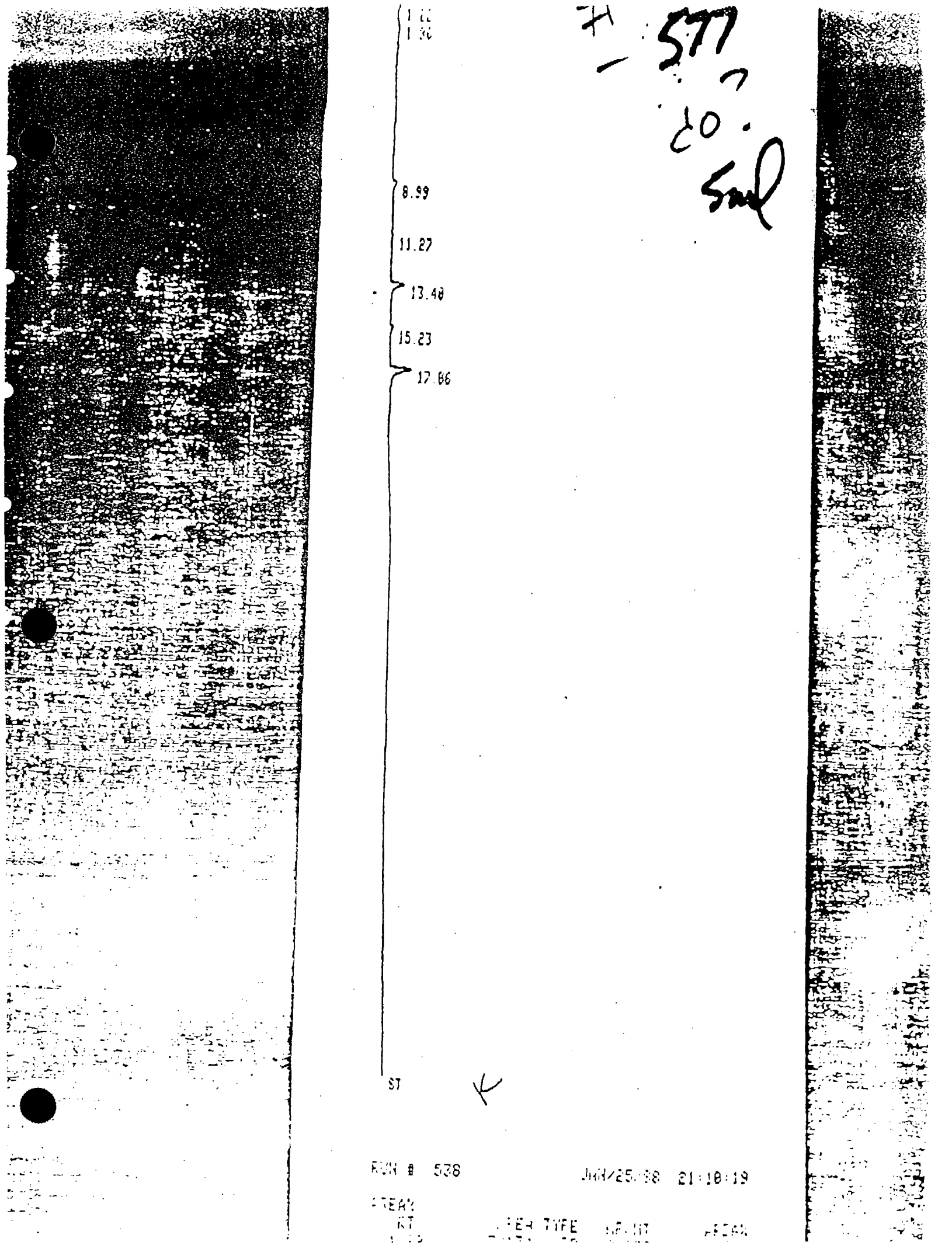


RUN # 545

JAN/26/88 08:41:44

AREA%

RT	AREA	TYPE	AR HT	AREA%
1.95	[illegible]	PB	[illegible]	[illegible]
4.79	[illegible]	PB	[illegible]	[illegible]
6.21	[illegible]	PB	[illegible]	0.040
8.85	1.7921E+07	PB	[illegible]	[illegible]
11.76	[illegible]	PB	[illegible]	20.352
13.29	4.3942E+07	PB	[illegible]	[illegible]
15.43	[illegible]	PB	[illegible]	[illegible]
16.98	2.1728E+07	PB	[illegible]	[illegible]
28.53	[illegible]	PB	[illegible]	[illegible]


8.99
11.27
13.40
15.23
17.86
ST
RUN # 538
JAN/25/88 21:10:19

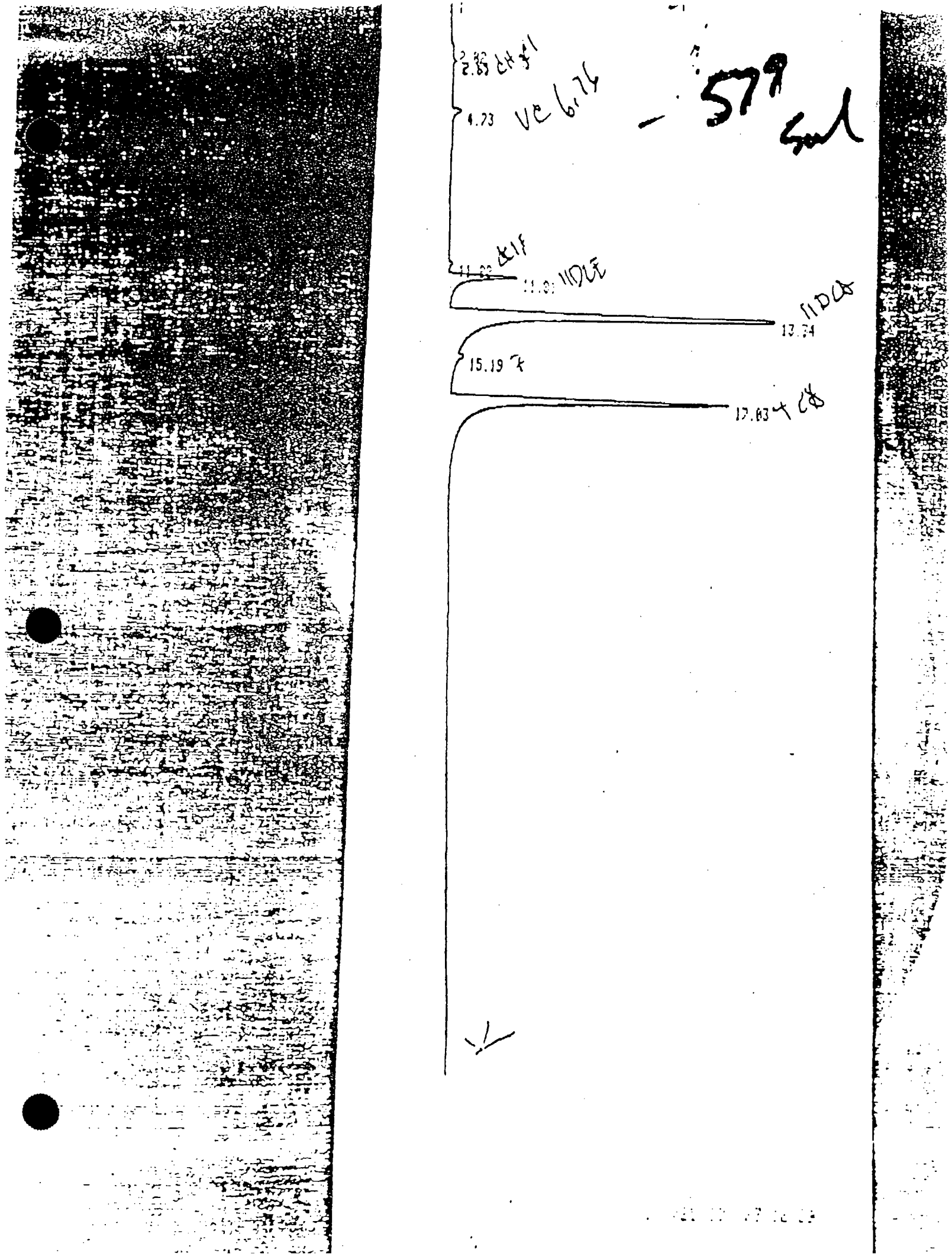
- 578 ?
20
Sml

11.22 CCl3F
11.87 11DLE
13.42 11DLA
14.29 CHCl3
15.22 Zn
17.85 TCA

7.4

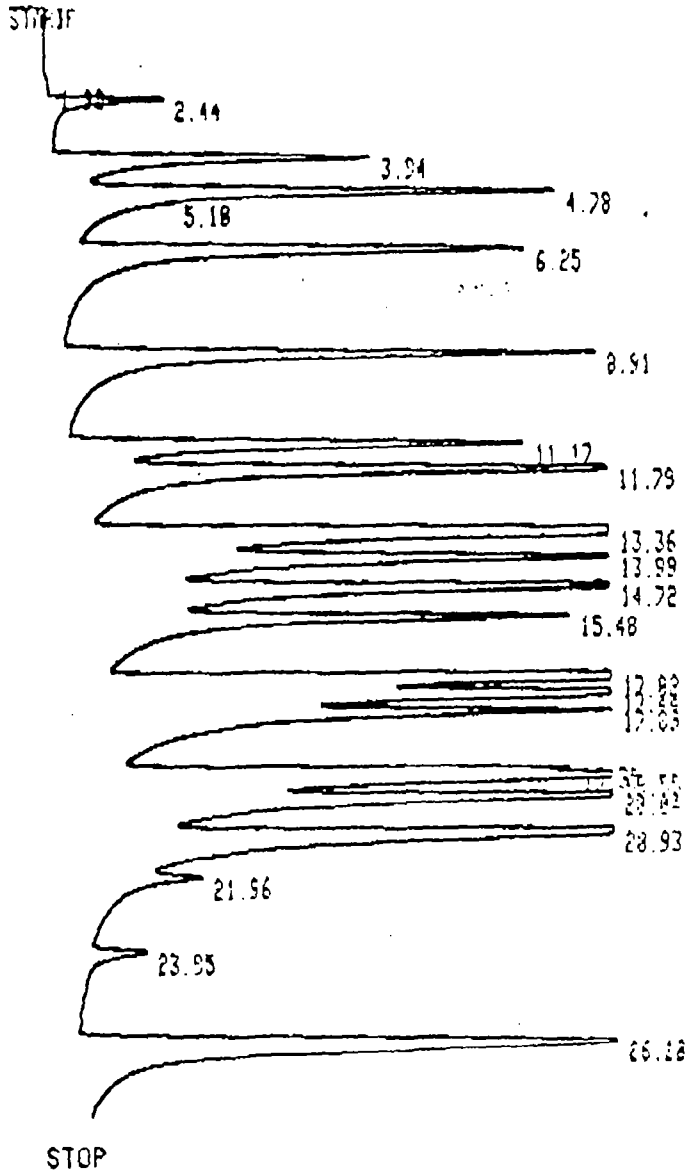
ST

AREAS
RT
1.25



4.73
VC 6.76
579
11.01
11DLE
11DLA
13.74
15.19
17.83

Sph 579



RUN # 549 JAN/26/88 10:29:12

AREA%

RT		AREA	TYPE	AR-HT	AREA%
1.98		15606	PB	0.241	0.019
2.44	clbcl	598120	PB	0.123	0.709
3.94		2574700	PV	0.296	3.052
4.78	VC	3299900	VV	0.244	3.911
5.10		702540	D VB	0.254	0.833
6.25		3299300	PB	[illegible]	[illegible]
8.91		[illegible]	PB	[illegible]	[illegible]
11.17	oc1,1	[illegible]	PV	[illegible]	[illegible]
11.79	1DCE	[illegible]	VB	[illegible]	[illegible]
13.36	11DCA	[illegible]	PV	[illegible]	[illegible]
13.99		[illegible]	VV	[illegible]	[illegible]
14.72		[illegible]	VV	[illegible]	[illegible]
15.48		[illegible]	VB	[illegible]	[illegible]
17.02	TCA	6973000	BV	[illegible]	[illegible]
17.44		[illegible]	VV	[illegible]	[illegible]
17.89		[illegible]	VB	[illegible]	[illegible]
19.35		[illegible]	PV	[illegible]	[illegible]

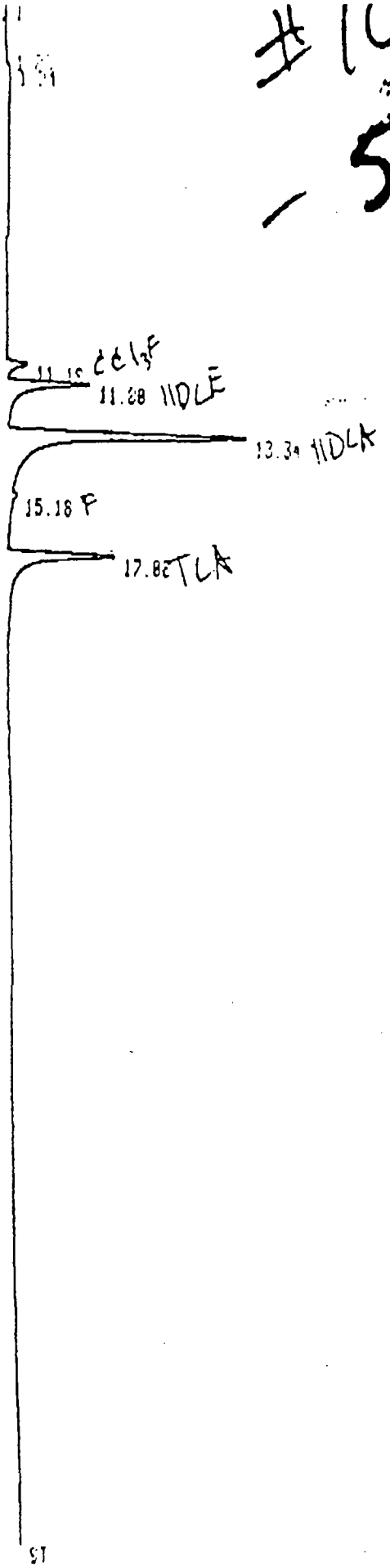
580 Sml

11.21 dCl3f
11.97 — 11DCE
13.32 11DCA
15.19 F
17.33 TCA

check 00'

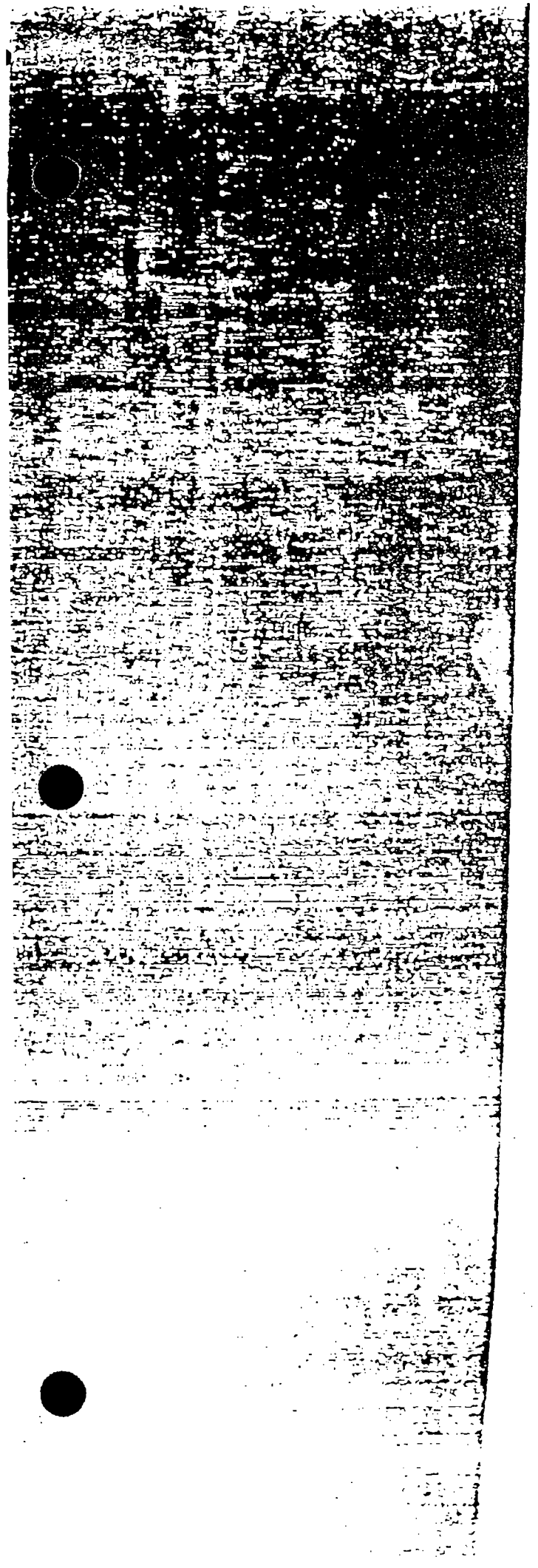
#10

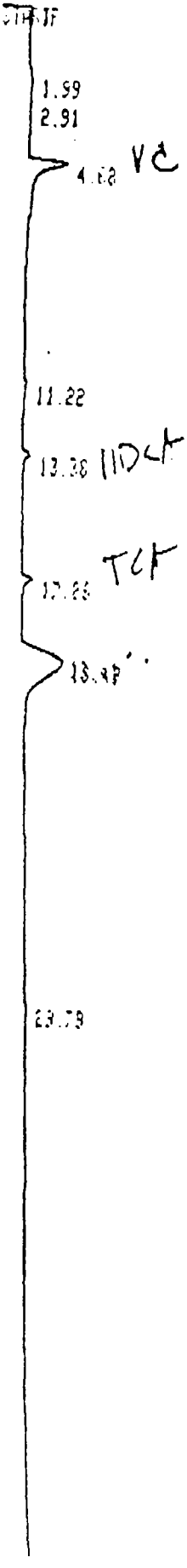
- 581 Sal



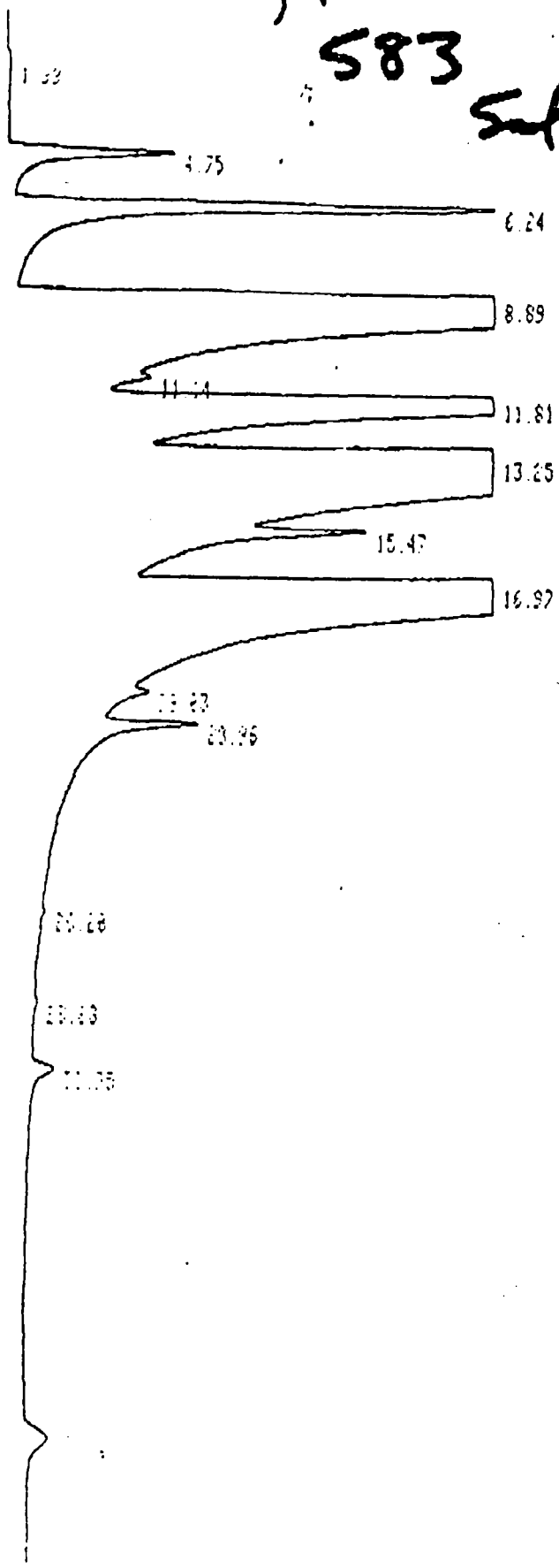
-582 Sm

1.99
2.91
4.68 VC 4,0'
11.22
13.38 IIDCA
17.26 TCA
18.48
23.79



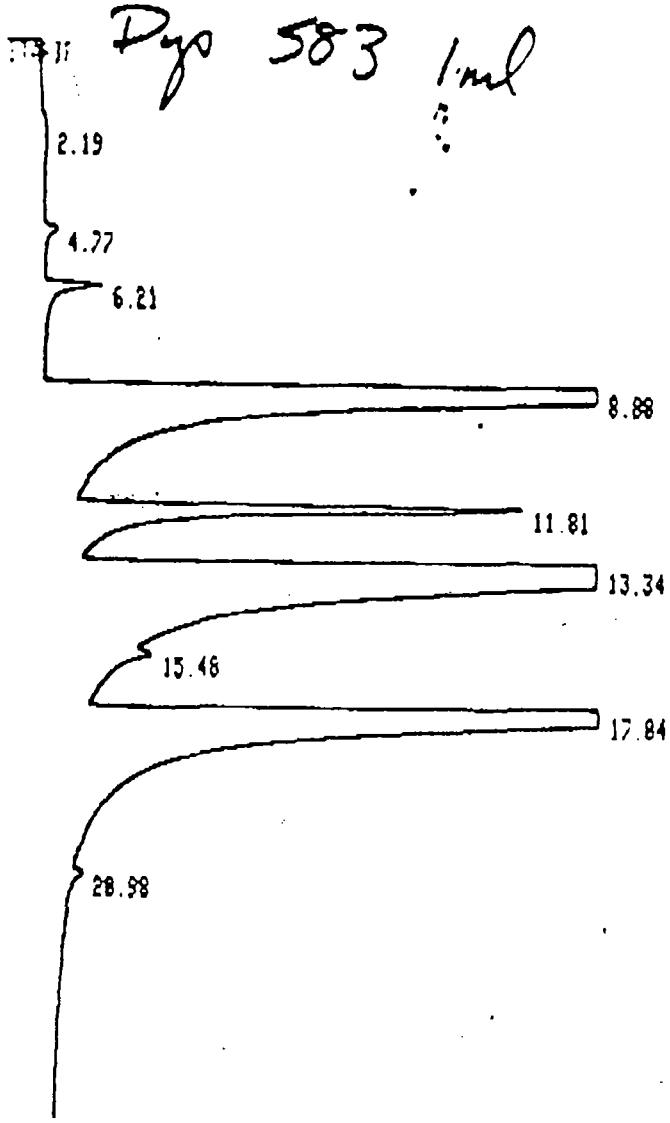


583



Dyo 583 1ml

Dyo 583 1ml



STOP

RUN # 552 JAN/26/88 12:49:07

AREA%

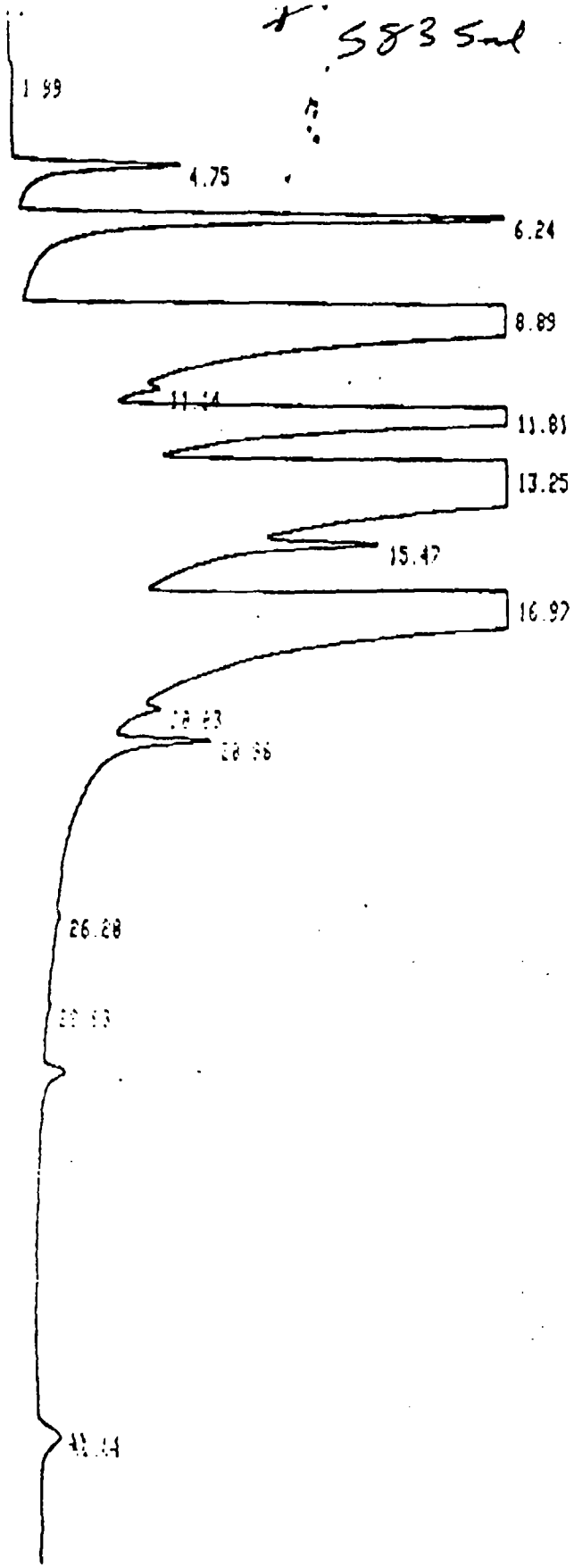
RT	AREA	TYPE	AR/HT	AREA%
2.19	31219	PY	0.396	0.035
4.77	110720	BB	0.294	0.124
6.21	402010	PB	0.256	0.450
8.88	1.9545E+07	PB	0.248	20.300
11.81	3165300	PB	0.260	3.545
13.34	4.5473E+07	PB	0.241	50.930
15.46	64544	BB	0.120	0.072
17.84	2.1325E+07	PB	0.250	23.880
20.98	75100	BB	0.234	0.084

TOTAL AREA= 8.9297E-07
MUL FACTOR= 1.0000E+00

584 ml

801 - 0583 Smd

583 Smd

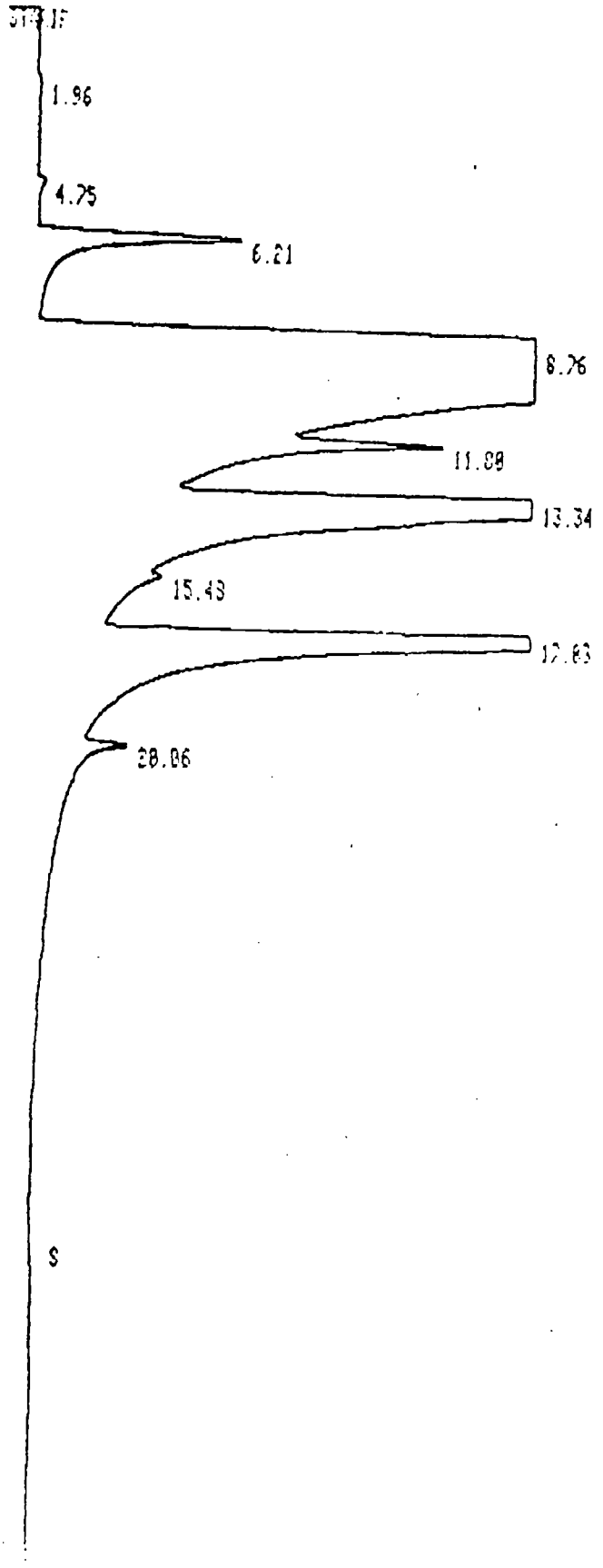


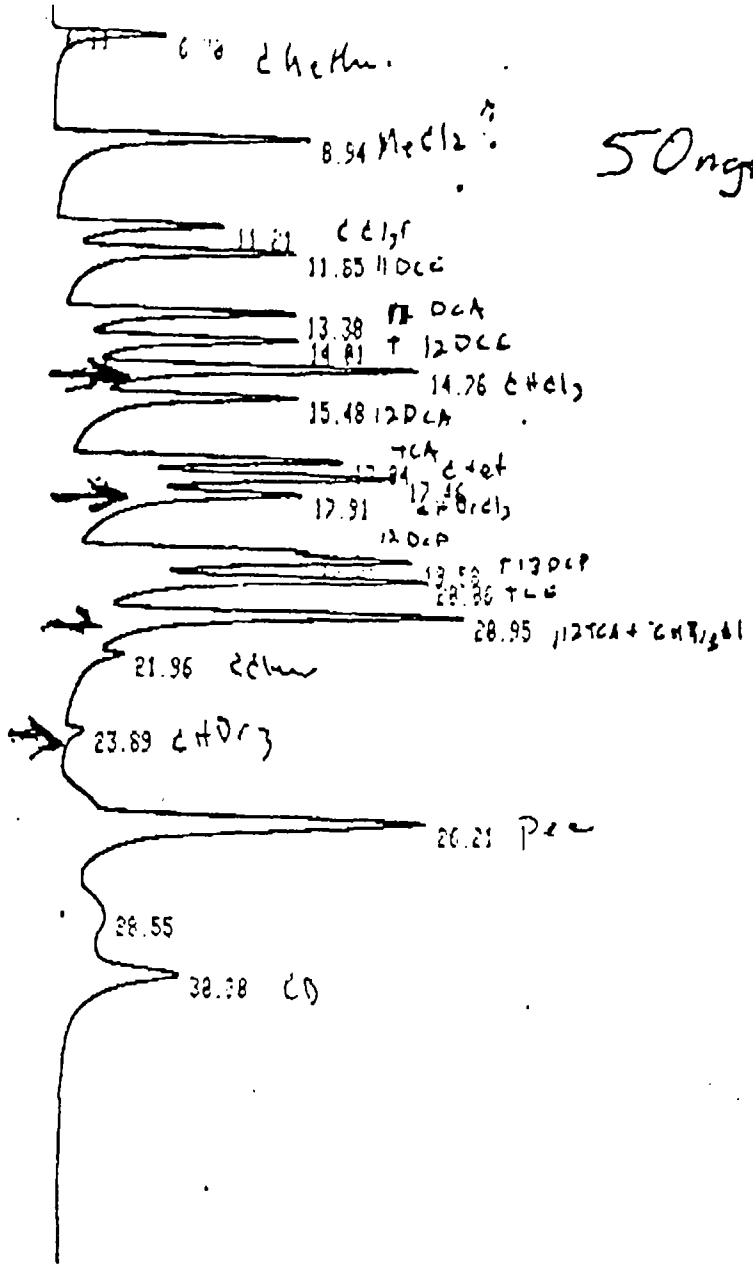
RUN # 551 JAN/26/88 11:58:16

AREA%

RT	AREA	TYPE	AR/HT	AREA%
1.99	51889	PB	0.555	0.010
4.75	1473500	PB	0.230	0.279

— 584 [illegible]





50ngAB(C)

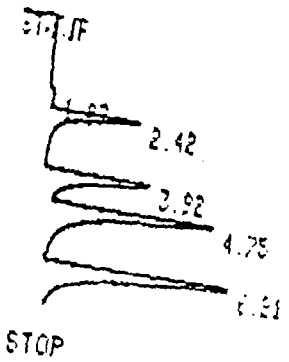
STOP

RUN # 526 JAN/25/88 12:06:47

AREA%

RT	AREA	TYPE	AR-HT	AREA%
2.29	65886	PB	0.811	0.196
6.30	694190	PB	0.219	2.036
8.94	1711300	PB	0.248	5.092
11.21	1187500	PV	0.260	3.521
11.85	1594700	VB	0.259	4.745
13.38	1590000	PV	0.254	4.734
14.01	1560200	VV	0.265	4.668
14.76	2141800	VB	0.242	6.373
15.48	1302600	BB	0.245	3.876
17.04	1738400	PV	0.233	5.172
17.46	2389600	VV	0.270	7.110
17.91	2052000	VB	0.341	6.103
19.37	1018400	PV	0.165	3.030
19.58	2407000	VV	0.209	7.163
20.06	2557500	VB	0.204	7.597
20.95	2690000	BB	0.275	8.030
21.96	[illegible]	BB	0.103	0.275
23.89	156710	BB	0.289	0.466
26.21	[illegible]	BB	0.512	15.129

Purg C close-up!



60ng C

RUN # 530

JAN/25/88 14:10:28

AREA%

RT	AREA	TYPE	AR/HT	AREA%
1.87	20816	BP	0.268	0.692
2.42	458620	PB	0.185	11.841
3.92	803130	PP	0.279	20.736
4.75	1143990	PB	0.254	29.527
6.21	1443800	BB	0.289	37.203

TOTAL AREA= 3873100
NUL FACTOR= 1.0000E+03

Dup 573 Sml

Chloroform

CCl_2

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Corporation
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 01/12/88
Date Received: 01/12/88
Date Reported: 02/24/88
Project: JCO-104H

Q.C. DATA REPORT

Analyst: Janet Schwarz
Date of Analysis: 1/28/88
Method of Analysis: EPA 604
Detection Limit: 10
Units: ppb

Sample Number	Analyte	Original Result	Duplicate Result	% Deviation
8010577	2-Chloro-phenol	< 10	< 10	0.0

Sample Number	Analyte	Sample Contribution	Spike Added	Spike Result	% Recovery
8010577	2-Chloro-phenol	< 10	25	19.7	79

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

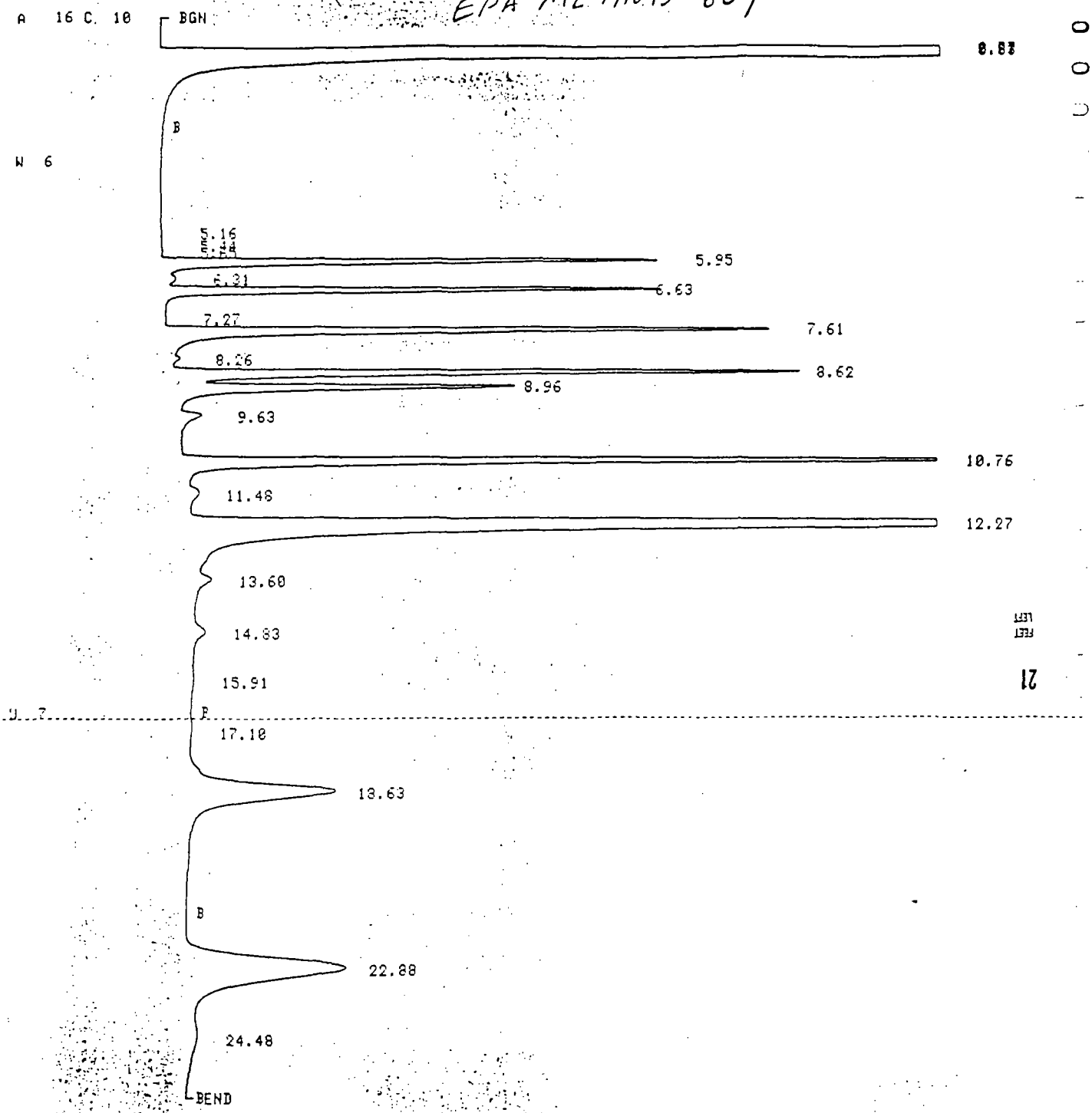
RUN 29 20:54 88/01/28

METHOD 3 MODIFIED

604M 2λ HE STD

EPA METHOD 604

A 16 C. 10



RUN 29 20:54 88/01/28

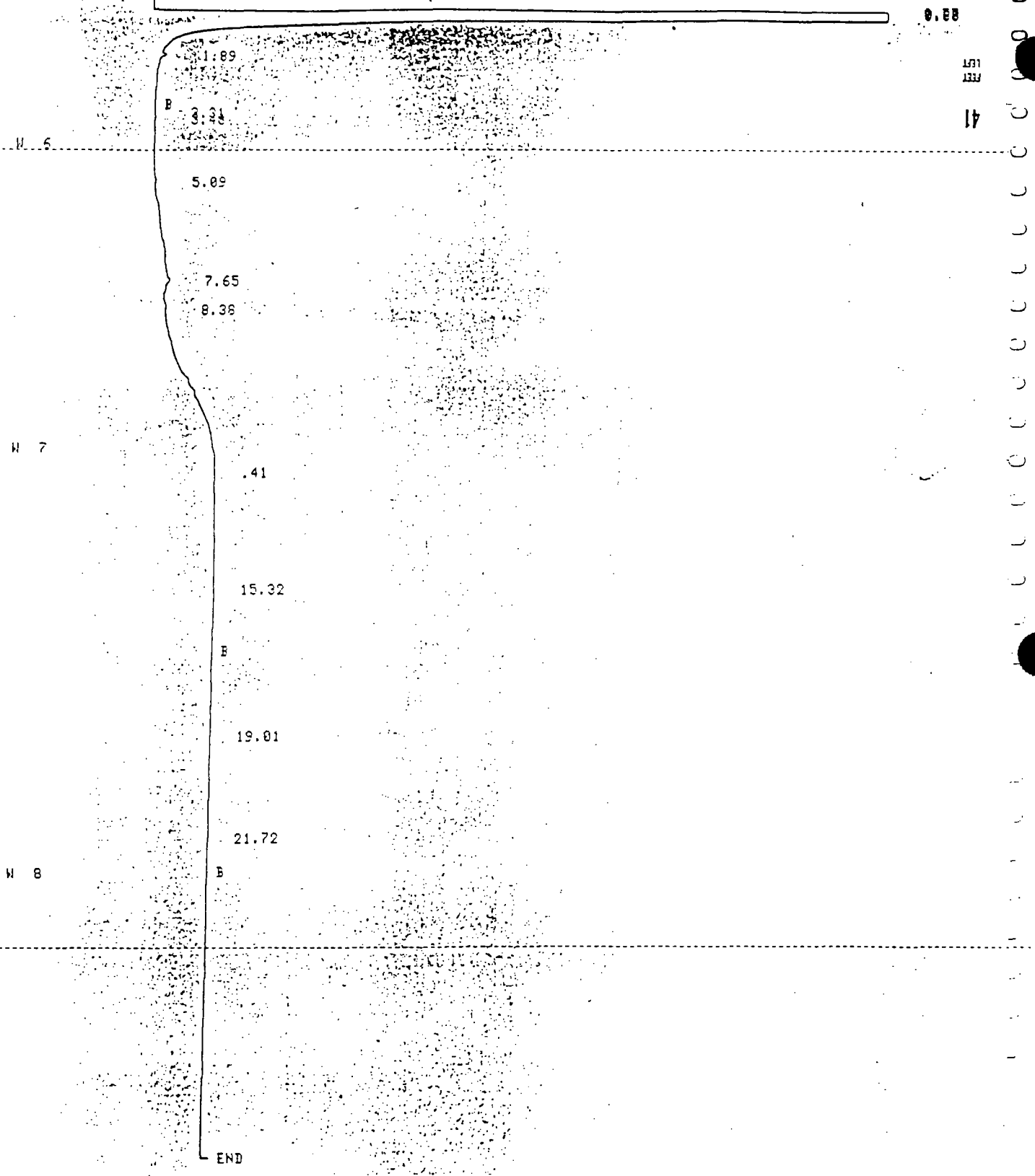
METHOD 3 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
0.81	154.0509	V	41.7017
5.95	13.5331	V	3.6634
6.63	13.0444	V	3.5311
7.61	19.5022	V	5.2792
8.62	17.0462	V	4.6144
8.96	9.4227	V	2.5507
9.63	1.0686	V	0.2892
10.76	27.6827	V	7.4937
11.48	0.6054	V	0.1639
12.27	72.2952	V	19.5704
13.60	0.7671	V	0.2076
14.83	0.8478	V	0.2295
18.63	16.7091		4.5231
22.88	22.1471	V	5.9952
24.48	0.6977		0.1861

RUN 15 3:07 88/01/28 2λ 8010573 1000→1

METHOD 3 MODIFIED Water

A 16 C 10



RUN 15 3:07 88/01/28

METHOD 3 MODIFIED CALCULION: %

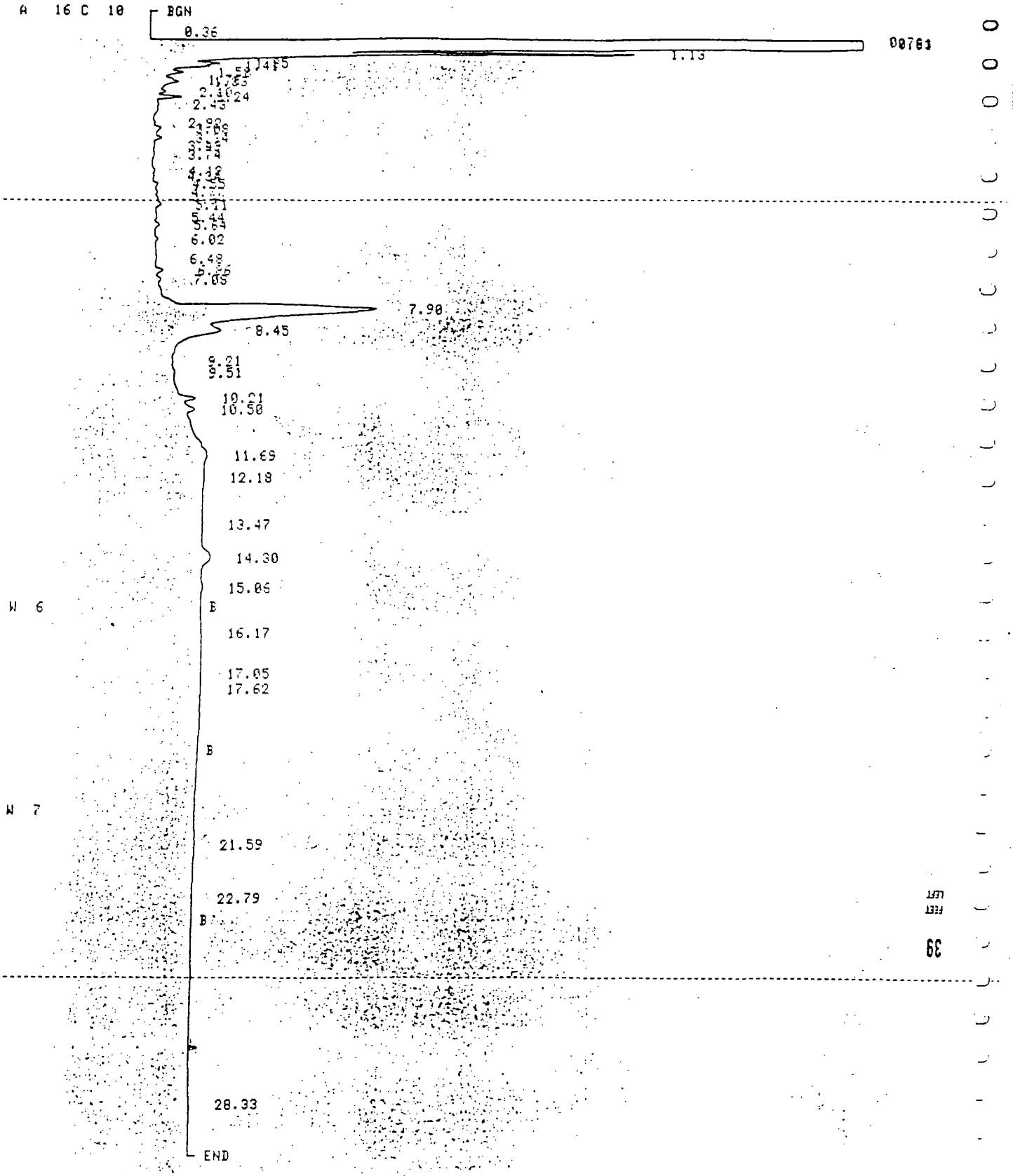
RT	AREA	BC	AREA %
0.80	165.2810	V	98.8475
7.65	1.4137	V	0.8454
15.32	0.5132		0.3069

3 PEAKS > AREA/HT REJECT

RUN 16 3:46 88/01/28 2) 8010574 1000→1 Wahlu

METHOD 3 MODIFIED

A 16 C 10



RUN 16 3:46 88/01/28

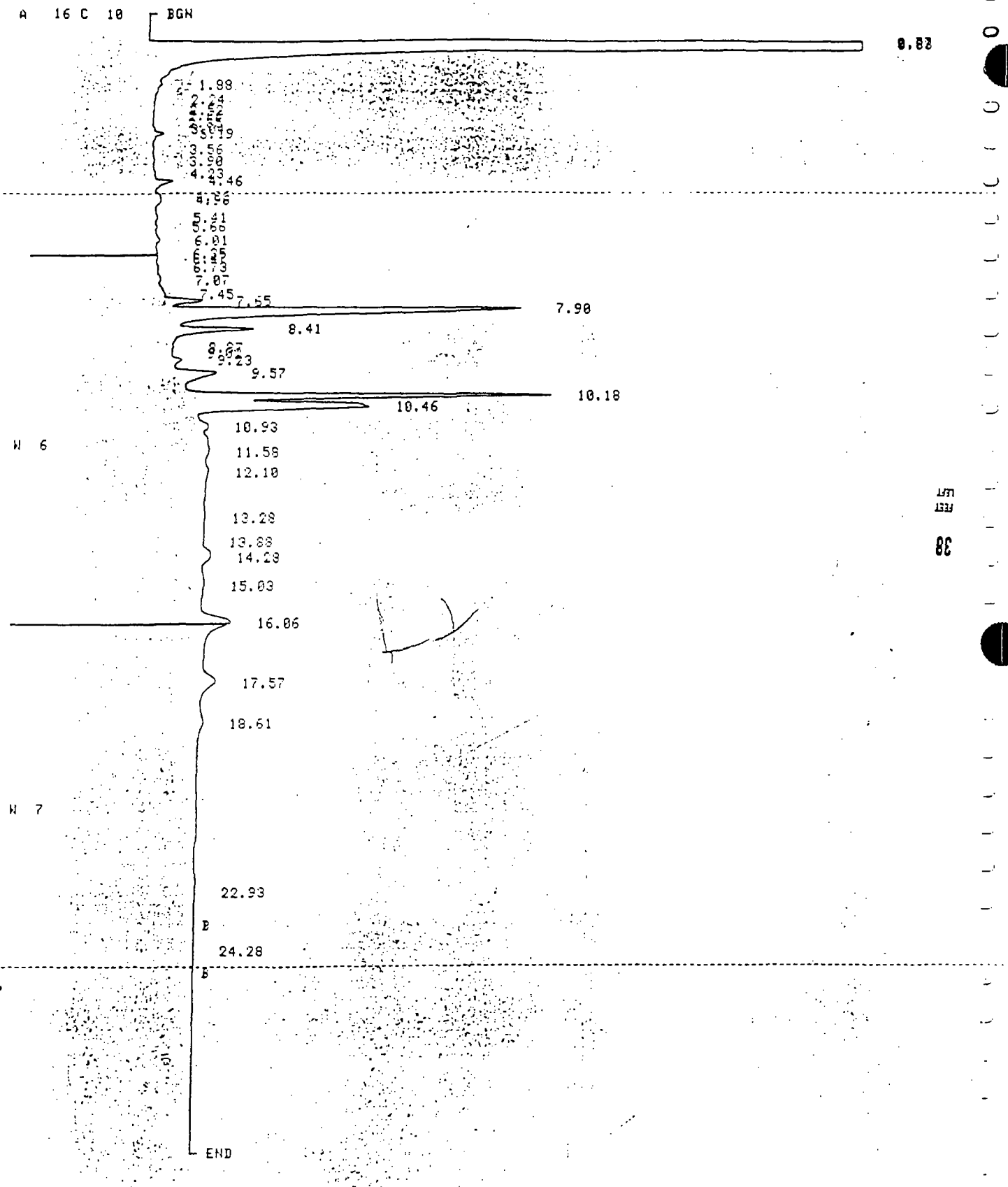
METHOD 3 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
0.81	299.9620	U	94.2852
1.13	3.7019	U	1.1769
7.90	12.4399	U	3.9232
11.69	1.1178	U	0.3525
[illegible]	[illegible]	U	[illegible]

RUN 17 4:25 88/01/28 Ω λ 8010575 1000→1 Water

METHOD 3 MODIFIED

A 16 C 10



RUN 17 4:25 88/01/28

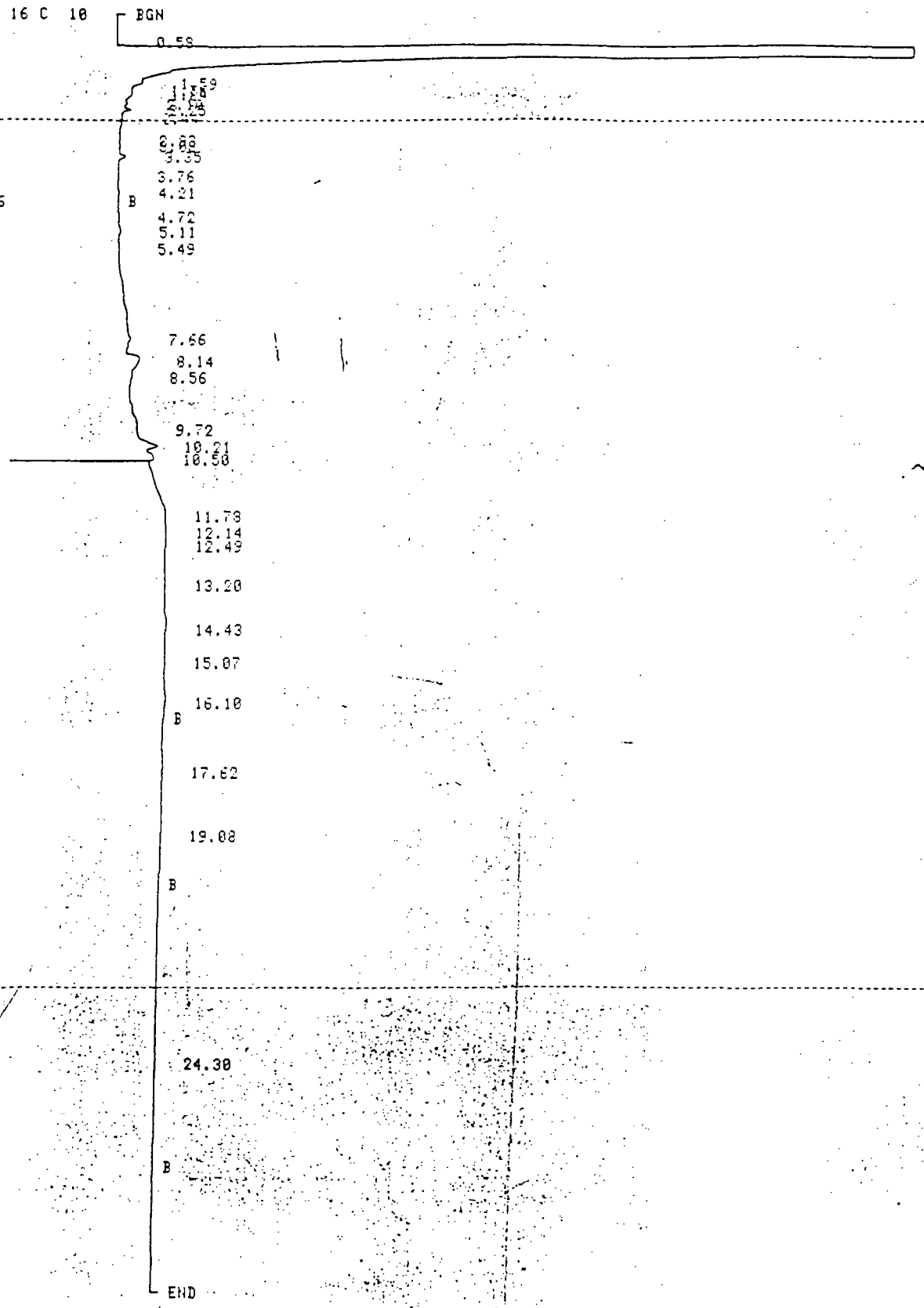
METHOD 3 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
4.46	0.6333	V	1.5523
7.65	1.0421	V	2.5541
7.90	15.6173	V	38.2777
8.41	2.3361	V	5.7257
9.57	2.0644	V	5.0599

RUN 18 5:20 88/01/28 2> 8010576 1000→1 Water

METHOD 3 MODIFIED

A 16 C 10



RUN 18 5:20 88/01/28

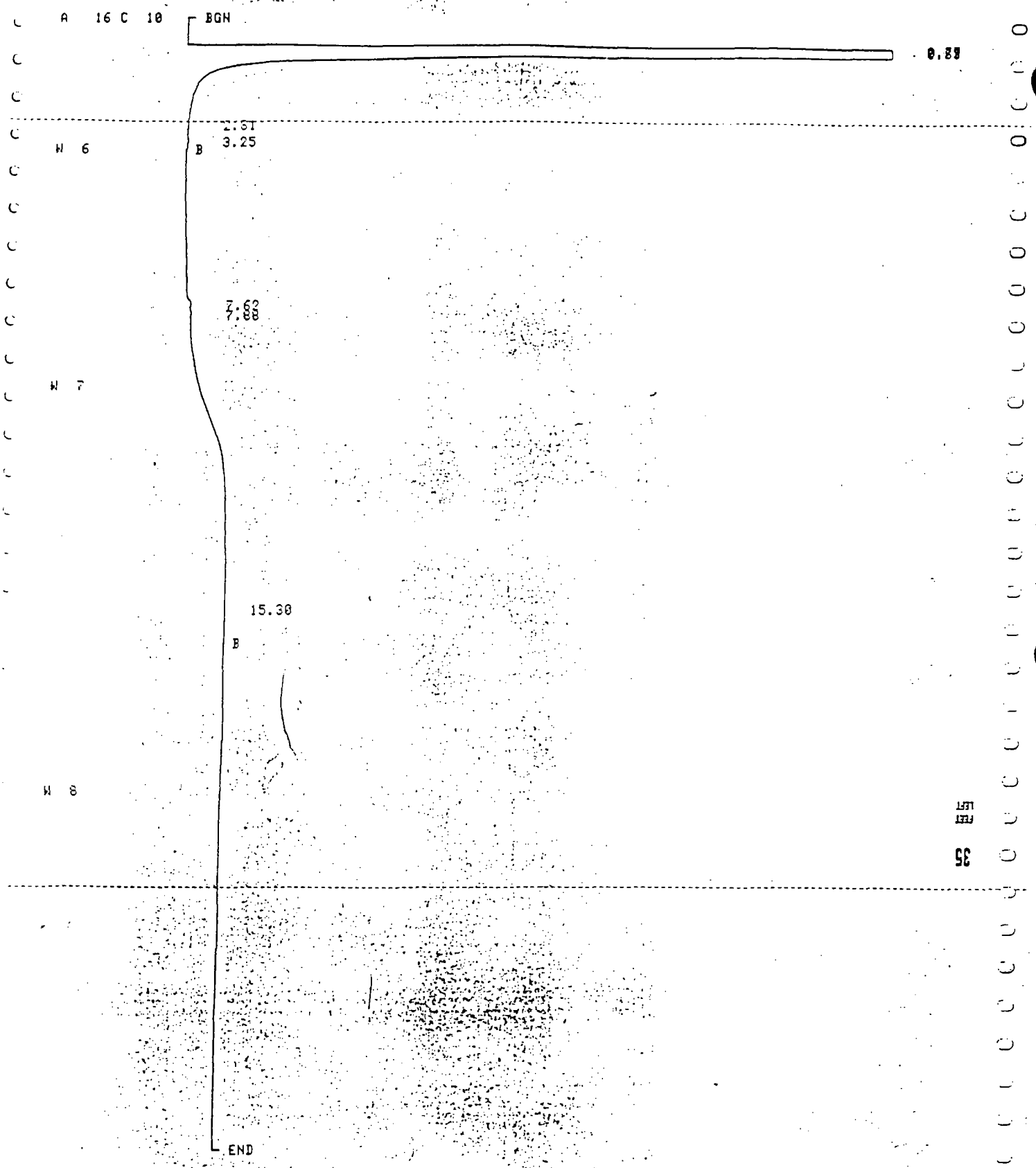
METHOD 3 MODIFIED CALCUATION: %

RT	AREA	BC	AREA %
0.77	511.4393	U	99.6356
7.66	0.6120	U	0.1192
8.14	0.7209	U	0.1404
11.78	0.5372	U	0.1046

RUN 19 5:52 88/01/28 Ωλ 8010577 1000→1 Wahler

METHOD 3 MODIFIED

A 16 C 10



RUN 19 5:52 88/01/28

METHOD 3 MODIFIED CALCULATION: %

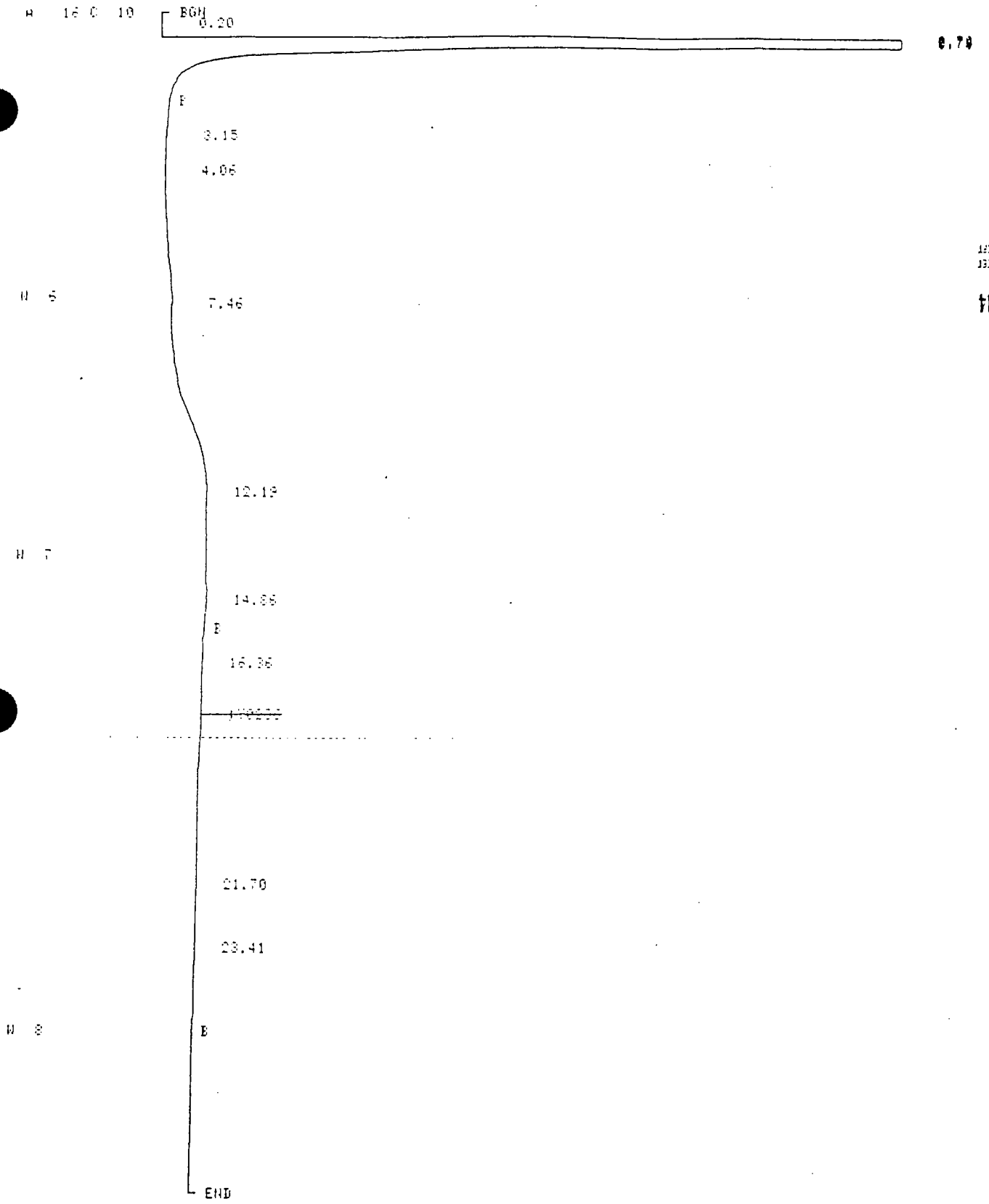
RT	AREA	BC	AREA %
0.79	272.3537	V	100.0000

1 PEAKS > AREA/HT REJECT

RUN 20 14:36 88/01/28

METHOD 3 MODIFIED

3λ 8010678 1000→1



RUN 20 14:36 88/01/28

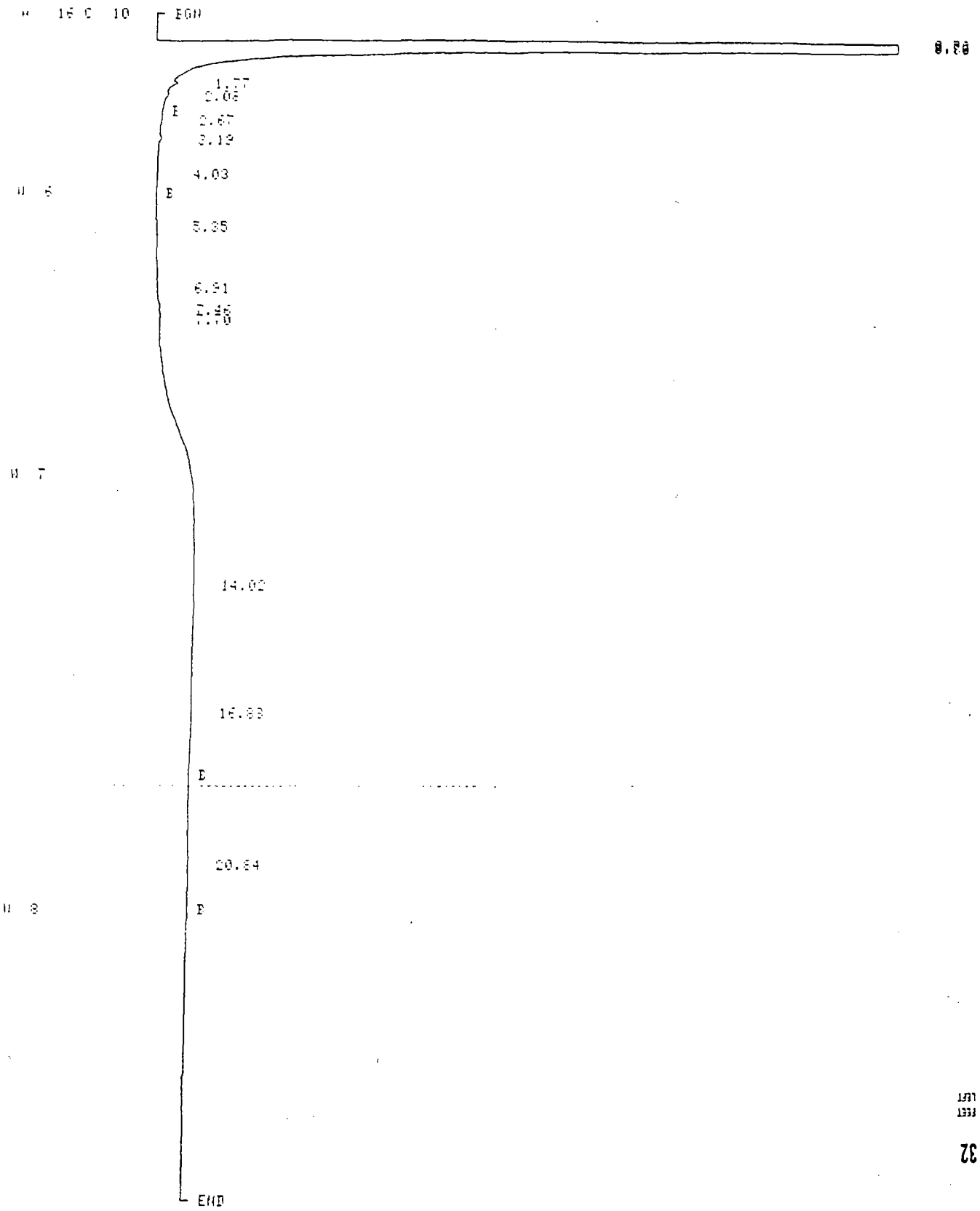
METHOD 3 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
0.74	13.3048	U	56.2056
0.76	10.3669	U	43.7943

2 PEAKS > AREA HT REJECT

RUN 21 15:10 88/01/28

METHOD 3 MODIFIED ..... 100 → 1 3λ 8010579



RUN 21 15:10 88/01/28

METHOD 3 MODIFIED CALCULATION: %

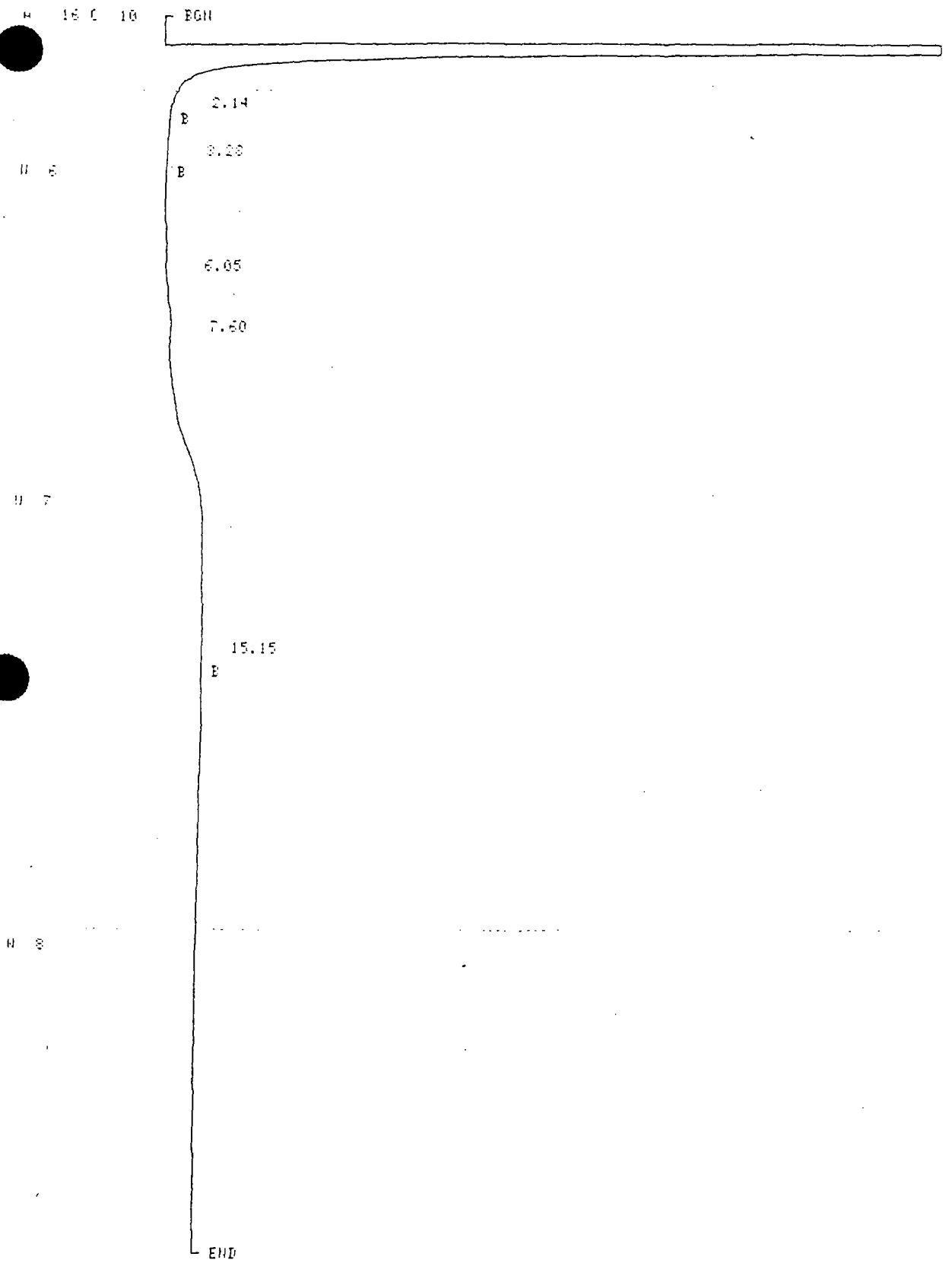
RT	AREA	BC	AREA %
0.76	51.8134	"	100.0000

1 PEAKS > AREA/HT REJECT

RUN 22 15:59 88/01/28

3λ 8010580 1000→1

METHOD 3 MODIFIED



RUN 22 15:59 88/01/28

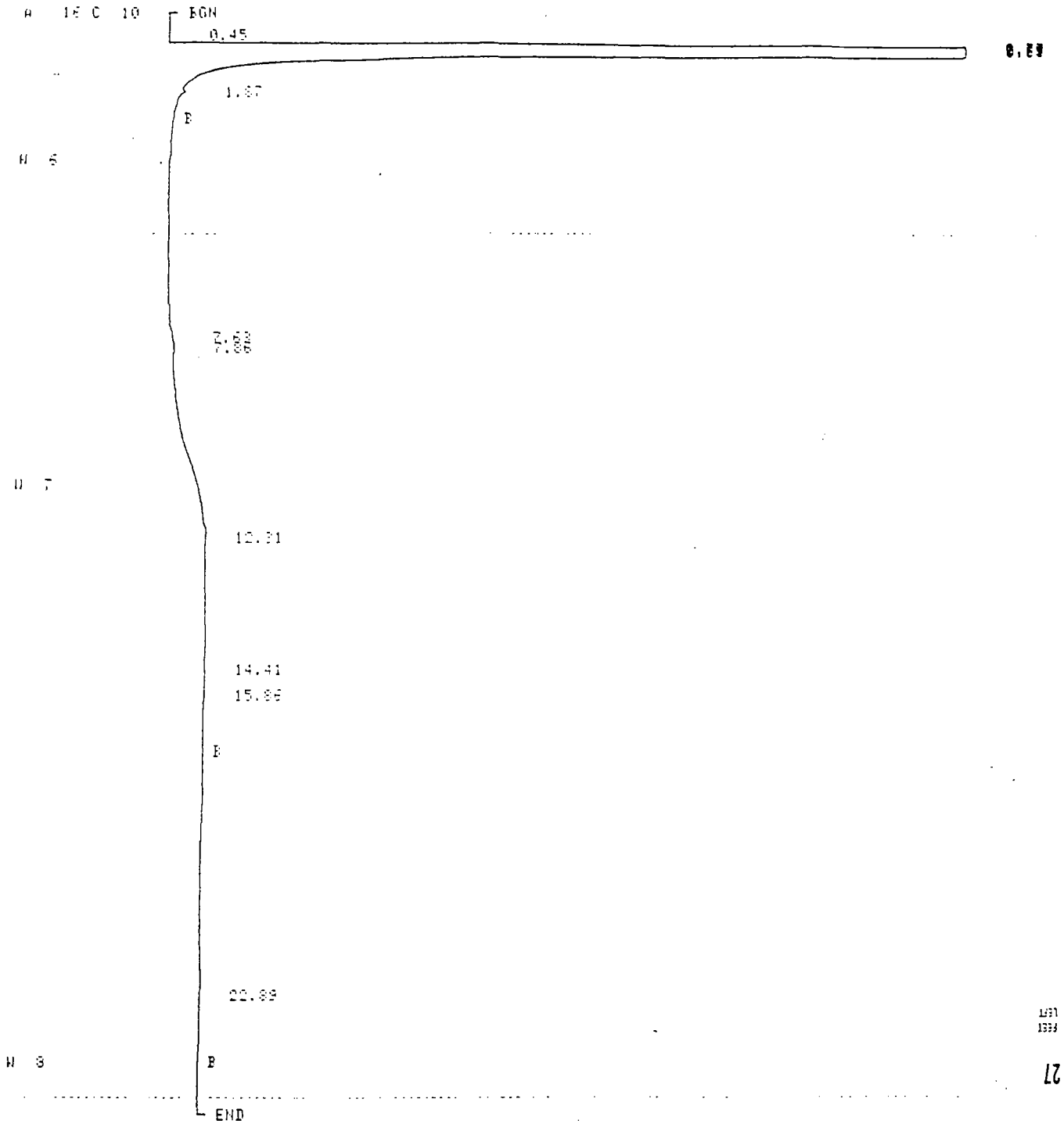
METHOD 3 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
0.79	99.7302	U	63.5624
0.79	57.1709	U	36.4375

RUN 24 17:03 88/01/28 1000 → 1 3λ 8010581

METHOD 3 MODIFIED

A 16 C 10



RUN 24 17:03 88/01/28

METHOD 3 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
0.79	30.7623	V	39.3335
0.81	46.8591	H	59.9153
12.31	0.5873	V	0.7510

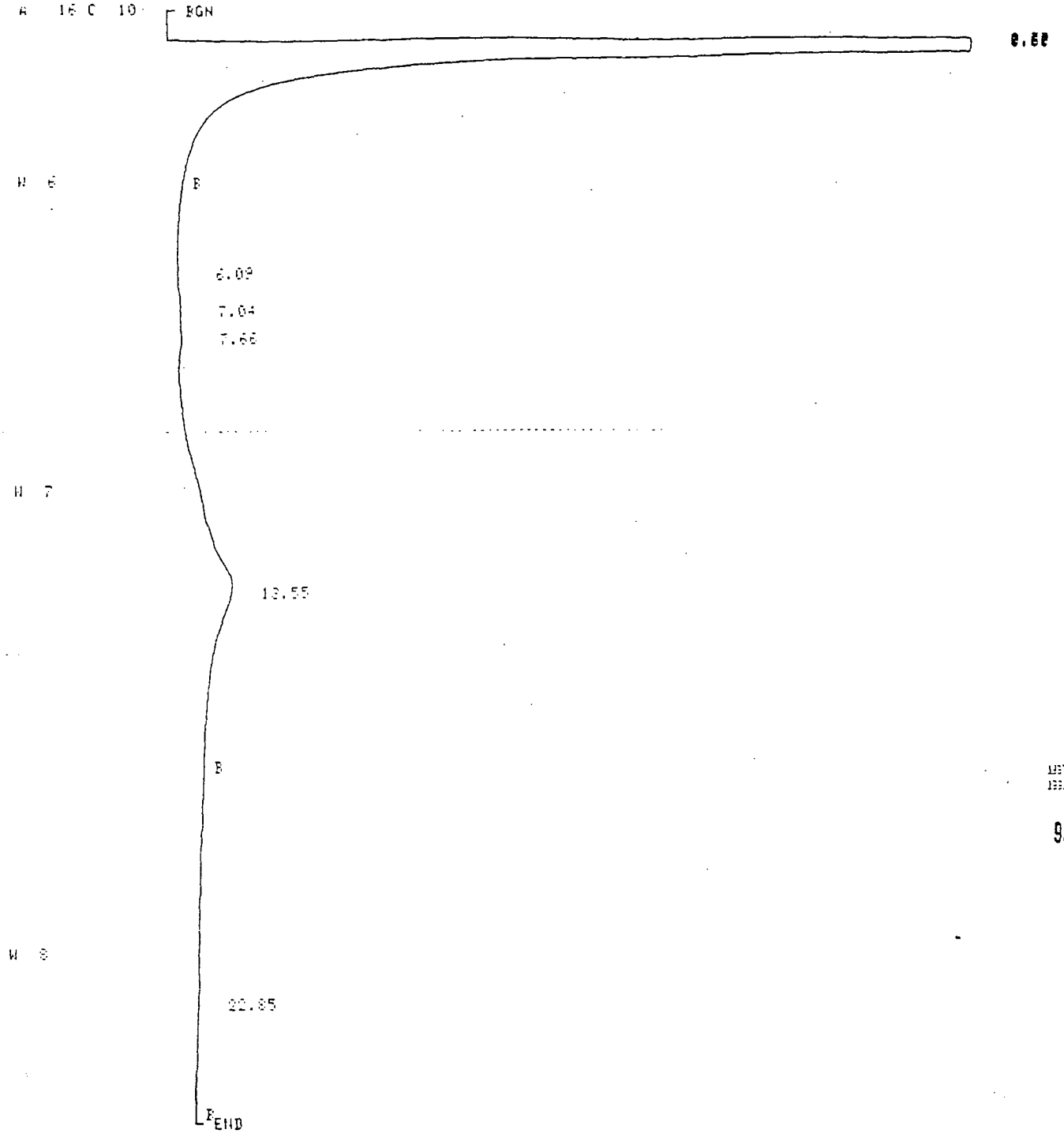
3 PEAKS 3 AREA/HT REJECT

RUN 25 18:00 88/01/28 1000 → 1 3λ 8010582

METHOD 3 MODIFIED

A 16 C 10 BGN

METHOD 3 MODIFIED



RUN 25 18:00 88/01/28

METHOD 3 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
0.33	102.8913	V	56.9217
0.81	62.4213	V	34.2663
13.55	16.0523		8.8119

3 PEAKS > AREA-HT REJECT

1000 → 1 2λ 8010457

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Corporation
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 01/12/88
Date Received: 01/12/88
Date Reported: 02/24/88
Project: JCO-104H

Q.C. DATA REPORT

Analyst: Graham Brock
Date of Analysis: 2/5/88
Method of Analysis: Alcohols by G.C.
Detection Limit: 10
Units: ppb

Sample Number	Analyte	Original Result	Duplicate Result	% Deviation
8010580	Acetone	< 10	< 10	0.0

Sample Number	Analyte	Sample Contribution	Spike Added	Spike Result	% Recovery
8010580	Acetone	< 10	50	37	74

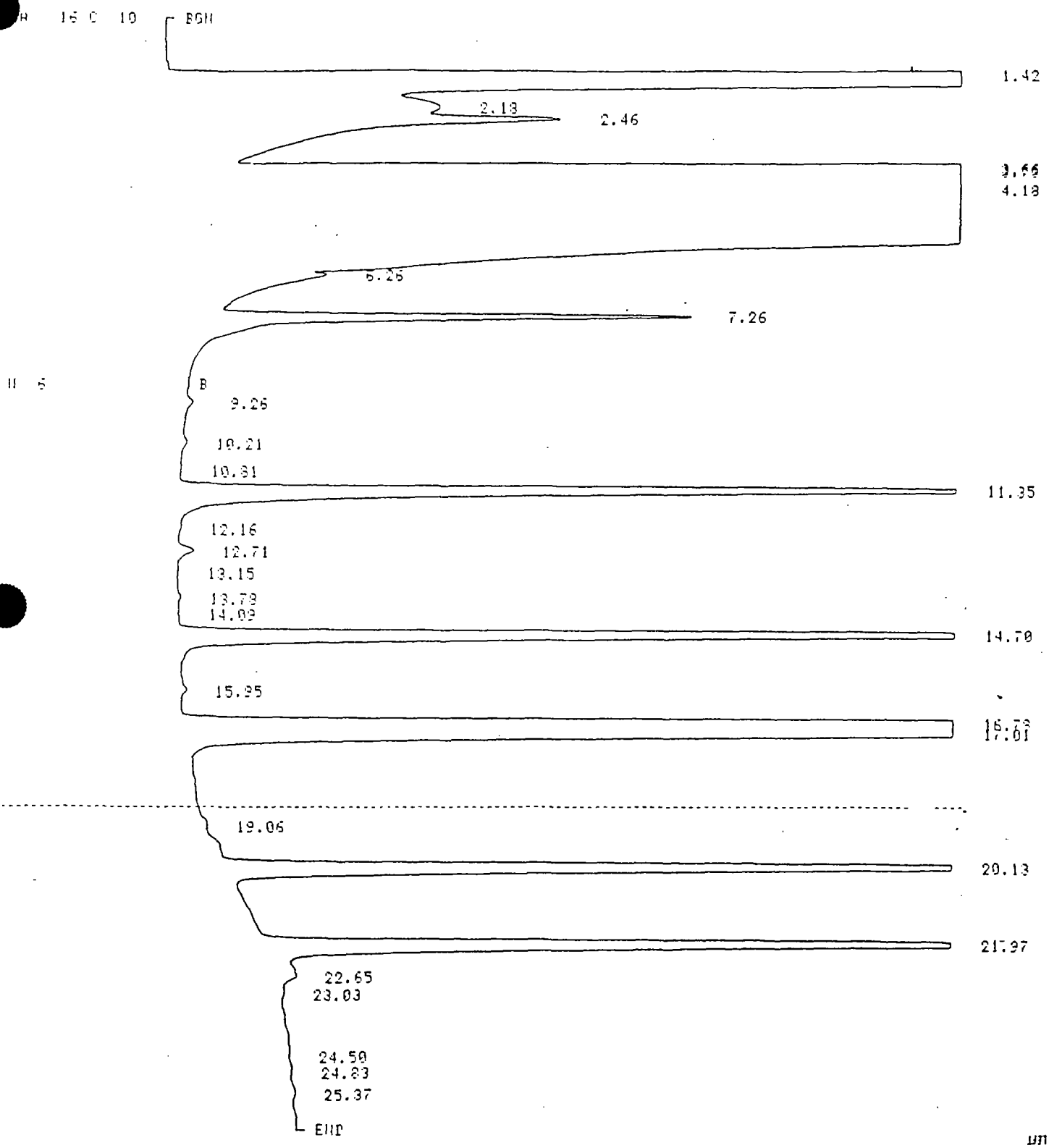
SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

5m/s # COMMON SOLVENT STD.

RUN 1 11:22 88/01/07

METHOD 7 IND SOLVENTS

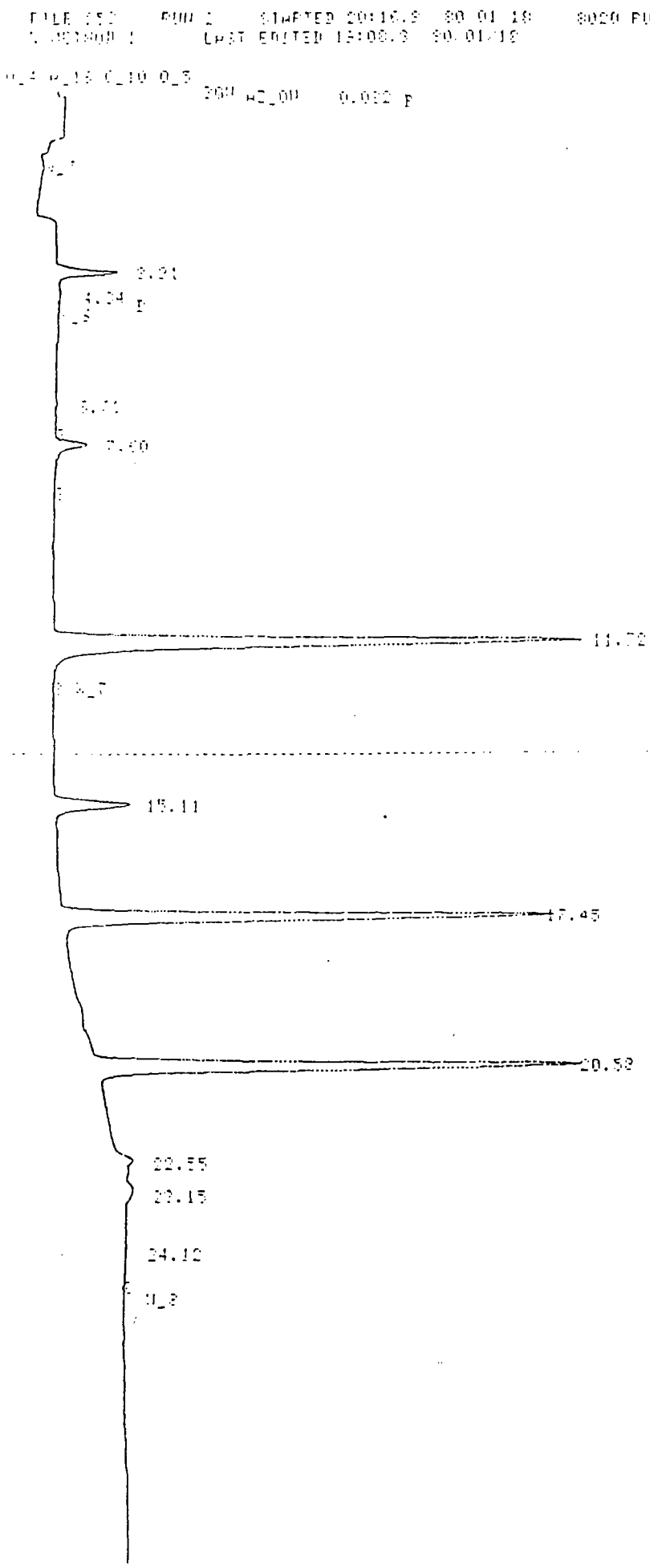


RUN 1 11:22 88/01/07

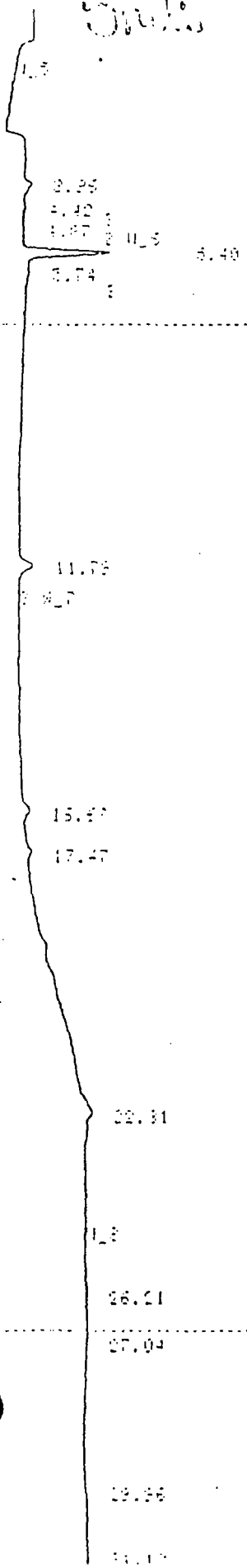
METHOD 7 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
1.42	357.7761	T	3.2030
2.18	25.3834	T	0.2343
2.46	[illegible]	T	[illegible]

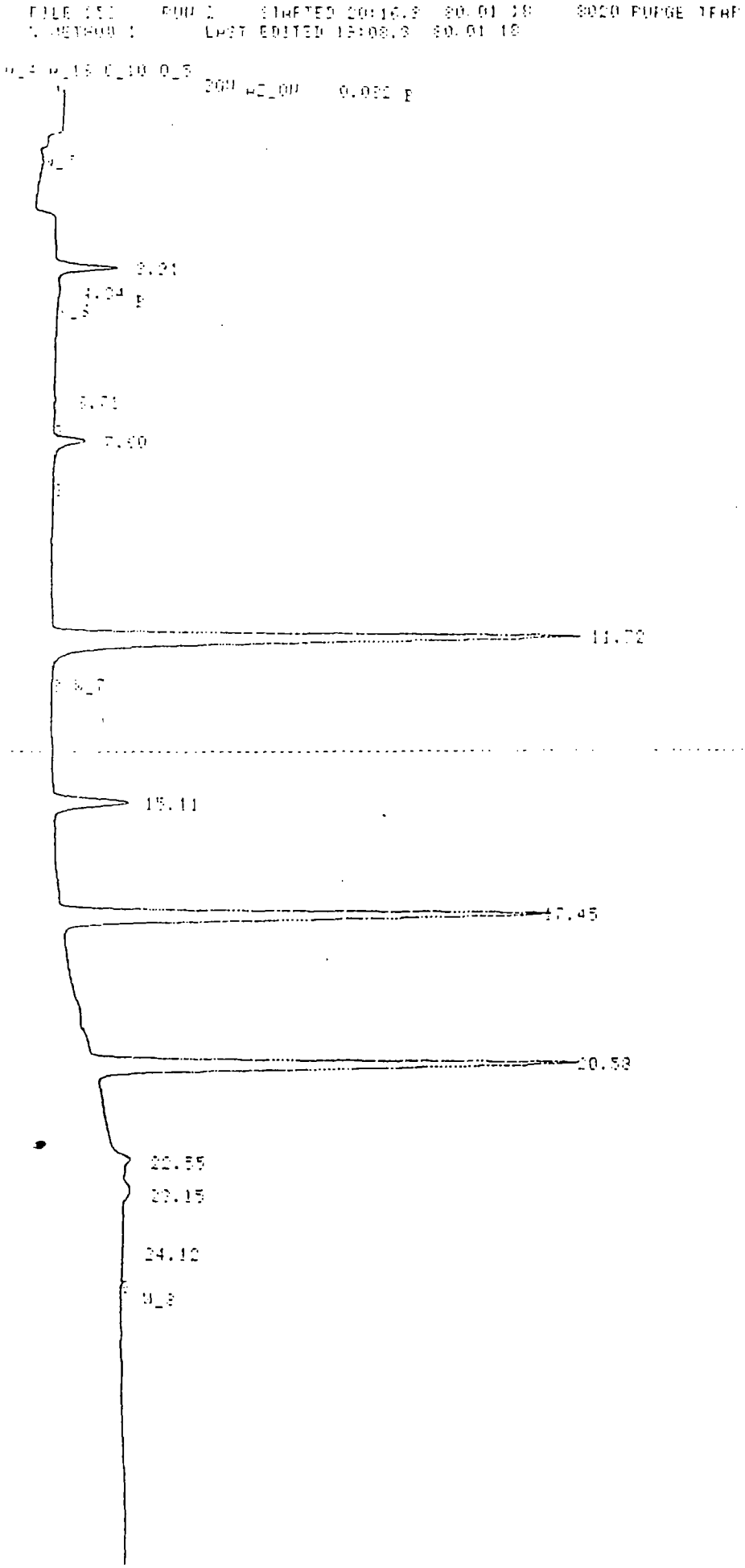
10 µl CS SPIKE STD.



Soils at D.I. H_2O.



10 µl CS SPIKE STD.



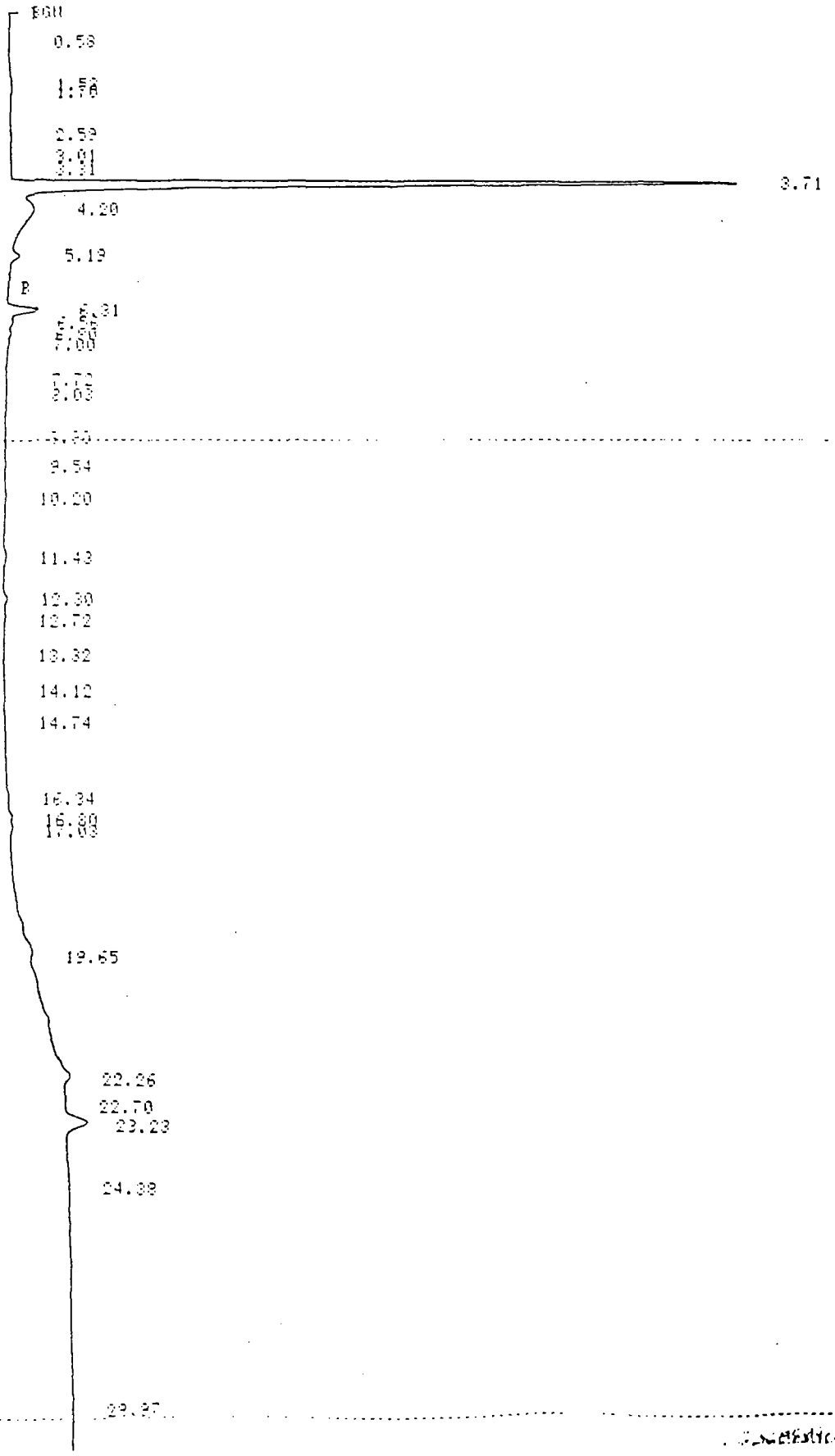
89

DMS # 8010573.

RUN 1 13:40 88/01/07

METHOD 7 IND SOLVENTS

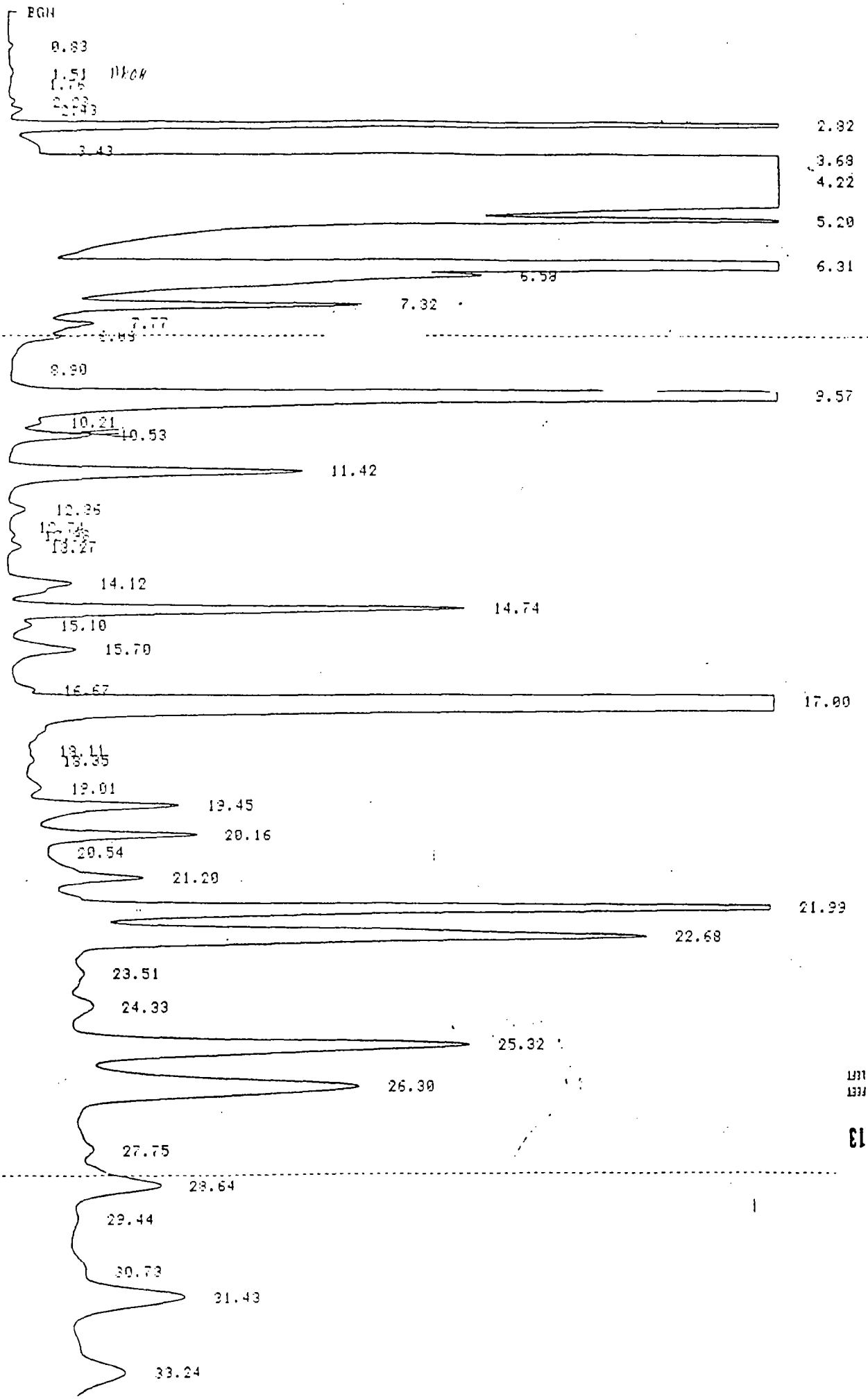
A 32 C 10



RUN 2 14:29 88/01/07 5mls # 8010514

METHOD 7 IND SOLVENTS

0 32 C 10



13

10.39	3.6592		3.5214
14.54	0.1064	T	0.1024
16.42	0.4735		0.4557

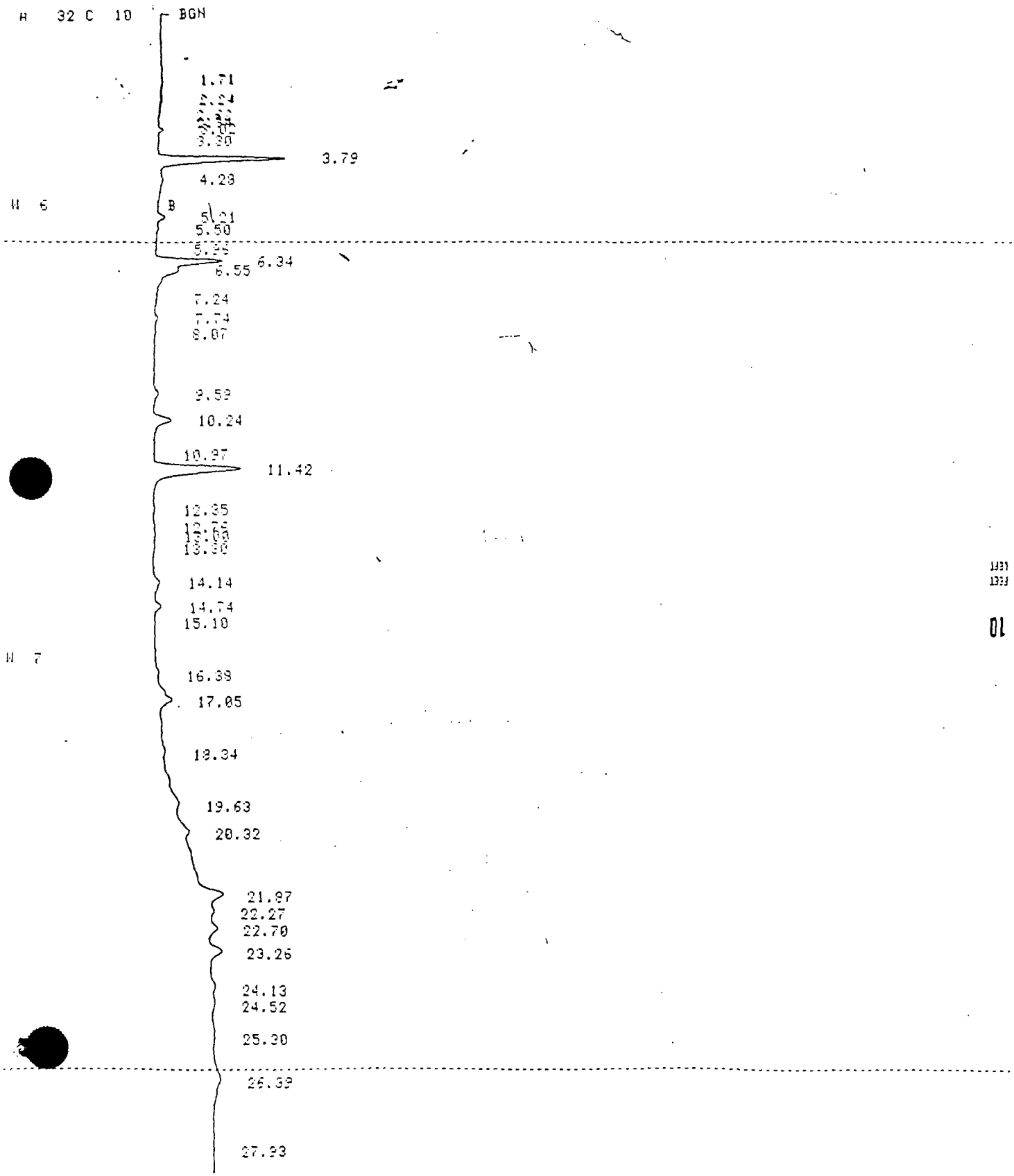
15 PEAKS > AREA/HT REJECT

5mls # 8010575

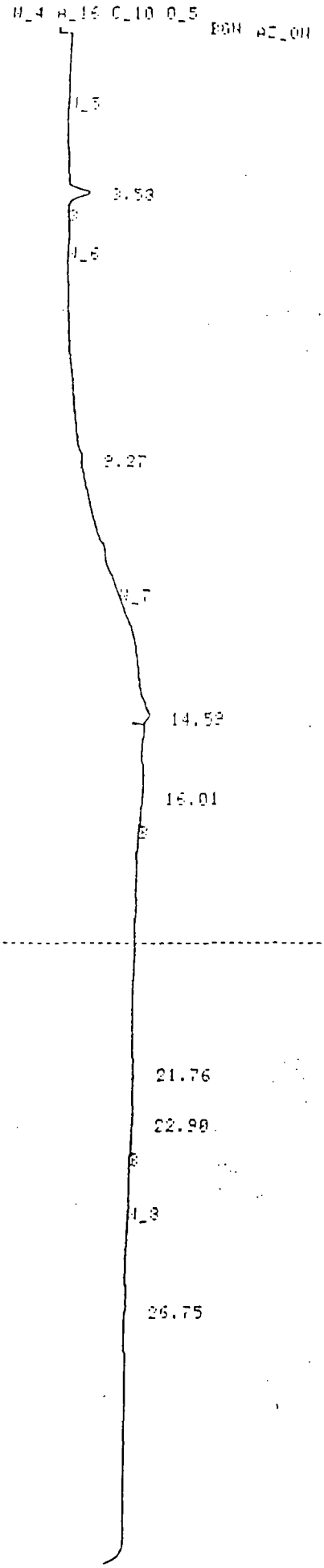
RUN 4 16:06 88/01/07

METHOD 7 MODIFIED

A 32 C 10

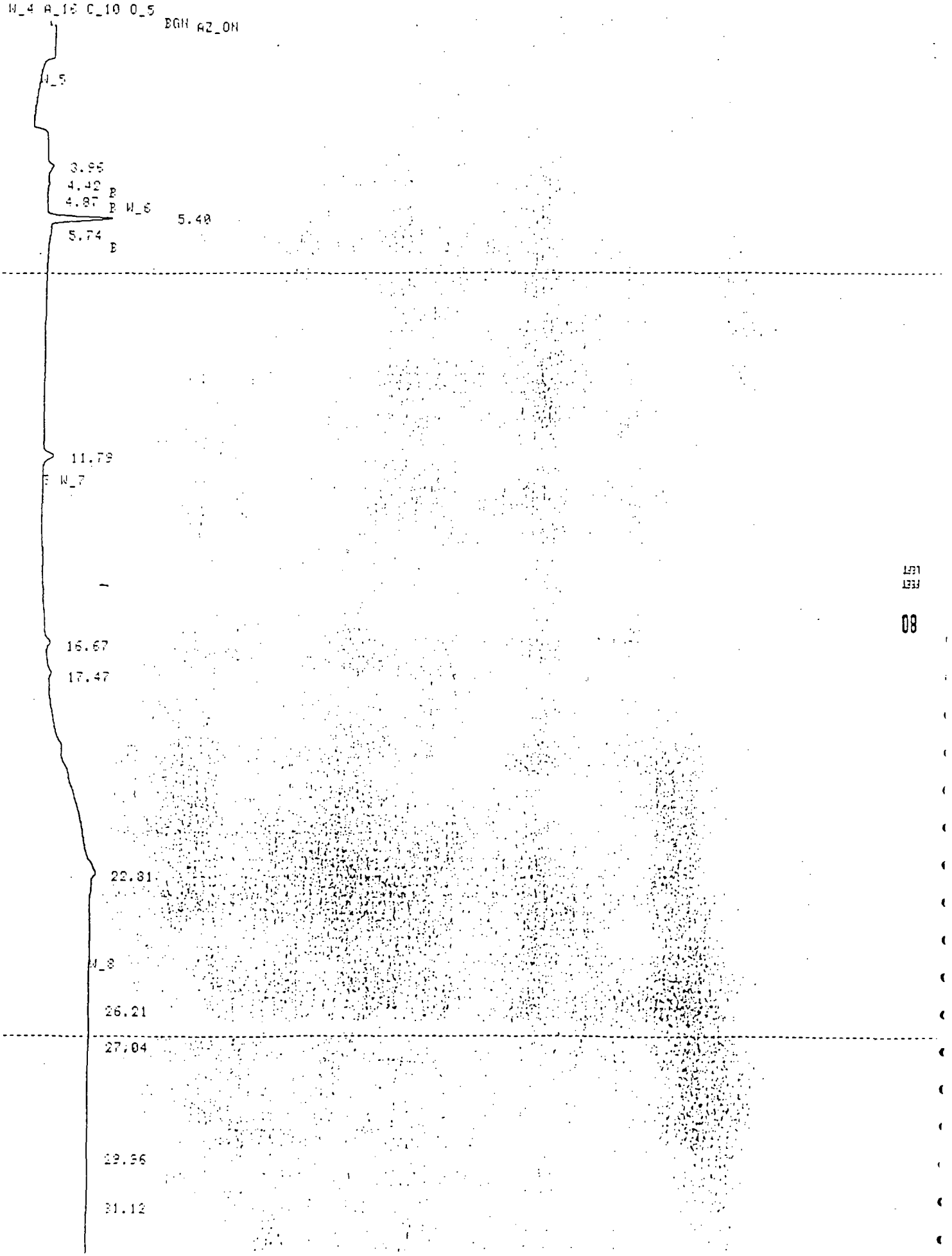


FILE 246 RUN 19 STARTED 14:13.7 80/01/18 8020 PURGE/TRAP Smls # 8010678.
METHOD 1 LAST EDITED 21:19.0 80/01/15



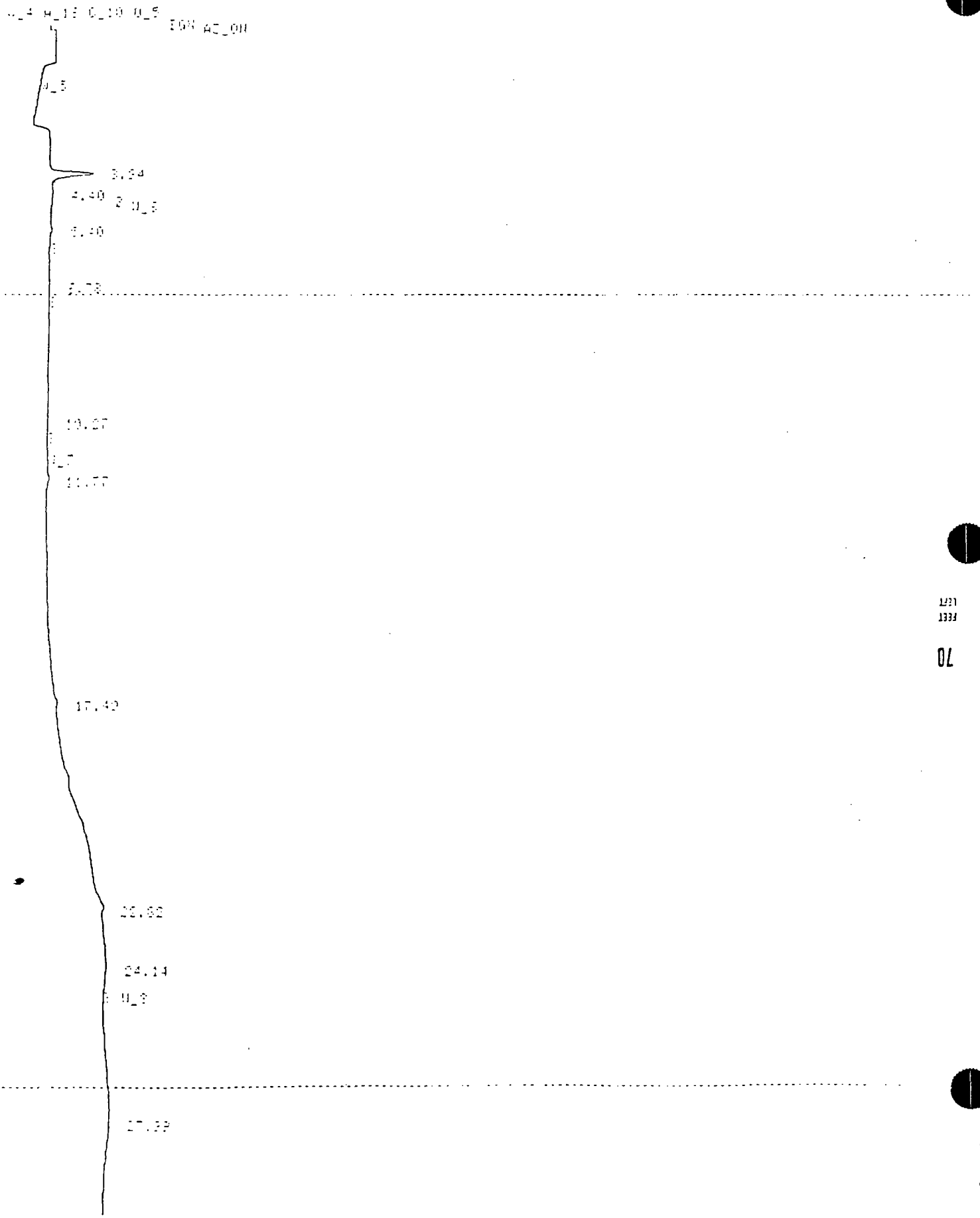
5mls # 8010517

FILE 247 RUN 20 STARTED 15:03.3 80/01/18 8020 PURGE/TRAP
% METHOD 1 LAST EDITED 21:19.0 80/01/15

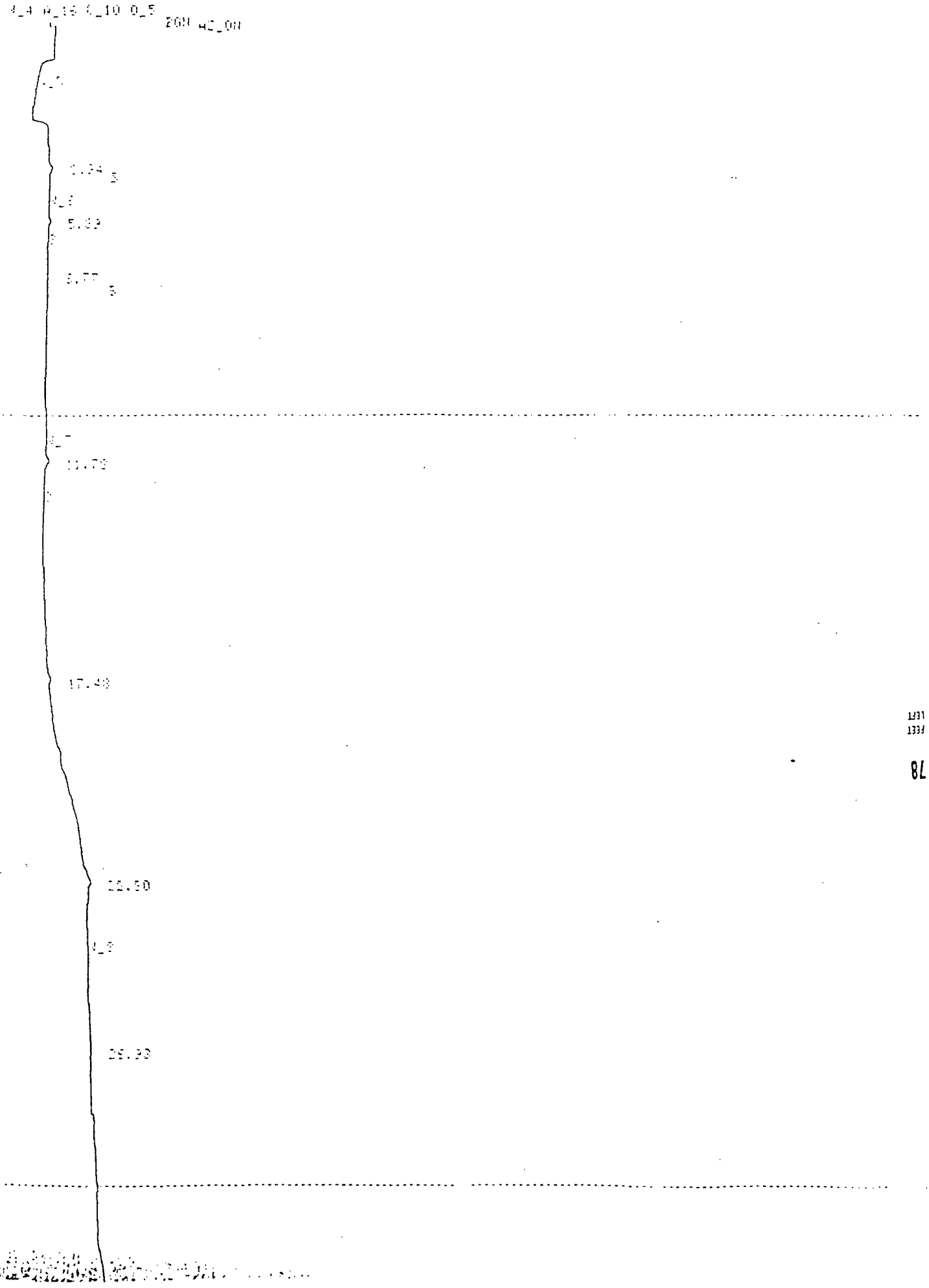


5mls # 8010580

FILE 152 RUN 1 STARTED 13:23.0 80/01/18 8010 PURGE/TRAP
METHOD 1 LAST EDITED 19:09.9 80/01/18

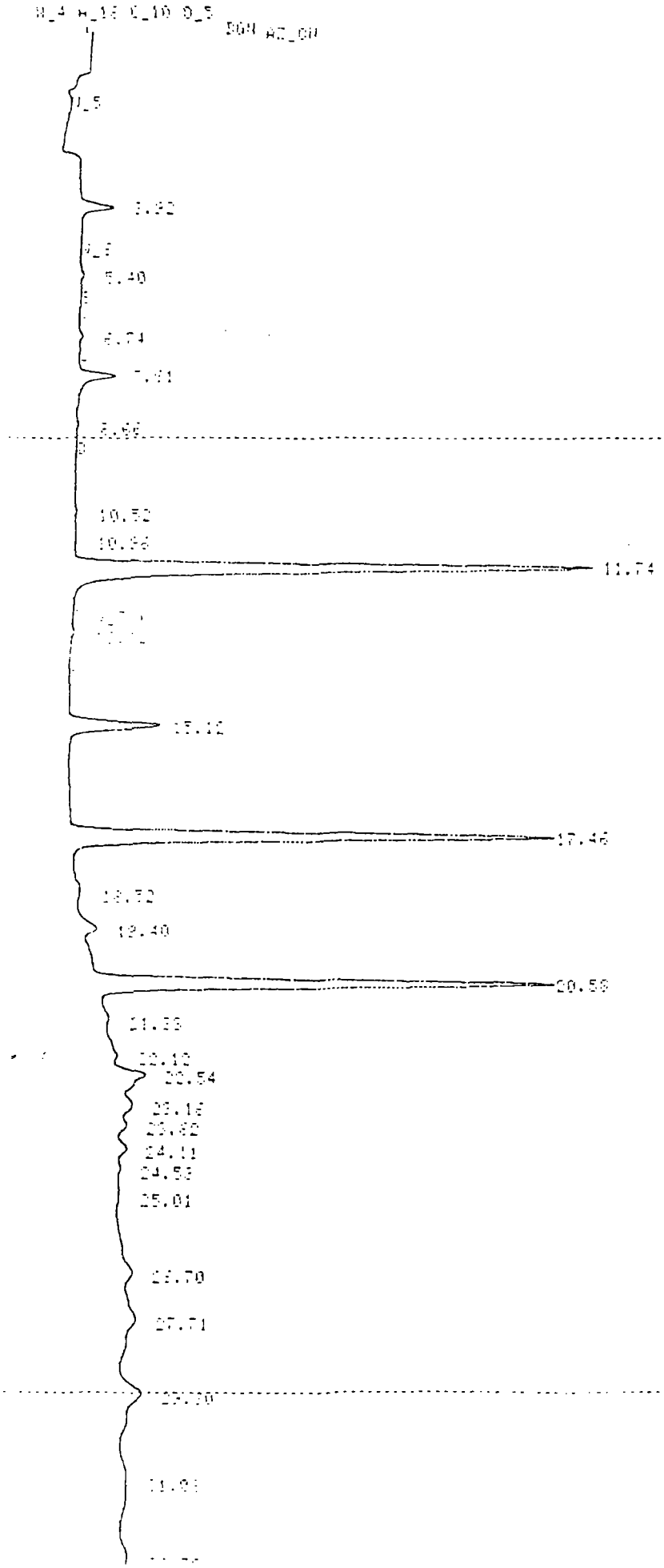


FILE 248 RUN 21 STARTED 15:54.0 80/01/13 8020 PURGE/TRAP
% METHOD 1 LAST EDITED 21:19.0 80/01/15



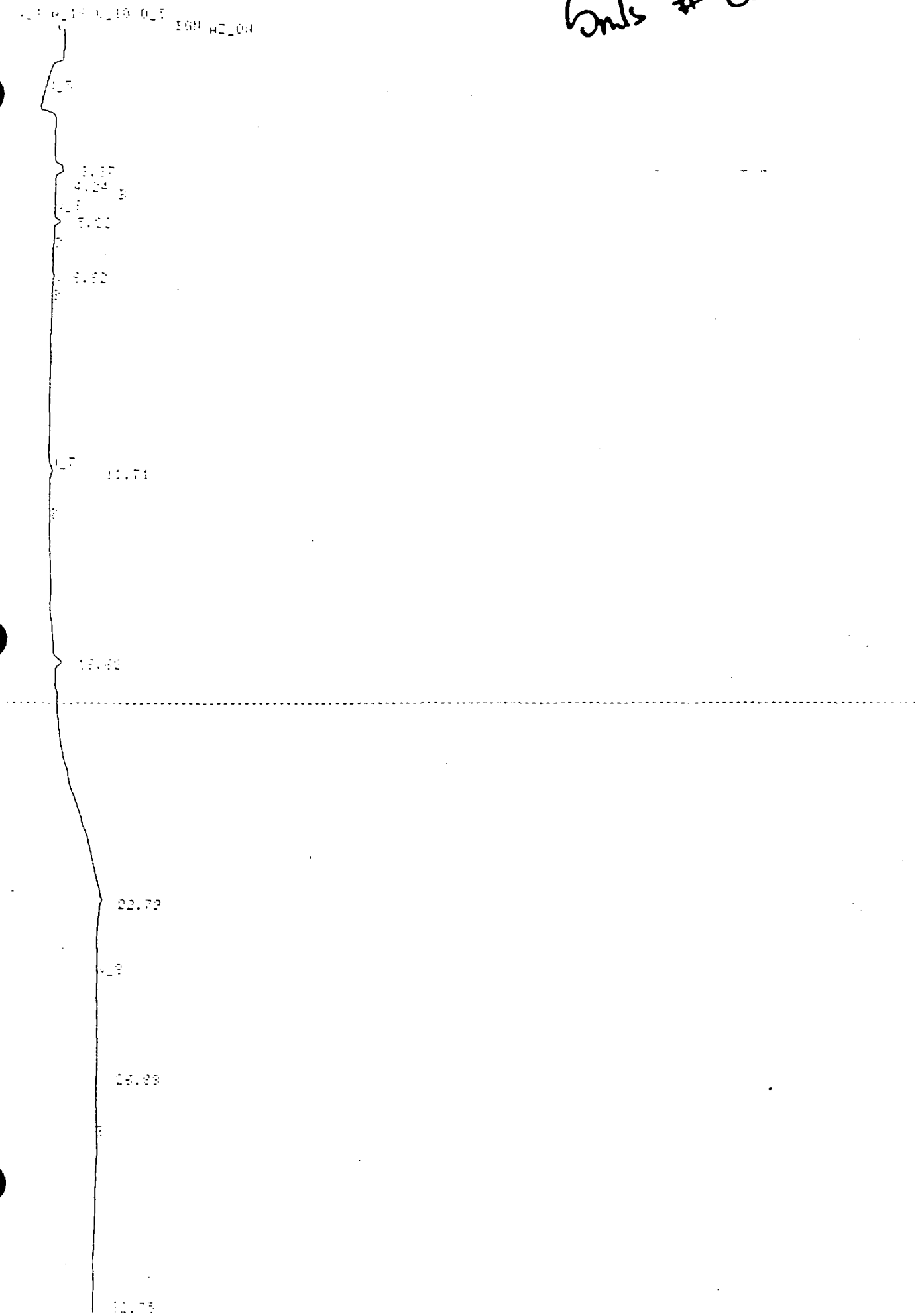
Smls #80105860
+sp

FILE 251 RUN 24 STARTED 18:16.9 80/01/18 8020 PURGE TRAP
METHOD 1 LAST EDITED 21:19.0 80/01/15



FILE 249 RUN 22 STARTED 16:18.0 80 01 18 8020 PURGE TRAP
METHOD 1 LAST EDITED 21:19.0 80 01 15

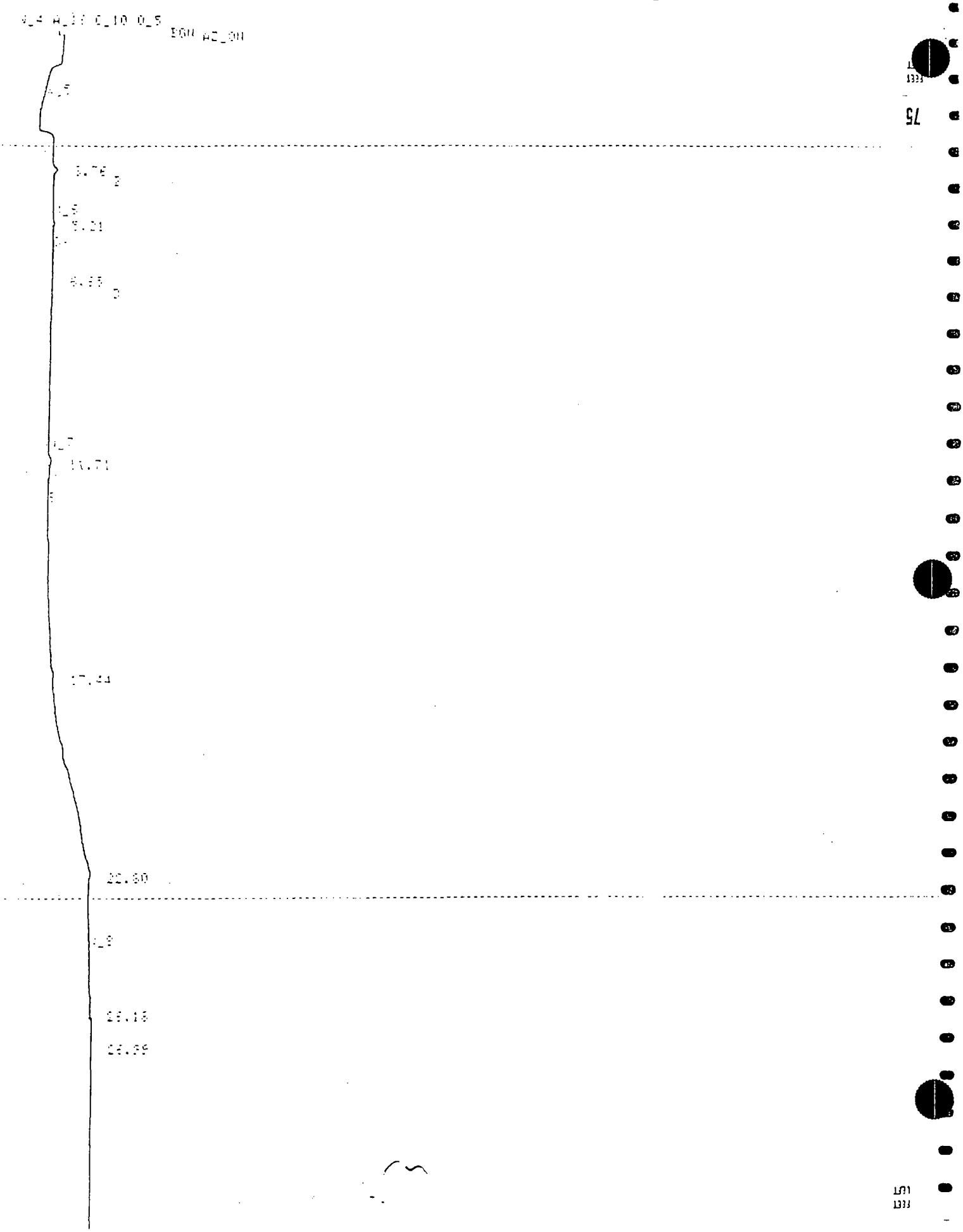
5mls # 8010581.

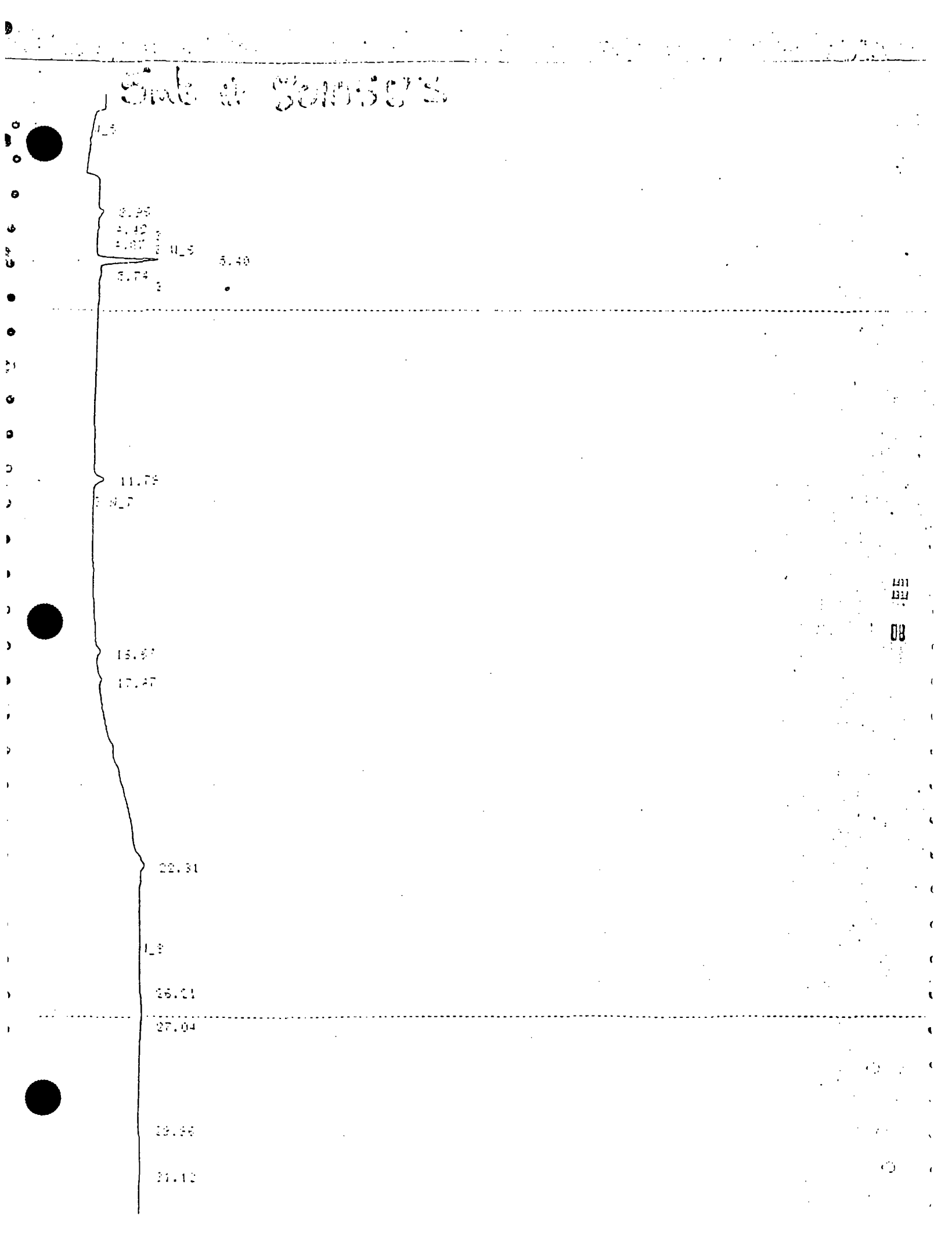


76

5mb #8010582.

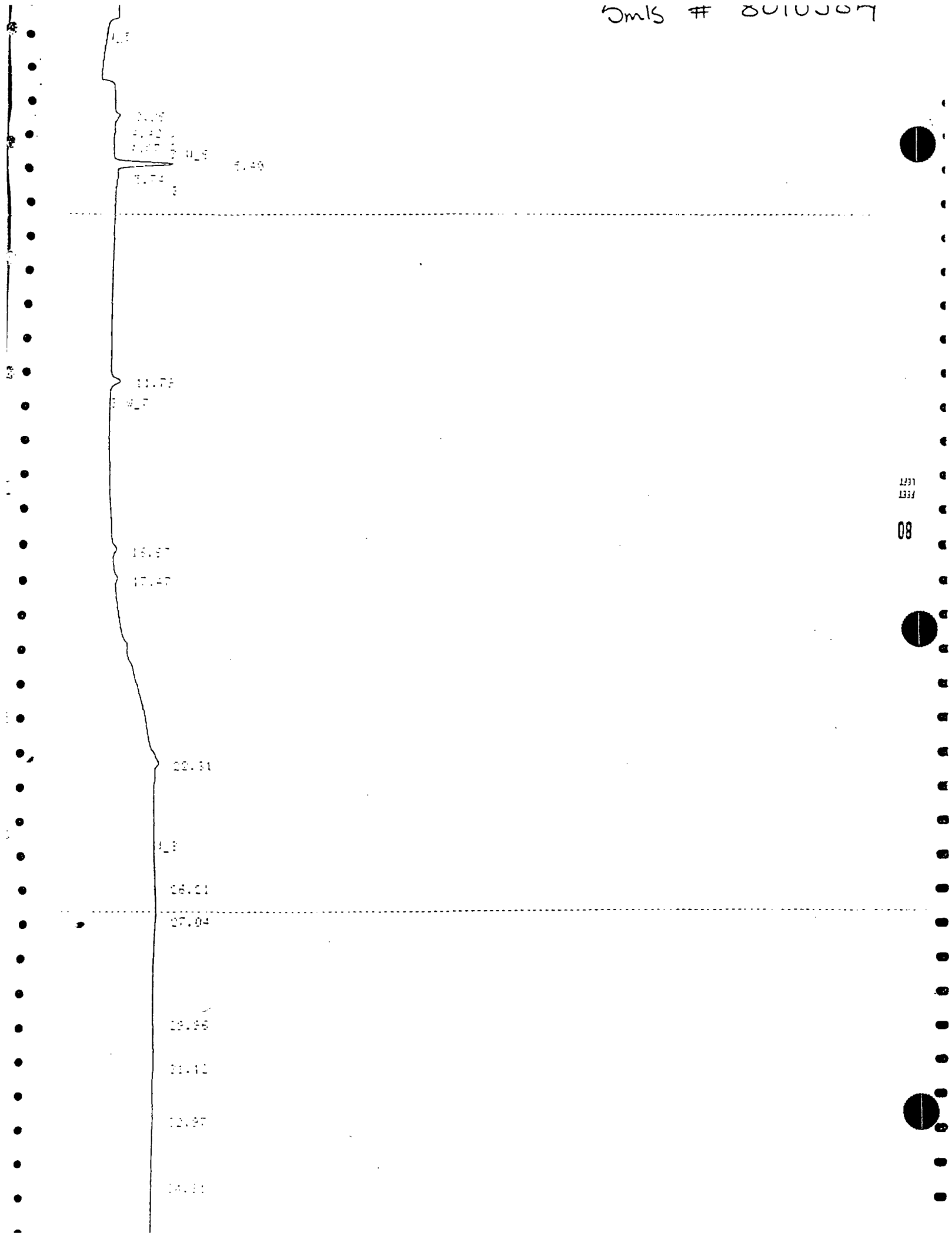
FILE 250 RUN 22 STARTED 17:21.9 80/01/18 8020 PURGE TRAP
METHOD 1 LAST EDITED 21:19.0 80/01/15

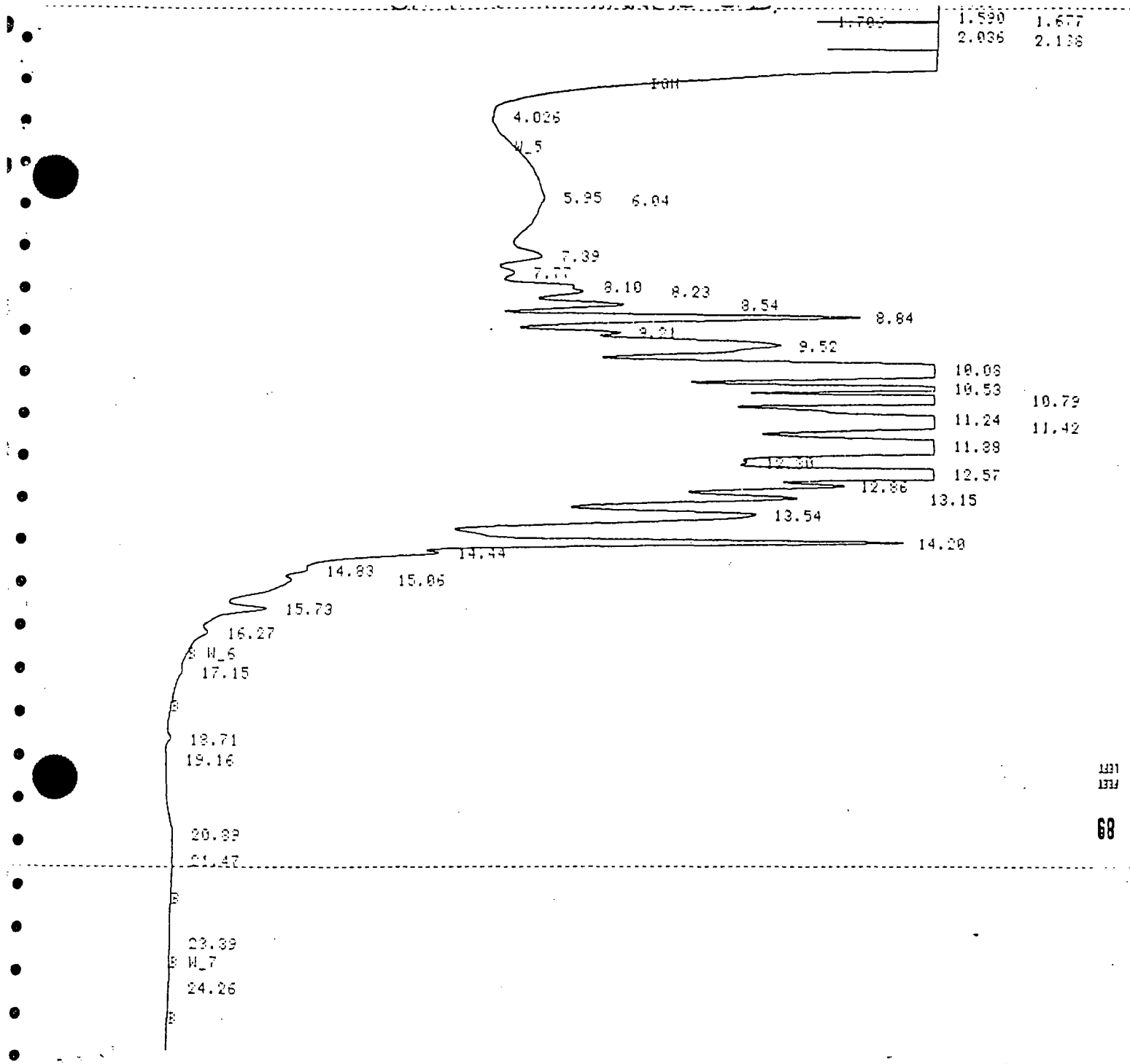




5.40
11.79
17.47
22.31
26.21
27.04

5mls # 8010384



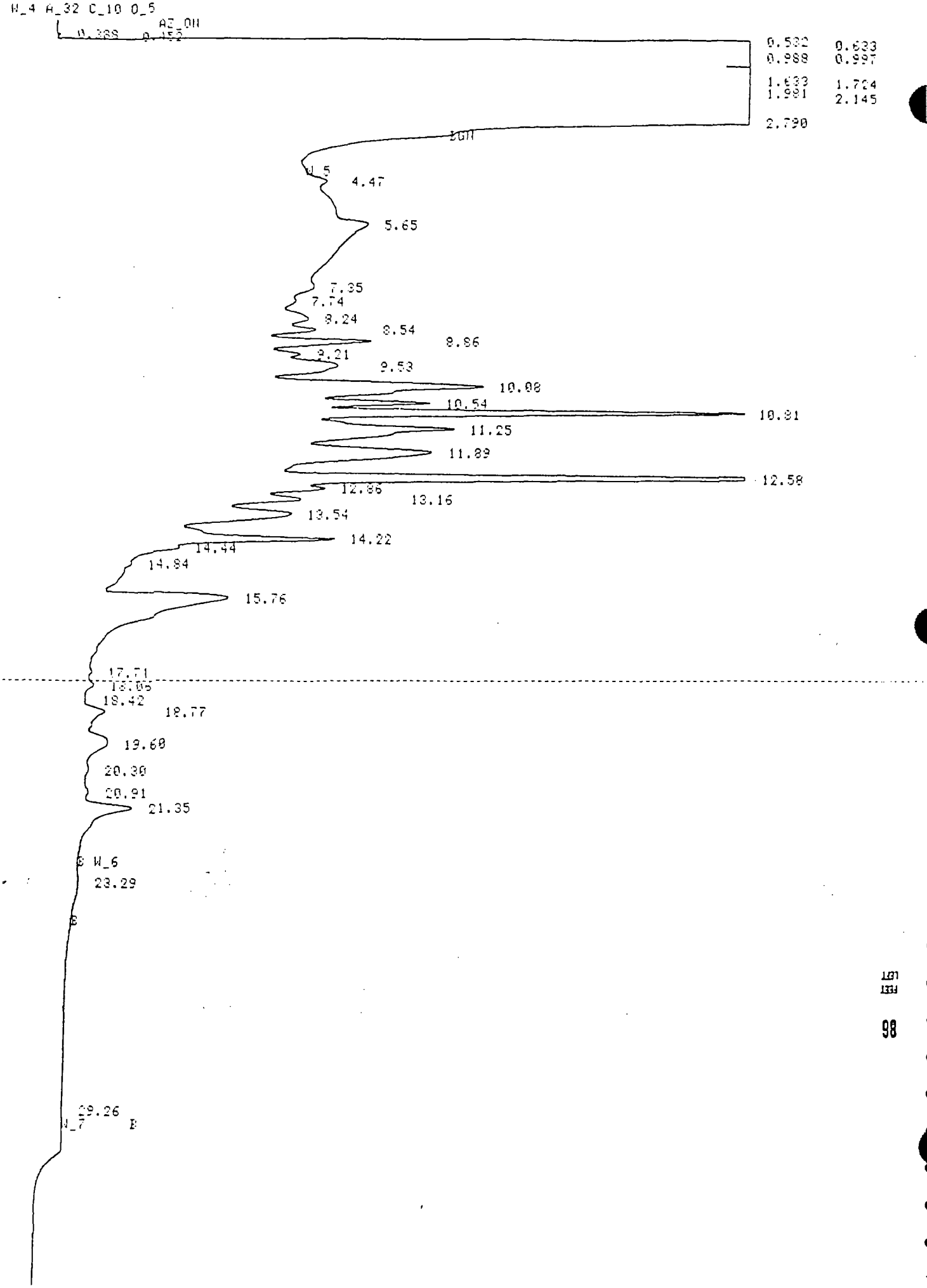


FILE 143 RUN 4 STARTED 07:01.2 80/01/01
% METHOD 1 HIGHBOILERS LAST EDITED 23:50.1 80/01/06

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
4.026	1132	0.3698	V	0.0042	0.0146
5.95	5837	0.7718	V	0.0217	0.0304
6.04	53338	0.5864	V	0.1986	0.0231
7.39	225481	14.2928	V	0.8397	0.5630
7.77	46909	5.0537	V	0.1747	0.1991
8.10	33668	6.2973	V	0.1254	0.2480
8.23	61552	8.9103	V	0.2292	0.3510
8.54	361415	38.5619	V	1.3460	1.5190
8.84	1328875	132.6785	V	4.9491	5.2262
9.21	112278	17.4705	V	0.4182	0.6882
9.52	1273302	67.5918	V	4.7421	2.6624
10.08	3519589	199.8582	V	13.1078	7.8724
10.53	921100	125.9191	V	3.4304	4.9599
10.79	4461136	548.0313	V	16.6144	21.5869
11.24	491878	61.7630	V	1.8319	2.4328
11.42	248294	26.6394	V	0.9247	1.0517
11.88	3027305	163.1948	V	11.2745	6.4282
12.30	6523	1.6722	V	0.0243	0.0659
12.57	[illegible]	[illegible]	V	[illegible]	[illegible]

FILE 144 RUN 2 STARTED 08:12.9 80/01/01
% METHOD 1 HIGHBOILERS LAST EDITED 23:50.1 80/01/06

ON # 8010576 + P.T.SP.

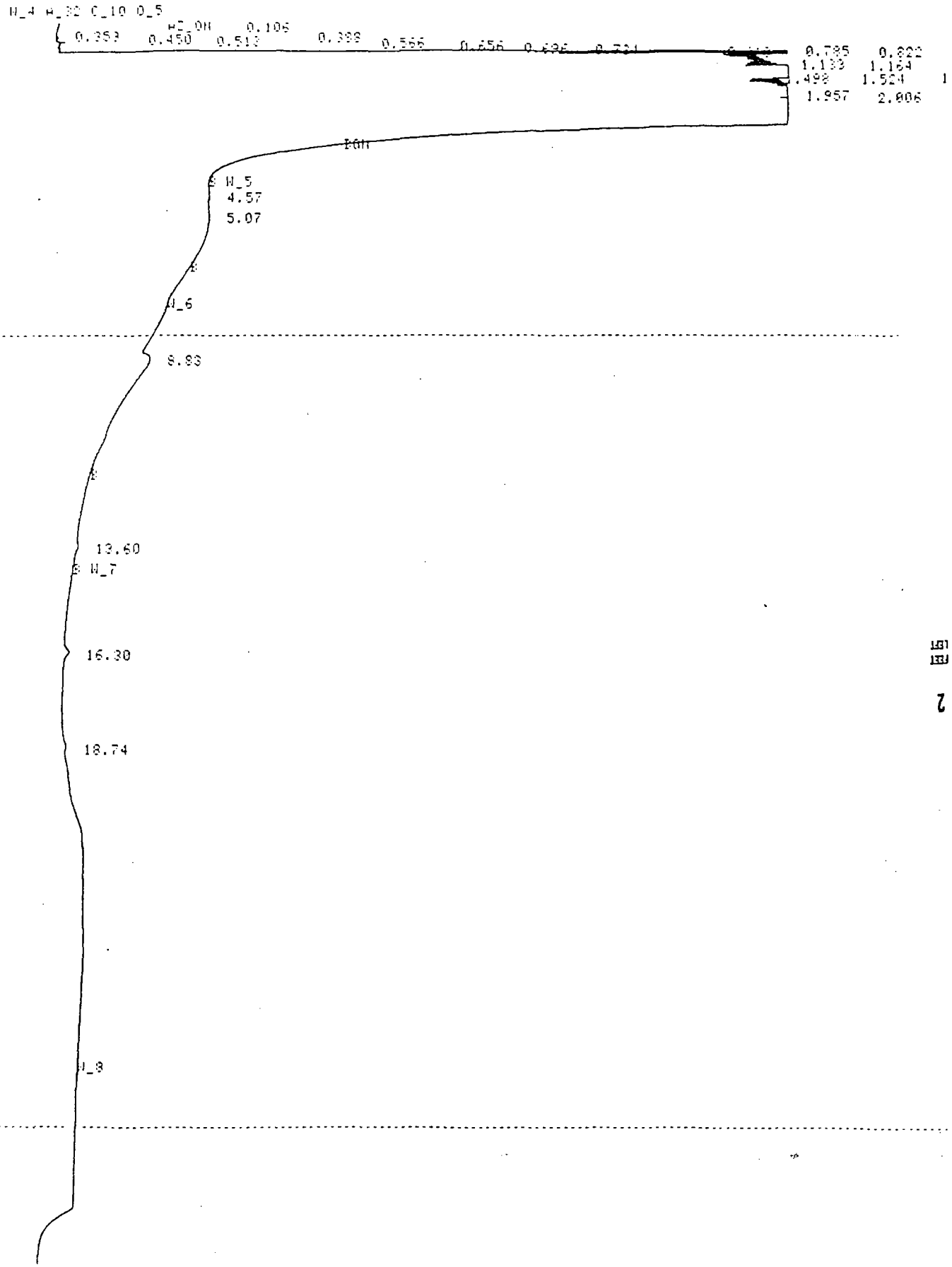


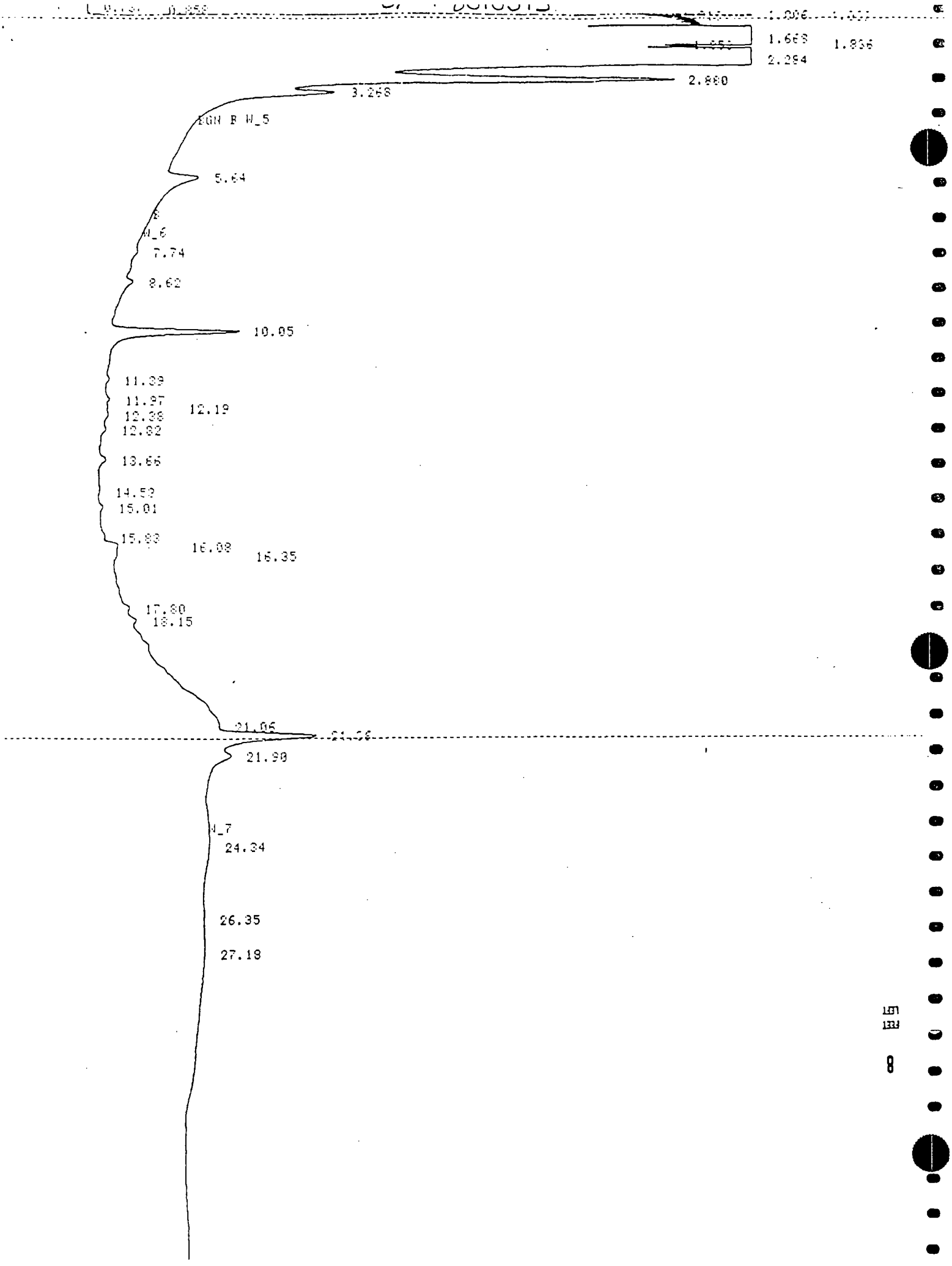
98

RST

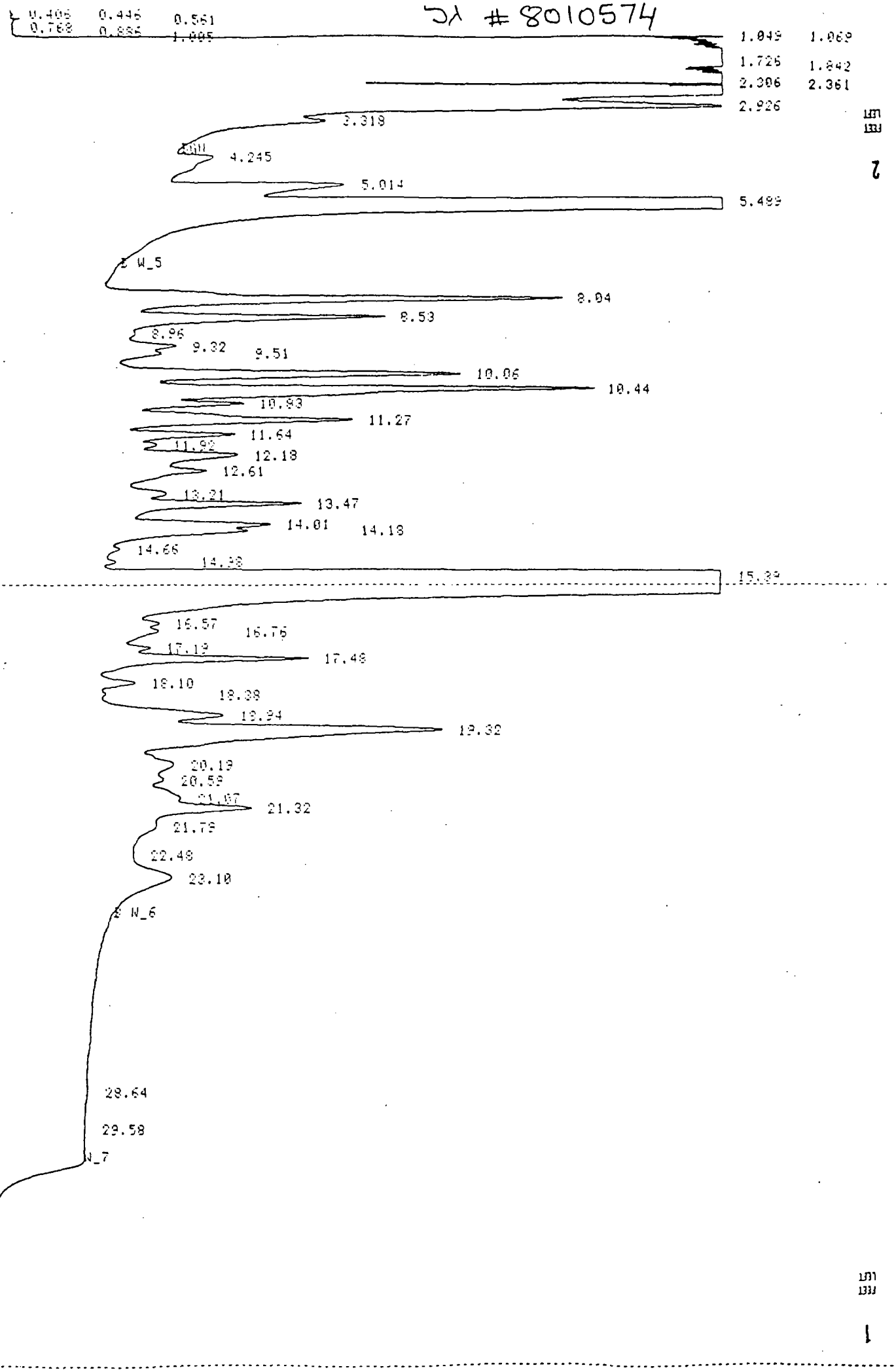
FILE 138 RUN 3 STARTED 00:29.3 80/01/13
% METHOD 1 HIGHBOILERS LAST EDITED 23:50.1 80/01/06

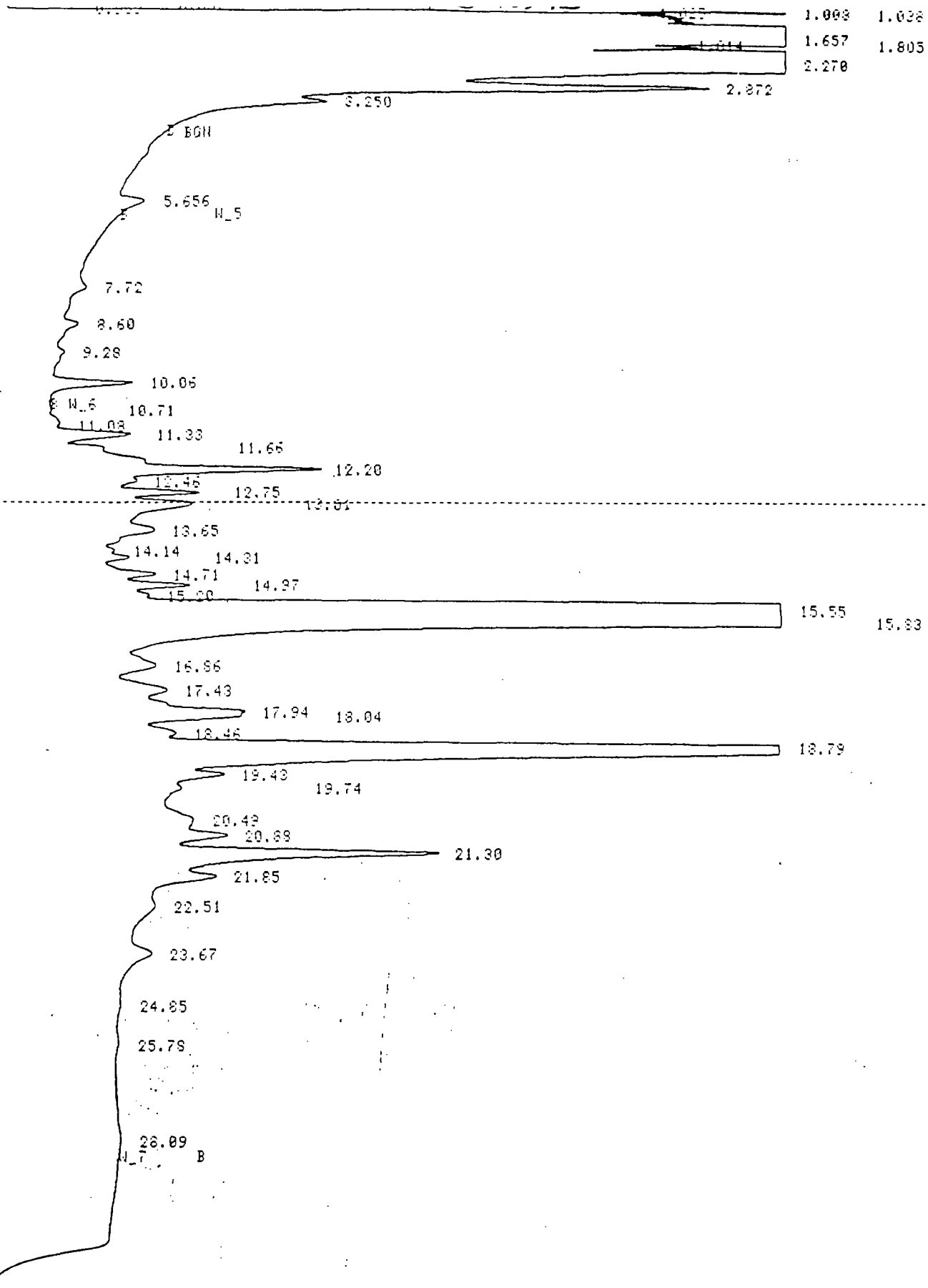
BLANK.




1.668
1.836
2.294
2.880
3.268
5.64
7.74
8.62
10.05
11.39
11.97
12.19
12.38
12.82
13.66
14.52
15.01
15.80
16.08
16.35
17.80
18.15
21.90
24.34
26.35
27.18

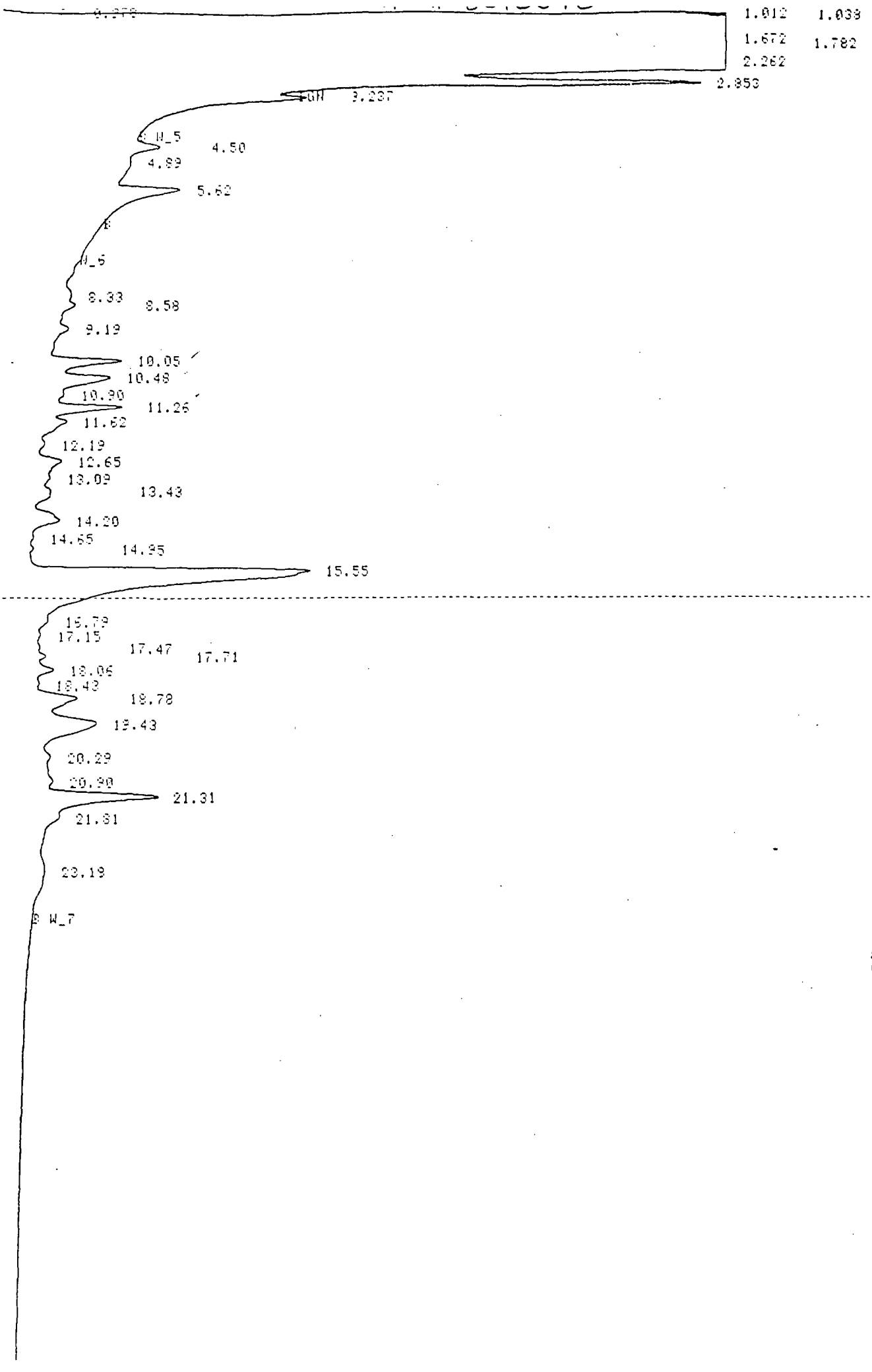
JA # 8010574


0.406
0.446
0.561
0.768
0.885
1.005
1.049
1.069
1.726
1.842
2.306
2.361
2.926
3.318
4.245
5.014
5.499
W_5
8.04
8.53
8.96
9.32
9.51
10.06
10.44
10.93
11.27
11.64
11.92
12.18
12.61
13.21
13.47
14.01
14.18
14.66
14.98
15.89
16.57
16.76
17.19
17.48
18.10
18.38
18.94
19.32
20.19
20.59
21.07
21.32
21.79
22.48
23.10
W_6
28.64
29.58
W_7



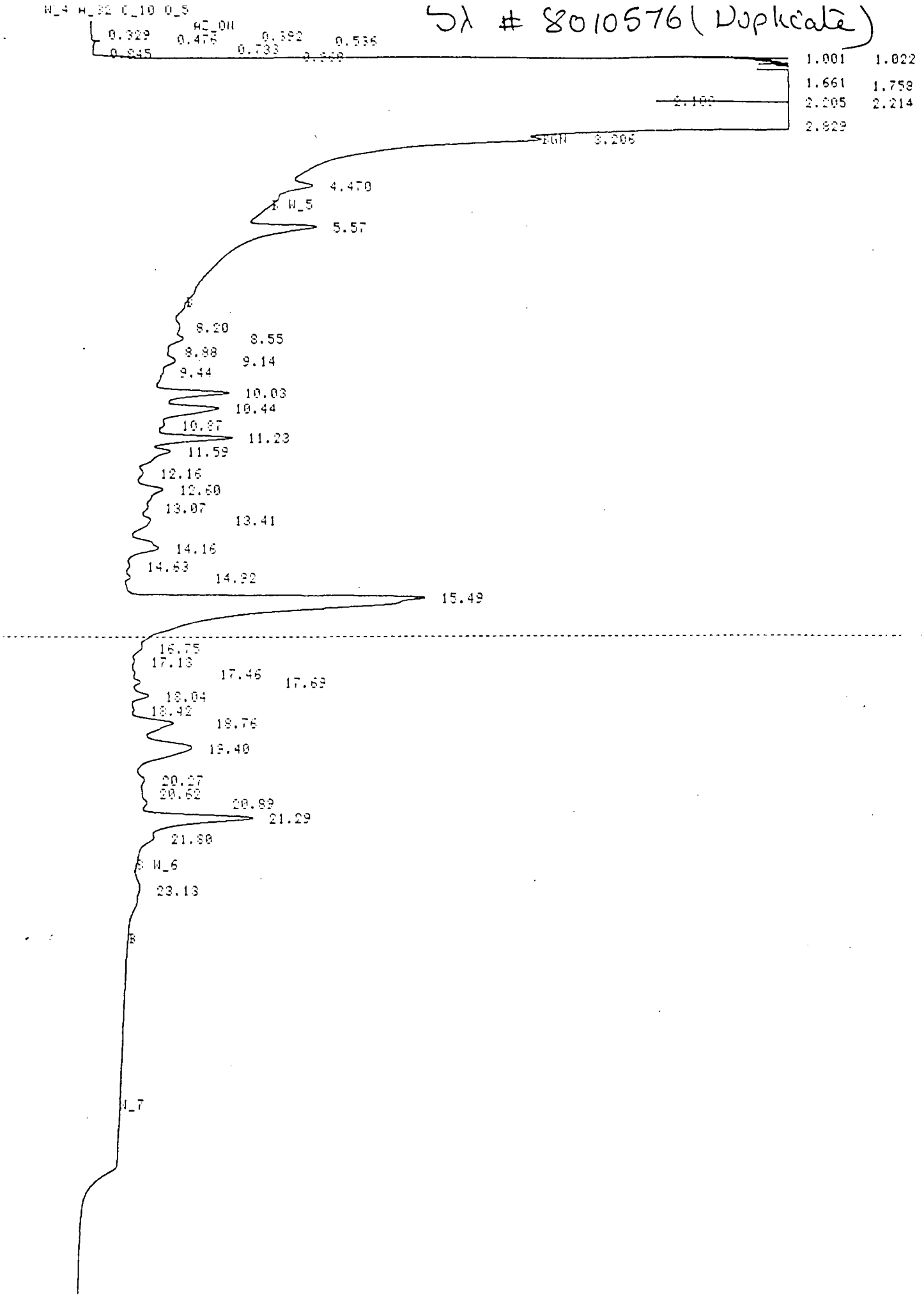
FILE 3 RUN 3 STARTED 01:54.1 80/01/01

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
5.656	130189	9.5093		0.3990	0.2027
7.72	68375	4.4360	U	0.2114	0.1493
8.60	90788	6.2296	U	0.2783	0.2100
9.28	53030	3.2570	U	0.1625	0.1096
10.06	331519	21.0476		1.0161	1.0447

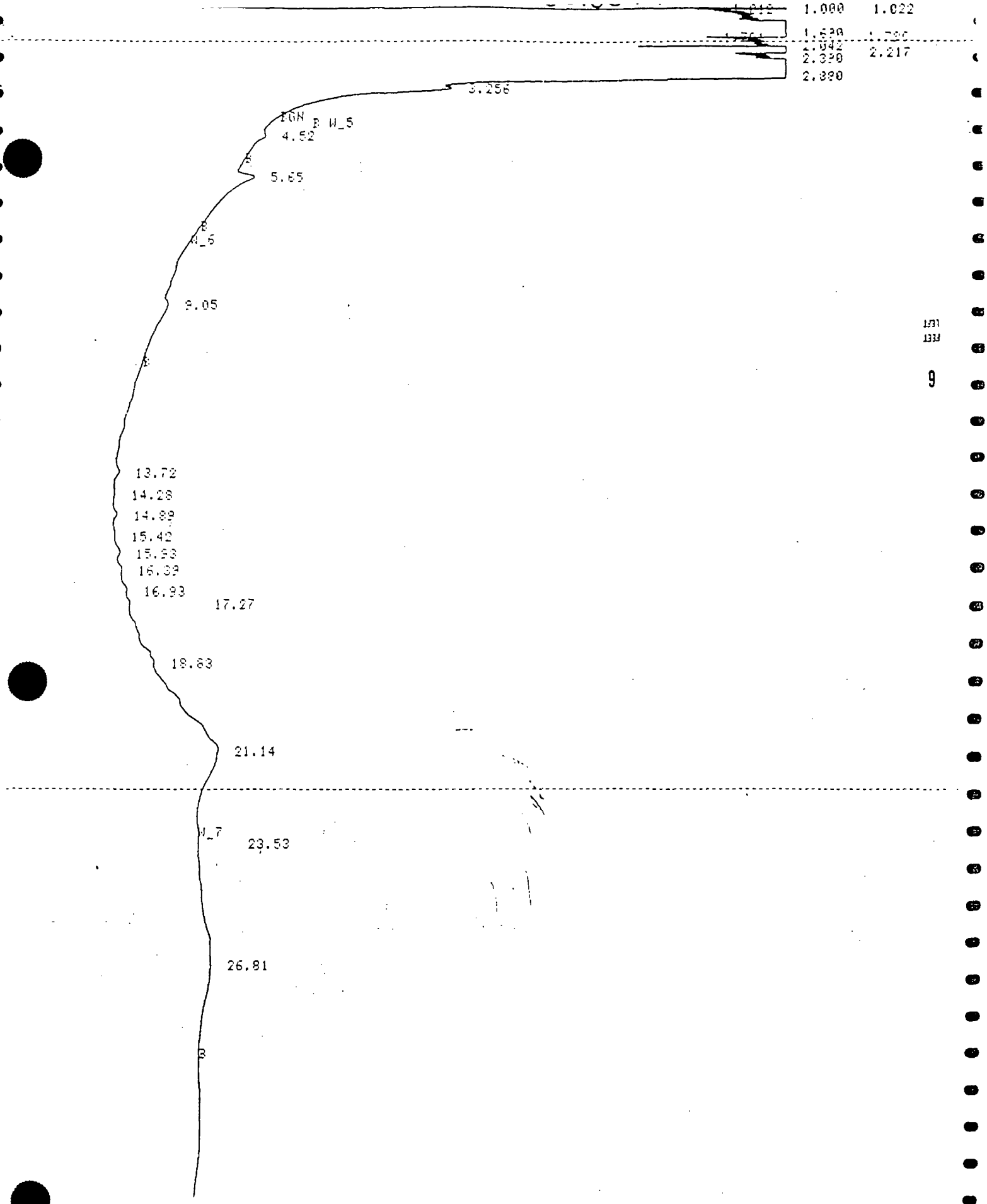

1.012
1.038
1.672
1.782
2.262
2.853
3.237
W_5
4.50
4.89
5.62
W_6
8.33
8.58
9.19
10.05
10.48
10.90
11.26
11.62
12.19
12.65
13.09
13.43
14.20
14.65
14.95
15.55
16.79
17.15
17.47
17.71
18.06
18.43
18.78
19.43
20.29
20.90
21.31
21.81
23.19
W_7

W_4 H_32 C_10 O_5

5λ # 8010576 (Duplicate)

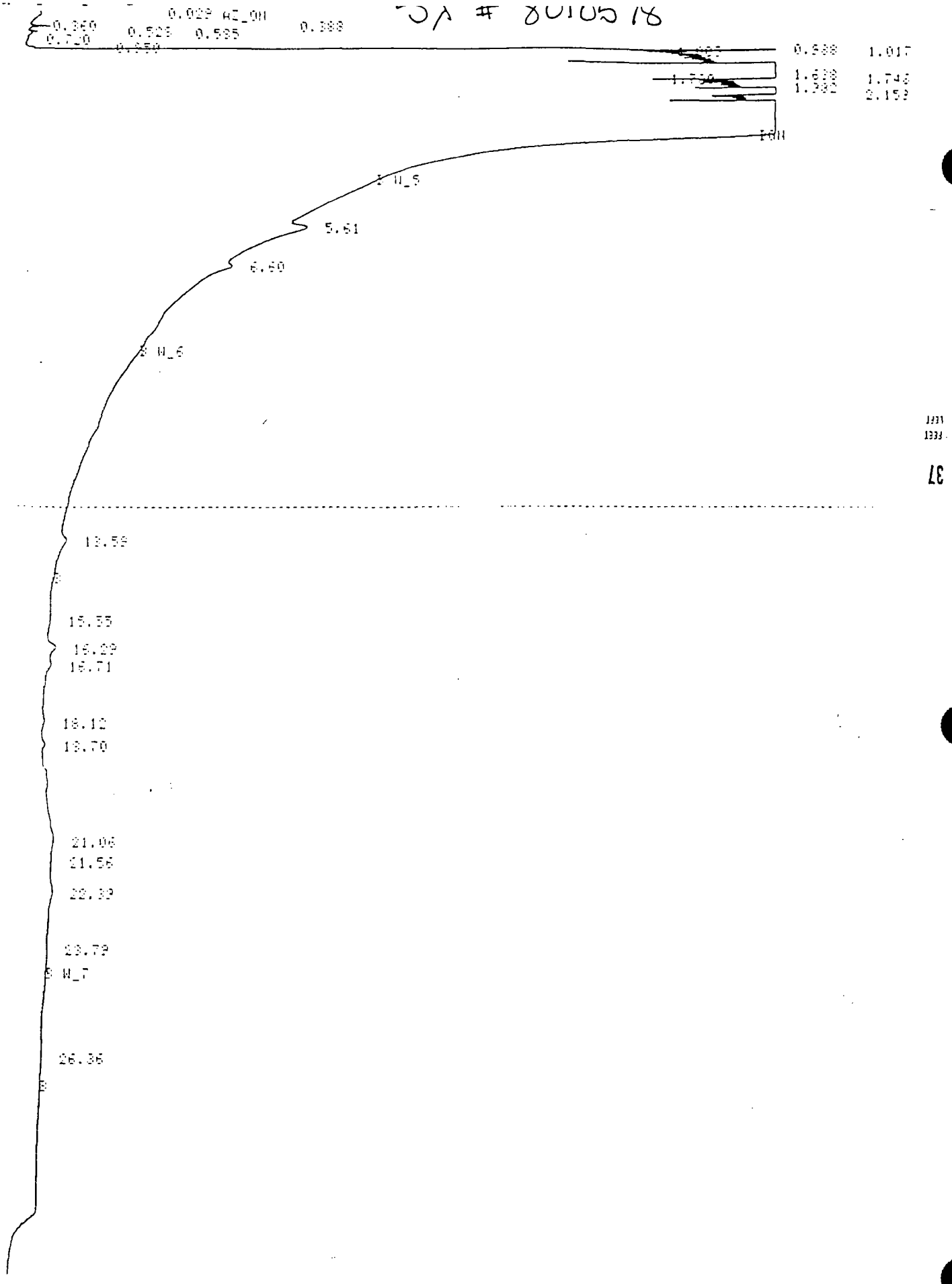


FILE 140 RUN 1 STARTED 03:03:2 90/01/01



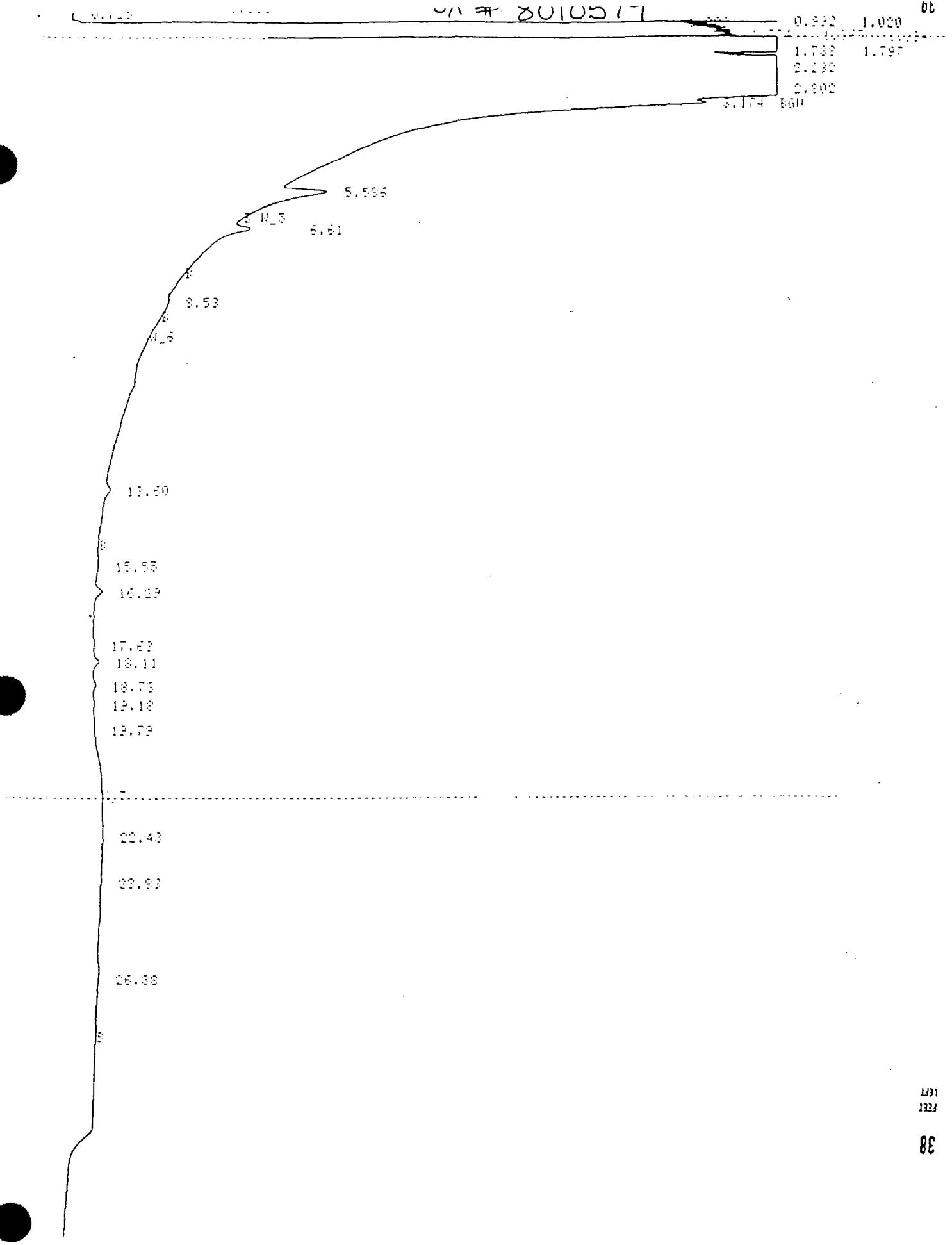
FILE 2 RUN 2 STARTED 01:14.2 80/01/01
% METHOD 1 HIGHOILERS LAST EDITED 00:01.2 80/01/01

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
[illegible]	[illegible]	[illegible]		[illegible]	[illegible]



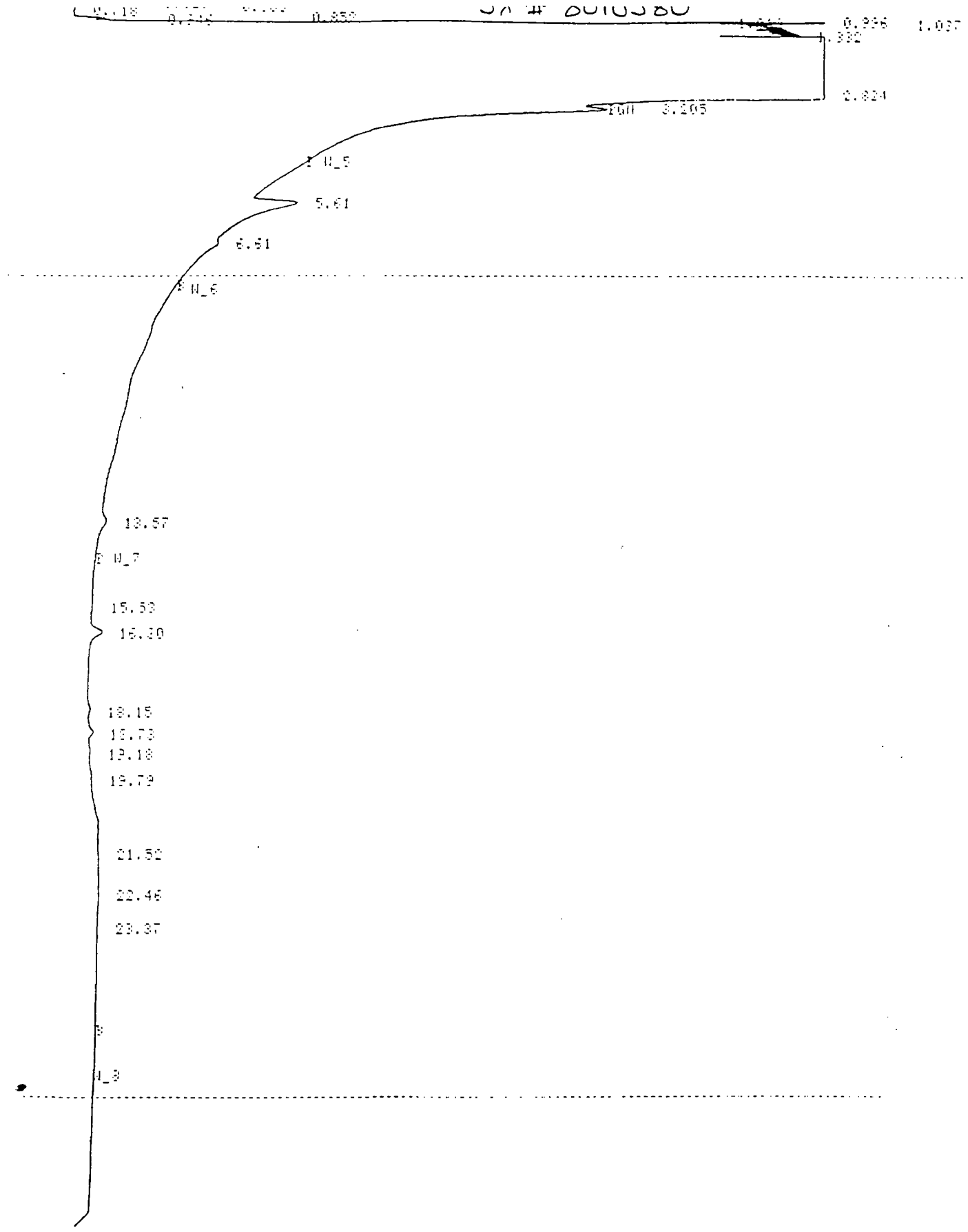
FILE 167 RUN 28 STARTED 14:33.1 80 01 02
METHOD 1 HIGHBOILERS LAST EDITED 23:50.1 80 01 06

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
5.61	161[illegible]	10.1455	M	39.1011	37.2547



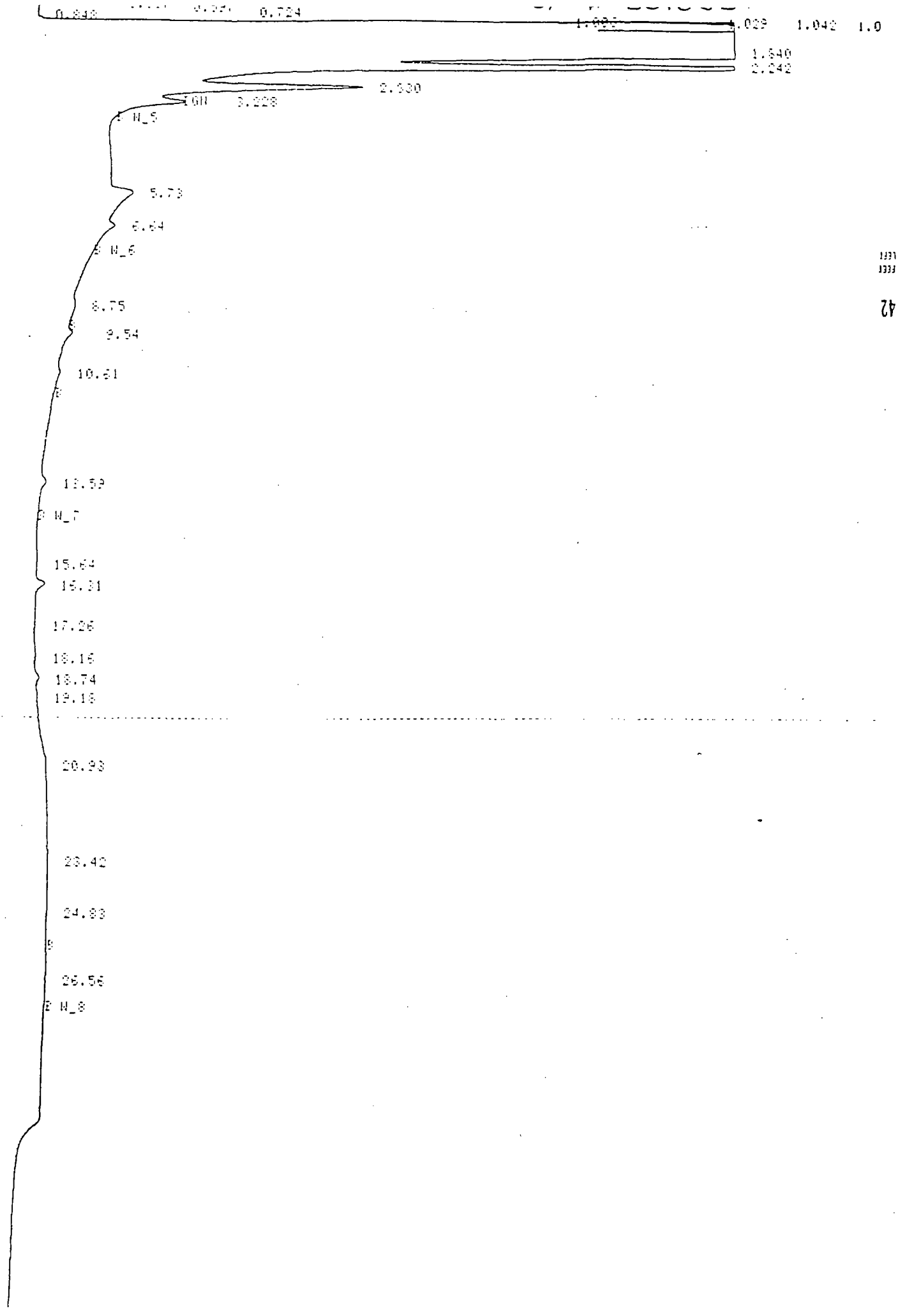
FILE 1[illegible] RUN 27 STARTED 13:53.2 80 01 02
% METHOD 1 HIGHBOILERS LAST EDITED 23:50.1 80 01 06

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT

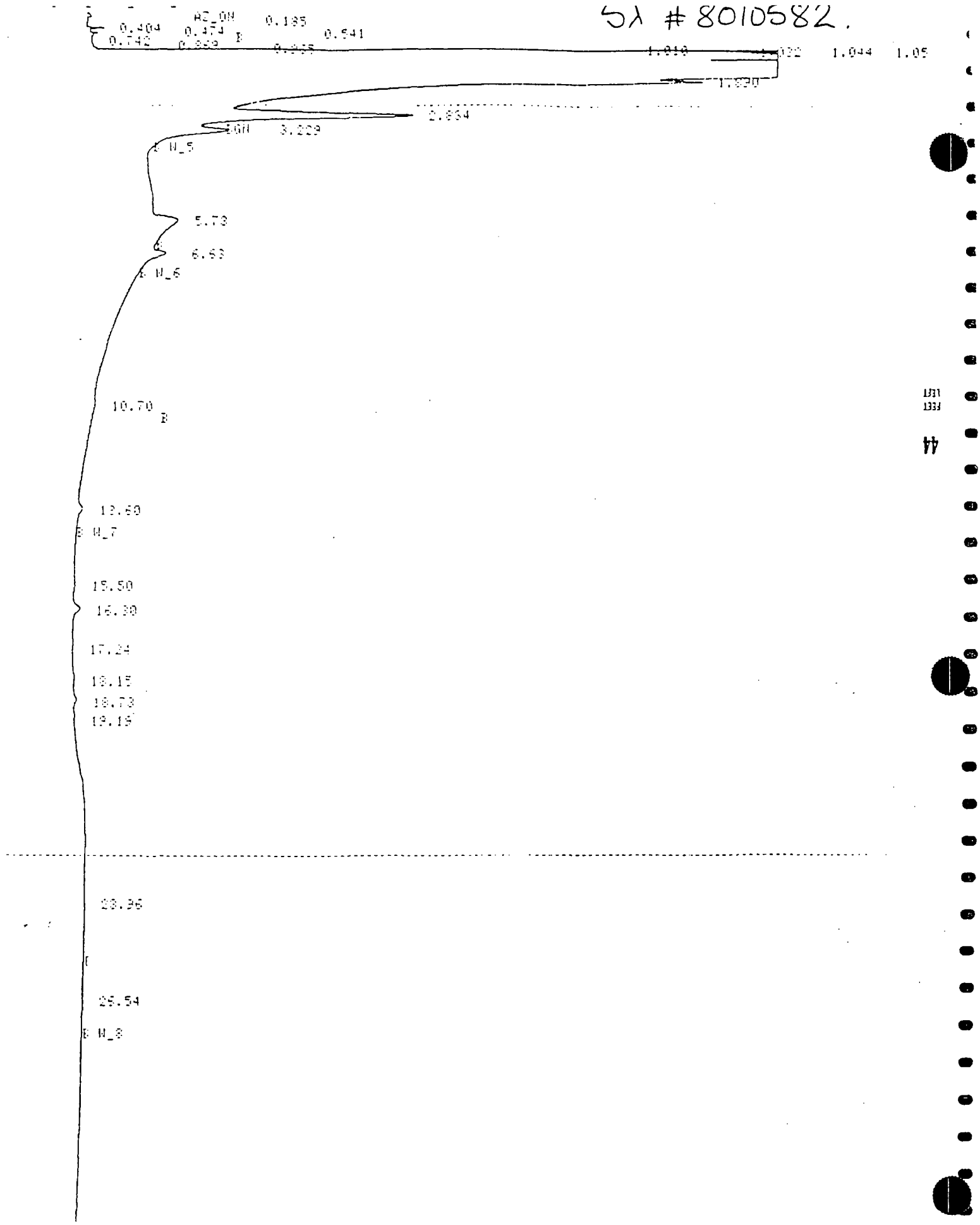


FILE 165 RUN 26 STARTED 13:17.0 80/01/02
% METHOD 1 HIGHBOILERS LAST EDITED 23:50.1 80/01/06

RT	AREA	HEIGHT BC	AREA PERCENT	HEIGHT PERCENT
[illegible]		[illegible]		[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]		[illegible]
[illegible]	[illegible]	2.4243	7.0220	4.[illegible]
15.53	3805	0.1942 M	0.5834	0.2996
16.30	70072	5.0337 M	10.7446	10.0669


0.724
1.029
1.042
1.0
1.640
2.242
2.630
3.228
W_5
5.73
6.64
W_6
8.75
9.54
10.61
W_7
15.64
15.31
17.26
18.16
18.74
19.18
20.93
23.42
24.93
26.56
W_8

5λ # 8010582.



FILE 153 RUN 24 STARTED 11:26.2 80/01/02
METHOD 1 HIGHBOILERS LAST EDITED 23:50.1 80/01/06

RT	AREA	HEIGHT	IC	AREA PERCENT	HEIGHT PERCENT

ANAMETRIX, INC.
LABORATORY SERVICES
ENVIRONMENTAL • ANALYTICAL CHEMISTRY
2754 AIELLO DRIVE • SAN JOSE, CA 95111 • (408) 629-1132

RECEIVED
FEB 5 1988
WAHLER & ASSOC.

February 1, 1988
Work Order Number 8801069
Date Received 01/12/88
Project NO. JC0104H

Bob Breyhaert
Wahler & Associates
1023 Corporation Way
Palo Alto, CA 94303

Six water samples were received for analysis of halogenated and aromatic volatile organics by gas chromatography, using the following EPA method(s):

ANAMETRIX I.D.	SAMPLE I.D.		METHOD(S)
8801069-01	JC0104H	V-2	601/602
-02	"	V-4	"
-03	"	TRAVEL BLANK 1-8-88	"
-04	"	METHOD BLANK 1-8-88	"
-05	"	TRAVEL BLANK 1-11-88	"
-06	"	METHOD BLANK 1-11-88	"

RESULTS

See enclosed data sheets, Pages 2 thru 16.

If there is any more that we can do, please give us a call. Thank you for using ANAMETRIX, INC.

Sincerely,

Sarah Schoen, Ph.D.
GC Supervisor

SRS/km

ORGANICS DATA ANALYSIS SHEET - EPA METHOD 601/8010
ANAMETRIX, INC. (408) 629-1132

Sample I.D. : JC0104H V-2
Matrix : WATER
Date sampled : 01-12-88
Date analyzed : 01-25-88
Dilution : 1:200

Anametrix I.D.: 8801069-01
Analyst : DF
Supervisor : SJS
Date released : 02-01-88
Instrument ID : HP6

CAS #	Compound Name	Reporting Limit (ug/l)	Amount Found (ug/l)
74-87-3	* Chloromethane	200	BRL
74-83-9	* Bromomethane	100	BRL
75-71-8	* Dichlorodifluoromethane	200	BRL
75-01-4	* Vinyl Chloride	100	BRL
75-00-3	* Chloroethane	100	BRL
75-09-2	* Methylene Chloride	100	8000
79-69-4	* Trichlorofluoromethane	100	BRL
75-35-4	* 1,1-Dichloroethene	100	BRL
75-34-3	* 1,1-Dichloroethane	100	500
156-59-2	# Cis-1,2-Dichloroethene	100	BRL
156-60-5	* Trans-1,2-Dichloroethene	100	BRL
67-66-3	* Chloroform	100	BRL
76-13-1	# Trichlorotrifluoroethane	100	BRL
107-06-2	* 1,2-Dichloroethane	100	BRL
71-55-6	* 1,1,1-Trichloroethane	100	170
56-23-5	* Carbon Tetrachloride	100	BRL
75-27-4	* Bromodichloromethane	100	BRL
78-87-5	* 1,2-Dichloropropane	100	BRL
10061-02-6	* Trans-1,3-Dichloropropene	100	BRL
79-01-6	* Trichloroethene	100	BRL
124-48-1	* Dibromochloromethane	100	BRL
79-00-5	* 1,1,2-Trichloroethane	100	BRL
10061-01-5	* cis-1,3-Dichloropropene	100	BRL
110-75-8	* 2-Chloroethylvinylether	200	BRL
75-25-2	* Bromoform	100	BRL
127-18-4	* Tetrachloroethene	100	BRL
79-34-5	* 1,1,2,2-Tetrachloroethane	100	BRL
108-90-7	* Chlorobenzene	100	BRL
541-73-1	* 1,3-Dichlorobenzene	200	BRL
95-50-1	* 1,2-Dichlorobenzene	200	BRL
106-46-7	* 1,4-Dichlorobenzene	200	BRL
	% Surrogate Recovery		108

BRL : Below reporting limit.
* A 601/8010 approved compound (Federal Register, 10/26/84).
\# A compound added by Anametrix, Inc.

ORGANICS DATA ANALYSIS SHEET - EPA METHOD 601/8010
ANAMETRIX, INC. (408) 629-1132

Sample I.D. : JC0104H V-4
Matrix : WATER
Date sampled : 01-12-88
Date analyzed : 01-22-88
Dilution : 1:50

Anametrix I.D.: 8801069-02
Analyst : PT
Supervisor : RJ
Date released : 02-01-88
Instrument ID : HP6

CAS #	Compound Name	Reporting Limit (ug/l)	Amount Found (ug/l)
74-87-3	* Chloromethane	50	BRL
74-83-9	* Bromomethane	25	BRL
75-71-8	* Dichlorodifluoromethane	50	BRL
75-01-4	* Vinyl Chloride	25	BRL
75-00-3	* Chloroethane	25	BRL
75-09-2	* Methylene Chloride	25	360
75-69-4	* Trichlorofluoromethane	25	BRL
75-35-4	* 1,1-Dichloroethene	25	73
75-34-3	* 1,1-Dichloroethane	25	990
156-59-2	# Cis-1,2-Dichloroethene	25	BRL
156-60-5	* Trans-1,2-Dichloroethene	25	BRL
67-66-3	* Chloroform	25	BRL
76-13-1	# Trichlorotrifluoroethane	25	BRL
107-06-2	* 1,2-Dichloroethane	25	BRL
71-55-6	* 1,1,1-Trichloroethane	25	540
56-23-5	* Carbon Tetrachloride	25	BRL
75-27-4	* Bromodichloromethane	25	BRL
78-87-5	* 1,2-Dichloropropane	25	BRL
10061-02-6	* Trans-1,3-Dichloropropene	25	BRL
79-01-6	* Trichloroethene	25	BRL
124-48-1	* Dibromochloromethane	25	BRL
79-00-5	* 1,1,2-Trichloroethane	25	BRL
10061-01-5	* cis-1,3-Dichloropropene	25	BRL
110-75-8	* 2-Chloroethylvinylether	50	BRL
75-25-2	* Bromoform	25	BRL
127-18-4	* Tetrachloroethene	25	BRL
79-34-5	* 1,1,2,2-Tetrachloroethane	25	BRL
108-90-7	* Chlorobenzene	25	BRL
541-73-1	* 1,3-Dichlorobenzene	50	BRL
95-50-1	* 1,2-Dichlorobenzene	50	BRL
106-46-7	* 1,4-Dichlorobenzene	50	BRL
	% Surrogate Recovery		81

BRL : Below reporting limit.
* A 601/8010 approved compound (Federal Register, 10/26/84).
\# A compound added by Anametrix, Inc.

ORGANICS DATA ANALYSIS SHEET - EPA METHOD 601/8010
ANAMETRIX, INC. (408) 629-1132

Sample I.D. : JC0104H TRAVEL BLANK 1-8-88 Anametrix I.D.: 8801069-03
Matrix : WATER Analyst : JF
Date sampled : 01-12-88 Supervisor : RJS
Date analyzed : 01-22-88 Date released : 02-01-88
Dilution : NONE Instrument ID : HP6

CAS #	Compound Name	Reporting Limit (ug/l)	Amount Found (ug/l)
74-87-3	* Chloromethane	1	BRL
74-83-9	* Bromomethane	0.5	BRL
75-71-8	* Dichlorodifluoromethane	1	BRL
75-01-4	* Vinyl Chloride	0.5	BRL
75-00-3	* Chloroethane	0.5	BRL
75-09-2	* Methylene Chloride	0.5	BRL
79-69-4	* Trichlorofluoromethane	0.5	BRL
75-35-4	* 1,1-Dichloroethene	0.5	BRL
75-34-3	* 1,1-Dichloroethane	0.5	BRL
156-59-2	# Cis-1,2-Dichloroethene	0.5	BRL
156-60-5	* Trans-1,2-Dichloroethene	0.5	BRL
67-66-3	* Chloroform	0.5	3.8
76-13-1	# Trichlorotrifluoroethane	0.5	BRL
107-06-2	* 1,2-Dichloroethane	0.5	BRL
71-55-6	* 1,1,1-Trichloroethane	0.5	BRL
56-23-5	* Carbon Tetrachloride	0.5	BRL
75-27-4	* Bromodichloromethane	0.5	BRL
78-87-5	* 1,2-Dichloropropane	0.5	BRL
10061-02-6	* Trans-1,3-Dichloropropene	0.5	BRL
79-01-6	* Trichloroethene	0.5	BRL
124-48-1	* Dibromochloromethane	0.5	BRL
79-00-5	* 1,1,2-Trichloroethane	0.5	BRL
10061-01-5	* cis-1,3-Dichloropropene	0.5	BRL
110-75-8	* 2-Chloroethylvinylether	1	BRL
75-25-2	* Bromoform	0.5	BRL
127-18-4	* Tetrachloroethene	0.5	BRL
79-34-5	* 1,1,2,2-Tetrachloroethane	0.5	BRL
108-90-7	* Chlorobenzene	0.5	BRL
541-73-1	* 1,3-Dichlorobenzene	1	BRL
95-50-1	* 1,2-Dichlorobenzene	1	BRL
106-46-7	* 1,4-Dichlorobenzene	1	BRL
	% Surrogate Recovery		122

BRL : Below reporting limit.
* A 601/8010 approved compound (Federal Register, 10/26/84).
# A compound added by Anametrix, Inc.

ORGANICS DATA ANALYSIS SHEET - EPA METHOD 601/8010
ANAMETRIX, INC. (408) 629-1132

Sample I.D. : JC0104H METHOD BLANK 1-8-88 Anametrix I.D.: 8801069-04
Matrix : WATER Analyst : PF
Date sampled : 01-12-88 Supervisor : SJ
Date analyzed : 01-22-88 Date released : 02-01-88
Dilution : NONE Instrument ID : HP6

CAS #		Compound Name	Reporting Limit (ug/l)	Amount Found (ug/l)
74-87-3	*	Chloromethane	1	BRL
74-83-9	*	Bromomethane	0.5	BRL
75-71-8	*	Dichlorodifluoromethane	1	BRL
75-01-4	*	Vinyl Chloride	0.5	BRL
75-00-3	*	Chloroethane	0.5	BRL
75-09-2	*	Methylene Chloride	0.5	4.4
79-69-4	*	Trichlorofluoromethane	0.5	BRL
75-35-4	*	1,1-Dichloroethene	0.5	BRL
75-34-3	*	1,1-Dichloroethane	0.5	BRL
156-59-2	#	Cis-1,2-Dichloroethene	0.5	BRL
156-60-5	*	Trans-1,2-Dichloroethene	0.5	BRL
67-66-3	*	Chloroform	0.5	BRL
76-13-1	#	Trichlorotrifluoroethane	0.5	BRL
107-06-2	*	1,2-Dichloroethane	0.5	BRL
71-55-6	*	1,1,1-Trichloroethane	0.5	BRL
56-23-5	*	Carbon Tetrachloride	0.5	BRL
75-27-4	*	Bromodichloromethane	0.5	BRL
78-87-5	*	1,2-Dichloropropane	0.5	BRL
10061-02-6	*	Trans-1,3-Dichloropropene	0.5	BRL
79-01-6	*	Trichloroethene	0.5	BRL
124-48-1	*	Dibromochloromethane	0.5	BRL
79-00-5	*	1,1,2-Trichloroethane	0.5	BRL
10061-01-5	*	cis-1,3-Dichloropropene	0.5	BRL
110-75-8	*	2-Chloroethylvinylether	1	BRL
75-25-2	*	Bromoform	0.5	BRL
127-18-4	*	Tetrachloroethene	0.5	BRL
79-34-5	*	1,1,2,2-Tetrachloroethane	0.5	BRL
108-90-7	*	Chlorobenzene	0.5	BRL
541-73-1	*	1,3-Dichlorobenzene	1	BRL
95-50-1	*	1,2-Dichlorobenzene	1	BRL
106-46-7	*	1,4-Dichlorobenzene	1	BRL
		% Surrogate Recovery		129

BRL : Below reporting limit.
* A 601/8010 approved compound (Federal Register, 10/26/84).
\# A compound added by Anametrix, Inc.

ORGANICS DATA ANALYSIS SHEET - EPA METHOD 601/8010
ANAMETRIX, INC. (408) 629-1132

Sample I.D. : JC0104H TRAVEL BLANK 1-11-88 Anametrix I.D.: 8801069-05
Matrix : WATER Analyst : PF
Date sampled : 01-12-88 Supervisor : [illegible]
Date analyzed : 01-22-88 Date released : 02-01-88
Dilution : NONE Instrument ID : HP6

CAS #	Compound Name	Reporting Limit (ug/l)	Amount Found (ug/l)
74-87-3	* Chloromethane	1	BRL
74-83-9	* Bromomethane	0.5	BRL
75-71-8	* Dichlorodifluoromethane	1	BRL
75-01-4	* Vinyl Chloride	0.5	BRL
75-00-3	* Chloroethane	0.5	BRL
75-09-2	* Methylene Chloride	0.5	BRL
79-69-4	* Trichlorofluoromethane	0.5	BRL
75-35-4	* 1,1-Dichloroethene	0.5	BRL
75-34-3	* 1,1-Dichloroethane	0.5	BRL
156-59-2	# Cis-1,2-Dichloroethene	0.5	BRL
156-60-5	* Trans-1,2-Dichloroethene	0.5	BRL
67-66-3	* Chloroform	0.5	4.0
76-13-1	# Trichlorotrifluoroethane	0.5	BRL
107-06-2	* 1,2-Dichloroethane	0.5	BRL
71-55-6	* 1,1,1-Trichloroethane	0.5	BRL
56-23-5	* Carbon Tetrachloride	0.5	BRL
75-27-4	* Bromodichloromethane	0.5	BRL
78-87-5	* 1,2-Dichloropropane	0.5	BRL
10061-02-6	* Trans-1,3-Dichloropropene	0.5	BRL
79-01-6	* Trichloroethene	0.5	BRL
124-48-1	* Dibromochloromethane	0.5	BRL
79-00-5	* 1,1,2-Trichloroethane	0.5	BRL
10061-01-5	* cis-1,3-Dichloropropene	0.5	BRL
110-75-8	* 2-Chloroethylvinylether	1	BRL
75-25-2	* Bromoform	0.5	BRL
127-18-4	* Tetrachloroethene	0.5	BRL
79-34-5	* 1,1,2,2-Tetrachloroethane	0.5	BRL
108-90-7	* Chlorobenzene	0.5	BRL
541-73-1	* 1,3-Dichlorobenzene	1	BRL
95-50-1	* 1,2-Dichlorobenzene	1	BRL
106-46-7	* 1,4-Dichlorobenzene	1	BRL
	% Surrogate Recovery		118

BRL : Below reporting limit.
* A 601/8010 approved compound (Federal Register, 10/26/84).
\# A compound added by Anametrix, Inc.

ORGANICS DATA ANALYSIS SHEET - EPA METHOD 601/8010
ANAMETRIX, INC. (408) 629-1132

Sample I.D. : JC0104H METHOD BLANK 1-11-88 Anametrix I.D.: 8801069-06
Matrix : WATER Analyst : DF
Date sampled : 01-12-88 Supervisor : DJS
Date analyzed : 01-22-88 Date released : 02-01-88
Dilution : NONE Instrument ID : HP6

CAS #	Compound Name	Reporting Limit (ug/l)	Amount Found (ug/l)
74-87-3	* Chloromethane	1	BRL
74-83-9	* Bromomethane	0.5	BRL
75-71-8	* Dichlorodifluoromethane	1	BRL
75-01-4	* Vinyl Chloride	0.5	BRL
75-00-3	* Chloroethane	0.5	BRL
75-09-2	* Methylene Chloride	0.5	3.7
79-69-4	* Trichlorofluoromethane	0.5	BRL
75-35-4	* 1,1-Dichloroethene	0.5	BRL
75-34-3	* 1,1-Dichloroethane	0.5	BRL
156-59-2	# Cis-1,2-Dichloroethene	0.5	BRL
156-60-5	* Trans-1,2-Dichloroethene	0.5	BRL
67-66-3	* Chloroform	0.5	BRL
76-13-1	# Trichlorotrifluoroethane	0.5	BRL
107-06-2	* 1,2-Dichloroethane	0.5	BRL
71-55-6	* 1,1,1-Trichloroethane	0.5	BRL
56-23-5	* Carbon Tetrachloride	0.5	BRL
75-27-4	* Bromodichloromethane	0.5	BRL
78-87-5	* 1,2-Dichloropropane	0.5	BRL
10061-02-6	* Trans-1,3-Dichloropropene	0.5	BRL
79-01-6	* Trichloroethene	0.5	BRL
124-48-1	* Dibromochloromethane	0.5	BRL
79-00-5	* 1,1,2-Trichloroethane	0.5	BRL
10061-01-5	* cis-1,3-Dichloropropene	0.5	BRL
110-75-8	* 2-Chloroethylvinylether	1	BRL
75-25-2	* Bromoform	0.5	BRL
127-18-4	* Tetrachloroethene	0.5	BRL
79-34-5	* 1,1,2,2-Tetrachloroethane	0.5	BRL
108-90-7	* Chlorobenzene	0.5	BRL
541-73-1	* 1,3-Dichlorobenzene	1	BRL
95-50-1	* 1,2-Dichlorobenzene	1	BRL
106-46-7	* 1,4-Dichlorobenzene	1	BRL
	% Surrogate Recovery		116

BRL : Below reporting limit.
* A 601/8010 approved compound (Federal Register, 10/26/84).
\# A compound added by Anametrix, Inc.

ORGANICS DATA ANALYSIS SHEET - EPA METHOD 601/8010
ANAMETRIX, INC. (408) 629-1132

Sample I.D. : NONE
Matrix : WATER
Date sampled : 01-12-88
Date analyzed : 01-22-88
Dilution : NONE

Anametrix I.D. : METHOD BLK
Analyst : PF
Supervisor : [illegible]
Date released : 02-01-88
Instrument ID : HP6

CAS #	Compound Name	Reporting Limit (ug/l)	Amount Found (ug/l)
74-87-3	* Chloromethane	1	BRL
74-83-9	* Bromomethane	0.5	BRL
75-71-8	* Dichlorodifluoromethane	1	BRL
75-01-4	* Vinyl Chloride	0.5	BRL
75-00-3	* Chloroethane	0.5	BRL
75-09-2	* Methylene Chloride	0.5	BRL
79-69-4	* Trichlorofluoromethane	0.5	BRL
75-35-4	* 1,1-Dichloroethene	0.5	BRL
75-34-3	* 1,1-Dichloroethane	0.5	BRL
156-59-2	# Cis-1,2-Dichloroethene	0.5	BRL
156-60-5	* Trans-1,2-Dichloroethene	0.5	BRL
67-66-3	* Chloroform	0.5	BRL
76-13-1	# Trichlorotrifluoroethane	0.5	BRL
107-06-2	* 1,2-Dichloroethane	0.5	BRL
71-55-6	* 1,1,1-Trichloroethane	0.5	BRL
56-23-5	* Carbon Tetrachloride	0.5	BRL
75-27-4	* Bromodichloromethane	0.5	BRL
78-87-5	* 1,2-Dichloropropane	0.5	BRL
10061-02-6	* Trans-1,3-Dichloropropene	0.5	BRL
79-01-6	* Trichloroethene	0.5	BRL
124-48-1	* Dibromochloromethane	0.5	BRL
79-00-5	* 1,1,2-Trichloroethane	0.5	BRL
10061-01-5	* cis-1,3-Dichloropropene	0.5	BRL
110-75-8	* 2-Chloroethylvinylether	1	BRL
75-25-2	* Bromoform	0.5	BRL
127-18-4	* Tetrachloroethene	0.5	BRL
79-34-5	* 1,1,2,2-Tetrachloroethane	0.5	BRL
108-90-7	* Chlorobenzene	0.5	BRL
541-73-1	* 1,3-Dichlorobenzene	1	BRL
95-50-1	* 1,2-Dichlorobenzene	1	BRL
106-46-7	* 1,4-Dichlorobenzene	1	BRL
	% Surrogate Recovery		94

BRL : Below reporting limit.
* A 601/8010 approved compound (Federal Register, 10/26/84).
\# A compound added by Anametrix, Inc.

ORGANICS DATA ANALYSIS SHEET - EPA METHOD 601/8010
ANAMETRIX, INC. (408) 629-1132

Sample I.D. : NONE
Matrix : WATER
Date sampled : 01-12-88
Date analyzed : 01-25-88
Dilution : NONE

Anametrix I.D. : METHOD BLK
Analyst : DF
Supervisor : [illegible]
Date released : 02-01-88
Instrument ID : HP6

CAS #	Compound Name	Reporting Limit (ug/l)	Amount Found (ug/l)
74-87-3	* Chloromethane	1	BRL
74-83-9	* Bromomethane	0.5	BRL
75-71-8	* Dichlorodifluoromethane	1	BRL
75-01-4	* Vinyl Chloride	0.5	BRL
75-00-3	* Chloroethane	0.5	BRL
75-09-2	* Methylene Chloride	0.5	BRL
79-69-4	* Trichlorofluoromethane	0.5	BRL
75-35-4	* 1,1-Dichloroethene	0.5	BRL
75-34-3	* 1,1-Dichloroethane	0.5	BRL
156-59-2	# Cis-1,2-Dichloroethene	0.5	BRL
156-60-5	* Trans-1,2-Dichloroethene	0.5	BRL
67-66-3	* Chloroform	0.5	BRL
76-13-1	# Trichlorotrifluoroethane	0.5	BRL
107-06-2	* 1,2-Dichloroethane	0.5	BRL
71-55-6	* 1,1,1-Trichloroethane	0.5	BRL
56-23-5	* Carbon Tetrachloride	0.5	BRL
75-27-4	* Bromodichloromethane	0.5	BRL
78-87-5	* 1,2-Dichloropropane	0.5	BRL
10061-02-6	* Trans-1,3-Dichloropropene	0.5	BRL
79-01-6	* Trichloroethene	0.5	BRL
124-48-1	* Dibromochloromethane	0.5	BRL
79-00-5	* 1,1,2-Trichloroethane	0.5	BRL
10061-01-5	* cis-1,3-Dichloropropene	0.5	BRL
110-75-8	* 2-Chloroethylvinylether	1	BRL
75-25-2	* Bromoform	0.5	BRL
127-18-4	* Tetrachloroethene	0.5	BRL
79-34-5	* 1,1,2,2-Tetrachloroethane	0.5	BRL
108-90-7	* Chlorobenzene	0.5	BRL
541-73-1	* 1,3-Dichlorobenzene	1	BRL
95-50-1	* 1,2-Dichlorobenzene	1	BRL
106-46-7	* 1,4-Dichlorobenzene	1	BRL
	% Surrogate Recovery		96

BRL : Below reporting limit.
* A 601/8010 approved compound (Federal Register, 10/26/84).
\# A compound added by Anametrix, Inc.

ORGANIC ANALYSIS DATA SHEET - EPA METHOD 602/8020
ANAMETRIX, INC. (408) 629-1132

Sample I.D. : JC0104H V-2
Matrix : WATER
Date sampled : 01-12-88
Date analyzed : 01-22-88
Dilution : 1:10

Anametrix I.D.: 8801069-01
Analyst : DF
Supervisor : [illegible]
Date released : 02-01-88
Instrument : HP6

CAS #	Compound Name	Reporting Limit (ug/l)	Amount Found (ug/l)
71-43-2	Benzene	5	BRL
108-88-3	Toluene	5	360
108-90-7	Chlorobenzene	5	BRL
100-41-4	Ethylbenzene	5	57
	Xylenes	10	38
95-50-1	1,2-Dichlorobenzene	10	BRL
541-73-1	1,3-Dichlorobenzene	10	BRL
106-46-7	1,4-Dichlorobenzene	10	BRL
78-93-3	2-Butanone	100	150
	% Surrogate Recovery		81

BRL : Below reporting limit.

ORGANIC ANALYSIS DATA SHEET - EPA METHOD 602/8020
ANAMETRIX, INC. (408) 629-1132

Sample I.D.	: JC0104H V-4	Anametrix I.D.	: 8801069-02
Matrix	: WATER	Analyst	: DF
Date sampled	: 01-12-88	Supervisor	: RS
Date analyzed	: 01-22-88	Date released	: 02-01-88
Dilution	: 1:50	Instrument	: HP6

CAS #	Compound Name	Reporting Limit (ug/l)	Amount Found (ug/l)
71-43-2	Benzene	25	BRL
108-88-3	Toluene	25	BRL
108-90-7	Chlorobenzene	25	BRL
100-41-4	Ethylbenzene	25	BRL
	Xylenes	50	BRL
95-50-1	1,2-Dichlorobenzene	50	BRL
541-73-1	1,3-Dichlorobenzene	50	BRL
106-46-7	1,4-Dichlorobenzene	50	BRL
78-93-3	2-Butanone	500	BRL
	% Surrogate Recovery		78

BRL : Below reporting limit.

ORGANIC ANALYSIS DATA SHEET - EPA METHOD 602/8020
ANAMETRIX, INC. (408) 629-1132

Sample I.D.	: JC0104H TRAVEL BLANK 1-8-88	Anametrix I.D.	: 8801069-03
Matrix	: WATER	Analyst	: JF
Date sampled	: 01-12-88	Supervisor	: [illegible]
Date analyzed	: 01-22-88	Date released	: 02-01-88
Dilution	: NONE	Instrument	: HP6

CAS #	Compound Name	Reporting Limit (ug/l)	Amount Found (ug/l)
71-43-2	Benzene	0.5	BRL
108-88-3	Toluene	0.5	BRL
108-90-7	Chlorobenzene	0.5	BRL
100-41-4	Ethylbenzene	0.5	BRL
	Xylenes	1	BRL
95-50-1	1,2-Dichlorobenzene	1	BRL
541-73-1	1,3-Dichlorobenzene	1	BRL
106-46-7	1,4-Dichlorobenzene	1	BRL
78-93-3	2-Butanone	10	BRL
	% Surrogate Recovery		78

BRL : Below reporting limit.

ORGANIC ANALYSIS DATA SHEET - EPA METHOD 602/8020
ANAMETRIX, INC. (408) 629-1132

Sample I.D.	: JD0104H METHOD BLANK 1-8-88	Anametrix I.D.	: 8801069-04
Matrix	: WATER	Analyst	: DF
Date sampled	: 01-12-88	Supervisor	: RJ
Date analyzed	: 01-22-88	Date released	: 02-01-88
Dilution	: NONE	Instrument	: HP6

CAS #	Compound Name	Reporting Limit (ug/l)	Amount Found (ug/l)
71-43-2	Benzene	0.5	BRL
108-88-3	Toluene	0.5	BRL
108-90-7	Chlorobenzene	0.5	BRL
100-41-4	Ethylbenzene	0.5	BRL
	Xylenes	1	BRL
95-50-1	1,2-Dichlorobenzene	1	BRL
541-73-1	1,3-Dichlorobenzene	1	BRL
106-46-7	1,4-Dichlorobenzene	1	BRL
78-93-3	2-Butanone	10	BRL
	% Surrogate Recovery		83

BRL : Below reporting limit.

ORGANIC ANALYSIS DATA SHEET - EPA METHOD 602/8020
ANAMETRIX, INC. (408) 629-1132

Sample I.D.	: JC0104H TRAVEL BLANK 1-11-88	Anametrix I.D.	: 8801069-05
Matrix	: WATER	Analyst	: BF
Date sampled	: 01-12-88	Supervisor	: DS
Date analyzed	: 01-22-88	Date released	: 02-01-88
Dilution	: NONE	Instrument	: HP6

CAS #	Compound Name	Reporting Limit (ug/l)	Amount Found (ug/l)
71-43-2	Benzene	0.5	BRL
108-88-3	Toluene	0.5	BRL
108-90-7	Chlorobenzene	0.5	BRL
100-41-4	Ethylbenzene	0.5	BRL
	Xylenes	1	BRL
95-50-1	1,2-Dichlorobenzene	1	BRL
541-73-1	1,3-Dichlorobenzene	1	BRL
106-46-7	1,4-Dichlorobenzene	1	BRL
78-93-3	2-Butanone	10	BRL
	% Surrogate Recovery		82

BRL : Below reporting limit.

ORGANIC ANALYSIS DATA SHEET - EPA METHOD 602/8020
ANAMETRIX, INC. (408) 629-1132

Sample I.D.	: JC0104H METHOD BLANK 1-11-88	Anametrix I.D.	: 8801069-06
Matrix	: WATER	Analyst	: JF
Date sampled	: 01-12-88	Supervisor	: RJS
Date analyzed	: 01-22-88	Date released	: 02-01-88
Dilution	: NONE	Instrument	: HP6

CAS #	Compound Name	Reporting Limit (ug/l)	Amount Found (ug/l)
71-43-2	Benzene	0.5	BRL
108-88-3	Toluene	0.5	BRL
108-90-7	Chlorobenzene	0.5	BRL
100-41-4	Ethylbenzene	0.5	BRL
	Xylenes	1	BRL
95-50-1	1,2-Dichlorobenzene	1	BRL
541-73-1	1,3-Dichlorobenzene	1	BRL
106-46-7	1,4-Dichlorobenzene	1	BRL
78-93-3	2-Butanone	10	BRL
	% Surrogate Recovery		79

BRL : Below reporting limit.

ORGANIC ANALYSIS DATA SHEET - EPA METHOD 602/8020
ANAMETRIX, INC. (408) 629-1132

Sample I.D.	: NONE	Anametrix I.D.	: METHOD BLK
Matrix	: WATER	Analyst	: JF
Date sampled	: 01-12-88	Supervisor	: SJS
Date analyzed	: 01-22-88	Date released	: 02-01-88
Dilution	: NONE	Instrument	: HP6

CAS #	Compound Name	Reporting Limit (ug/l)	Amount Found (ug/l)
71-43-2	Benzene	0.5	BRL
108-88-3	Toluene	0.5	BRL
108-90-7	Chlorobenzene	0.5	BRL
100-41-4	Ethylbenzene	0.5	BRL
	Xylenes	1	BRL
95-50-1	1,2-Dichlorobenzene	1	BRL
541-73-1	1,3-Dichlorobenzene	1	BRL
106-46-7	1,4-Dichlorobenzene	1	BRL
78-93-3	2-Butanone	10	BRL
	% Surrogate Recovery		88

BRL : Below reporting limit.

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/09/88
Date Received: 03/09/88
Date Analyzed: 03/10/88
Date Reported: 03/14/88
Project: #JCO-104H

Sample Number	Sample Description
8030635	Water, V-3

PRIORITY POLLUTANTS

PURGEABLES BY GC/MS
results in ppb

Benzene	< 2	1,2-Dichloropropane	< 2
Bromomethane	< 2	1,3-Dichloropropane	< 2
Bromodichloromethane	< 2	Ethylbenzene	< 2
Bromoform	< 2	Methylene chloride	<10
Carbon tetrachloride	< 2	1,1,2,2-Tetrachloroethane	< 2
Chlorobenzene	< 2	Tetrachloroethene	< 2
Chloroethane	< 2	1,1,1-Trichloroethane	< 2
2-Chloroethylvinyl ether	<10	1,1,2-Trichloroethane	< 2
Chloroform	<10	Trichloroethene	< 2
Chloromethane	< 2	Toluene	< 2
Dibromochloromethane	< 2	Vinyl chloride	< 2
1,1-Dichloroethane	6.2		
1,2-Dichloroethane	< 2		
1,1-Dichloroethene	< 2		
trans-1,2-Dichloroethene	4.8		

Method of Analysis: EPA 624

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

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Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/09/88
Date Received: 03/09/88
Date Analyzed: 03/10/88
Date Reported: 03/14/88

Project: #JCO-104H

Sample Number	Sample Description
8030635	Water, V-3

- Open Scan -
NON-PRIORITY POLLUTANTS
PURGEABLES BY GC/MS
results in ppb

No additional peaks > 10 ppb were detected for identification by NBS spectral library.

SEQUOIA ANALYTICAL LABORATORY

Scott Cocanour

Arthur G. Burton
Laboratory Director

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Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/09/88
Date Received: 03/09/88
Date Reported: 03/14/88
Project: #JCO-104H

Sample Number	Sample Description
8030635	Water, V-3

ANALYSIS

Turbidity, NTU	33

SEQUOIA ANALYTICAL LABORATORY

Scott Cocanour

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Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/09/88
Date Received: 03/09/88
Date Reported: 03/14/88

Project: #JCO-104H

TOTAL PETROLEUM HYDROCARBONS

Sample Number	Sample Description	Detection Limit ppb	(Paint Thinner) High Boiling Point Hydrocarbons ppb
	Water,		
8030635	V-3	50	< 50

Method of Analysis: EPA 3510/8015

SEQUOIA ANALYTICAL LABORATORY

Scot Cocanour

Arthur G. Burton
Laboratory Director

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Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/09/88
Date Received: 03/09/88
Date Reported: 03/14/88

Project: #JCO-104H

TOTAL PETROLEUM HYDROCARBONS

Sample Number	Sample Description	Detection Limit ppb	(Lacquer Thinner) High Boiling Point Hydrocarbons ppb
	Water,		
8030635	V-3	50	< 50

Method of Analysis: EPA 3510/8015

SEQUOIA ANALYTICAL LABORATORY

Scott Cocanour

Arthur G. Burton
Laboratory Director

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Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/09/88
Date Received: 03/09/88
Date Reported: 03/14/88

Project: #JCO-104H

TOTAL PETROLEUM HYDROCARBONS

Sample Number	Sample Description	Detection Limit ppb	(Kerosene) High Boiling Point Hydrocarbons ppb
	Water,		
8030635	V-3	50	1,000

Method of Analysis: EPA 3510/8015

SEQUOIA ANALYTICAL LABORATORY

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Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/09/88
Date Received: 03/09/88
Date Reported: 03/14/88

Project: #JCO-104H

TOTAL PETROLEUM HYDROCARBONS

Sample Number	Sample Description	Detection Limit ppb	(Diesel) High Boiling Point Hydrocarbons ppb
	Water,		
8030635	V-3	50	480

Method of Analysis: EPA 3510/8015

SEQUOIA ANALYTICAL LABORATORY

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Laboratory Director

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Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/09/88
Date Received: 03/09/88
Date Reported: 03/14/88
Project: #JCO-104H

Q.C. DATA REPORT

Analyst: Janet Schwarz
Date of Analysis: 3/10/88
Method of Analysis: EPA 624
Detection Limit: 2.0
Units: ppb

Sample Number	Analyte	Original Result	Duplicate Result	% Deviation
8030515	1,1-DCA	3.6	3.4	2.9

Sample Number	Analyte	Sample Contribution	Spike Added	Spike Result	% Recovery
8030635	2-Bromo-1-Chloropropanone	< 2	50	45	90

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
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Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/09/88
Date Received: 03/09/88
Date Reported: 03/14/88
Project: #JCO-104H

Q.C. DATA REPORT

Analyst: E.Esilew
Date of Analysis: 3/10/88
Method of Analysis: EPA 3510/2015
Detection Limit: 50
Units: ppb

Sample Number	Analyte	Original Result	Duplicate Result	% Deviation
8030514	TPH	< 50	< 50	0.0

Sample Number	Analyte	Sample Contribution	Spike Added	Spike Result	% Recovery
8030514	TPH	< 50	84	111	130

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/09/88
Date Received: 03/09/88
Date Reported: 03/14/88
Project: #JCO-104H

Q.C. DATA REPORT

Analyst: E. Hackl
Date of Analysis: 3/10/88
Method of Analysis: Turbidity
Detection Limit: N/A
Units: NTU

Sample Number	Analyte	Original Result	Duplicate Result	% Deviation
8030634	Turbidity	470	470	2.1

Sample Number	Analyte	Sample Contribution	Spike Added	Spike Result	% Recovery
8030634	Turbidity	95	95	200	110

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

RECEIVED
MAR 7 - 1988
WAHLER & ASSOC.

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/03/88
Date Received: 03/03/88
Date Analyzed: 03/03/88
Date Reported: 03/04/88

Project: #JCO-104H

Sample Number	Sample Description
8030225	Water Composite, T-1, T-2

PRIORITY POLLUTANTS

PURGEABLE HALOCARBONS
results in ppb

Bromomethane	< 10	1,2-Dichloropropane	< 10
Bromodichloromethane	< 10	1,3-Dichloropropene	< 10
Bromoform	< 10	Methylene chloride	110
Carbon Tetrachloride	< 10	1,1,2,2-Tetrachloroethane	< 10
Chloroethane	< 10	Tetrachloroethene	< 10
2-Chloroethylvinyl ether	< 10	1,1,1-Trichloroethane	230
Chloroform	< 10	1,1,2-Trichloroethane	< 10
Chloromethane	< 10	Trichloroethene	< 10
Dibromochloromethane	< 10	Vinyl chloride	< 10
1,1-Dichloroethane	10	1,2-Dichlorobenzene	< 10
1,2-Dichloroethane	< 10	1,3-Dichlorobenzene	< 10
1,1-Dichloroethene	< 10	1,4-Dichlorobenzene	< 10
trans-1,2-Dichloroethene	< 10		

Method of Analysis: EPA 601

SEQUOIA ANALYTICAL LABORATORY

Scot Cocanour

Arthur G. Burton
Laboratory Director

ORGANICS ANALYSIS DATA SHEET - EPA METHOD 624/8240
ANAMETRIX, INC. (408) 629-1132

Sample I.D. : JCO-104H V-3
Matrix : WATER
Date sampled : 03-09-88
Date analyzed: 03-10-88
Dilution : NONE

Anametrix I.D. : 8803053-01
Analyst : ARL
Supervisor : BWS
Date released : 03-11-88
Instrument : F1

CAS #	Compound Name	Reporting Limit (ug/l)	Amount Found (ug/l)
74-87-3	* Chloromethane	10	BRL
75-01-4	* Vinyl Chloride	10	BRL
74-83-9	* Bromomethane	10	BRL
75-00-3	* Chloroethane	10	BRL
75-69-4	* Trichlorofluoromethane	5	BRL
75-35-4	* 1,1-Dichloroethene	5	BRL
76-13-1	# Trichlorotrifluoroethane	5	BRL
67-64-1	**Acetone	20	BRL
75-15-0	**Carbondisulfide	5	BRL
75-09-2	* Methylene Chloride	5	BRL
156-60-5	* Trans-1,2-Dichloroethene	5	BRL
75-34-3	* 1,1-Dichloroethane	5	7
78-93-3	**2-Butanone	20	BRL
156-59-2	* Cis-1,2-Dichloroethene	5	BRL
67-66-3	* Chloroform	5	BRL
71-55-6	* 1,1,1-Trichloroethane	5	BRL
56-23-5	* Carbon Tetrachloride	5	BRL
71-43-2	* Benzene	5	BRL
107-06-2	* 1,2-Dichloroethane	5	BRL
79-01-6	* Trichloroethene	5	BRL
78-87-5	* 1,2-Dichloropropane	5	BRL
75-27-4	* Bromodichloromethane	5	BRL
110-75-8	* 2-Chloroethylvinylether	5	BRL
108-05-4	**Vinyl Acetate	10	BRL
10061-02-6	* Trans-1,3-Dichloropropene	5	BRL
108-10-1	**4-Methyl-2-Pentanone	10	BRL
108-88-3	* Toluene	5	BRL
10061-01-5	* cis-1,3-Dichloropropene	5	BRL
79-00-5	* 1,1,2-Trichloroethane	5	BRL
127-18-4	* Tetrachloroethene	5	BRL
591-78-6	**2-Hexanone	10	BRL
124-48-1	* Dibromochloromethane	5	BRL
108-90-7	* Chlorobenzene	5	BRL
100-41-4	* Ethylbenzene	5	BRL
1330-20-7	**Total Xylenes	5	BRL
100-42-5	**Styrene	5	BRL
75-25-2	* Bromoform	5	BRL
79-34-5	* 1,1,2,2-Tetrachloroethane	5	BRL
541-73-1	* 1,3-Dichlorobenzene	5	BRL
106-46-7	* 1,4-Dichlorobenzene	5	BRL
95-50-1	* 1,2-Dichlorobenzene	5	BRL

CAS #	Surrogate Compounds	Limits	%Recovery
17060-07-0	1,2-Dichloroethane-d4	84-132%	110%
2037-26-5	Toluene-d8	85-124%	109%
460-00-4	p-Bromofluorobenzene	74-116%	93%

* A Method 624 priority pollutant compound (Federal Register, 10/26/84)
** A compound on the U.S. EPA CLP Hazardous Substance List (HSL)
\# A compound added by Anametrix, Inc. BRL : Below reporting limit.

ORGANICS ANALYSIS DATA SHEET - TENTATIVELY IDENTIFIED COMPOUNDS
ANAMETRIX, INC. (408) 629-1132

Sample I.D.	: JCO-104H V-3	Anametrix I.D.	: 8803053-01
Matrix	: WATER	Analyst	: ARL
Date Sampled	: 03-09-88	Supervisor	: BJCS
Analyzed VOA	: 03-10-88	Date Released	: 03-11-88
Dilution VOA	: NONE		
Analyzed SV	: NA		
Dilution SV	: NA		

	CAS #	Scan#	Volatile Fraction Compound Name	Det. Limit ppb	Amt. Found ppb
1	592-84-7	506	formicacid, butylester	5	<5
2				5	
3				5	
4				5	
5				5	
6				5	
7				5	
8				5	
9				5	
10				5	

	CAS #	Scan#	Semivolatile Fraction Compound Name	Det. Limit ppb	Amt. Found ppb
1				10	
2				10	
3				10	
4				10	
5				10	
6				10	
7				10	
8				10	
9				10	
10				10	
11				10	
12				10	
13				10	
14				10	
15				10	
16				10	
17				10	
18				10	
19				10	
20				10	

Tentatively identified compounds are significant chromatographic peaks (TICs) other than priority pollutants. TIC spectra are compared with entries in the National Bureau of Standards mass spectral library. Identification is made by following US EPA guidelines and acceptance criteria. TICs are quantitated by using the area of the nearest internal standard and assuming a response factor of one (1). Values calculated are ESTIMATES ONLY.

CLP VOLATILE MATRIX SPIKE REPORT -- EPA METHOD 624
ANAMETRIX, INC. (408) 629-1132

Sample I.D. : JCO-104H V-3
Matrix : WATER
Date sampled : 03-09-88
Date analyzed : 03-10-88

Anametrix I.D. : 8803053-01
Analyst : LH
Supervisor : BLOS
Date released : 03-11-88

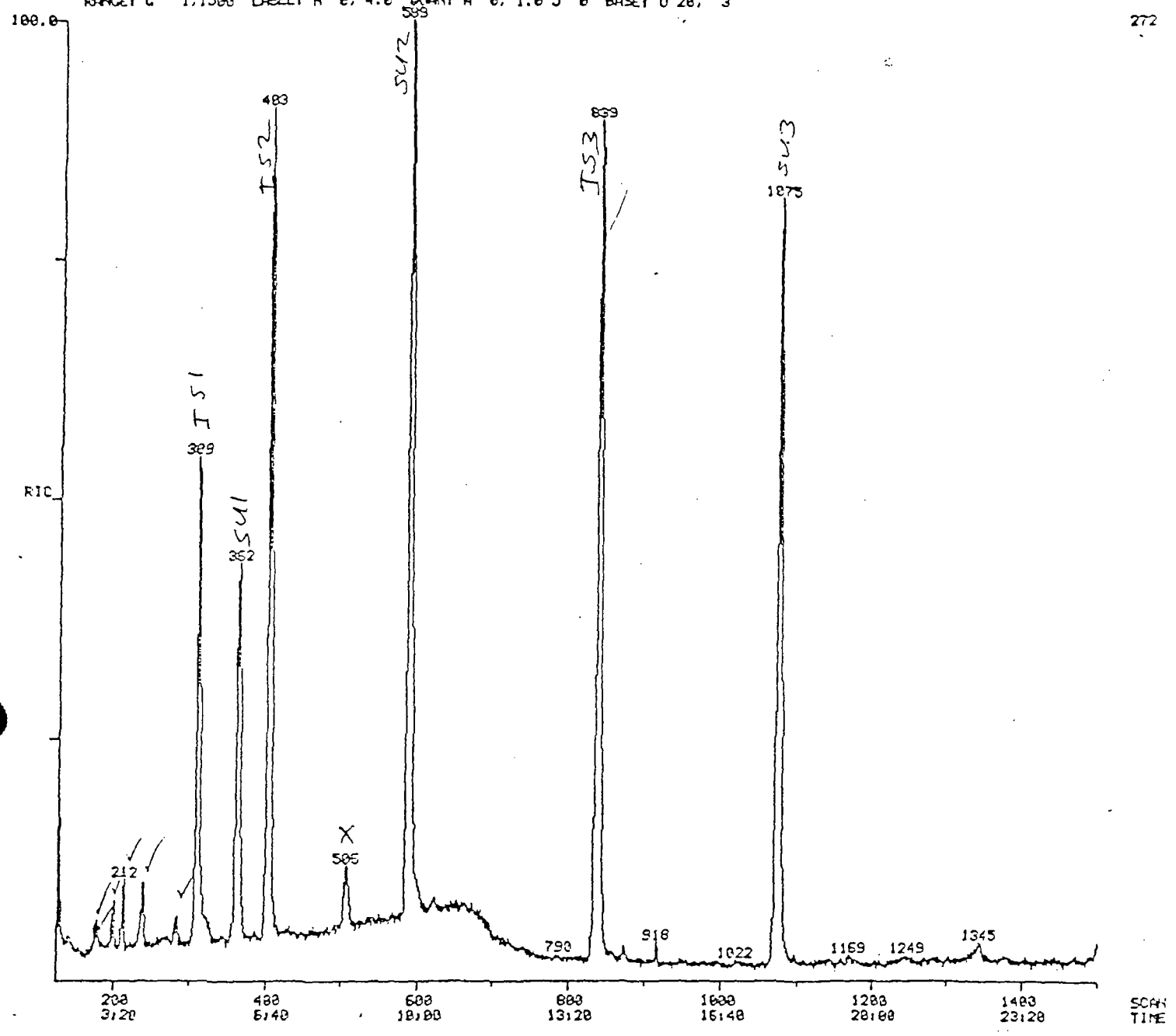
COMPOUND	SPIKE AMT. (UG/L)	8803053 MS (UG/L)	%REC MS	8803053 MSD (UG/L)	%REC MSD	RPD	%REC LIMITS*
1,1-DICHLOROETHENE	50	42	84%	41	82%	-2%	61-131%
FREON 113	50	59	118%	57	114%	-3%	52-150%
METHYLENE CHLORIDE	50	45	90%	43	86%	-5%	55-130%
CHLOROFORM	50	49	98%	47	94%	-4%	70-124%
1,1,1-TRICHLOROETHANE	50	48	96%	46	92%	-4%	69-130%
BENZENE	50	49	98%	45	90%	-9%	69-124%
1,2-DICHLOROETHANE	50	48	96%	44	88%	-9%	65-119%
TRICHLOROETHENE	50	43	86%	38	76%	-12%	61-106%
4-METHYL-2-PENTANONE	50	61	122%	53	106%	-14%	42-147%
TOLUENE	50	51	102%	49	98%	-4%	70-128%
CHLOROBENZENE	50	48	96%	45	90%	-6%	73-123%
1,2-DICHLOROBENZENE	50	46	92%	44	88%	-4%	50-110%

* Limits established by Anametrix, Inc.

RIC
03/10/88 17:54:00
SAMPLE: JCO-104 H ~~V3~~ V-3
CONDS.: M524/8240,35-120@4'/MIN.,VOCOL
RANGE: G 1,1500 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 1CU03053V01 #1
CALI: CALTAB #2

SCANS 125 TO 1500



APPENDIX B

O.K. Amy Chau, 1/12/8.

ok RGB 1-12-88

Wahler Associates

W.A. PROJECT NO: JCO 104H

Geotechnical and Water Resources Engineering

ANALYSIS REQUEST FORM

Page 1 of 2

Sequoia Date Sample Shipped 1-12-88

Wahler Associates will indicate a contact person and phone number which the Lab staff can use to obtain or verify the appropriate analytical requirements.

Your Sample I.D.	Matrix	Container	Analysis Requested
V-1			
V-2			(1) EPA 601/602 plus MEK + xylene
V-3			
V-4		(6) VOAs	(2) Total Hydrocarbons as Paint thinner
V-5	H_2O	ea.	
V-6		(2) Ambers	(3) Alcohols / Acetone
V-7		il ea.	
I-1			(4) EPA-604 - phenols
I-2			
I-3			

	Relinquished by	Date	Time	Received by (3)	Date	Time
1.	[signature]	1/12/88	535pm	[signature]	1/12/88	535pm
		/ /			/ /	
2.		/ /			/ /	
		/ /			/ /	
3.		/ /			/ /	
		/ /			/ /	

Comments Please include all QA/QC data as performed previously. We Need ALL Results in Written Form plus QA/QC documentation. By tues. Feb. 2 1988 At the latest.

Contact Person Bob Breynaert (415) 968-6250
Name Telephone

Lab Project Manager (if known) Scott Cocanour

1023 Corporation Way, P.O. Box 10023, Palo Alto, California 94303 • Telephone Number (415) 968-6250
Telex Number 4998623

Wahler Associates

W.A. PROJECT NO. JCO-1014

Geotechnical and Water Resources Engineering

ANALYSIS REQUEST FORM

SEQUOIA Date Sample Shipped 1-12-88

Wahler Associates will indicate a contact person and phone number which the Lab staff can use to obtain or verify the appropriate analytical requirements.

Your Sample I.D.	Matrix	Container	Analysis Requested
V-4	H_2O	2 VOA	EPA 601/602 + MEK AND Xylenes *
V-2	H_2O	2 VOA	EPA 601/602 Plus MEK and Xylenes *
			* Perform duplicate analyses on both wells

	Relinquished by	Date	Time	Received by (3)	Date	Time
1.		__/__/__			__/__/__	
		__/__/__			__/__/__	
2.		__/__/__			__/__/__	
		__/__/__			__/__/__	
3.		__/__/__			__/__/__	
		__/__/__			__/__/__	

Comments

Contact Person Bob Breynaert (415) 968-6250
Name Telephone

Lab Project Manager (if known) SCOTT Cocanour

1023 Corporation Way, P.O. Box 10023, Palo Alto, California 94303 • Telephone Number (415) 968-6250
Telex Number 4998623

Wahler Associates

Geotechnical and Water Resources Engineering

OK RGB 1-12-88

W.A. PROJECT NO. JCO 104H

ANALYSIS REQUEST FORM

Page 1 of 1

ANA METRIX Date Sample Shipped 1-12-88

Wahler Associates will indicate a contact person and phone number which the Lab staff can use to obtain or verify the appropriate analytical requirements.

Your Sample I.D.	Matrix	Container	Analysis Requested
V-2	H_2O	(2) VOA	EPA 601/602 plus MEK, xylenes
V-4	H_2O	(2) VOA	EPA 601/602 plus MEK, xylene
travel Field Blank 1-8-88	H_2O	(1) VOA	EPA 601/602 plus MEK, xylenes
Method Blank 1-8-88	H_2O	(1) VOA	EPA 601/602 plus MEK, xylenes
travel Blank 1-11-88	H_2O	(1) VOA	EPA 601/602 plus MEK, xylenes
Method Blank 1-11-88	H_2O	(1) VOA	EPA 601/602 plus MEK, xylenes

	Relinquished by	Date	Time	Received by (3)	Date	Time
1.	Greg Smart	1/12/88	4:41 p	Paul Gowan	1/12/88	4:40 p.m.
		/ /			/ /	
2.		/ /			/ /	
		/ /			/ /	
3.		/ /			/ /	
		/ /			/ /	

Comments Results due by tues. February 2, 1988 please submit: dilution factors detection limits based on limits of quantification; calculated recoveries of internal standards and/or surrogates. Also state if H_2O samples were filtered before or during analysis. Submit concentrations of blanks analyzed before + during sample analysis. please call if any questions regarding

Contact Person Bob Breynaert (415) 968-6250
Name Telephone

Lab Project Manager (if known)

1023 Corporation Way, P.O. Box 10023, Palo Alto, California 94303 • Telephone Number (415) 968-6250
Telex Number 4998623

O.K. Amy Chau

Serial Number 018
WA Project Number JCO-1041F
Page 1 of 1

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Date Sample Shipped 3/3/88

Name of Laboratory Sequoia Laboratories

Lab Project Manager Robert Breynaert

Turnaround Time 24 Hours

Report to Robert Breynaert

Collector Robert Breynaert

Affiliation Wahler Assoc.

Address

Phone ( )

Sample Information

Your Sample I.D.	Date Collected	Matrix	Container	Analysis Requested
T-1	3-3-88	Drill Mud	1 VOA	EPA-601 * } COMPOSITE SAMPLE
T-2	3-3-88	Drill mud	1 VOA	EPA-601 * } COMPOSITE SAMPLE

Comments T-1 at southend of Tank } COMPOSITE INTO ONE SAMPLE
T-2 at Northend of Tank } AND ANALYZE USING 601 OR 8010

* analyze by 8010 if appropriate rather than 601

Wahler Contact Person Robert Breynaert

Phone (415) 988-6250

Chain of Possession

	Relinquished by (Sign. & affiliation)	Date	Time	Received by (Sign. & affiliation)	Date	Time
1.	[signature]	3/3/87	4:19PM	[signature]	3/3/88	4:10PM
		/ /			/ /	
2.		/ /			/ /	
		/ /			/ /	
3.		/ /			/ /	
		/ /			/ /	

Wahler Associates

Serial Number 023
WA Project Number JCO-104H
Page 1 of 1

O.K. Amy Chau

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Date Sample Shipped 3-9-88
Name of Laboratory Anametrix
Lab Project Manager Sarah Schoen
Turnaround Time 48 Hours
Report to Robert Breynaert

Collector Greg Smart / Greg Jones
Affiliation Wahler Assoc
Address 1023 Corporation Way PA
Phone (415) 968-6250

Sample Information

Your Sample I.D.	Date Collected	Matrix	Container	Analysis Requested	
V-3	3-9-88	H_2O	(2) VOA	EPA-624 *	ok
Travel Blank	3-8-88	H_2O	1 (2) VOA	EPA-624 *	1x40ml
Method Blank	3-8-88	H_2O	1 (2) VOA	EPA-624 *	1x40ml
V-10	3-9-88	H_2O	(2) VOA	EPA-624 *	ok
Travel Blank	3-9-88	H_2O	1 (2) VOA	EPA-624 *	1x40ml
Method Blank	3-9-88	H_2O	1 (2) VOA	EPA-624 *	1x40ml
V-8 method Boiler	3-8-88	H_2O	1 VOA	EPA 624	1x40ml
T.B.	3-8-88	H_2O	1 VOA	EPA 624	1x40ml

Comments * quantify any and all non-priority peaks, please include sample and internal QC chromatograms (ie system blanks etc) Call if you have questions. Written results by Early Friday: afternoon 3-10-88 Also, make sure MEK and Xylenes are reported on analysis sheets!

Wahler Contact Person Bob Breynaert Phone (415) 968-6250

Chain of Possession

	Relinquished by (Sign. & affiliation)	Date	Time	Received by (Sign. & affiliation)	Date	Time
1.	Greg Jones	3/9/88	240	Marine Sylv	3/9/88	1400
		/ /			/ /	
2.		/ /			/ /	
		/ /			/ /	
3.		/ /			/ /	
		/ /			/ /	

Wahler Associates

Serial Number 026
WA Project Number JCO-1041
Page 1 of 2

O.K. Amy Chau

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Date Sample Shipped 3-9-88
Name of Laboratory Sequoia Labs
Lab Project Manager Scott Cocanour
Turnaround Time 48 Hours
Report to Robert Breynaert

Collector Greg Smart / Greg Jones
Affiliation Wahler Assoc
Address 1023 Corporation Way PA.
Phone (415) 968-6250

Sample Information

Your Sample I.D.	Date Collected	Matrix	Container	Analysis Requested
U-10	3-9-88	H_2O	(2) VOA	EPA 624 open Scan
U-10	"	"	(2) VOA	Alcohols / Acetone
U-10	"	"	(2) Ambers	EPA 604, Turbidity
U-10	"	"	(2) ambers	TPH as Paint Thinner
U-10	"	"	(2) ambers	TPH as Diesel
U-3	"	"	(2) VOA	EPA 624 open scan
U-3	"	"	(2) ambers	TPH as Paint Thinner
U-3	"	"	(2) ambers	TPH as Lacquer Thinner

Comments Quantify TPH Scans using Solvent samples delivered to Sequoia on 3-8-88. Report MEK and xylenes results on report forms for all wells. Written results by Friday 3-11-88

Wahler Contact Person Bob Breynaert Phone (415) 968-6250

Chain of Possession

	Relinquished by (Sign. & affiliation)	Date	Time	Received by (Sign. & affiliation)	Date	Time
1.	Greg Jones	3/9/88	1:40	Pat Bunske Sequoia Lab	3/9/88	1:40
		/ /			/ /	
2.		/ /			/ /	
		/ /			/ /	
3.		/ /			/ /	
		/ /			/ /	

Wahler Associates

Serial Number 026
WA Project Number JCO-1041A
Page 2 of 2

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM (Cont'd)

Sample Information

Your Sample I.D.	Date Collected	Matrix	Container	Analysis Requested
V-3	3-9-98	H_2O	(2) ambers	TPH as Kerosene
V-3	"	H_2O	(2) ambers	TPH as Diesel
V-3	"	H_2O	—	Turbidity

Comments

Wahler Contact Person Bob Breynaert Phone (415) 668-6250

Wahler Associates

APPENDIX C

WATER SAMPLING PARAMETERS

DATE: 1-11-88 ~~12-12-88~~

PROJECT NO.: JCO 104H

LOCATION: JASCO

SAMPLERS:

SAMPLE ID: V-1

3BY: 12 gal.

WATER LEVEL	GALLONS REMOVED	TIME	TEMP. C°	pH	Eh (mV)	COND. (micromhos)	DO mg/l	Q GPM	BOH
24.15	~~0~~	11:30A							
	~~0~~	11:40A	16.7	6.54		1992	OAGO	Meter	
	~~0~~	"	16.5	7.04		875	YSI	"	
	3	11:52	17.0	6.43		1821			
	[illegible]	"	16.0	6.94		1500			
	6 [illegible]	12:00	16.6	6.37		1961			
	[illegible]		15.8	6.81		1490			
	9	12:10	16.9	6.42		1892			
			16.7	6.81		1475			
	12	12:20	17.1	6.50		1726			
24.24		12:27	16.9	6.83		1490			

TIME SAMPLED:

COMMENTS:

SAMPLES TAKEN	
	EPA 624
	EPA 625
	EPA 608
	METALS
	CYANIDE
	CHLOR., SULF., etc.
	ASBESTOS
	EPA 601
	EPA 602

Wahler Associates

WATER SAMPLING PARAMETERS

DATE: 1-11-88

PROJECT NO.: JCO 104H JCO

LOCATION: JASCO

SAMPLERS:

SAMPLE ID: V-2

3BV: 6 gal

WATER LEVEL	GALLONS REMOVED	TIME	TEMP. C°	pH	Eh (mV)	COND. (micromhos)	DO mg/l	Q GPM	BOH
	~~0~~	3:33p	16.4	6.00		1699			
	2	3:41	16.6	6.17		1558			
	4	3:48	16.0	6.20		1668			
	6	3:53	16.1	6.35		1730			

TIME SAMPLED:

COMMENTS:

SAMPLES TAKEN	
	EPA 624
	EPA 625
	EPA 608
	METALS
	CYANIDE
	CHLOR., SULF., etc.
	ASBESTOS
	EPA 601
	EPA 602

Wahler Associates

WATER SAMPLING PARAMETERS

DATE: 1-8-88

PROJECT NO.: JCO 1041

LOCATION: JASCO

SAMPLERS:

SAMPLE ID: V-3

3BV: 38 gals.

WATER LEVEL	GALLONS REMOVED	TIME	TEMP. C°	pH	Eh (mV)	COND. (~~microohos~~ mS)	DO mg/l	Q GPM	BOH
23.51	~~0~~	11:10	~~18.6~~	~~6.50~~					
	2	1135	18.6	6.5		3.85			
	5	11:50	18.6	6.50		3.90			
	7	12:06	18.6	6.61		3.87			
	10	12:15	18.1	6.56		3.88			
	13	12:23	18.3	6.64		3.80			
	15	12:28	18.0	6.64		3.77			
	18	12:34	18.3	6.67		3.75			
	20	12:40	17.9	6.70		3.75			
	25	12:51	18.0	6.70		3.81			
	30	1:01	17.7	6.71		3.63			
	35	1:13	17.9	6.59		3.63			
	40	1:25	17.9	6.59		3.46			
23.61		2:01							

TIME SAMPLED:

COMMENTS:

SAMPLES TAKEN	
	EPA 624
	EPA 625
	EPA 608
	METALS
	CYANIDE
	CHLOR., SULF., etc.
	ASBESTOS
	EPA 601
	EPA 602

Wahler Associates

WATER SAMPLING PARAMETERS

DATE: 1-11-88

PROJECT NO.: JCO 1044

LOCATION: JASCO

SAMPLERS:

SAMPLE ID: V-5

3BV: 5.5 gal

WATER LEVEL	GALLONS REMOVED	TIME	TEMP. C°	pH	Eh (mV)	COND. (micromhos)	DO mg/l	Q GPM	BOH
	~~0~~	2:28p	16.5	7.00		1398			
	2	2:33	16.4	7.00		1339			
	4	2:40	16.1	6.81		1406			
	6	2:47	16.6	6.69		1378			

TIME SAMPLED:

COMMENTS:

SAMPLES TAKEN	
	EPA 624
	EPA 625
	EPA 608
	METALS
	CYANIDE
	CHLOR., SULF., etc.
	ASBESTOS
	EPA 601
	EPA 602

Wahler Associates

WATER SAMPLING PARAMETERS

DATE: 1-11-88

PROJECT NO.: JC0104H

LOCATION: JASCO

SAMPLERS:

SAMPLE ID: V-6

3BV: 14.6 gal

WATER LEVEL	GALLONS REMOVED	TIME	TEMP. C°	pH	Eh (mV)	COND. (micromhos)	DO mg/l	Q GPM	BOH
	~~0~~	12:55	18.0	6.96		1347			
	3	1:01	17.7	6.98		1265			
	6	1:15	17.7	6.95		1309			
	9	1:25	17.5	6.94		1320			
	12	1:32	17.4	6.99		1297			
	15	1:42	17.7	7.00		1281			

TIME SAMPLED:

COMMENTS:

SAMPLES TAKEN	
	EPA 624
	EPA 625
	EPA 608
	METALS
	CYANIDE
	CHLOR., SULF., etc.
	ASBESTOS
	EPA 601
	EPA 602

Wahler Associates

WATER SAMPLING PARAMETERS

DATE: 1-18-88

PROJECT NO.: JCO 1044

LOCATION: JASCO

SAMPLERS:

SAMPLE ID: V-7

3BV: 6.5 gal

WATER LEVEL	GALLONS REMOVED	TIME	TEMP. C°	pH	Eh (mV)	COND. (micromhos)	DO mg/l	Q GPM	BOH
	~~0~~	9:39	16.9	6.80		1956			
	2	9:42	16.8	6.65		1788		?	?
	4	9:51	15.8	6.76		1788	?	cond-	
	6	10:00	17.7	6.76		1886		meter	?
	8	10:05	17.5	6.68		1822	1822	?	

TIME SAMPLED:

COMMENTS:

SAMPLES TAKEN	
	EPA 624
	EPA 625
	EPA 608
	METALS
	CYANIDE
	CHLOR., SULF., etc.
	ASBESTOS
	EPA 601
	EPA 602

Wahler Associates

WATER SAMPLING PARAMETERS

DATE: 1-12-88 ~~10-11-88~~

PROJECT NO.: JCO 104H

LOCATION: JASCO

SAMPLERS:

SAMPLE ID: I-1

3BV: 15.5 gal

WATER LEVEL	GALLONS REMOVED	TIME	TEMP. C°	pH	Eh (mV)	COND. (micromhos)	DO mg/l	Q GPM	BOH
25.63	~~0~~	9:51A	15.6	7.37		1220	DA	Jo Meter	
			14.7	7.23		950	YS	i "	
	3	10:12	15.5	7.08		1189			
			14.6	7.21		925			
	6	10:20	16.2	6.70		1178			
			15.2	7.23		975			
	9	10:30	16.4	6.67		1244			
			16.1	7.20		950			
	12	10:40	16.1	6.71		1219			
			16.1	7.19		925			
	15	10:50	16.3	6.83		1220			
25.63			15.3	7.20		900			

TIME SAMPLED:

COMMENTS:

SAMPLES TAKEN	
	EPA 624
	EPA 625
	EPA 608
	METALS
	CYANIDE
	CHLOR., SULF., etc.
	ASBESTOS
	EPA 601
	EPA 602

Wahler Associates

WATER SAMPLING PARAMETERS

DATE: 1-11-88

PROJECT NO.: JCO 1041H

LOCATION: JASCO

SAMPLERS:

SAMPLE ID: I-2

3BV: 15.5 gal

WATER LEVEL	GALLONS REMOVED	TIME	TEMP. C°	pH	Eh (mV)	COND. (micromhos)	DO mg/l	Q GPM	BOH
	~~0~~	10:35a	16.7	6.86		1230			
	3	10:45	17.1	6.86		1230			
	6	10:53	17.4	6.91		1248			
	9	11:00	17.1	6.85		1260			
	12	11:05	17.2	6.79		1247			
	15	11:12	17.2	6.81		1253			

TIME SAMPLED:

COMMENTS:

SAMPLES TAKEN	
	EPA 624
	EPA 625
	EPA 608
	METALS
	CYANIDE
	CHLOR., SULF., etc.
	ASBESTOS
	EPA 601
	EPA 602

Wahler Associates

WATER SAMPLING PARAMETERS

DATE: 1-8-88

PROJECT NO.: JSC 104H

LOCATION: I-3 Jasco

SAMPLERS:

SAMPLE ID:

3BV: 15.5

WATER LEVEL	GALLONS REMOVED	TIME	TEMP. C°	pH	Eh (mV)	COND. (micromhos)	DO mg/l	Q GPM	BOH
24.10	~~0~~	3:12p							
	~~0~~	3:21p	17.8	7.07	1.09	1090			
	2	3:30	17.7	7.08		1115			
	5	3:37	17.5	7.06		1117			
	8	3:45	17.1	6.98		1102			
	10	3.50	17.2	6.96		1058			
	13	4:00	17.1	6.84		1011			
	16	4:05	17.1	6.79		985			

TIME SAMPLED:

COMMENTS:

SAMPLES TAKEN	
	EPA 624
	EPA 625
	EPA 608
	METALS
	CYANIDE
	CHLOR., SULF., etc.
	ASBESTOS
	EPA 601
	EPA 602

Wahler Associates

WATER SAMPLING PARAMETERS

DATE: 3-9-88

PROJECT NO.: JCO-104H

LOCATION: JASCO

SAMPLERS: GPS + G.J.

SAMPLE ID: V-3

GBV: 5 Gal = 58 gal.

WATER LEVEL	GALLONS REMOVED	TIME	TEMP. C°	pH	Eh (mV)	COND. (micromhos)	DO mg/l	Q GPM	BOH
23.70	~~0~~	9:40				ms			
	0	9:51	17.6	7.61	-040	3.74	- cond	meter?	
	10	10:01	17.9	7.24	-020	3.53 ms			
	20	10:05	18.4	6.78	+009	2.87			
	30	10:38	18.8	7.14	-014	2.48 ms			
	40	10:54	18.1	7.24	-018	2.35 ms			
	50	11:18	18.2	6.86	003	2.22 ms			
	60	11:53	19.5	7.78	-050	2.27			

TIME SAMPLED: 12:00

COMMENTS: 9:46 start pumping

SAMPLES TAKEN	
4	EPA 624 VOAs
	EPA 625
	EPA 608
	METALS
	CYANIDE
2	Amber TPH as P.T.
2	Amber TPH " C.T.
2	" TPH " Kerr
2	" TPH " Diesel
21	Travel VOA
21	Method "

Wahler Associates

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/08/88
Date Received: 03/08/88
Date Analyzed: 03/10/88
Date Reported: 03/14/88
Project: #JCO-104H

Sample Number	Sample Description
8030514	Water, V-8

PRIORITY POLLUTANTS

PURGEABLES BY GC/MS
results in ppb

Benzene	< 2	1,2-Dichloropropane	< 2
Bromomethane	< 2	1,3-Dichloropropane	< 2
Bromodichloromethane	< 2	Ethylbenzene	< 2
Bromoform	< 2	Methylene chloride	<10
Carbon tetrachloride	< 2	1,1,2,2-Tetrachloroethane	< 2
Chlorobenzene	< 2	Tetrachloroethene	< 2
Chloroethane	< 2	1,1,1-Trichloroethane	3.5
2-Chloroethylvinyl ether	<10	1,1,2-Trichloroethane	< 2
Chloroform	<10	Trichloroethene	< 2
Chloromethane	< 2	Toluene	< 2
Dibromochloromethane	< 2	Vinyl chloride	< 2
1,1-Dichloroethane	< 2		
1,2-Dichloroethane	< 2		
1,1-Dichloroethene	< 2		
trans-1,2-Dichloroethene	< 2		

Method of Analysis: EPA 624

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Attn: Bob Breynaert

Date Sampled: 03/08/88
Date Received: 03/08/88
Date Analyzed: 03/10/88
Date Reported: 03/14/88

Project: #JCO-104H

Sample Number	Sample Description
8030514	Water, V-8

- Open Scan -
NON-PRIORITY POLLUTANTS
PURGEABLES BY GC/MS
results in ppb

2-Propanone	3.0

SEQUOIA ANALYTICAL LABORATORY

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Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/08/88
Date Received: 03/08/88
Date Reported: 03/14/88

Project: #JCO-104H

Sample Number	Sample Description
8030514	Water, V-8

ANALYSIS
results in ppb

Methanol	< 10
Ethanol	< 10
Acetone	< 10
Isopropanol	< 10

SEQUOIA ANALYTICAL LABORATORY

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Date Sampled: 03/08/88
Date Received: 03/08/88
Date Extracted: 03/10/88
Date Reported: 03/14/88

Project: #JCO-104H

Sample Number	Sample Description
8030514	Water, V-8

PRIORITY POLLUTANTS

PHENOLS
results in ppb

4-Chloro-3-methylphenol	< 10
2-Chlorophenol	< 10
2,4-Dichlorophenol	< 10
2,4-Dimethylphenol	< 10
2,4-Dinitrophenol	< 15
2-Methyl-4,6-dinitrophenol	< 15
2-Nitrophenol	< 10
4-Nitrophenol	< 15
Pentachlorophenol	< 10
Phenol	< 10
2,4,6-Trichlorophenol	< 10

Method of Analysis: EPA 604

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Attn: Bob Breynaert

Date Sampled: 03/08/88
Date Received: 03/08/88
Date Reported: 03/14/88

Project: #JCO-104H

TOTAL PETROLEUM HYDROCARBONS

Sample Number	Sample Description	Detection Limit ppb	(Paint Thinner) High Boiling Point Hydrocarbons ppb
	Water,		
8030514	V-8	50	< 50

Method of Analysis: EPA 3510/8015

SEQUOIA ANALYTICAL LABORATORY

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Date Sampled: 03/08/88
Date Received: 03/08/88
Date Reported: 03/14/88
Project: #JCO-104H

Sample Number	Sample Description
8030514	Water, V-8

ANALYSIS

Turbidity, NTU	47

SEQUOIA ANALYTICAL LABORATORY

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Attn: Bob Breynaert

Date Sampled: 03/08/88
Date Received: 03/08/88
Date Analyzed: 03/10/88
Date Reported: 03/14/88
Project: #JCO-104H

Sample Number	Sample Description
8030515	Water, V-9

PRIORITY POLLUTANTS

PURGEABLES BY GC/MS
results in ppb

Benzene	< 2	1,2-Dichloropropane	< 2
Bromomethane	< 2	1,3-Dichloropropane	< 2
Bromodichloromethane	< 2	Ethylbenzene	< 2
Bromoform	< 2	Methylene chloride	<10
Carbon tetrachloride	< 2	1,1,2,2-Tetrachloroethane	< 2
Chlorobenzene	< 2	Tetrachloroethene	< 2
Chloroethane	< 2	1,1,1-Trichloroethane	< 2
2-Chloroethylvinyl ether	<10	1,1,2-Trichloroethane	< 2
Chloroform	<10	Trichloroethene	< 2
Chloromethane	< 2	Toluene	< 2
Dibromochloromethane	< 2	Vinyl chloride	< 2
1,1-Dichloroethane	3.6		
1,2-Dichloroethane	< 2		
1,1-Dichloroethene	< 2		
trans-1,2-Dichloroethene	< 2		

Method of Analysis: EPA 624

SEQUOIA ANALYTICAL LABORATORY

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Date Sampled: 03/08/88
Date Received: 03/08/88
Date Analyzed: 03/10/88
Date Reported: 03/14/88

Project: #JCO-104H

Sample Number	Sample Description
8030515	Water, V-9

- Open Scan -
NON-PRIORITY POLLUTANTS
PURGEABLES BY GC/MS
results in ppb

2-Propanone	5.1

SEQUOIA ANALYTICAL LABORATORY

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Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/08/88
Date Received: 03/08/88
Date Reported: 03/14/88

Project: #JCO-104H

Sample Number	Sample Description
8030515	Water, V-9

ANALYSIS
results in ppb

Methanol	< 10
Ethanol	< 10
Acetone	< 10
Isopropanol	< 10

SEQUOIA ANALYTICAL LABORATORY

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Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/08/88
Date Received: 03/08/88
Date Extracted: 03/10/88
Date Reported: 03/14/88

Project: #JCO-104H

Sample Number	Sample Description
8030515	Water, V-9

PRIORITY POLLUTANTS

PHENOLS
results in ppb

4-Chloro-3-methylphenol	< 10
2-Chlorophenol	< 10
2,4-Dichlorophenol	< 10
2,4-Dimethylphenol	< 10
2,4-Dinitrophenol	< 15
2-Methyl-4,6-dinitrophenol	< 15
2-Nitrophenol	< 10
4-Nitrophenol	< 15
Pentachlorophenol	< 10
Phenol	< 10
2,4,6-Trichlorophenol	< 10

Method of Analysis: EPA 604

SEQUOIA ANALYTICAL LABORATORY

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Attn: Bob Breynaert

Date Sampled: 03/08/88
Date Received: 03/08/88
Date Reported: 03/14/88

Project: #JCO-104H

TOTAL PETROLEUM HYDROCARBONS

Sample Number	Sample Description	Detection Limit ppb	(Paint Thinner) High Boiling Point Hydrocarbons ppb
	Water,		
8030515	V-9	50	< 50

Method of Analysis: EPA 3510/8015

SEQUOIA ANALYTICAL LABORATORY

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Date Sampled: 03/08/88
Date Received: 03/08/88
Date Reported: 03/14/88
Project: #JCO-104H

Sample Number	Sample Description
8030515	Water, V-9

ANALYSIS

Turbidity, NTU	15

SEQUOIA ANALYTICAL LABORATORY

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Attn: Bob Breynaert

Date Sampled: 03/09/88
Date Received: 03/09/88
Date Analyzed: 03/10/88
Date Reported: 03/14/88
Project: #JCO-104H

Sample Number	Sample Description
8030634	Water, V-10

PRIORITY POLLUTANTS

PURGEABLES BY GC/MS
results in ppb

Benzene	< 2	1,2-Dichloropropane	< 2
Bromomethane	< 2	1,3-Dichloropropane	< 2
Bromodichloromethane	< 2	Ethylbenzene	< 2
Bromoform	< 2	Methylene chloride	<10
Carbon tetrachloride	< 2	1,1,2,2-Tetrachloroethane	< 2
Chlorobenzene	< 2	Tetrachloroethene	< 2
Chloroethane	< 2	1,1,1-Trichloroethane	< 2
2-Chloroethylvinyl ether	<10	1,1,2-Trichloroethane	< 2
Chloroform	<10	Trichloroethene	< 2
Chloromethane	< 2	Toluene	< 2
Dibromochloromethane	< 2	Vinyl chloride	< 2
1,1-Dichloroethane	< 2		
1,2-Dichloroethane	< 2		
1,1-Dichloroethene	< 2		
trans-1,2-Dichloroethene	< 2		

Method of Analysis: EPA 624

SEQUOIA ANALYTICAL LABORATORY

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Attn: Bob Breynaert

Date Sampled: 03/09/88
Date Received: 03/09/88
Date Analyzed: 03/10/88
Date Reported: 03/14/88

Project: #JCO-104H

Sample Number	Sample Description
8030634	Water, V-10

- Open Scan -
NON-PRIORITY POLLUTANTS
PURGEABLES BY GC/MS
results in ppb

No additional peaks > 10 ppb were detected for identification by NBS spectral library.

SEQUOIA ANALYTICAL LABORATORY

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Date Sampled: 03/09/88
Date Received: 03/09/88
Date Reported: 03/14/88

Project: #JCO-104H

Sample Number	Sample Description
8030634	Water, V-10

ANALYSIS
results in ppb

Methanol	< 10
Ethanol	< 10
Acetone	< 10
Isopropanol	< 10

SEQUOIA ANALYTICAL LABORATORY

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Attn: Bob Breynaert

Date Sampled: 03/09/88
Date Received: 03/09/88
Date Extracted: 03/10/88
Date Reported: 03/14/88

Project: #JCO-104H

Sample Number	Sample Description
8030634	Water, V-10

PRIORITY POLLUTANTS

PHENOLS
results in ppb

4-Chloro-3-methylphenol	< 10
2-Chlorophenol	< 10
2,4-Dichlorophenol	< 10
2,4-Dimethylphenol	< 10
2,4-Dinitrophenol	< 15
2-Methyl-4,6-dinitrophenol	< 15
2-Nitrophenol	< 10
4-Nitrophenol	< 15
Pentachlorophenol	< 10
Phenol	< 10
2,4,6-Trichlorophenol	< 10

Method of Analysis: EPA 604

SEQUOIA ANALYTICAL LABORATORY

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Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/09/88
Date Received: 03/09/88
Date Reported: 03/14/88

Project: #JCO-104H

TOTAL PETROLEUM HYDROCARBONS

Sample Number	Sample Description	Detection Limit ppb	(Paint Thinner) High Boiling Point Hydrocarbons ppb
	Water,		
8030634	V-10	50	< 50

Method of Analysis: EPA 3510/8015

SEQUOIA ANALYTICAL LABORATORY

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Date Sampled: 03/09/88
Date Received: 03/09/88
Date Reported: 03/14/88
Project: #JCO-104H

Sample Number	Sample Description
8030634	Water, V-10

ANALYSIS

Turbidity, NTU	470

SEQUOIA ANALYTICAL LABORATORY

Scot Cocanour

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1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/09/88
Date Received: 03/09/88
Date Reported: 03/14/88

Project: #JCO-104H

TOTAL PETROLEUM HYDROCARBONS

Sample Number	Sample Description	Detection Limit ppb	(Diesel) High Boiling Point Hydrocarbons ppb
	Water,		
8030634	V-10	50	< 50

Method of Analysis: EPA 3510/8015

SEQUOIA ANALYTICAL LABORATORY

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1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/09/88
Date Received: 03/09/88
Date Reported: 03/14/88
Project: #JCO-104H

Q.C. DATA REPORT

Analyst: Janet Schwarz
Date of Analysis: 3/10/88
Method of Analysis: EPA 624
Detection Limit: 2.0
Units: ppb

Sample Number	Analyte	Original Result	Duplicate Result	% Deviation
8030515	1,1-DCA	3.6	3.4	2.9

Sample Number	Analyte	Sample Contribution	Spike Added	Spike Result	% Recovery
8030635	2-Bromo-1-Chloropropanone	< 2	50	45	90

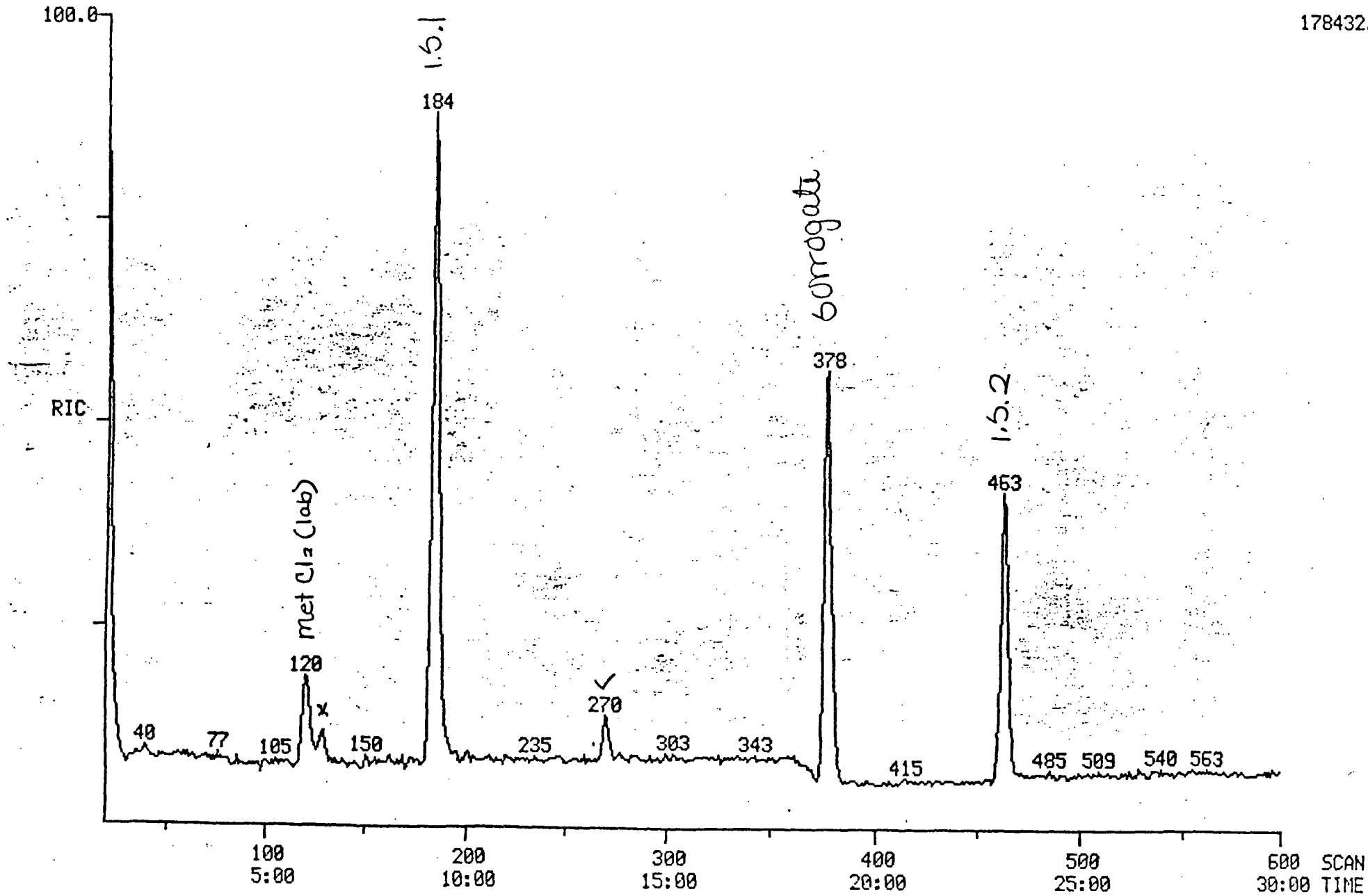
SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

RIC
03/10/88 14:55:00
SAMPLE: JCO V-8 (5ML)
CONDS.: VOA METHOD
RANGE: G 1, 600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

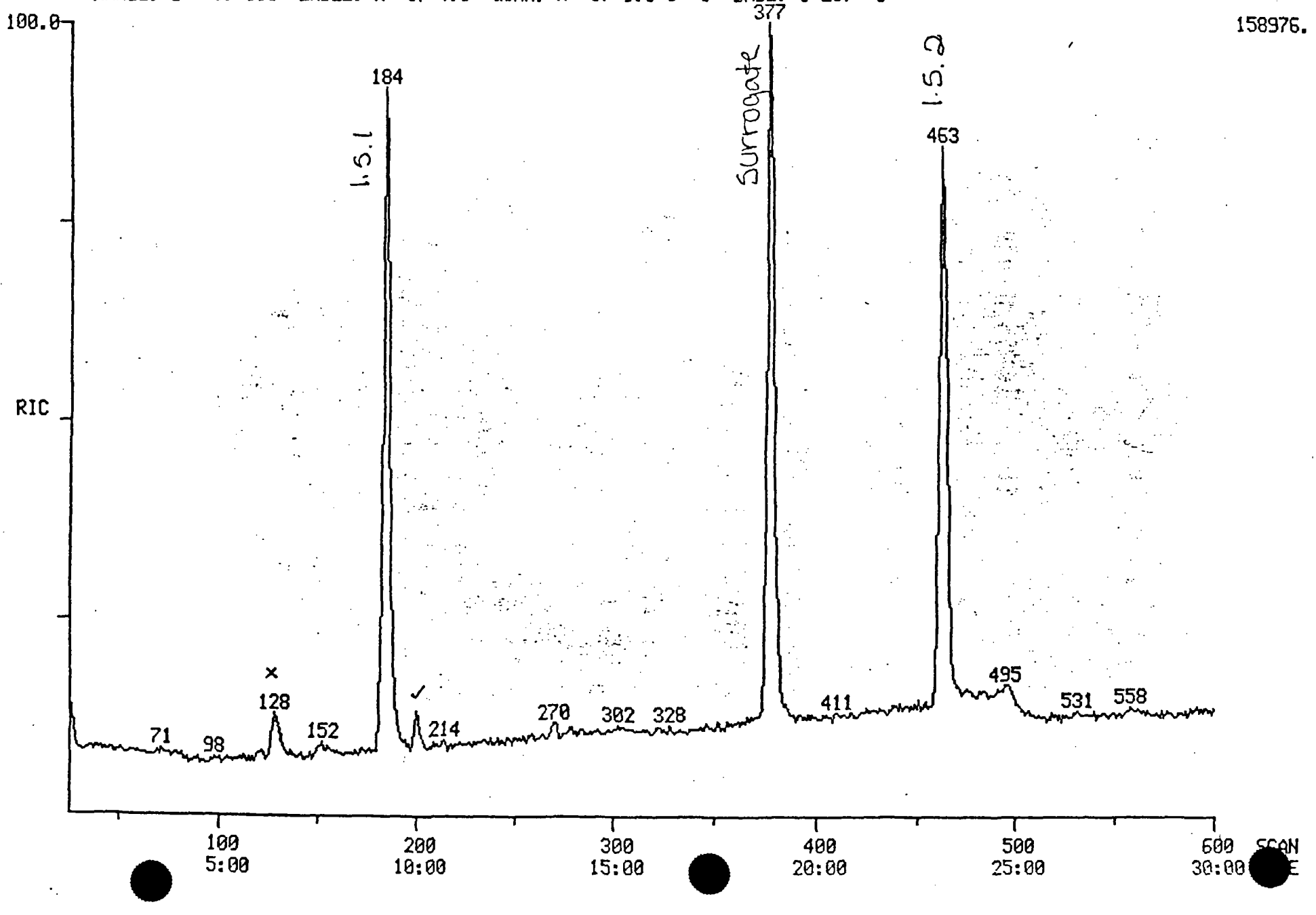
DATA: VOA8030514 #1
CALI: VOA8030514 #2

SCANS 20 TO 600



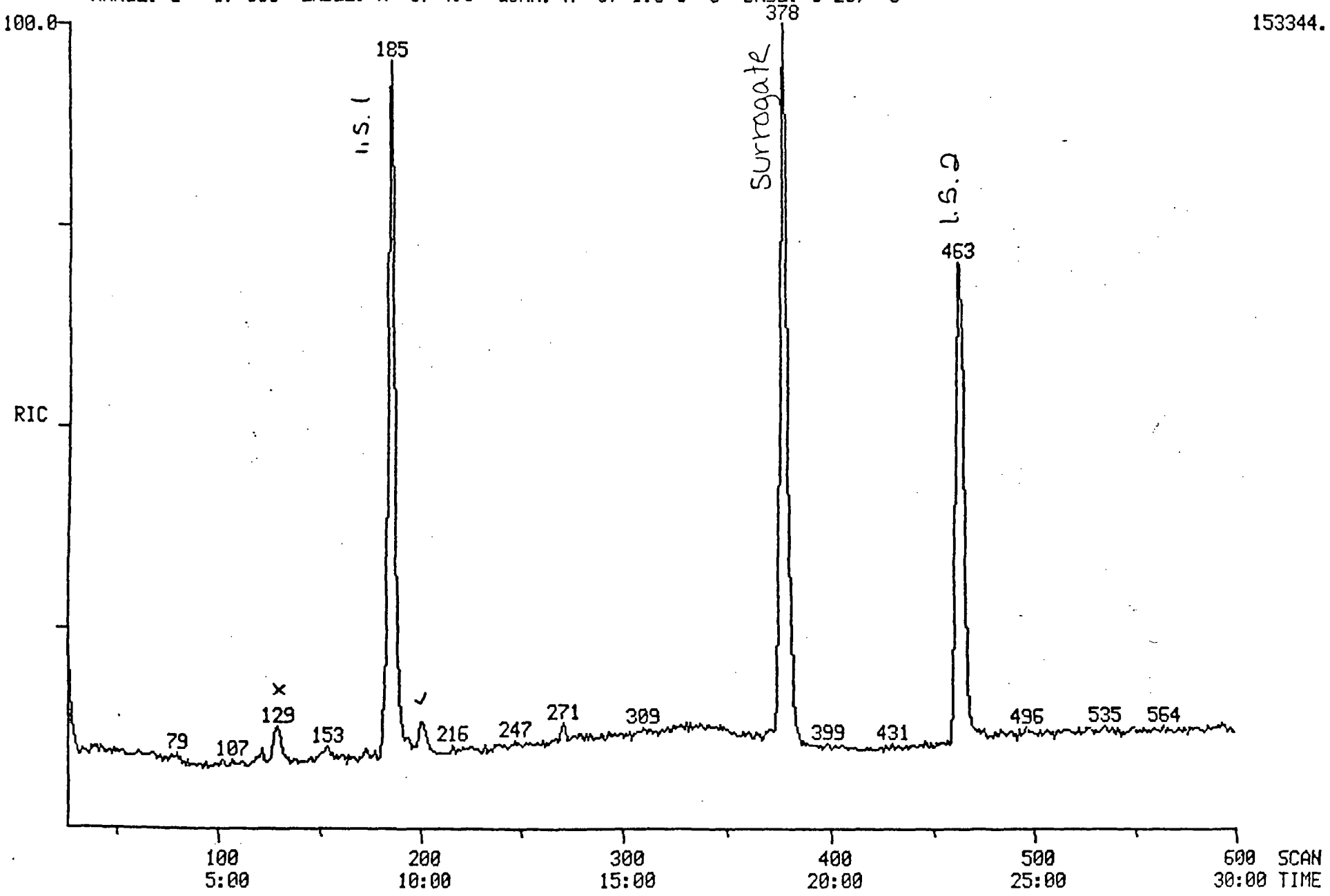
RIC
03/10/88 15:49:00
SAMPLE: JCO V-9 (5ML)
CONDS.: VOA METHOD
RANGE: G 1, 800 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: VOA8030515 #200 SCANS 25 TO 600
CALI: VOA8030515 #2



RIC
03/10/88 16:48:00
SAMPLE: JCO V-9 (5ML)
CONDS.: VOA METHOD
RANGE: G 1, 600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: VOA8030515A #201 SCANS 25 TO 600
CALI: VOA8030515A #2

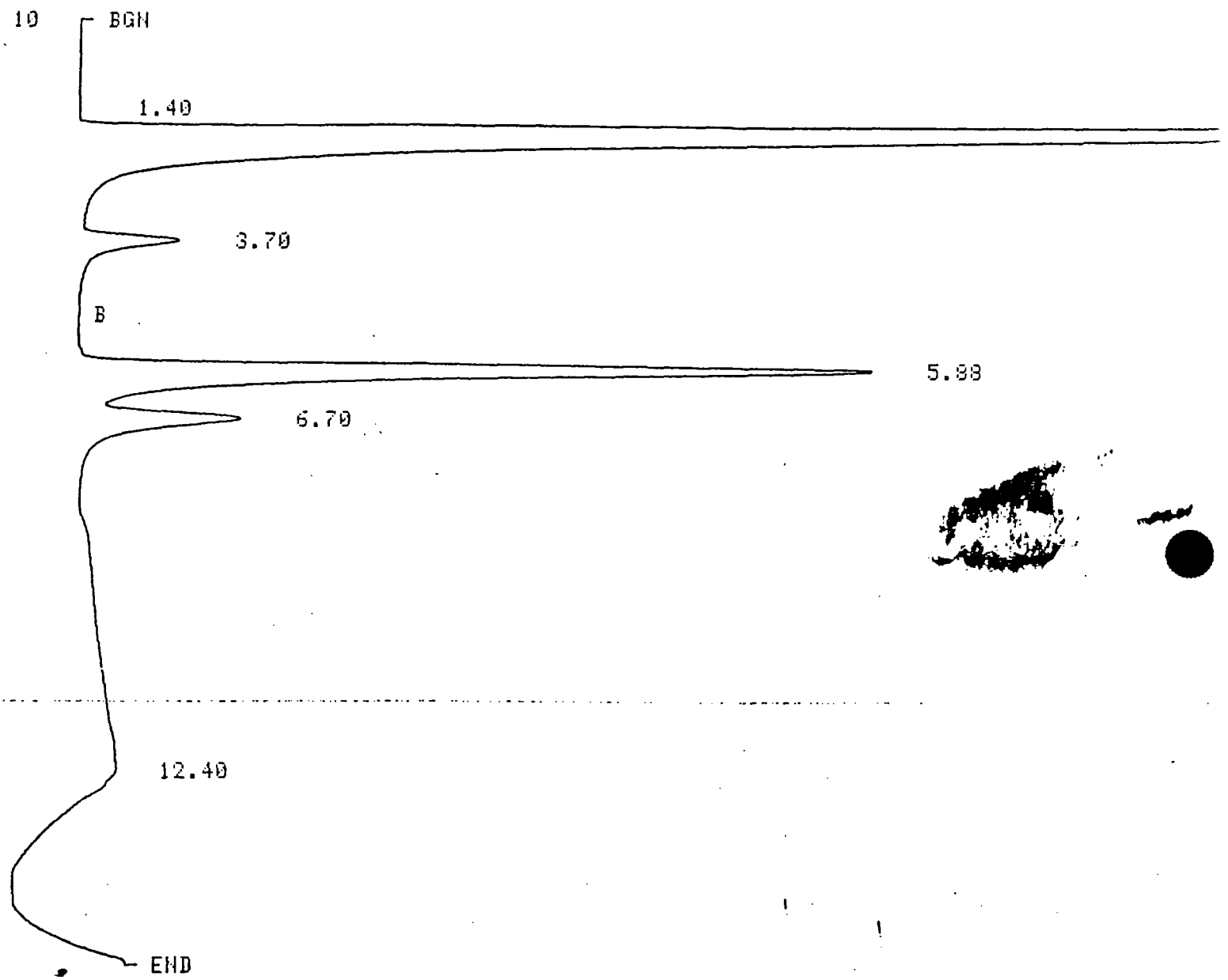


9 PEAKS > AREA/HT REJECT

1% + Common Soln.

2 15:07 88/02/13

1 ALCOHOLS



RUN 2 15:07 88/02/13

METHOD 1 ALCOHOLS CALCULATION: %

RT	AREA	BC	AREA %
1.40	0.0145	T	0.0044
1.90	188.6770	T	58.0732
3.70	8.5057		2.6179
5.88	65.8573	T	20.2703
6.70	17.4027	V	5.3564
12.40	44.4371	V	13.6774

AREA/HT REJECT

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/09/88
Date Received: 03/09/88
Date Reported: 03/14/88
Project: #JCO-104H

Q.C. DATA REPORT

Analyst: G. Brock
Date of Analysis: 3/11/88
Method of Analysis: Alcohols by GC
Detection Limit: 10
Units: ppb

Sample Number	Analyte	Original Result	Duplicate Result	% Deviation
8030634	Methanol	< 10	< 10	0.0

Sample Number	Analyte	Sample Contribution	Spike Added	Spike Result	% Recovery
8030634	Methanol	< 10	2.5	21	84

SEQUOIA ANALYTICAL LABORATORY

Scott Cocanour

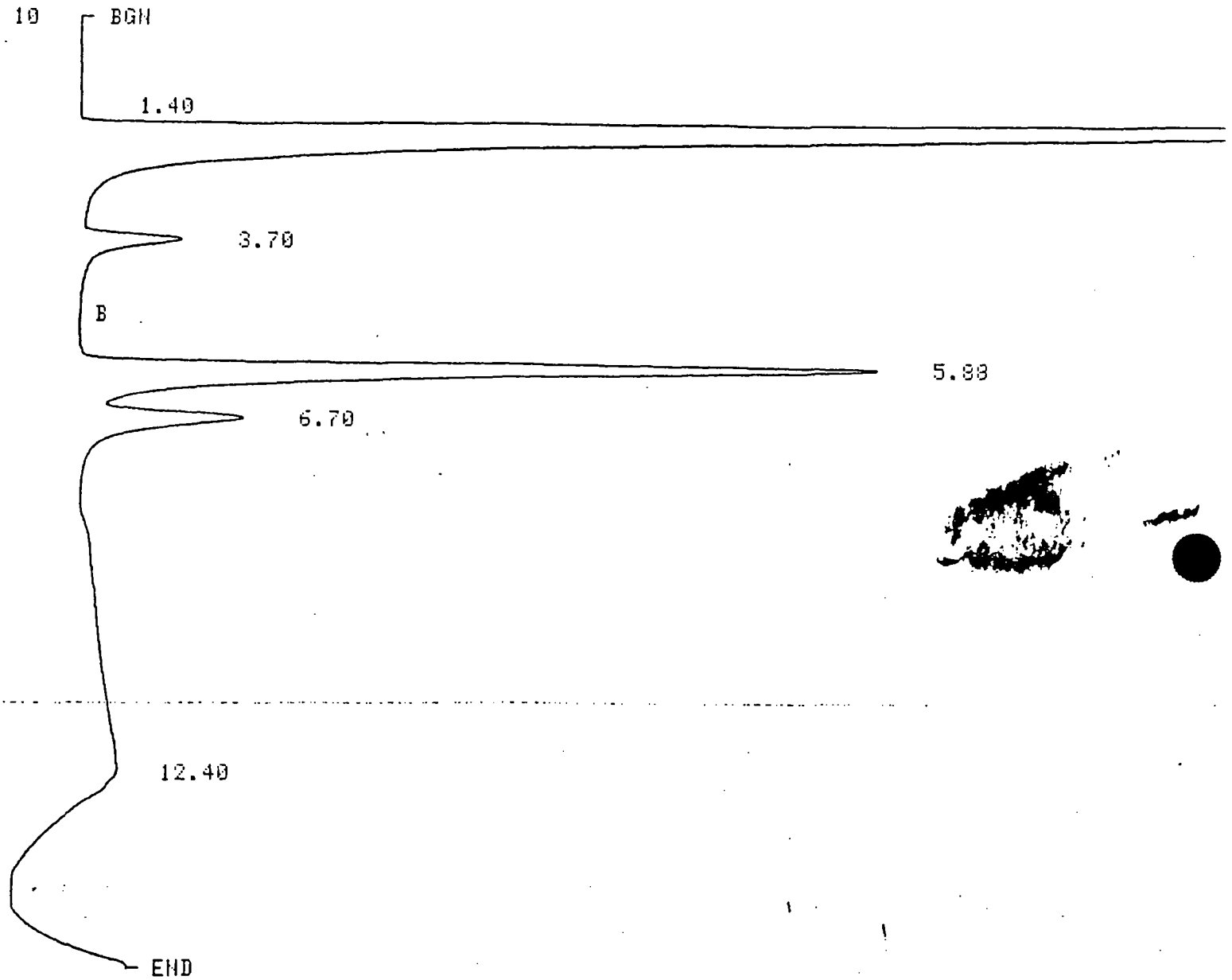
Arthur G. Burton
Laboratory Director

9 PEAKS > AREA/HT REJECT

1x + Common Soln.

2 15:07 88/02/13

1 ALCOHOLS



RUN 2 15:07 88/02/13

METHOD 1 ALCOHOLS CALCULATION: %

RT	AREA	BC	AREA %
1.40	0.0145	T	0.0044
1.90	188.6770	T	58.0732
3.70	8.5057		2.6179
5.88	65.8573	T	20.2703
6.70	17.4027	V	5.3564
12.40	44.4371	V	13.6774

AREA/HT REJECT

5mls # 8030514.

1 16:04 88/02/13

1 ALCOHOLS

10 BGN

0.60
0.80

1.91
2.51
2.99
3.73

B

5.61
5.97

B

8.39

9.62
10.36
10.94

2

11.83

15.14
END

RUN 1 16:04 88/02/13

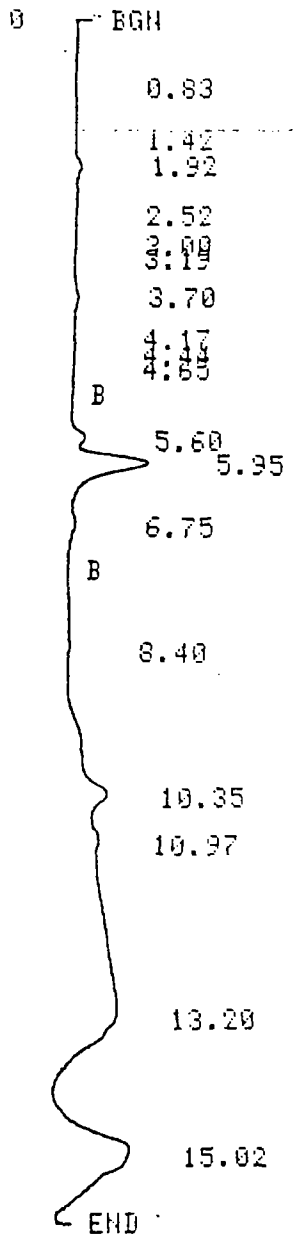
METHOD 1 ALCOHOLS CALCULATION: %

RT	AREA	BC	AREA %
0.60	0.0236	T	0.3987
0.80	0.0447	T	0.7547
1.91	0.6925	T	11.6748
2.51	0.0811	T	1.3682
2.99	0.1730	T	2.9172

16:47 88/02/13

5mls # 8030515

ALCOHOLS



RUN 2 16:47 88/02/13

METHOD 1 ALCOHOLS CALCULATION: %

RT	AREA	BC	AREA %
0.83	0.0563	V	0.1644
1.42	0.0763	T	0.2226
1.92	0.5499	T	1.6041
2.52	0.1017	T	0.2968
3.09	0.1030	T	0.3005
3.19	0.0229	V	0.0668
3.70	0.4311	T	1.2577
4.17	0.0988	T	0.2883
4.44	0.0345	T	0.1009
4.65	0.0610		0.1779
5.60	0.7181	T	2.0950
5.95	5.6568	T	16.5021
6.75	0.6082		1.7745
[illegible]	[illegible]	[illegible]	[illegible]

15.02 15.1374 V 44.1589

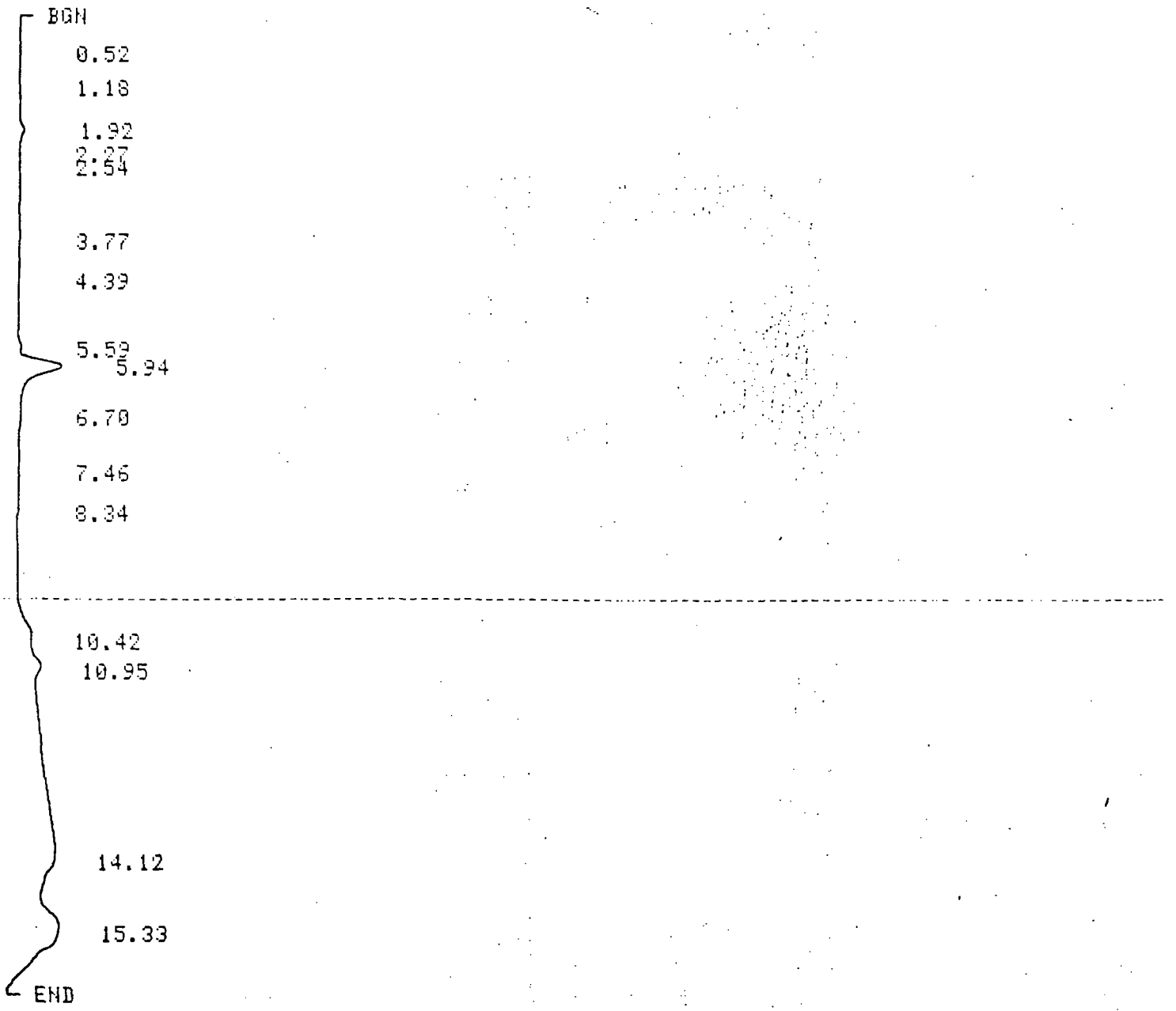
18 PEAKS > AREA/HT REJECT

Smb #8030634.

3 17:19 88/02/13

D 1 ALCOHOLS

C 10



RUN 3 17:19 88/02/13

METHOD 1 ALCOHOLS CALCULATION: %

T	AREA	BC	AREA %
0.52	0.0674	V	0.1006
1.18	0.0167	V	0.0249
1.92	0.2944	T	0.4390
2.27	0.0253	V	0.0377
2.54	0.0421	V	0.0628

Smls # 8030634

Dup.

1 11:09 88/02/15

1 ALCOHOLS

10 BGN

B 0.46

1.92

B

3.66

B

5.56
5.92

7.78
8.45

9.11

9.79

10.39
10.94

11.86

12.63
13.20

13.96
14.37

15.64

16.52

18.50

20.34

22.59

END

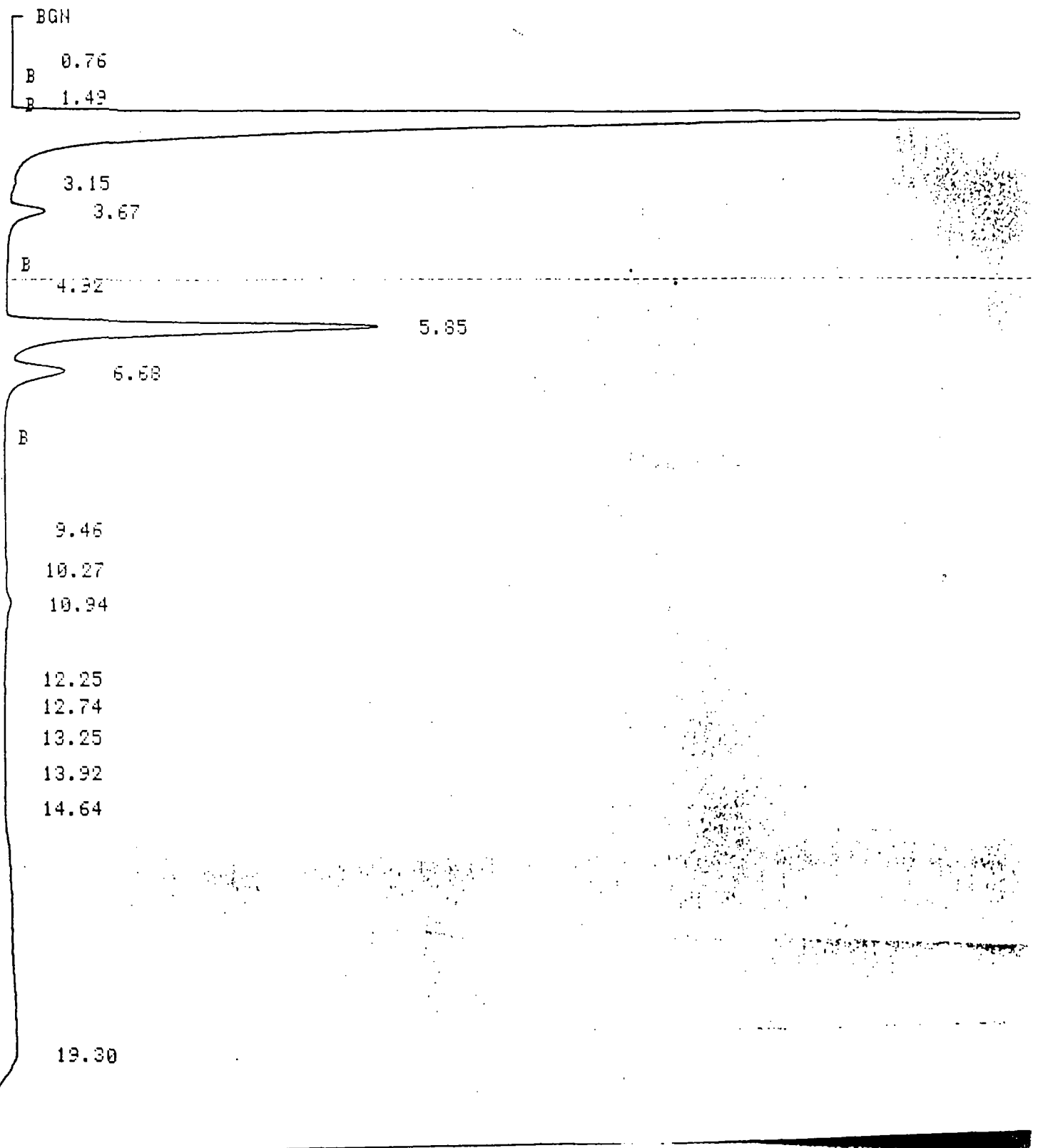
21 PEAKS > AREA/HT REJECT

5ml # 8030634 + SF

11:45 88/02/15

ID 1 ALCOHOLS

C 10



RUN 2 11:45 88/02/15

METHOD 1 ALCOHOLS CALCULATION: %

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/09/88
Date Received: 03/09/88
Date Reported: 03/25/88

Q.C. DATA REPORT

Analyst: G. Brock
Date of Analysis: 3/11/88
Method of Analysis: EPA 604
Detection Limit: 10
Units: ppb

Sample Number	Analyte	Original Result	Duplicate Result	% Deviation
8030634	4-Nitrophenol	< 10	< 10	0.0

Sample Number	Analyte	Sample Contribution	Spike Added	Spike Result	% Recovery
8030635	4-Nitrophenol	< 10	20	21	105

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

100 TIME 2 26.0 10 0.0 MIN KB

1 9:06 88/03/

3 PHENOLS 8040

METHYLENE CHLORIDE BLANK.

10 BGH
0.33

5.78
6.12
6.44
6.87

7.65

.03

12.66

14.00

14.91

16.45

18.38

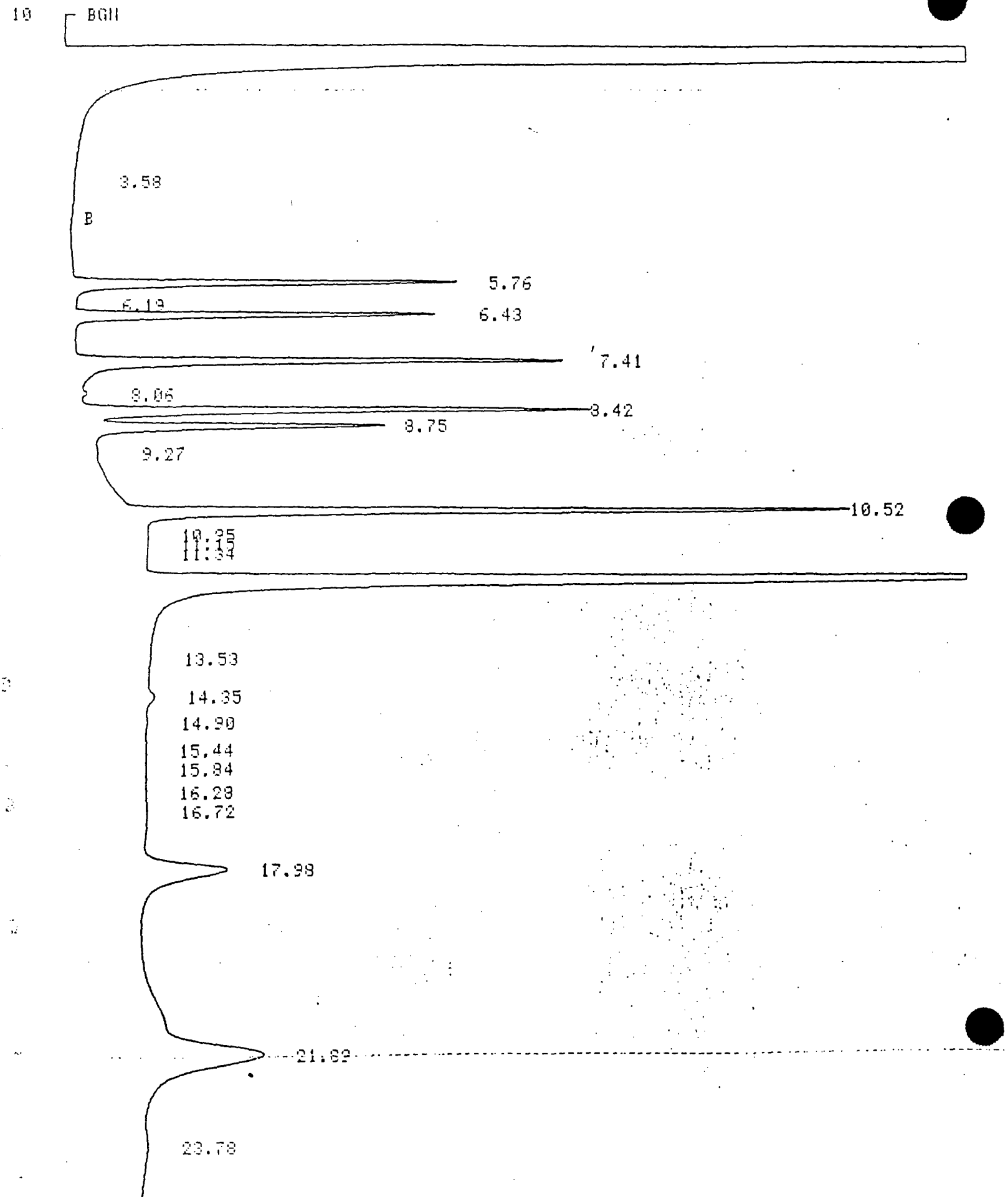
B
20.37

22.02

Wλ To ''' Mix.

3 8:27 88/03

3' PHENOLS 8040



5λ #803C

RUN DEVIATIONS

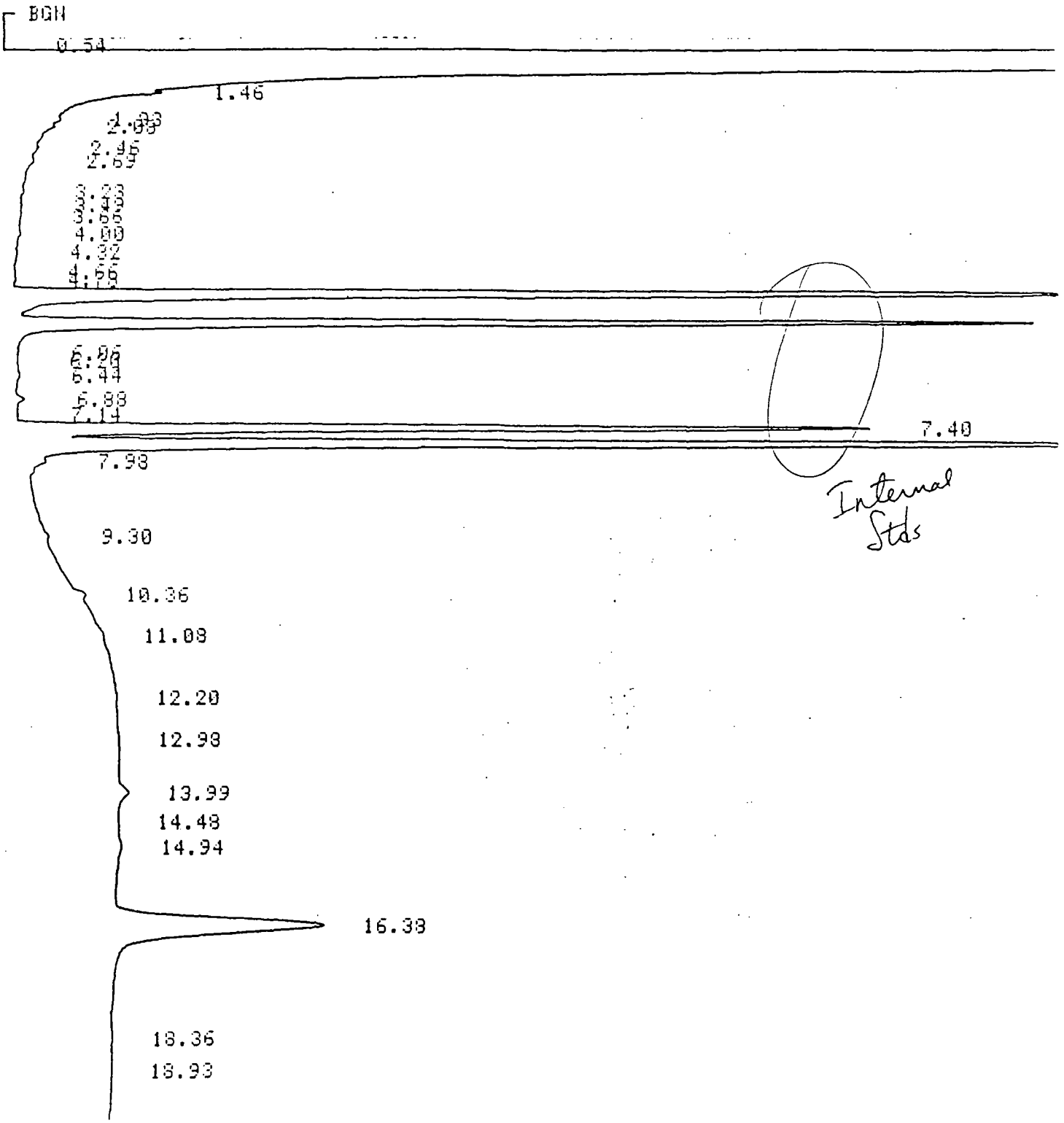
TIME	ZONE	CHANGE	TYPE
18.55	ISO TIME 2	26.0 TO 0.0 MIN	KB

5λ # 8030514

1 18:18 88/03

3 PHENOLS 8040

10 BGN

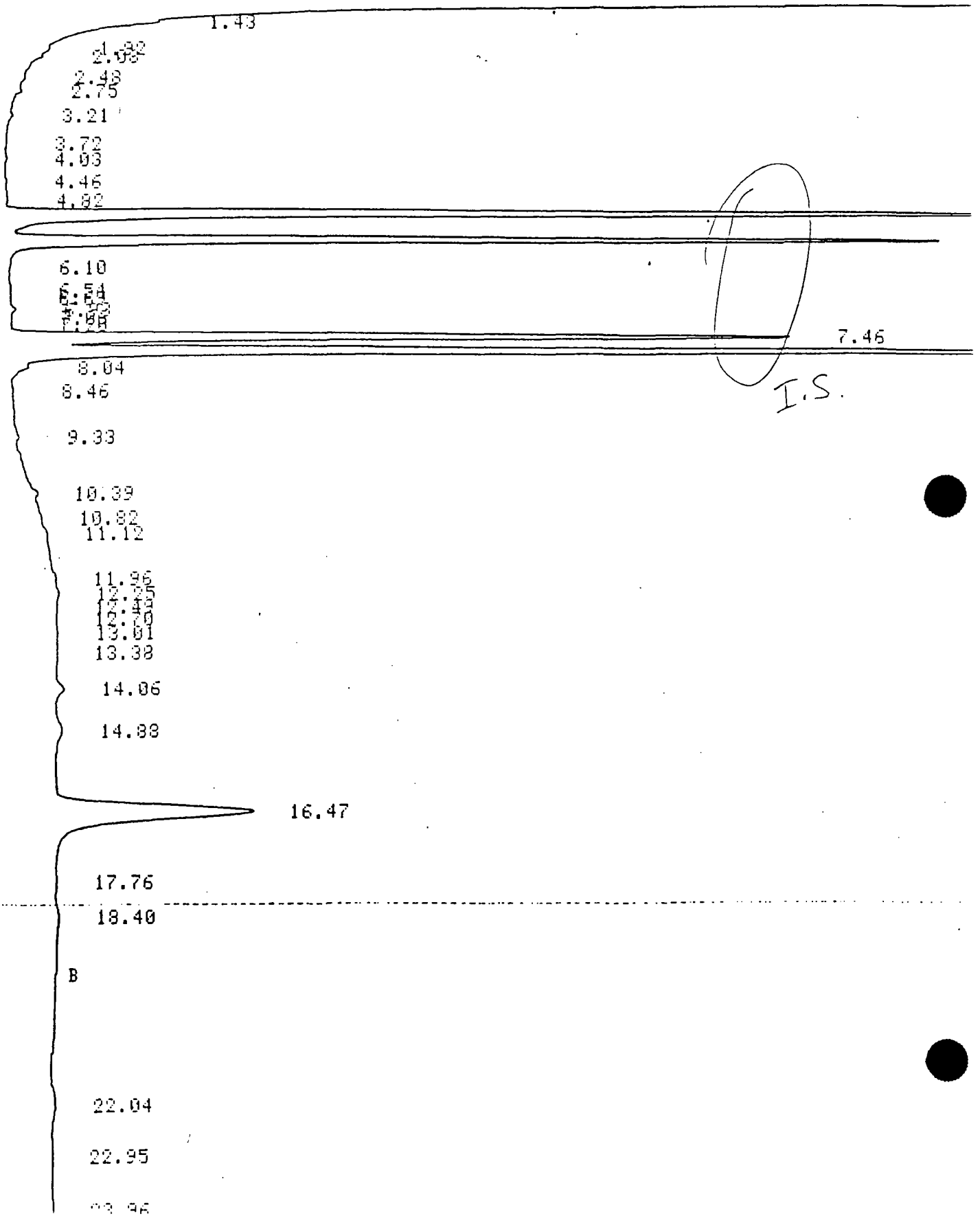


2 10:36 88/03

D 3 PHENOLS 8040

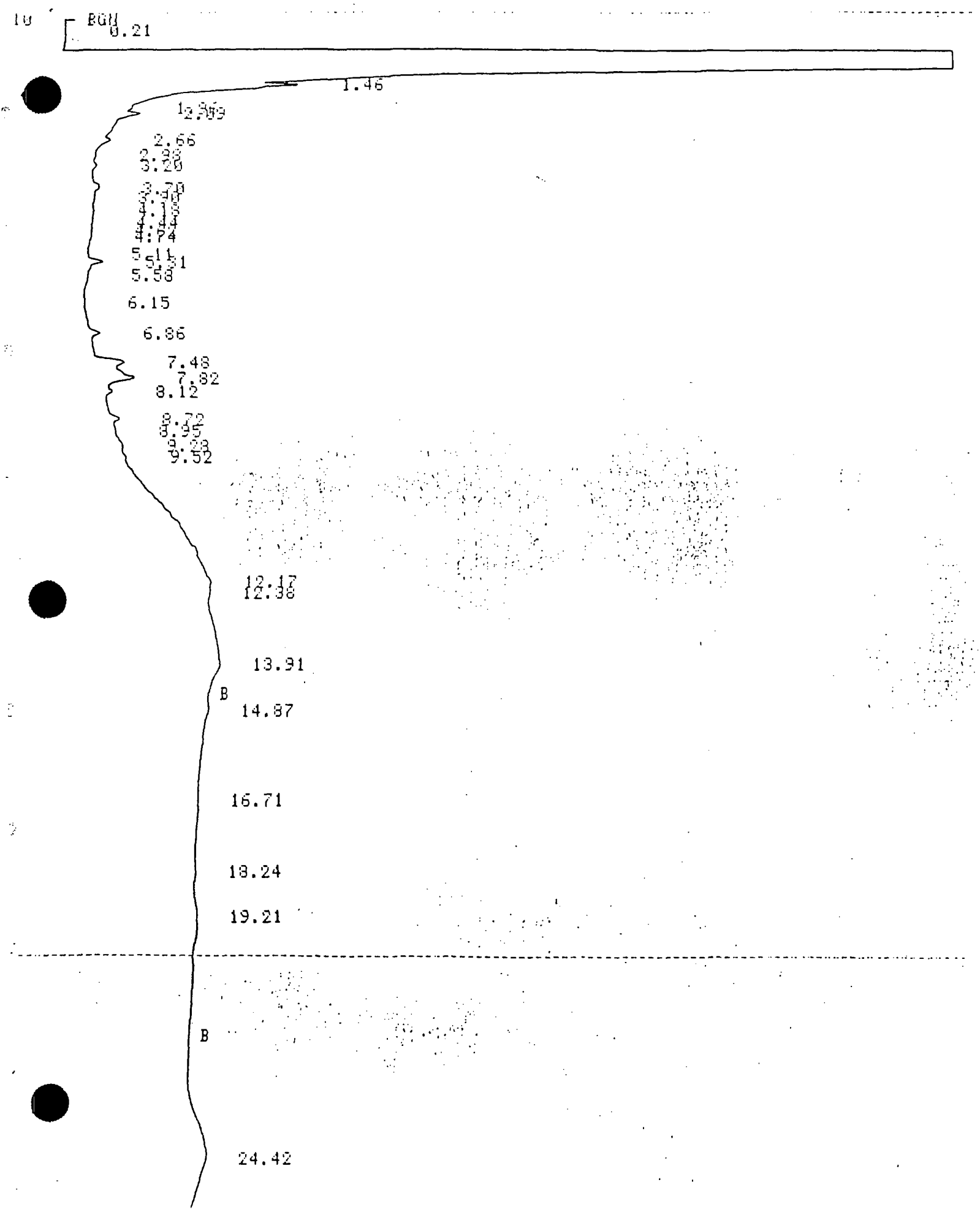
5λ # 8030515

10 BGN



3 PHENOLS 8040

5/1# 80[illegible]



SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/09/88
Date Received: 03/09/88
Date Reported: 03/14/88
Project: #JCO-104H

Q.C. DATA REPORT

Analyst: E.Esilew
Date of Analysis: 3/10/88
Method of Analysis: EPA 3510/2015
Detection Limit: 50
Units: ppb

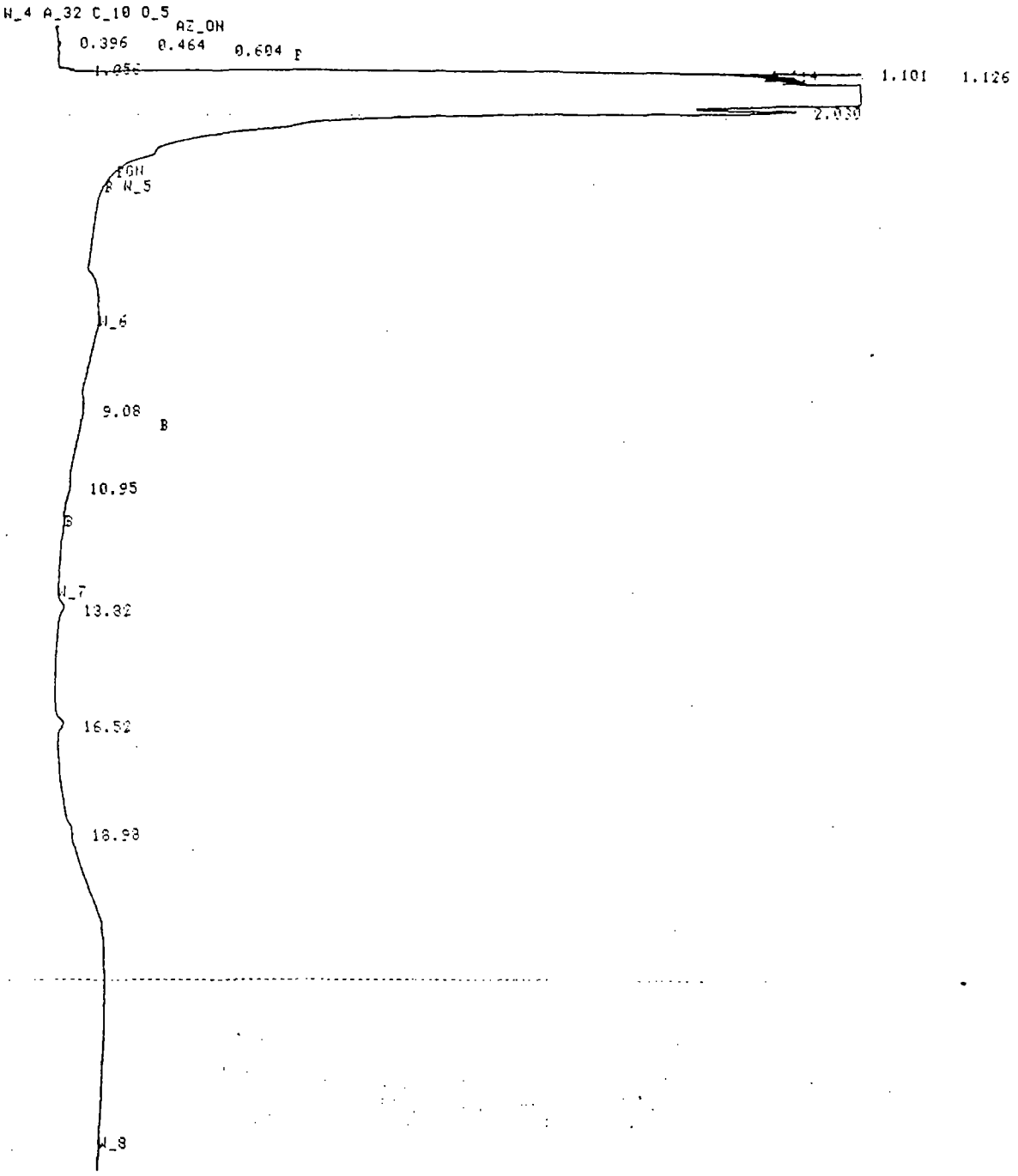
Sample Number	Analyte	Original Result	Duplicate Result	% Deviation
8030514	TPH	< 50	< 50	0.0

Sample Number	Analyte	Sample Contribution	Spike Added	Spike Result	% Recovery
8030514	TPH	< 50	84	111	130

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

FILE 139 RUN 38 STARTED 23:22.2 80/01/07 24HR RUSHES 3A Methylene Chloride D/K
% METHOD 1 HIGHBOIL LAST EDITED 18:01.1 80/01/06

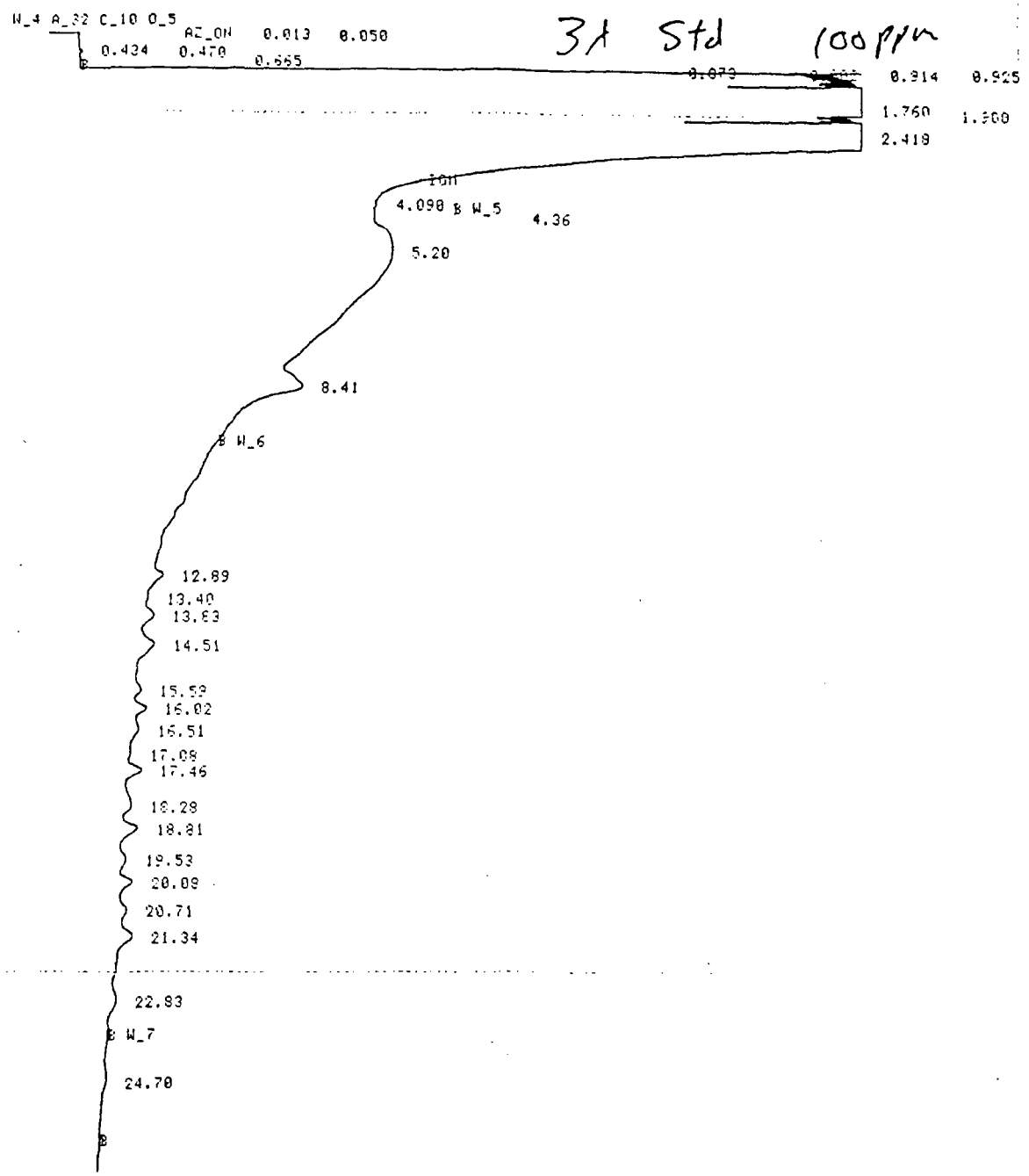


FILE 139 RUN 38 STARTED 23:22.2 80/01/07 24HR RUSHES
% METHOD 1 HIGHBOIL LAST EDITED 18:01.1 80/01/06

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
9.08	21075	0.7280		19.3203	10.1683
10.95	12011	0.7242		11.0110	10.1142
13.82	43298	2.5356	V	39.6926	35.4132
16.52	32699	2.5579	V	29.9761	35.7256
18.98		0.6142	V		8.5788

4 PEAKS > AREA REJECT 109082 TOTAL AREA
5 PEAKS > HEIGHT REJECT 7.1599 TOTAL HEIGHT

FILE 102 RUN 1 STARTED 18:02.4 80/01/06 24HR RUSHES
% METHOD 1 HIGHROIL LAST EDITED 18:01.1 80/01/06



FILE 102 RUN 1 STARTED 18:02.4 80/01/06 24HR RUSHES
% METHOD 1 HIGHROIL LAST EDITED 18:01.1 80/01/06

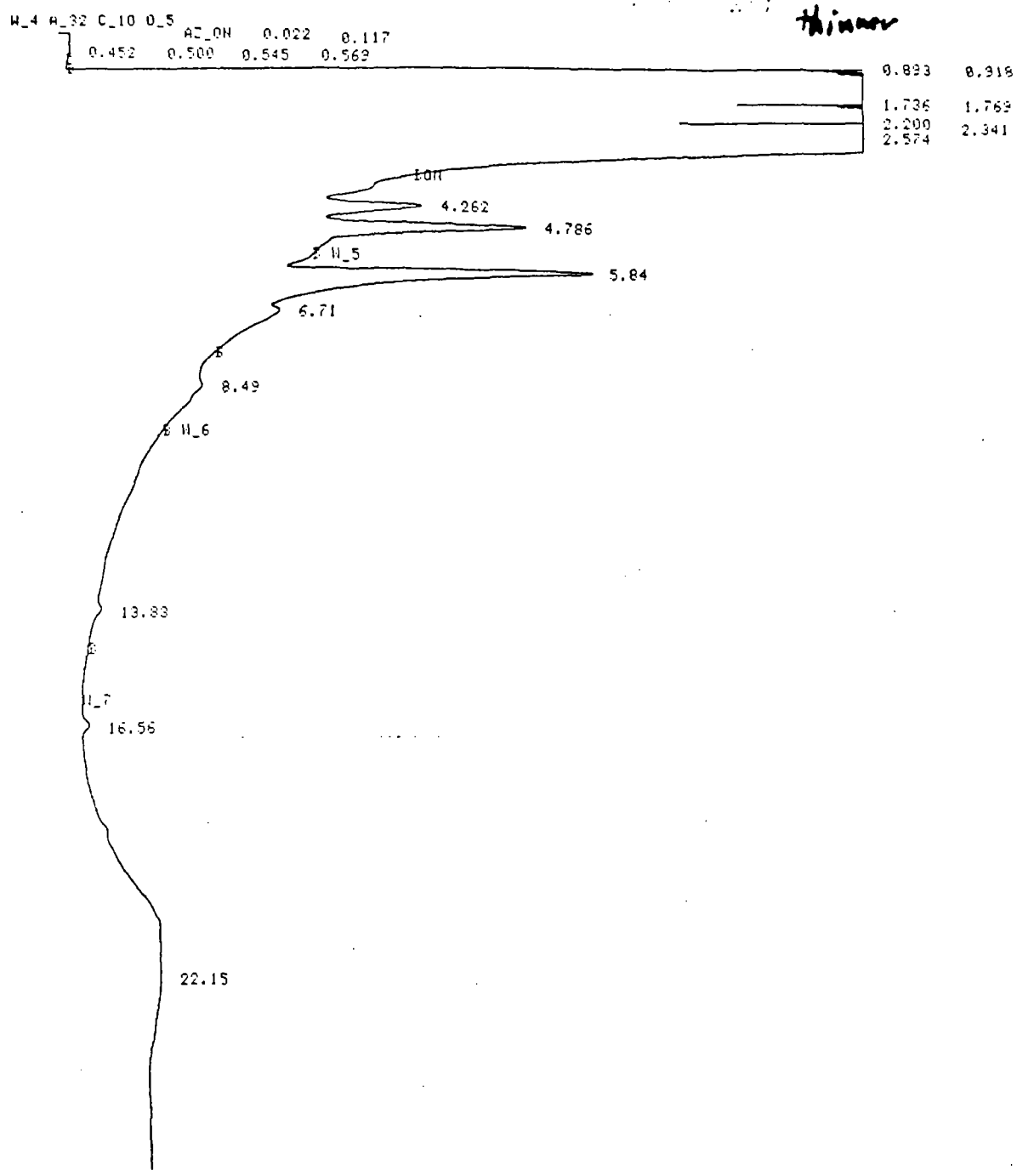
RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
4.090	3328	0.7018		0.1000	0.8263
4.36	2167	0.3246	V	0.0656	0.3821
5.20	2061850	14.6821	V	62.4593	17.2859
8.41	275516	13.3193		8.3462	15.6814
12.89	62102	4.1125	V	1.8812	4.8418
13.40	4559	0.4961	V	0.1381	0.5840
13.83	61099	3.8270	V	1.8508	4.5056
14.51	125387	5.7742	V	3.7983	6.7982
15.59	31317	2.2942	V	0.9487	2.7010
16.02	55528	4.4106	V	1.6821	5.1928
16.51	26886	1.8919	V	0.8750	2.2274
17.08	5618	0.6017	V	0.1702	0.7085
17.46	78083	5.6868	V	2.3654	6.6977
18.28	68012	2.9204	V	2.0603	3.4383
18.81	99502	6.2023	V	3.0142	7.3022
19.53	38966	2.1170	V	1.1804	2.4924
20.06	71312	4.7726	V	2.1602	5.6190
20.71	37317	2.3301	V	1.1304	2.7433
21.34	112607	5.0892	V	3.4112	5.9917
22.83	52621	2.2305		1.5940	2.6260
24.70	25334	1.1503		0.7674	1.3543

21 PEAKS > AREA REJECT 3301108 TOTAL AREA
21 PEAKS > HEIGHT REJECT 84.9369 TOTAL HEIGHT

958,247

FILE 156 RUN 55 STARTED 20:19.7 80/01/08 24HR RUSHES
% METHOD 1 HIGHFOIL LAST EDITED 16:01.1 80/01/06

Paint std
thinner



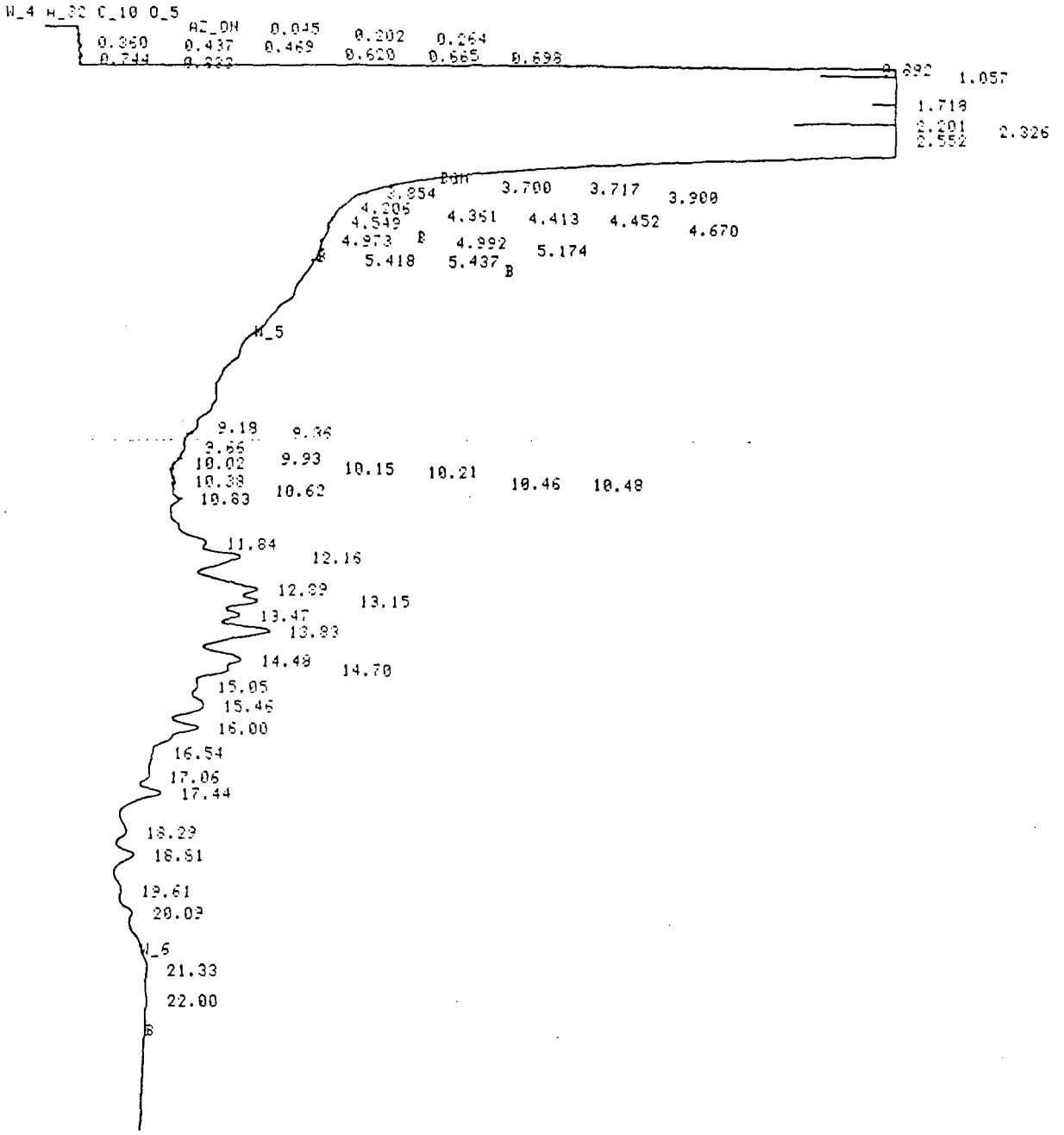
FILE 156 RUN 55 STARTED 20:19.7 80/01/08 24HR RUSHES
% METHOD 1 HIGHFOIL LAST EDITED 18:01.1 80/01/06

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
4.262	464158	35.8552	V	6.8368	14.0301
4.786	1121287	77.0258		16.5159	30.1402
5.84	2106964	116.6415	V	31.0344	45.6418
6.71	142630	5.7654		2.1009	2.2560
8.49	121748	3.0600		1.7933	1.1974
13.83	25969	1.9682		0.3825	0.7701
16.56	40866	2.6841	V	0.6019	1.0503
22.15	2765497	12.5585	V	40.7343	4.9141

8 PEAKS > AREA REJECT 6789118 TOTAL AREA
8 PEAKS > HEIGHT REJECT 255.5586 TOTAL HEIGHT

FILE 161 RUN 60 STARTED 22:45.8 80/01/08 24HR RUSHES
% METHOD 1 HIGHBOIL LAST EDITED 18:01.1 80/01/06

Kerosene



FILE 161 RUN 60 STARTED 22:45.8 80/01/08 24HR RUSHES
% METHOD 1 HIGHBOIL LAST EDITED 18:01.1 80/01/06

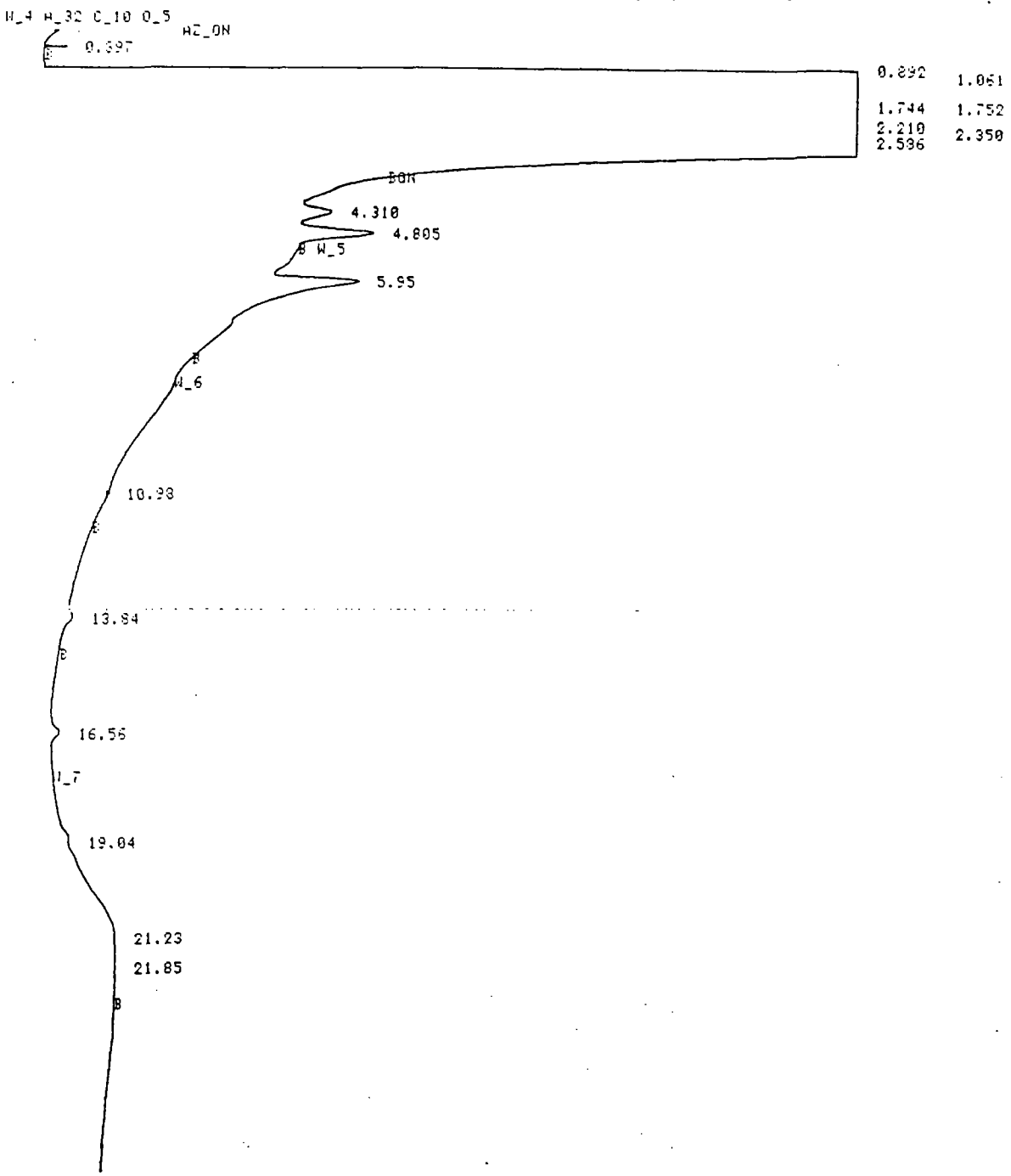
RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
3.700	485	1.0490	V	0.0265	0.7134
3.717	1559	0.7109	V	0.0852	0.4833
3.854	1335	1.2921	V	0.0729	0.8786
3.900	3554	0.7377	V	0.1943	0.5017
4.205	99	0.6706	V	0.0054	0.4560
4.361	835	0.4039	V	0.0489	0.2746
4.413	502	0.4688	V	0.0274	0.3188
4.452	1475	0.5457	V	0.0806	0.3711
4.549	26	0.3915	V	0.0014	0.2662
4.670	4869	0.8009		0.2661	0.5446
4.973	461	1.1062	V	0.0252	0.7523
4.992	4400	0.9258	V	0.2405	0.6296
5.174	1315	1.6896		0.0718	1.1490
5.418	499	0.7106	V	0.0272	0.4832
5.437	8602	1.4059		0.4702	0.9560
9.18	12613	1.0369	V	0.6894	0.7051
9.36		1.1477	V		0.7805
9.66	11137	0.8862	V	0.6087	0.6026
9.93	1517	0.6817	V	0.0829	0.4635
10.02	2537	0.7303	V	0.1397	0.4966
10.15	626	1.1053	V	0.0342	0.7516
10.21	1375	0.4083	V	0.0752	0.2777
10.38	3149	0.5033	V	0.1721	0.3422
					0.7331

FILE 161 RUN 60 STARTED 22:45.0 80/01/03 24HR RUSHES
% METHOD 1 HIGHBOIL LAST EDITED 16:01.1 80/01/06

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
3.700	485	1.0490	V	0.0265	0.7134
3.717	1553	0.7103	V	0.0852	0.4833
3.854	1235	1.2921	V	0.0729	0.8786
3.900	3554	0.7377	V	0.1943	0.5017
4.206	99	0.6706	V	0.0054	0.4560
4.361	895	0.4039	V	0.0489	0.2746
4.413	502	0.4688	V	0.0274	0.3188
4.452	1475	0.5457	V	0.0806	0.3711
4.549	26	0.3915	V	0.0014	0.2662
4.670	4869	0.8009		0.2661	0.5446
4.973	461	1.1062	V	0.0252	0.7523
4.992	4400	0.9259	V	0.2405	0.6296
5.174	1315	1.6896		0.0718	1.1490
5.418	499	0.7106	V	0.0272	0.4832
5.437	8602	1.4059		0.4702	0.9560
5.18	12613	1.0369	V	0.6894	0.7051
9.36		1.1477	V		0.7805
9.66	11137	0.8862	V	0.6087	0.6026
9.93	1517	0.6817	V	0.0829	0.4635
10.02	2537	0.7303	V	0.1397	0.4966
10.15	626	1.1053	V	0.0342	0.7516
10.21	1375	0.4083	V	0.0752	0.2777
10.38	3149	0.5033	V	0.1721	0.3422
10.46	541	1.0781	V	0.0296	0.7331
10.48	921	1.4250	V	0.0503	0.9690
10.62	3786	0.3649	V	0.2069	0.2482
10.83	28999	3.5229	V	1.5851	2.3956
11.84		2.7621	V		1.8782
12.16	239219	14.6943	V	13.0756	9.9922
12.89	134385	9.7194	V	7.3454	6.6092
13.15	73018	8.1605	V	3.9911	5.5491
13.47	52070	6.0377	V	2.8461	4.1057
13.83	318919	20.1331	V	17.4319	13.6905
14.48	120205	8.0572	V	6.5704	5.4789
14.70	23726	3.3199	V	1.2968	2.2576
15.05	14249	1.3896	V	0.7788	0.9449
15.46	148163	7.2269	V	8.0969	4.9143
16.00	194728	11.9553	V	10.6437	8.1296
16.54	2742	0.2626	V	0.1499	0.2466
17.05	19773	1.7300	V	1.0808	1.2104
17.44	132993	10.1658	V	7.2688	6.9128
18.23	63048	3.3466	V	3.4462	2.2757
18.81	107789	6.8519	V	5.8917	4.6593
19.61	20947	1.0251	V	1.1450	0.6971
20.09	31145	2.4836	V	1.7023	1.6888
21.33	27169	1.4330	V	1.4850	0.9745
22.00	17990	0.3540		0.4367	0.2407

PEAKS AREA REJECTED 1829512 TOTAL AREA
TOTAL HEIGHT

FILE 157 RUN 56 STARTED 21:16.4 80/01/08 24HR RUSHES
% METHOD 1 HIGHBOIL LAST EDITED 18:01.1 80/01/06 1λ Lacquer Std

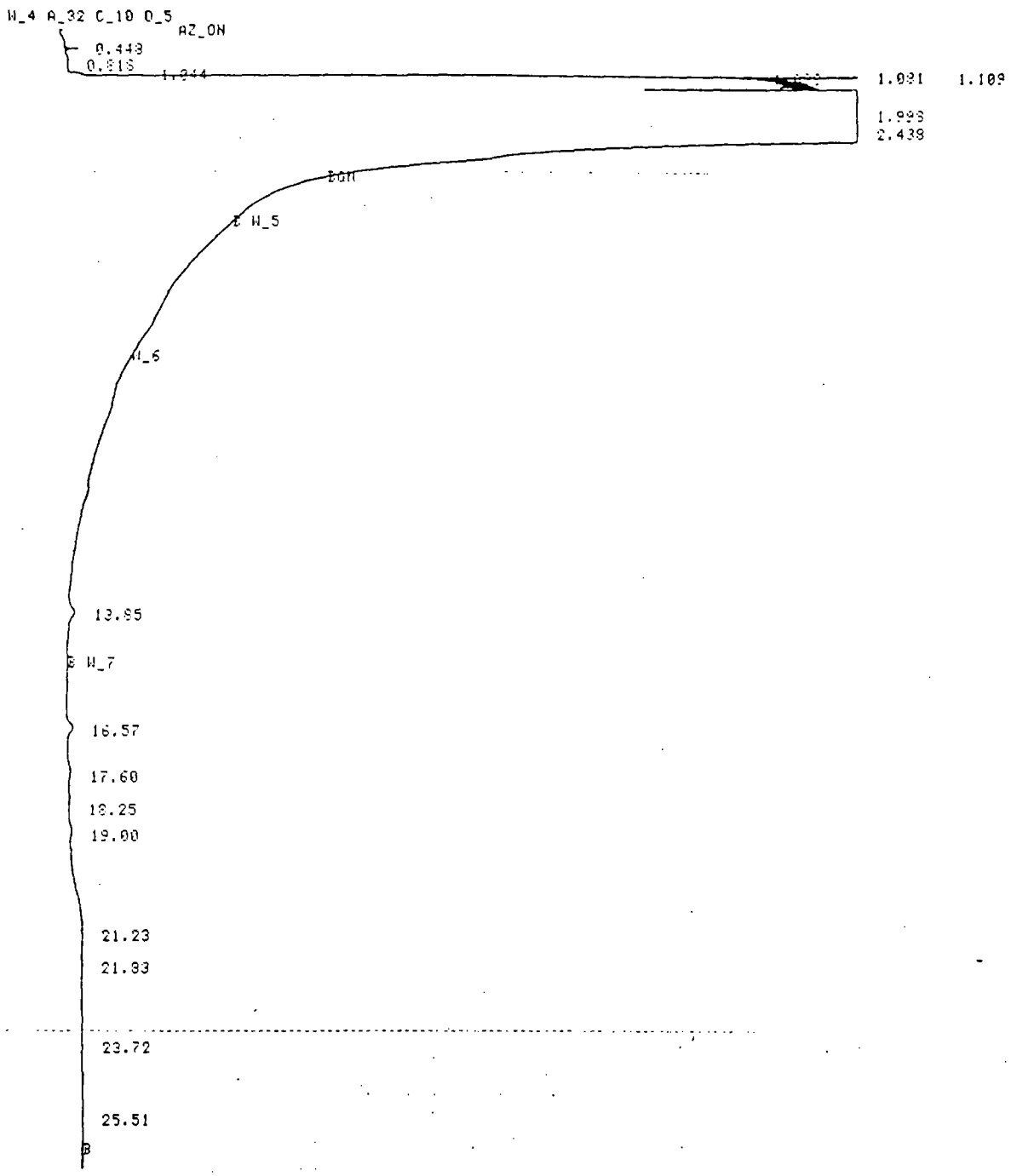


FILE 157 RUN 56 STARTED 21:16.4 80/01/03 24HR RUSHES
% METHOD 1 HIGHBOIL LAST EDITED 18:01.1 80/01/06

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
4.310	146265	11.3551	V	8.9367	13.4928
4.805	380243	28.3201		23.2328	33.6516
5.95	907874	35.0729		55.4710	41.6756
10.98		1.1033			1.3110
13.84	32586	2.3782		1.9910	2.8259
16.56	47261	3.0981	V	2.8876	3.6814
19.04		0.7692	V		0.9140
21.23	104424	1.7375	V	6.3803	2.0646
21.85	18011	0.3225		1.1005	0.3832

7 PEAKS > AREA REJECT 1636663 TOTAL AREA
9 PEAKS > HEIGHT REJECT 84.1570 TOTAL HEIGHT

FILE 121 RUN 20 STARTED 03:52.6 80/01/07 24HR RUSHES 3λ 8030514 500:1
% METHOD 1 HIGHBOIL LAST EDITED 18:01.1 80/01/06

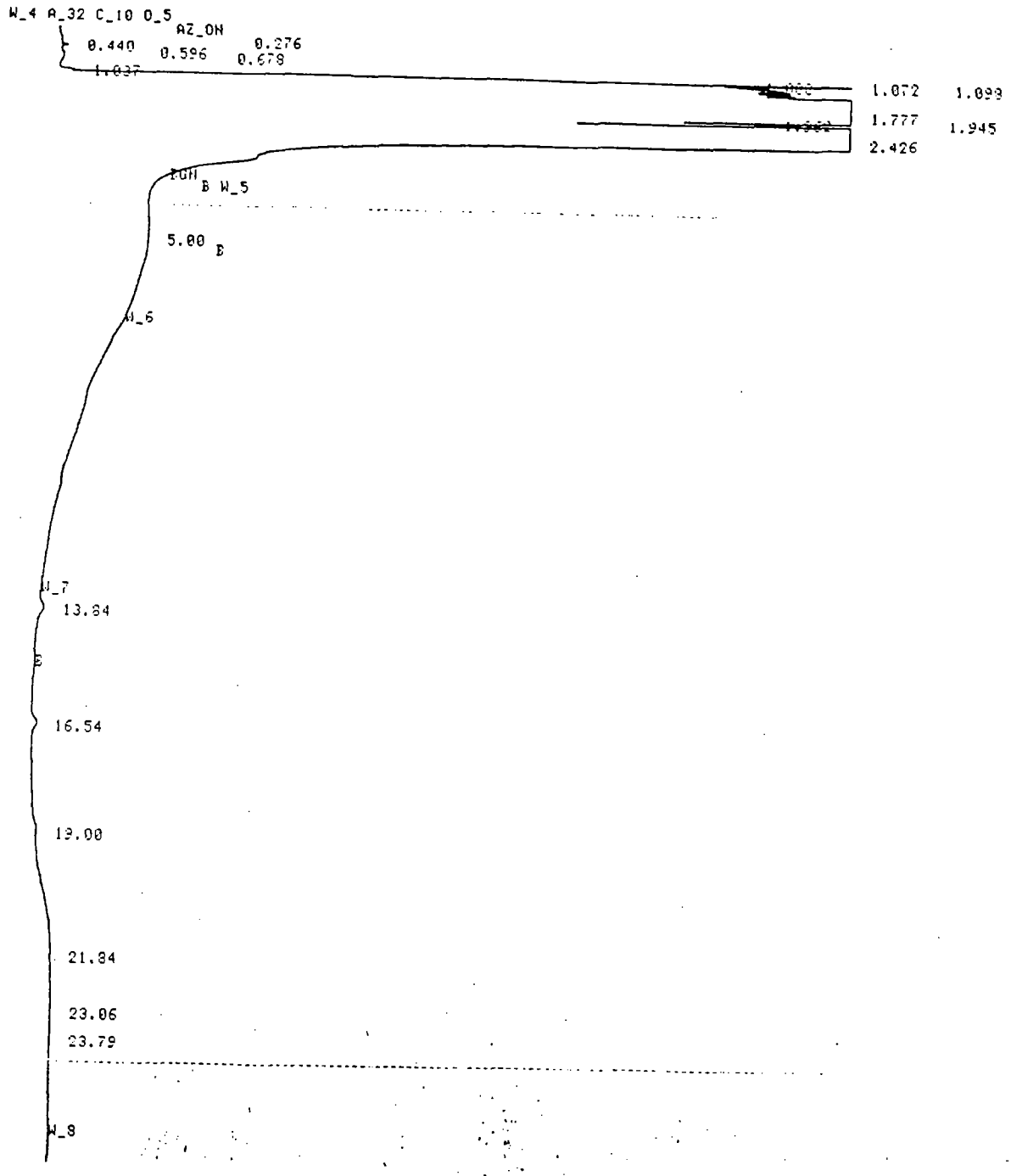


FILE 121 RUN 20 STARTED 03:52.6 80/01/07 24HR RUSHES
% METHOD 1 HIGHBOIL LAST EDITED 18:01.1 80/01/06

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
13.85	35849	2.1972		25.8368	29.9571
16.57	30543	2.2241	V	22.0128	30.3240
17.60	14687	0.7108	V	10.5852	9.6919
18.25	3682	0.1873	V	2.6533	2.5532
19.00	15090	0.9697	V	10.8756	13.2213
21.23	23969	0.6974	V	17.2749	9.5087
21.83	3191	0.0914	V	2.2998	1.2463
23.72	7261	0.1312	V	5.2328	1.7839
25.51	4480	0.1253		3.2288	1.7087

9 PEAKS) AREA REJECT 138752 TOTAL AREA
9 PEAKS) HEIGHT REJECT 7.3344 TOTAL HEIGHT

FILE 122 RUN 21 STARTED 04:25.4 80/01/07 24HR RUSHES 37 8030614 500:1 Dup.
% METHOD 1 HIGHBOIL LAST EDITED 18:01.1 80/01/06

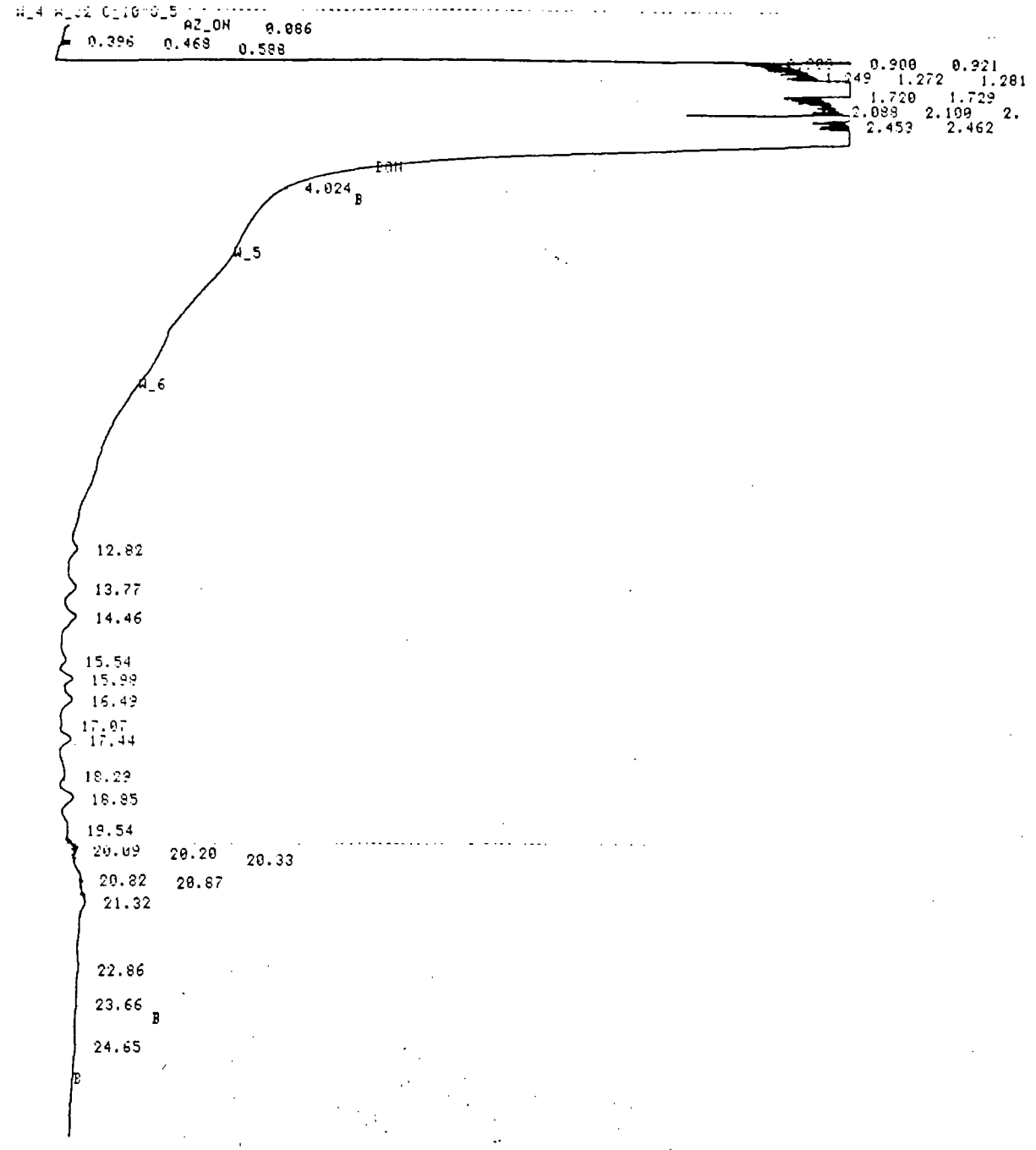


FILE 122 RUN 21 STARTED 04:25.4 80/01/07 24HR RUSHES
% METHOD 1 HIGHBOIL LAST EDITED 18:01.1 80/01/06

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
5.00	1877	0.1317		1.2140	2.3411
13.84	29073	2.0264		18.8042	36.0234
16.54	35200	2.1483	V	22.7671	38.1971
19.00		0.5143	V		9.1443
21.84	78995	0.5332	V	51.0931	9.4795
23.06	5829	0.1301	V	3.7702	2.3140
23.79	3636	0.1403	V	2.3514	2.4946

6 PEAKS > AREA REJECT 154609 TOTAL AREA
7 PEAKS > HEIGHT REJECT 5.6243 TOTAL HEIGHT

FILE 133 RUN 32 STARTED 20:09.9 80/01/07 24HR RUSHES 3λ 8030514 5/1K
% METHOD 1 HIGHBOIL LAST EDITED 18:01.1 80/01/06

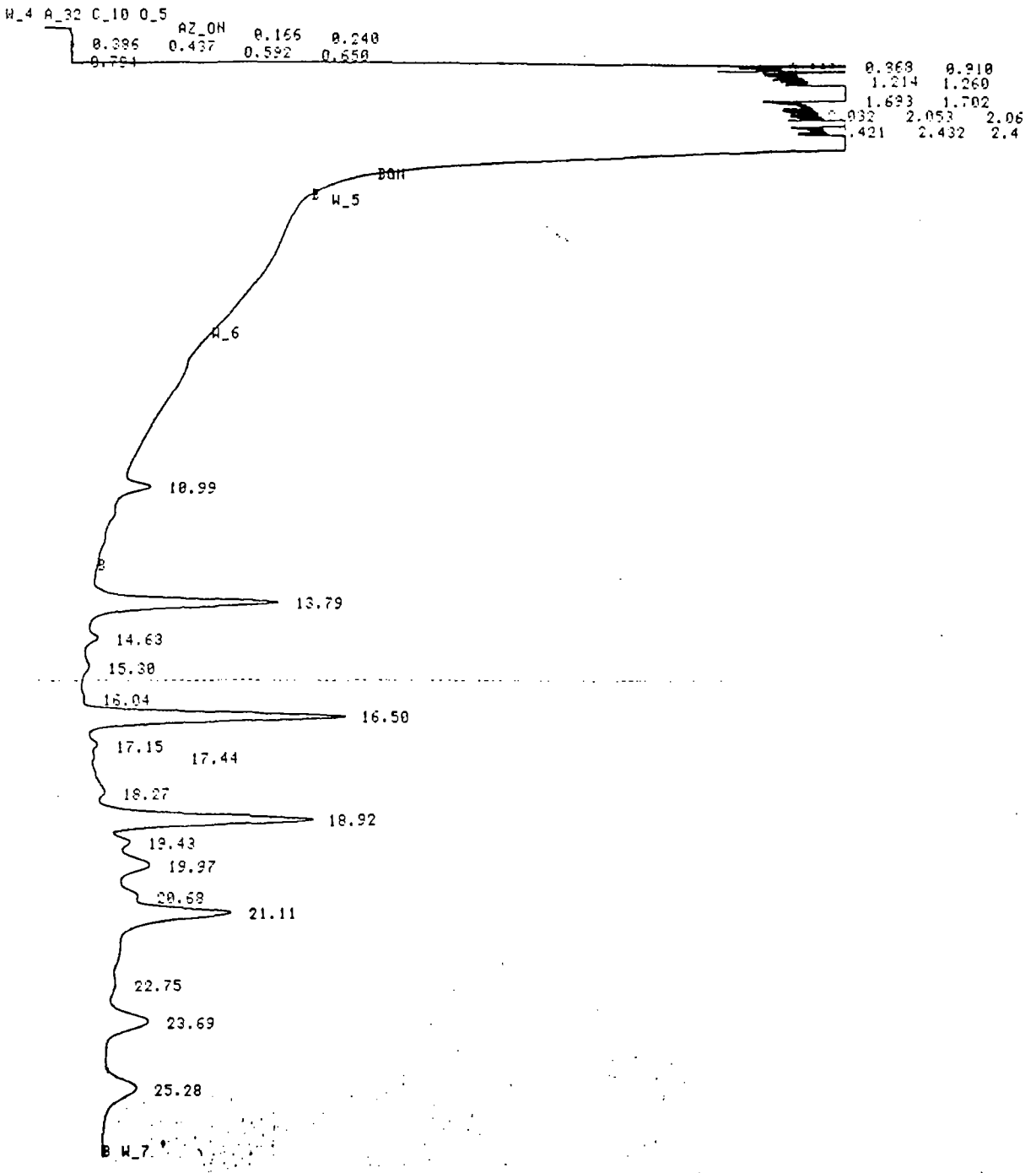


FILE 133 RUN 32 STARTED 20:09.9 80/01/07 24HR RUSHES
% METHOD 1 HIGHBOIL LAST EDITED 18:01.1 80/01/06

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
4.024		1.3078			2.9862
12.82	40814	2.5294	V	5.5726	5.7757
13.77	77919	3.9081	V	10.6388	8.9240
14.46	100893	4.9740	V	13.7756	11.3578
15.54	29409	2.0317	V	4.0154	4.6394
15.99	49126	4.0107	V	6.7171	9.1582
16.49	57948	3.7193	V	7.9120	8.4929
17.07	4393	0.4676	V	0.5998	1.0678
17.44	60609	4.3100	V	8.2754	9.8418
18.29	47686	1.9409	V	6.5109	4.4321
18.85	82611	4.5899	V	11.2795	10.4808
19.54	35526	1.5387	V	4.8506	3.5134
20.09	22662	1.9955	V	3.0942	4.5566
20.20	1437	0.7529	V	0.1962	1.7192
20.33	1489	0.4729	V	0.2033	1.0799
20.82	11899	0.9029	V	1.6246	2.0617
20.87	1152	0.6228	V	0.1572	1.4221
21.32	66388	2.2570	V	9.0644	5.1538
22.86	16802	0.6756	V	2.2941	1.5427
23.66	7274	0.2945		0.9931	0.6724
24.65	16297	0.4911		2.2251	1.1214

20 PEAKS > AREA REJECT 732401 TOTAL AREA
21 PEAKS > HEIGHT REJECT 43.7932 TOTAL HEIGHT

FILE 130 RUN 29 STARTED 17:57.7 80/01/07 24HR RUSHES 3λ 8020515 (500:1)
% METHOD 1 HIGHBOIL LAST EDITED 18:01.1 80/01/06

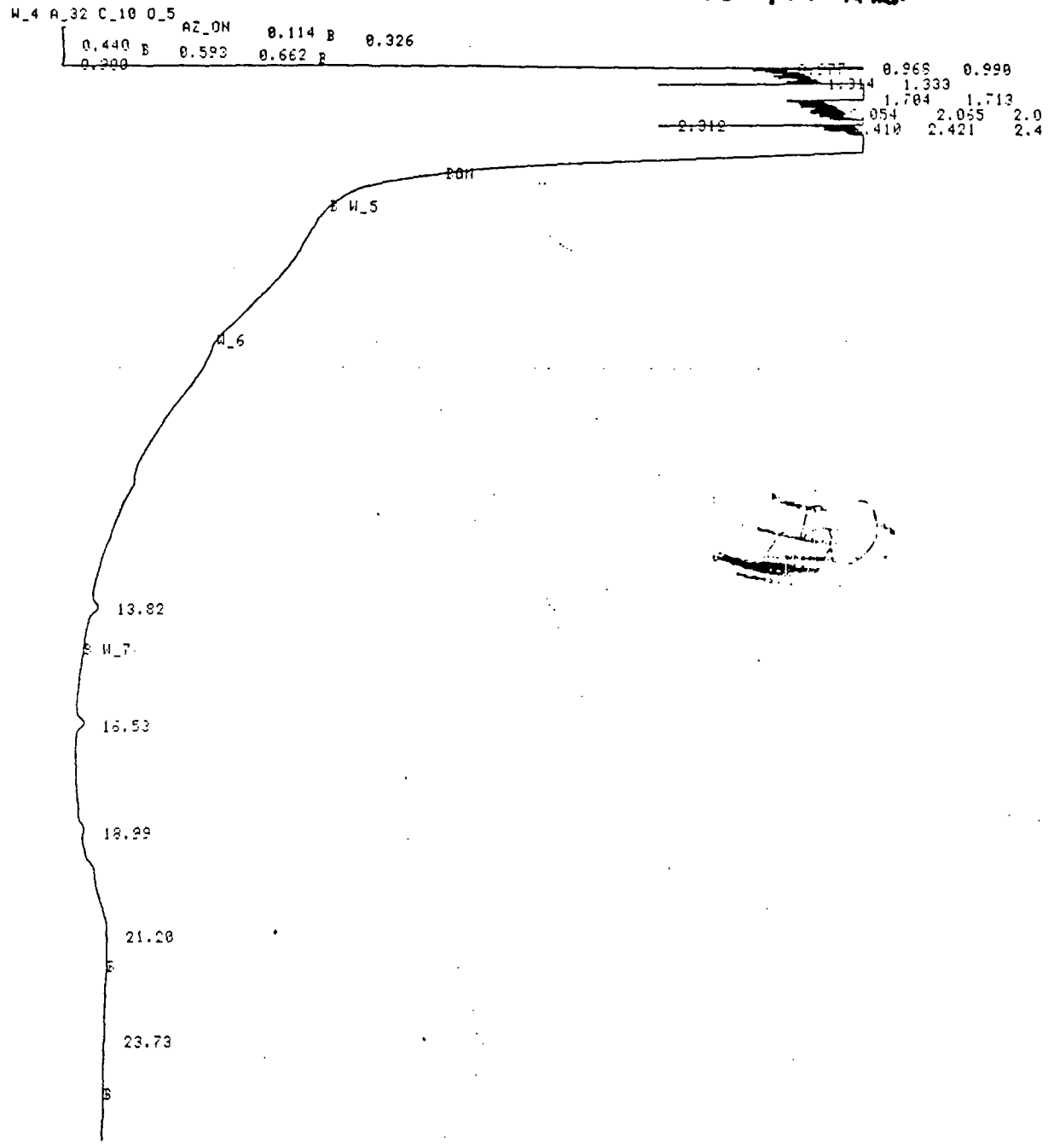


FILE 130 RUN 29 STARTED 17:57.7 80/01/07 24HR RUSHES
% METHOD 1 HIGHBOIL LAST EDITED 18:01.1 80/01/06

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
10.99	127810	11.0023		2.1277	3.0644
13.79	1121686	72.0699	V	18.6728	20.0730
14.63	51185	4.0642	V	0.8521	1.1320
15.30	47589	2.5413	V	0.7922	0.7078
16.04	6125	0.6130	V	0.1020	0.1707
16.50	1507815	99.8720	V	25.1007	27.8164
17.15	26439	2.4113	V	0.4401	0.6716
17.44	6334	0.7671	V	0.1054	0.2136
18.27	56443	2.6939	V	0.9396	0.7503
18.92	1279973	78.9569	V	21.3078	21.9911
19.43	54394	4.6852	V	0.9055	1.3049
19.97	209546	10.9148	V	3.4893	3.0400
20.68	21849	1.9735	V	0.3637	0.5496
21.11	661267	37.8566	V	11.0081	10.5439
22.75	21887	1.0000	V	0.3644	0.2785
23.69	403992	15.3118	V	6.7253	4.2647
25.28	402738	12.3062		6.7044	3.4275

17 PEAKS > AREA REJECT 6007071 TOTAL AREA
17 PEAKS > HEIGHT REJECT 359.0397 TOTAL HEIGHT

FILE 142 RUN 41 STARTED 01:32.7 80/01/08 24HR RUSHES 3λ 8030634 (500:1)
% METHOD 1 HIGHBOIL LAST EDITED 18:01.1 80/01/06 As paint thinner



FILE 142 RUN 41 STARTED 01:32.7 80/01/08 24HR RUSHES
% METHOD 1 HIGHBOIL LAST EDITED 18:01.1 80/01/06

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
13.82	44905	2.9820		10.7765	28.1461
16.53	47179	3.1290	V	11.3221	29.5341
18.99	5028	1.0756	V	1.2067	10.1519
21.20	316889	3.1861		76.0483	30.0728
23.73	2694	0.2220		0.6464	2.0952

5 PEAKS > AREA REJECT 416694 TOTAL AREA
5 PEAKS > HEIGHT REJECT 10.5946 TOTAL HEIGHT

KEYBOARD DIRECTED EVENTS

TIME	EVENT	VALUE
26.220	Stop Data	

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/09/88
Date Received: 03/09/88
Date Reported: 03/14/88
Project: #JCO-104H

Q.C. DATA REPORT

Analyst: E. Hackl
Date of Analysis: 3/10/88
Method of Analysis: Turbidity
Detection Limit: N/A
Units: NTU

Sample Number	Analyte	Original Result	Duplicate Result	% Deviation
8030634	Turbidity	470	470	2.1

Sample Number	Analyte	Sample Contribution	Spike Added	Spike Result	% Recovery
8030634	Turbidity	95	95	200	110

SEQUOIA ANALYTICAL LABORATORY

Scot Cocanour

Arthur G. Burton
Laboratory Director

ANAMETRIX, INC.
LABORATORY SERVICES
ENVIRONMENTAL • ANALYTICAL CHEMISTRY
2754 AIELLO DRIVE • SAN JOSE, CA 95111 • (408) 629-1132

March 11, 1988
Work Order Number 8803053
Date Received 03/09/88
Project No. JCO-104H

Robert Breynaert
Wahler & Associates
1023 Corporation Way
Palo Alto, CA 94303

Six water samples were received for analysis of volatiles by GC/MS, using the following EPA method(s):

ANAMETRIX I.D.	SAMPLE I.D.	METHOD(S)
8803053-01	JCO-104H V-3	624
-02	" METHOD BAILER	"
-03	" TRAVEL BLANK	"
-04	" V-10	"
-05	" TRAVEL BLANK	"
-06	" METHOD BLANK	"

RESULTS

See enclosed data sheets, Pages 2 thru 7.

EXTRA COMPOUNDS

See enclosed data sheet, Page 8.

QUALITY ASSURANCE REPORTS

See enclosed data sheets, Pages 9 thru 10.

If there is any more that we can do, please give us a call. Thank you for using ANAMETRIX, INC.

Sincerely,

Burt Sutherland

Burt Sutherland
Laboratory Manager

BWS/ltm

ORGANICS ANALYSIS DATA SHEET - EPA METHOD 624/8240
ANAMETRIX, INC. (408) 629-1132

Sample I.D.	: JCO-104H V-3	Anametrix I.D.	: 8803053-01
Matrix	: WATER	Analyst	: ARL
Date sampled	: 03-09-88	Supervisor	: BWS
Date analyzed	: 03-10-88	Date released	: 03-11-88
Dilution	: NONE	Instrument	: F1

CAS #	Compound Name	Reporting Limit (ug/l)	Amount Found (ug/l)
74-87-3	* Chloromethane	10	BRL
75-01-4	* Vinyl Chloride	10	BRL
74-83-9	* Bromomethane	10	BRL
75-00-3	* Chloroethane	10	BRL
75-69-4	* Trichlorofluoromethane	5	BRL
75-35-4	* 1,1-Dichloroethene	5	BRL
76-13-1	# Trichlorotrifluoroethane	5	BRL
67-64-1	**Acetone	20	BRL
75-15-0	**Carbondisulfide	5	BRL
75-09-2	* Methylene Chloride	5	BRL
156-60-5	* Trans-1,2-Dichloroethene	5	BRL
75-34-3	* 1,1-Dichloroethane	5	7
78-93-3	**2-Butanone	20	BRL
156-59-2	* Cis-1,2-Dichloroethene	5	BRL
67-66-3	* Chloroform	5	BRL
71-55-6	* 1,1,1-Trichloroethane	5	BRL
56-23-5	* Carbon Tetrachloride	5	BRL
71-43-2	* Benzene	5	BRL
107-06-2	* 1,2-Dichloroethane	5	BRL
79-01-6	* Trichloroethene	5	BRL
78-87-5	* 1,2-Dichloropropane	5	BRL
75-27-4	* Bromodichloromethane	5	BRL
110-75-8	* 2-Chloroethylvinylether	5	BRL
108-05-4	**Vinyl Acetate	10	BRL
10061-02-6	* Trans-1,3-Dichloropropene	5	BRL
108-10-1	**4-Methyl-2-Pentanone	10	BRL
108-88-3	* Toluene	5	BRL
10061-01-5	* cis-1,3-Dichloropropene	5	BRL
79-00-5	* 1,1,2-Trichloroethane	5	BRL
127-18-4	* Tetrachloroethene	5	BRL
591-78-6	**2-Hexanone	10	BRL
124-48-1	* Dibromochloromethane	5	BRL
108-90-7	* Chlorobenzene	5	BRL
100-41-4	* Ethylbenzene	5	BRL
1330-20-7	**Total Xylenes	5	BRL
100-42-5	**Styrene	5	BRL
75-25-2	* Bromoform	5	BRL
79-34-5	* 1,1,2,2-Tetrachloroethane	5	BRL
541-73-1	* 1,3-Dichlorobenzene	5	BRL
106-46-7	* 1,4-Dichlorobenzene	5	BRL
95-50-1	* 1,2-Dichlorobenzene	5	BRL

CAS #	Surrogate Compounds	Limits	%Recovery
17060-07-0	1,2-Dichloroethane-d4	84-132%	110%
2037-26-5	Toluene-d8	85-124%	109%
460-00-4	p-Bromofluorobenzene	74-116%	93%

* A Method 624 priority pollutant compound (Federal Register, 10/26/84)
** A compound on the U.S. EPA CLP Hazardous Substance List (HSL)
\# A compound added by Anametrix, Inc. BRL : Below reporting limit.

ORGANICS ANALYSIS DATA SHEET - TENTATIVELY IDENTIFIED COMPOUNDS
ANAMETRIX, INC. (408) 629-1132

Sample I.D.	: JCO-104H V-3	Anametrix I.D.	: 8803053-01
Matrix	: WATER	Analyst	: ARL
Date Sampled	: 03-09-88	Supervisor	: BWS
Analyzed VOA	: 03-10-88	Date Released	: 03-11-88
Dilution VOA	: NONE		
Analyzed SV	: NA		
Dilution SV	: NA		

	CAS #	Scan#	Volatile Fraction Compound Name	Det. Limit ppb	Amt. Found ppb
1	592-84-7	506	formicacid, butylester	5	<5
2				5	
3				5	
4				5	
5				5	
6				5	
7				5	
8				5	
9				5	
10				5	

	CAS #	Scan#	Semivolatile Fraction Compound Name	Det. Limit ppb	Amt. Found ppb
1				10	
2				10	
3				10	
4				10	
5				10	
6				10	
7				10	
8				10	
9				10	
10				10	
11				10	
12				10	
13				10	
14				10	
15				10	
16				10	
17				10	
18				10	
19				10	
20				10	

Tentatively identified compounds are significant chromatographic peaks (TICs) other than priority pollutants. TIC spectra are compared with entries in the National Bureau of Standards mass spectral library. Identification is made by following US EPA guidelines and acceptance criteria. TICs are quantitated by using the area of the nearest internal standard and assuming a response factor of one (1). Values calculated are ESTIMATES ONLY.

ORGANICS ANALYSIS DATA SHEET - EPA METHOD 624/8240
ANAMETRIX, INC. (408) 629-1132

Sample I.D. : JCO-104H V-10
Matrix : WATER
Date sampled : 03-09-88
Date analyzed: 03-10-88
Dilution : NONE

Anametrix I.D. : 8803053-04
Analyst : ARL
Supervisor : BWS
Date released : 03-11-88
Instrument : F1

CAS #	Compound Name	Reporting Limit (ug/l)	Amount Found (ug/l)
74-87-3	* Chloromethane	10	BRL
75-01-4	* Vinyl Chloride	10	BRL
74-83-9	* Bromomethane	10	BRL
75-00-3	* Chloroethane	10	BRL
75-69-4	* Trichlorofluoromethane	5	BRL
75-35-4	* 1,1-Dichloroethene	5	BRL
76-13-1	# Trichlorotrifluoroethane	5	BRL
67-64-1	**Acetone	20	BRL
75-15-0	**Carbondisulfide	5	BRL
75-09-2	* Methylene Chloride	5	BRL
156-60-5	* Trans-1,2-Dichloroethene	5	BRL
75-34-3	* 1,1-Dichloroethane	5	BRL
78-93-3	**2-Butanone	20	BRL
156-59-2	* Cis-1,2-Dichloroethene	5	BRL
67-66-3	* Chloroform	5	BRL
71-55-6	* 1,1,1-Trichloroethane	5	BRL
56-23-5	* Carbon Tetrachloride	5	BRL
71-43-2	* Benzene	5	BRL
107-06-2	* 1,2-Dichloroethane	5	BRL
79-01-6	* Trichloroethene	5	BRL
78-87-5	* 1,2-Dichloropropane	5	BRL
75-27-4	* Bromodichloromethane	5	BRL
110-75-8	* 2-Chloroethylvinylether	5	BRL
108-05-4	**Vinyl Acetate	10	BRL
10061-02-6	* Trans-1,3-Dichloropropene	5	BRL
108-10-1	**4-Methyl-2-Pentanone	10	BRL
108-88-3	* Toluene	5	BRL
10061-01-5	* cis-1,3-Dichloropropene	5	BRL
79-00-5	* 1,1,2-Trichloroethane	5	BRL
127-18-4	* Tetrachloroethene	5	BRL
591-78-6	**2-Hexanone	10	BRL
124-48-1	* Dibromochloromethane	5	BRL
108-90-7	* Chlorobenzene	5	BRL
100-41-4	* Ethylbenzene	5	BRL
1330-20-7	**Total Xylenes	5	BRL
100-42-5	**Styrene	5	BRL
75-25-2	* Bromoform	5	BRL
79-34-5	* 1,1,2,2-Tetrachloroethane	5	BRL
541-73-1	* 1,3-Dichlorobenzene	5	BRL
106-46-7	* 1,4-Dichlorobenzene	5	BRL
95-50-1	* 1,2-Dichlorobenzene	5	BRL

CAS #	Surrogate Compounds	Limits	%Recovery
17060-07-0	1,2-Dichloroethane-d4	84-132%	114%
2037-26-5	Toluene-d8	85-124%	110%
460-00-4	p-Bromofluorobenzene	74-116%	92%

* A Method 624 priority pollutant compound (Federal Register, 10/26/84)
** A compound on the U.S. EPA CLP Hazardous Substance List (HSL)
\# A compound added by Anametrix, Inc. BRL : Below reporting limit.

ORGANICS ANALYSIS DATA SHEET - EPA METHOD 624/8240
ANAMETRIX, INC. (408) 629-1132

Sample I.D. : JCO-104H METHOD BAILER
Matrix : WATER
Date sampled : 03-08-88
Date analyzed: 03-10-88
Dilution : NONE

Anametrix I.D. : 8803053-02
Analyst : LH
Supervisor : BWS
Date released : 03-11-88
Instrument : F1

CAS #	Compound Name	Reporting Limit (ug/l)	Amount Found (ug/l)
74-87-3	* Chloromethane	10	BRL
75-01-4	* Vinyl Chloride	10	BRL
74-83-9	* Bromomethane	10	BRL
75-00-3	* Chloroethane	10	BRL
75-69-4	* Trichlorofluoromethane	5	BRL
75-35-4	* 1,1-Dichloroethene	5	BRL
76-13-1	# Trichlorotrifluoroethane	5	BRL
67-64-1	**Acetone	20	BRL
75-15-0	**Carbondisulfide	5	BRL
75-09-2	* Methylene Chloride	5	BRL
156-60-5	* Trans-1,2-Dichloroethene	5	BRL
75-34-3	* 1,1-Dichloroethane	5	BRL
78-93-3	**2-Butanone	20	BRL
156-59-2	* Cis-1,2-Dichloroethene	5	BRL
67-66-3	* Chloroform	5	BRL
71-55-6	* 1,1,1-Trichloroethane	5	BRL
56-23-5	* Carbon Tetrachloride	5	BRL
71-43-2	* Benzene	5	BRL
107-06-2	* 1,2-Dichloroethane	5	BRL
79-01-6	* Trichloroethene	5	BRL
78-87-5	* 1,2-Dichloropropane	5	BRL
75-27-4	* Bromodichloromethane	5	BRL
110-75-8	* 2-Chloroethylvinylether	5	BRL
108-05-4	**Vinyl Acetate	10	BRL
10061-02-6	* Trans-1,3-Dichloropropene	5	BRL
108-10-1	**4-Methyl-2-Pentanone	10	BRL
108-88-3	* Toluene	5	BRL
10061-01-5	* cis-1,3-Dichloropropene	5	BRL
79-00-5	* 1,1,2-Trichloroethane	5	BRL
127-18-4	* Tetrachloroethene	5	BRL
591-78-6	**2-Hexanone	10	BRL
124-48-1	* Dibromochloromethane	5	BRL
108-90-7	* Chlorobenzene	5	BRL
100-41-4	* Ethylbenzene	5	BRL
1330-20-7	**Total Xylenes	5	BRL
100-42-5	**Styrene	5	BRL
75-25-2	* Bromoform	5	BRL
79-34-5	* 1,1,2,2-Tetrachloroethane	5	BRL
541-73-1	* 1,3-Dichlorobenzene	5	BRL
106-46-7	* 1,4-Dichlorobenzene	5	BRL
95-50-1	* 1,2-Dichlorobenzene	5	BRL

CAS #	Surrogate Compounds	Limits	%Recovery
17060-07-0	1,2-Dichloroethane-d4	84-132%	114%
2037-26-5	Toluene-d8	85-124%	110%
460-00-4	p-Bromofluorobenzene	74-116%	90%

* A Method 624 priority pollutant compound (Federal Register, 10/26/84)
** A compound on the U.S. EPA CLP Hazardous Substance List (HSL)
\# A compound added by Anametrix, Inc. BRL : Below reporting limit.

ORGANICS ANALYSIS DATA SHEET - EPA METHOD 624/8240
ANAMETRIX, INC. (408) 629-1132

Sample I.D.	: JCO-104H TRAVEL BLANK	Anametrix I.D.	: 8803053-03
Matrix	: WATER	Analyst	: ARL
Date sampled	: 03-08-88	Supervisor	: BWS
Date analyzed	: 03-10-88	Date released	: 03-11-88
Dilution	: NONE	Instrument	: F1

CAS #	Compound Name	Reporting Limit (ug/l)	Amount Found (ug/l)
74-87-3	* Chloromethane	10	BRL
75-01-4	* Vinyl Chloride	10	BRL
74-83-9	* Bromomethane	10	BRL
75-00-3	* Chloroethane	10	BRL
75-69-4	* Trichlorofluoromethane	5	BRL
75-35-4	* 1,1-Dichloroethene	5	BRL
76-13-1	# Trichlorotrifluoroethane	5	BRL
67-64-1	**Acetone	20	BRL
75-15-0	**Carbondisulfide	5	BRL
75-09-2	* Methylene Chloride	5	BRL
156-60-5	* Trans-1,2-Dichloroethene	5	BRL
75-34-3	* 1,1-Dichloroethane	5	BRL
78-93-3	**2-Butanone	20	BRL
156-59-2	* Cis-1,2-Dichloroethene	5	BRL
67-66-3	* Chloroform	5	BRL
71-55-6	* 1,1,1-Trichloroethane	5	BRL
56-23-5	* Carbon Tetrachloride	5	BRL
71-43-2	* Benzene	5	BRL
107-06-2	* 1,2-Dichloroethane	5	BRL
79-01-6	* Trichloroethene	5	BRL
78-87-5	* 1,2-Dichloropropane	5	BRL
75-27-4	* Bromodichloromethane	5	BRL
110-75-8	* 2-Chloroethylvinylether	5	BRL
108-05-4	**Vinyl Acetate	10	BRL
10061-02-6	* Trans-1,3-Dichloropropene	5	BRL
108-10-1	**4-Methyl-2-Pentanone	10	BRL
108-88-3	* Toluene	5	BRL
10061-01-5	* cis-1,3-Dichloropropene	5	BRL
79-00-5	* 1,1,2-Trichloroethane	5	BRL
127-18-4	* Tetrachloroethene	5	BRL
591-78-6	**2-Hexanone	10	BRL
124-48-1	* Dibromochloromethane	5	BRL
108-90-7	* Chlorobenzene	5	BRL
100-41-4	* Ethylbenzene	5	BRL
1330-20-7	**Total Xylenes	5	BRL
100-42-5	**Styrene	5	BRL
75-25-2	* Bromoform	5	BRL
79-34-5	* 1,1,2,2-Tetrachloroethane	5	BRL
541-73-1	* 1,3-Dichlorobenzene	5	BRL
106-46-7	* 1,4-Dichlorobenzene	5	BRL
95-50-1	* 1,2-Dichlorobenzene	5	BRL

CAS #	Surrogate Compounds	Limits	%Recovery
17060-07-0	1,2-Dichloroethane-d4	84-132%	110%
2037-26-5	Toluene-d8	85-124%	101%
460-00-4	p-Bromofluorobenzene	74-116%	83%

* A Method 624 priority pollutant compound (Federal Register, 10/26/84)
** A compound on the U.S. EPA CLP Hazardous Substance List (HSL)
\# A compound added by Anametrix, Inc. BRL : Below reporting limit.

ORGANICS ANALYSIS DATA SHEET - EPA METHOD 624/8240
ANAMETRIX, INC. (408) 629-1132

Sample I.D.	: JCO-104H METHOD BLANK	Anametrix I.D.	: 8803053-06
Matrix	: WATER	Analyst	: ARL
Date sampled	: 03-09-88	Supervisor	: BLOS
Date analyzed	: 03-10-88	Date released	: 03-11-88
Dilution	: NONE	Instrument	: F1

CAS #	Compound Name	Reporting Limit (ug/l)	Amount Found (ug/l)
74-87-3	* Chloromethane	10	BRL
75-01-4	* Vinyl Chloride	10	BRL
74-83-9	* Bromomethane	10	BRL
75-00-3	* Chloroethane	10	BRL
75-69-4	* Trichlorofluoromethane	5	BRL
75-35-4	* 1,1-Dichloroethene	5	BRL
76-13-1	# Trichlorotrifluoroethane	5	BRL
67-64-1	**Acetone	20	BRL
75-15-0	**Carbondisulfide	5	BRL
75-09-2	* Methylene Chloride	5	BRL
156-60-5	* Trans-1,2-Dichloroethene	5	BRL
75-34-3	* 1,1-Dichloroethane	5	BRL
78-93-3	**2-Butanone	20	BRL
156-59-2	* Cis-1,2-Dichloroethene	5	BRL
67-66-3	* Chloroform	5	BRL
71-55-6	* 1,1,1-Trichloroethane	5	BRL
56-23-5	* Carbon Tetrachloride	5	BRL
71-43-2	* Benzene	5	BRL
107-06-2	* 1,2-Dichloroethane	5	BRL
79-01-6	* Trichloroethene	5	BRL
78-87-5	* 1,2-Dichloropropane	5	BRL
75-27-4	* Bromodichloromethane	5	BRL
110-75-8	* 2-Chloroethylvinylether	5	BRL
108-05-4	**Vinyl Acetate	10	BRL
10061-02-6	* Trans-1,3-Dichloropropene	5	BRL
108-10-1	**4-Methyl-2-Pentanone	10	BRL
108-88-3	* Toluene	5	BRL
10061-01-5	* cis-1,3-Dichloropropene	5	BRL
79-00-5	* 1,1,2-Trichloroethane	5	BRL
127-18-4	* Tetrachloroethene	5	BRL
591-78-6	**2-Hexanone	10	BRL
124-48-1	* Dibromochloromethane	5	BRL
108-90-7	* Chlorobenzene	5	BRL
100-41-4	* Ethylbenzene	5	BRL
1330-20-7	**Total Xylenes	5	BRL
100-42-5	**Styrene	5	BRL
75-25-2	* Bromoform	5	BRL
79-34-5	* 1,1,2,2-Tetrachloroethane	5	BRL
541-73-1	* 1,3-Dichlorobenzene	5	BRL
106-46-7	* 1,4-Dichlorobenzene	5	BRL
95-50-1	* 1,2-Dichlorobenzene	5	BRL

CAS #	Surrogate Compounds	Limits	%Recovery
17060-07-0	1,2-Dichloroethane-d4	84-132%	109%
2037-26-5	Toluene-d8	85-124%	104%
460-00-4	p-Bromofluorobenzene	74-116%	87%

* A Method 624 priority pollutant compound (Federal Register, 10/26/84)
** A compound on the U.S. EPA CLP Hazardous Substance List (HSL)
\# A compound added by Anametrix, Inc. BRL : Below reporting limit.

ORGANICS ANALYSIS DATA SHEET - EPA METHOD 624/8240
ANAMETRIX, INC. (408) 629-1132

Sample I.D. : JCO-104H TRAVEL BLANK
Matrix : WATER
Date sampled : 03-09-88
Date analyzed: 03-10-88
Dilution : NONE

Anametrix I.D. : 8803053-05
Analyst : ARL
Supervisor : BCS
Date released : 03-11-88
Instrument : F1

CAS #	Compound Name	Reporting Limit (ug/l)	Amount Found (ug/l)
74-87-3	* Chloromethane	10	BRL
75-01-4	* Vinyl Chloride	10	BRL
74-83-9	* Bromomethane	10	BRL
75-00-3	* Chloroethane	10	BRL
75-69-4	* Trichlorofluoromethane	5	BRL
75-35-4	* 1,1-Dichloroethene	5	BRL
76-13-1	# Trichlorotrifluoroethane	5	BRL
67-64-1	**Acetone	20	BRL
75-15-0	**Carbondisulfide	5	BRL
75-09-2	* Methylene Chloride	5	BRL
156-60-5	* Trans-1,2-Dichloroethene	5	BRL
75-34-3	* 1,1-Dichloroethane	5	BRL
78-93-3	**2-Butanone	20	BRL
156-59-2	* Cis-1,2-Dichloroethene	5	BRL
67-66-3	* Chloroform	5	BRL
71-55-6	* 1,1,1-Trichloroethane	5	BRL
56-23-5	* Carbon Tetrachloride	5	BRL
71-43-2	* Benzene	5	BRL
107-06-2	* 1,2-Dichloroethane	5	BRL
79-01-6	* Trichloroethene	5	BRL
78-87-5	* 1,2-Dichloropropane	5	BRL
75-27-4	* Bromodichloromethane	5	BRL
110-75-8	* 2-Chloroethylvinylether	5	BRL
108-05-4	**Vinyl Acetate	10	BRL
10061-02-6	* Trans-1,3-Dichloropropene	5	BRL
108-10-1	**4-Methyl-2-Pentanone	10	BRL
108-88-3	* Toluene	5	BRL
10061-01-5	* cis-1,3-Dichloropropene	5	BRL
79-00-5	* 1,1,2-Trichloroethane	5	BRL
127-18-4	* Tetrachloroethene	5	BRL
591-78-6	**2-Hexanone	10	BRL
124-48-1	* Dibromochloromethane	5	BRL
108-90-7	* Chlorobenzene	5	BRL
100-41-4	* Ethylbenzene	5	BRL
1330-20-7	**Total Xylenes	5	BRL
100-42-5	**Styrene	5	BRL
75-25-2	* Bromoform	5	BRL
79-34-5	* 1,1,2,2-Tetrachloroethane	5	BRL
541-73-1	* 1,3-Dichlorobenzene	5	BRL
106-46-7	* 1,4-Dichlorobenzene	5	BRL
95-50-1	* 1,2-Dichlorobenzene	5	BRL

CAS #	Surrogate Compounds	Limits	%Recovery
17060-07-0	1,2-Dichloroethane-d4	84-132%	115%
2037-26-5	Toluene-d8	85-124%	116%
460-00-4	p-Bromofluorobenzene	74-116%	94%

* A Method 624 priority pollutant compound (Federal Register, 10/26/84)
** A compound on the U.S. EPA CLP Hazardous Substance List (HSL)
\# A compound added by Anametrix, Inc. BRL : Below reporting limit.

ORGANICS ANALYSIS DATA SHEET - EPA METHOD 624/8240
ANAMETRIX, INC. (408) 629-1132

Sample I.D. : METHOD BLANK
Matrix : WATER
Date sampled : NA
Date analyzed: 03-10-88
Dilution : NONE

Anametrix I.D. : 1CB0310V001
Analyst : LM
Supervisor : BWS
Date released : 03-11-88
Instrument : F1

CAS #	Compound Name	Reporting Limit (ug/l)	Amount Found (ug/l)
74-87-3	* Chloromethane	10	BRL
75-01-4	* Vinyl Chloride	10	BRL
74-83-9	* Bromomethane	10	BRL
75-00-3	* Chloroethane	10	BRL
75-69-4	* Trichlorofluoromethane	5	BRL
75-35-4	* 1,1-Dichloroethene	5	BRL
76-13-1	# Trichlorotrifluoroethane	5	BRL
67-64-1	**Acetone	20	BRL
75-15-0	**Carbondisulfide	5	BRL
75-09-2	* Methylene Chloride	5	10
156-60-5	* Trans-1,2-Dichloroethene	5	BRL
75-34-3	* 1,1-Dichloroethane	5	BRL
78-93-3	**2-Butanone	20	BRL
156-59-2	* Cis-1,2-Dichloroethene	5	BRL
67-66-3	* Chloroform	5	BRL
71-55-6	* 1,1,1-Trichloroethane	5	BRL
56-23-5	* Carbon Tetrachloride	5	BRL
71-43-2	* Benzene	5	BRL
107-06-2	* 1,2-Dichloroethane	5	BRL
79-01-6	* Trichloroethene	5	BRL
78-87-5	* 1,2-Dichloropropane	5	BRL
75-27-4	* Bromodichloromethane	5	BRL
110-75-8	* 2-Chloroethylvinylether	5	BRL
108-05-4	**Vinyl Acetate	10	BRL
10061-02-6	* Trans-1,3-Dichloropropene	5	BRL
108-10-1	**4-Methyl-2-Pentanone	10	BRL
108-88-3	* Toluene	5	BRL
10061-01-5	* cis-1,3-Dichloropropene	5	BRL
79-00-5	* 1,1,2-Trichloroethane	5	BRL
127-18-4	* Tetrachloroethene	5	BRL
591-78-6	**2-Hexanone	10	BRL
124-48-1	* Dibromochloromethane	5	BRL
108-90-7	* Chlorobenzene	5	BRL
100-41-4	* Ethylbenzene	5	BRL
1330-20-7	**Total Xylenes	5	BRL
100-42-5	**Styrene	5	BRL
75-25-2	* Bromoform	5	BRL
79-34-5	* 1,1,2,2-Tetrachloroethane	5	BRL
541-73-1	* 1,3-Dichlorobenzene	5	BRL
106-46-7	* 1,4-Dichlorobenzene	5	BRL
95-50-1	* 1,2-Dichlorobenzene	5	BRL

CAS #	Surrogate Compounds	Limits	%Recovery
17060-07-0	1,2-Dichloroethane-d4	84-132%	101%
2037-26-5	Toluene-d8	85-124%	102%
460-00-4	p-Bromofluorobenzene	74-116%	87%

* A Method 624 priority pollutant compound (Federal Register, 10/26/84)
** A compound on the U.S. EPA CLP Hazardous Substance List (HSL)
\# A compound added by Anametrix, Inc. BRL : Below reporting limit.

CLP VOLATILE MATRIX SPIKE REPORT -- EPA METHOD 624
ANAMETRIX, INC. (408) 629-1132

Sample I.D. : JCO-104H V-3
Matrix : WATER
Date sampled : 03-09-88
Date analyzed : 03-10-88

Anametrix I.D. : 8803053
Analyst : LH
Supervisor : BLS
Date released : 03-11-88

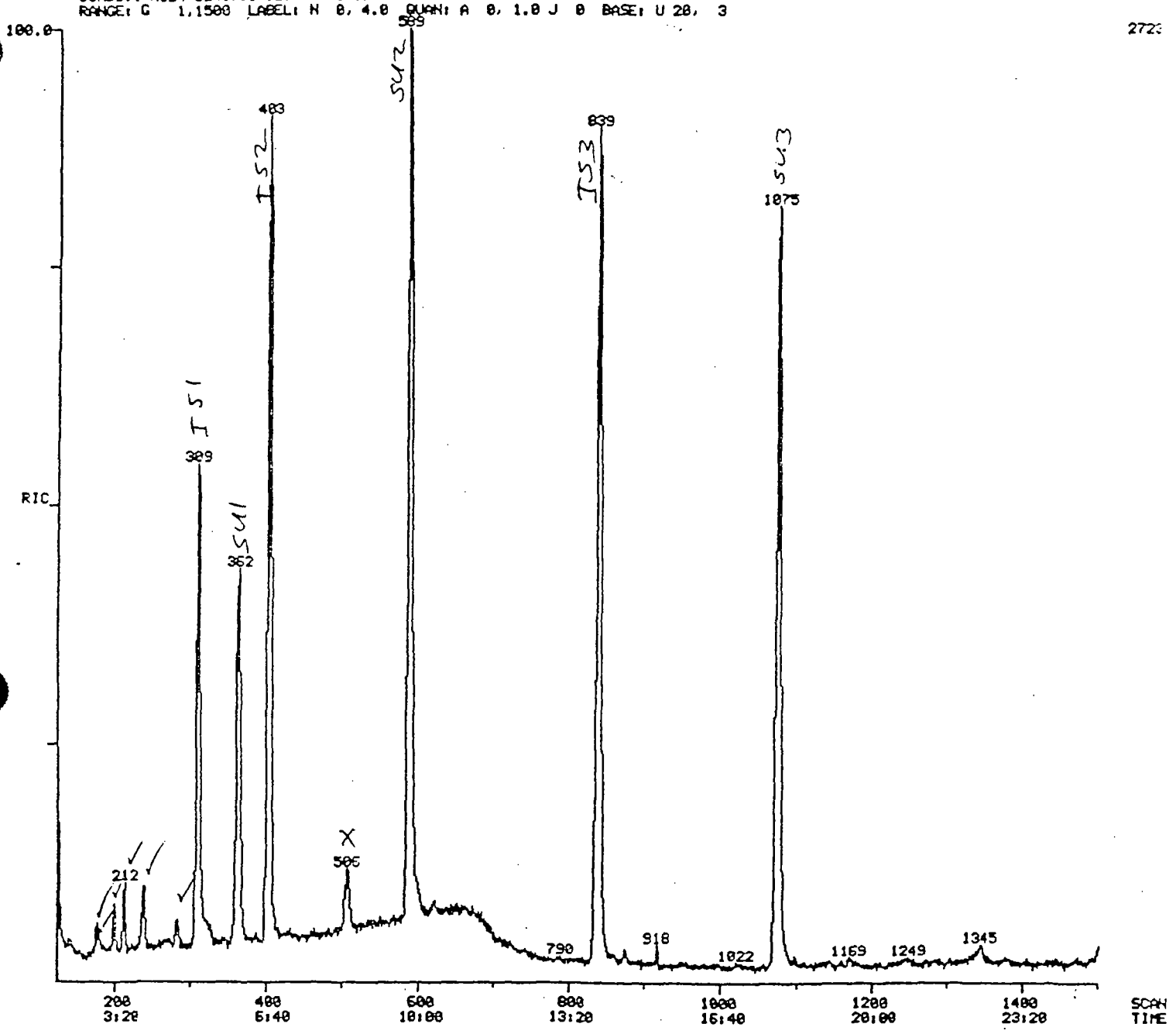
COMPOUND	SPIKE AMT. (UG/L)	8803053 MS (UG/L)	%REC MS	8803053 MSD (UG/L)	%REC MSD	RPD	%REC LIMITS*
1,1-DICHLOROETHENE	50	42	84%	41	82%	-2%	61-131%
FREON 113	50	59	118%	57	114%	-3%	52-150%
METHYLENE CHLORIDE	50	45	90%	43	86%	-5%	55-130%
CHLOROFORM	50	49	98%	47	94%	-4%	70-124%
1,1,1-TRICHLOROETHANE	50	48	96%	46	92%	-4%	69-130%
BENZENE	50	49	98%	45	90%	-9%	69-124%
1,2-DICHLOROETHANE	50	48	96%	44	88%	-9%	65-119%
TRICHLOROETHENE	50	43	86%	38	76%	-12%	61-106%
4-METHYL-2-PENTANONE	50	61	122%	53	106%	-14%	42-147%
TOLUENE	50	51	102%	49	98%	-4%	70-128%
CHLOROBENZENE	50	48	96%	45	90%	-6%	73-123%
1,2-DICHLOROBENZENE	50	46	92%	44	88%	-4%	50-110%

* Limits established by Anametrix, Inc.

RIC
03/10/88 17:54:00
SAMPLE: JCD-104 H ~~W3~~ V-3
CONDS.: M524/8240,35-120@4'/MIN.,VOCOL
RANGE: G 1,1500 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 1CU03053V01 #1 SCANS 125 TO 1500
CALI: CALTAB #2

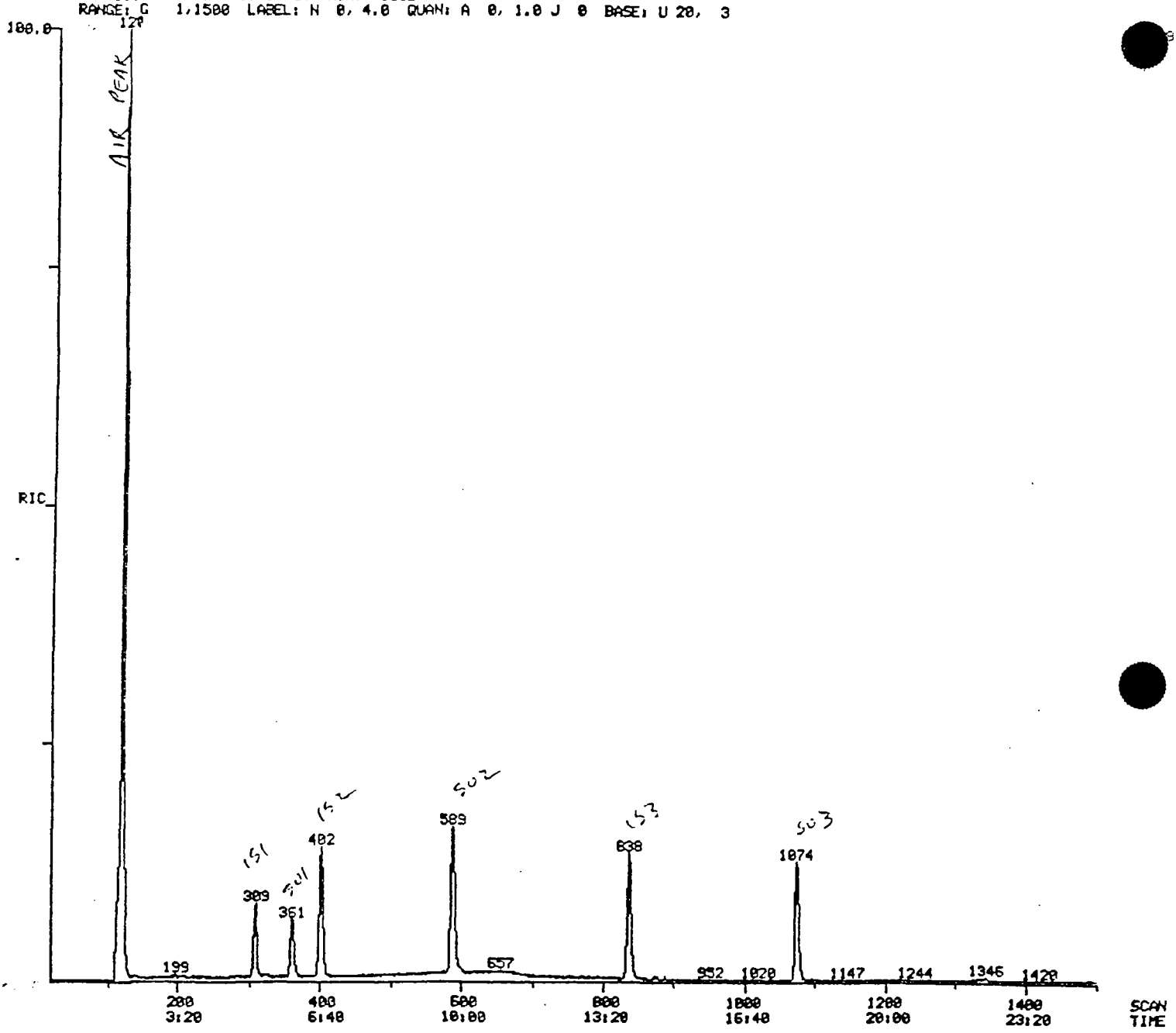
2723



RIC
03/10/88 15:55:00
SAMPLE: JCD-104H V-10
CONDS.: M624/0240.35-120@4'/MIN.,VOCOL
RANGE: G 1,1500 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

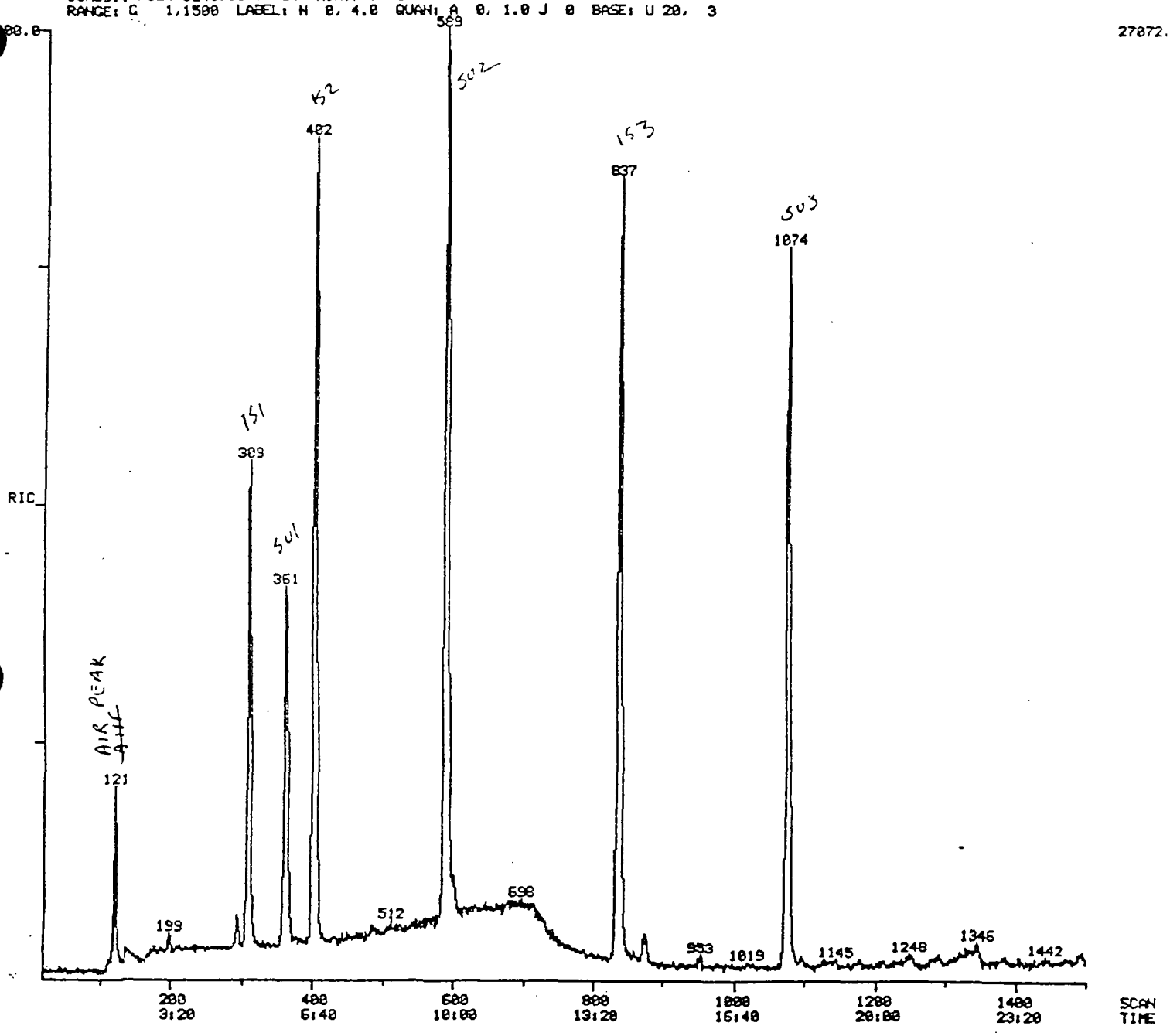
DATA: 1CU03053V04 #1
CALI: CALTAB #2

SCANS 20 TO 1500



RIC
03/18/88 15:25:00
SAMPLE: JCO-104 H METHOD BAILER 3-8-88
CONDS.: M624/8240,35-120@4'/MIN.,VOCOL
RANGE: G 1,1500 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

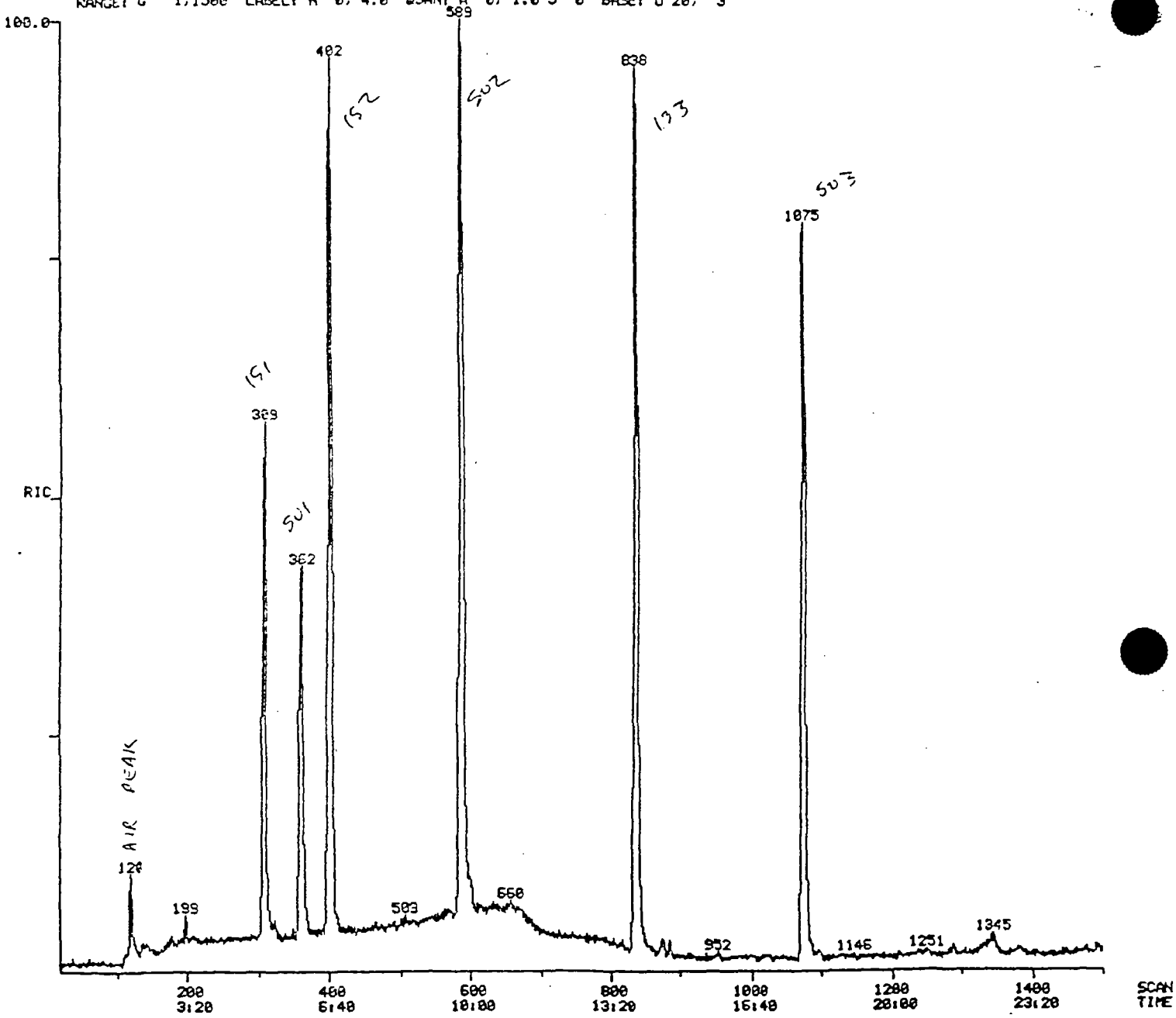
DATA: 1CU03053V02 #1 SCANS 20 TO 1500
CALI: CALTAB #2



RIC
03/10/88 16:25:00
SAMPLE: JCO-104H TRAVEL BLANK 3-8-88
CONDS.: M624/8240,35-12004'/MIN.,VOCOL
RANGE: G 1,1500 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 1CU03053V03 #1
CALI: CALTAB #2

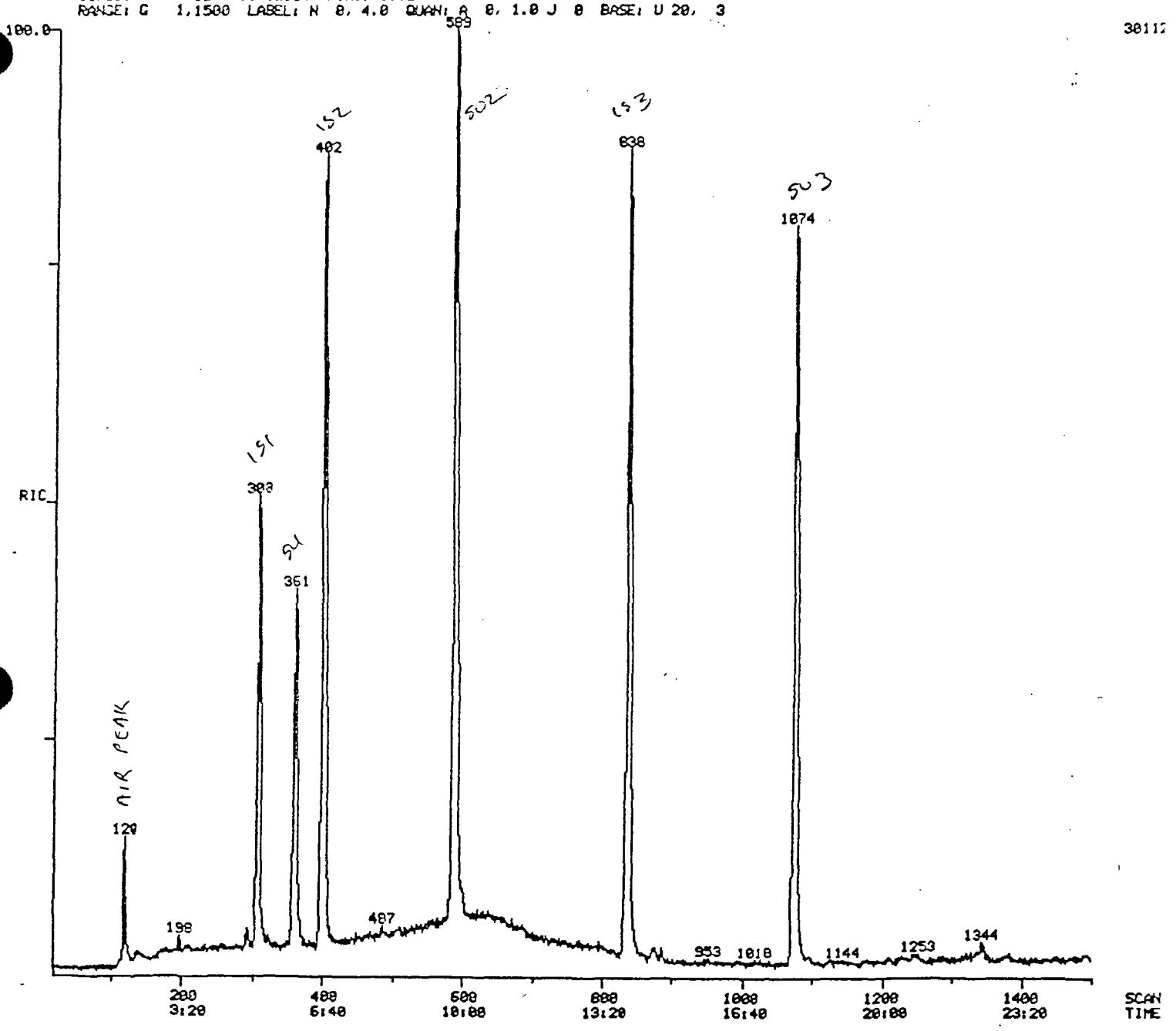
SCANS 20 TO 1500



RIC
03/10/88 16:55:00
SAMPLE: JCD-104H TRAVEL BLANK 3-9-88
CONDS.: MS24/8240,35-120@4'/MIN.,VOCOL
RANGE: G 1,1500 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

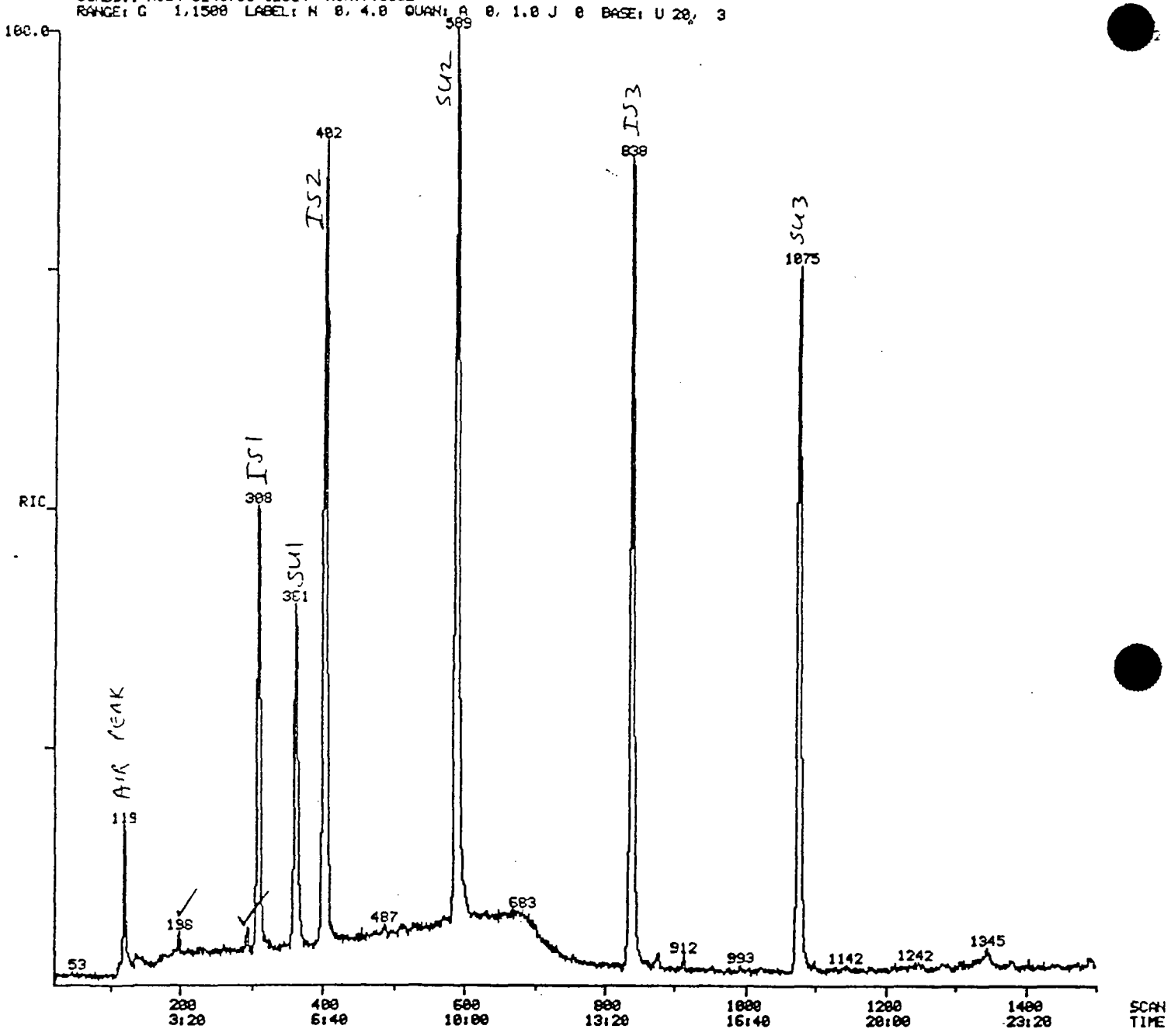
DATA: 1CU03053U05 #1
CALI: CALTAB #2

SCANS 20 TO 1500



METHOD BLANK

RIC
03/10/88 17:25:00 JW0-104H DATA: 1CU03053U06 #1 SCANS 20 TO 1500
CALI: CALTA0 #2
SAMPLE: ~~TRAVEL BLANK~~ 3-9-88
CONDS.: M524/8240,35-120@4'/MIN.,VOCOL
RANGE: G 1,1500 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/22/88
Date Received: 03/22/88
Date Analyzed: 03/24/88
Date Reported: 03/25/88

Project: #JCO-104H

Sample Number	Sample Description
8031566	Water, V-8

PRIORITY POLLUTANTS

PURGEABLE HALOCARBONS & AROMATICS
results in ppb

Benzene	< 0.5	1,2-Dichloropropane	< 0.5
Bromomethane	< 0.5	1,3-Dichloropropane	< 0.5
Bromodichloromethane	< 0.5	Ethylbenzene	< 0.5
Bromoform	< 0.5	Methylene chloride	< 0.5
Carbon tetrachloride	< 0.5	1,1,2,2-Tetrachloroethane	< 0.5
Chlorobenzene	< 0.5	Tetrachloroethene	< 0.5
Chloroethane	< 0.5	1,1,1-Trichloroethane	3.7
2-Chloroethylvinyl ether	< 0.5	1,1,2-Trichloroethane	< 0.5
Chloroform	< 0.5	Trichloroethene	< 0.5
Chloromethane	< 0.5	Toluene	< 0.5
Dibromochloromethane	< 0.5	Vinyl chloride	< 0.5
1,1-Dichloroethane	0.69	1,2-Dichlorobenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,3-Dichlorobenzene	< 0.5
1,1-Dichloroethene	0.65	1,4-Dichlorobenzene	< 0.5
trans-1,2-Dichloroethene	< 0.5		

Method of Analysis: EPA 8010/8020

SEQUOIA ANALYTICAL LABORATORY

Art Burton

Arthur G. Burton
Laboratory Director

SEQUOIA Analytical Laboratory
2549 Middlefield Road
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Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/22/88
Date Received: 03/22/88
Date Analyzed: 03/24/88
Date Reported: 03/25/88

Project: #JCO-104H

Sample Number	Sample Description
8031566	Water, V-8

NON-PRIORITY POLLUTANTS
PURGEABLE AROMATICS
results in ppb

Xylene	< 1
Methyl Ethyl Ketone	< 1
Methyl Isobutyl Ketone	< 1

Method of Analysis: EPA 8020

SEQUOIA ANALYTICAL LABORATORY

Scot Cocanour

Arthur G. Burton
Laboratory Director

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/22/88
Date Received: 03/22/88
Date Reported: 03/25/88
Project: #JCO-104H

Sample Number	Sample Description
8031566	Watern, V-8

ANALYSIS

Acetone, ppb	< 10
Turbidity, NTU	40

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/22/88
Date Received: 03/22/88
Date Analyzed: 03/24/88
Date Reported: 03/25/88

Project: #JCO-104H

Sample Number	Sample Description
8031567	Water, V-9

PRIORITY POLLUTANTS

PURGEABLE HALOCARBONS & AROMATICS
results in ppb

Benzene	< 0.5	1,2-Dichloropropane	< 0.5
Bromomethane	< 0.5	1,3-Dichloropropane	< 0.5
Bromodichloromethane	< 0.5	Ethylbenzene	< 0.5
Bromoform	< 0.5	Methylene chloride	< 0.5
Carbon tetrachloride	< 0.5	1,1,2,2-Tetrachloroethane	< 0.5
Chlorobenzene	< 0.5	Tetrachloroethene	< 0.5
Chloroethane	< 0.5	1,1,1-Trichloroethane	2.2
2-Chloroethylvinyl ether	< 0.5	1,1,2-Trichloroethane	< 0.5
Chloroform	< 0.5	Trichloroethene	< 0.5
Chloromethane	< 0.5	Toluene	< 0.5
Dibromochloromethane	< 0.5	Vinyl chloride	< 0.5
1,1-Dichloroethane	3.9	1,2-Dichlorobenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,3-Dichlorobenzene	< 0.5
1,1-Dichloroethene	< 0.5	1,4-Dichlorobenzene	< 0.5
trans-1,2-Dichloroethene	< 0.5		

Method of Analysis: EPA 8010/8020

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/22/88
Date Received: 03/22/88
Date Analyzed: 03/24/88
Date Reported: 03/25/88

Project: #JCO-104H

Sample Number	Sample Description
8031567	Water, V-9

NON-PRIORITY POLLUTANTS
PURGEABLE AROMATICS
results in ppb

Xylene	< 1
Methyl Ethyl Ketone	< 1
Methyl Isobutyl Ketone	< 1

Method of Analysis: EPA 8020

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/22/88
Date Received: 03/22/88
Date Reported: 03/25/88
Project: #JCO-104H

Sample Number	Sample Description
8031567	Water, V-9

ANALYSIS

Acetone, ppb	< 10
Turbidity, NTU	130

SEQUOIA ANALYTICAL LABORATORY

Scot Cocanour

Arthur G. Burton
Laboratory Director

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/22/88
Date Received: 03/22/88
Date Analyzed: 03/24/88
Date Reported: 03/25/88

Project: #JCO-104H

Sample Number	Sample Description
8031568	Water, V-10

PRIORITY POLLUTANTS

PURGEABLE HALOCARBONS
results in ppb

Bromomethane	< 0.5	1,2-Dichloropropane	< 0.5
Bromodichloromethane	< 0.5	1,3-Dichloropropene	< 0.5
Bromoform	< 0.5	Methylene chloride	< 0.5
Carbon Tetrachloride	< 0.5	1,1,2,2-Tetrachloroethane	< 0.5
Chloroethane	< 0.5	Tetrachloroethene	< 0.5
2-Chloroethylvinyl ether	< 0.5	1,1,1-Trichloroethane	0.96
Chloroform	< 0.5	1,1,2-Trichloroethane	< 0.5
Chloromethane	< 0.5	Trichloroethene	< 0.5
Dibromochloromethane	< 0.5	Vinyl chloride	< 0.5
1,1-Dichloroethane	< 0.5	1,2-Dichlorobenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,3-Dichlorobenzene	< 0.5
1,1-Dichloroethene	< 0.5	1,4-Dichlorobenzene	< 0.5
trans-1,2-Dichloroethene	< 0.5		

Method of Analysis: EPA 8010

SEQUOIA ANALYTICAL LABORATORY

Scot Cocanour

Arthur G. Burton
Laboratory Director

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/22/88
Date Received: 03/22/88
Date Reported: 03/25/88

Project: #JCO-104H

TOTAL PETROLEUM HYDROCARBONS

Sample Number	Sample Description	Detection Limit ppb	(Diesel) High Boiling Point Hydrocarbons ppb
	Water,		
8031568	V-10	50	< 50

Method of Analysis: EPA 3510/8015

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Attn: Bob Breynaert

Date Sampled: 03/22/88
Date Received: 03/22/88
Date Reported: 03/25/88

Project: #JCO-104H

BTX DISTINCTION

Sample Number	Sample Description
8031568	Water, V-10

	Detection Limit ppb	Sample Results ppb
Benzene	0.5	< 0.5
Toluene	0.5	< 0.5
Xylenes	0.5	< 0.5

Method of Analysis: EPA 5030/602

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Date Sampled: 03/22/88
Date Received: 03/22/88
Date Reported: 03/25/88
Project: #JCO-104H

Sample Number	Sample Description
8031568	Water, V-10

ANALYSIS

Turbidity, NTU	660

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Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/22/88
Date Received: 03/22/88
Date Reported: 03/25/88
Project: #JCO-104H

Q.C. DATA REPORT

Analyst: M. Giles
Date of Analysis: 3/24/88
Method of Analysis: EPA 8010/8020
Detection Limit: 0.5
Units: ppb

Sample Number	Analyte	Original Result	Duplicate Result	% Deviation
8031568	111TCA	0.96	0.74	13

Sample Number	Analyte	Sample Contribution	Spike Added	Spike Result	% Recovery
8031567	111TCA	2.2	2.0	4.1	95

SEQUOIA ANALYTICAL LABORATORY

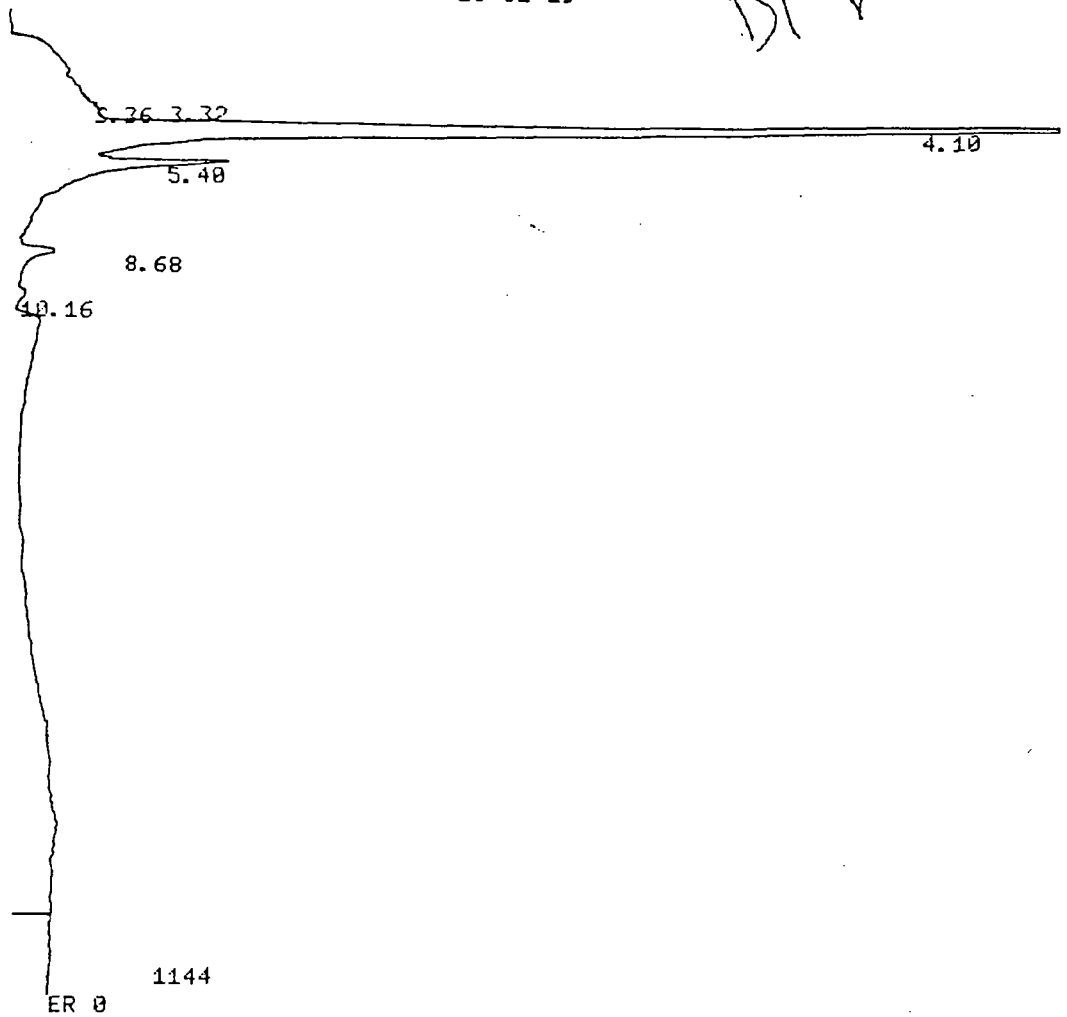
Scot Cocanour

Arthur G. Burton
Laboratory Director

1	0.	19.84	23128 01
TOTALS	0.		23128

CHANNEL A INJECT 15:51:19

DI Blank



HALL 15:51:19 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 16 INDEX 1

ANALYST: MRG

NAME	PPB	RT	AREA BC	RF
1	0.	3.32	464123 02	
2	0.	3.36	2489 03	
3	0.	4.1	6545925 08	
4	0.	5.4	624568 05	
5	0.	8.68	163105 01	
6	0.	10.16	44799 03	
TOTALS	0.		7845009	

INPUT OVERRANGE AT RT= 5.38

PID 15:51:19 CH= "B" PS= 1.

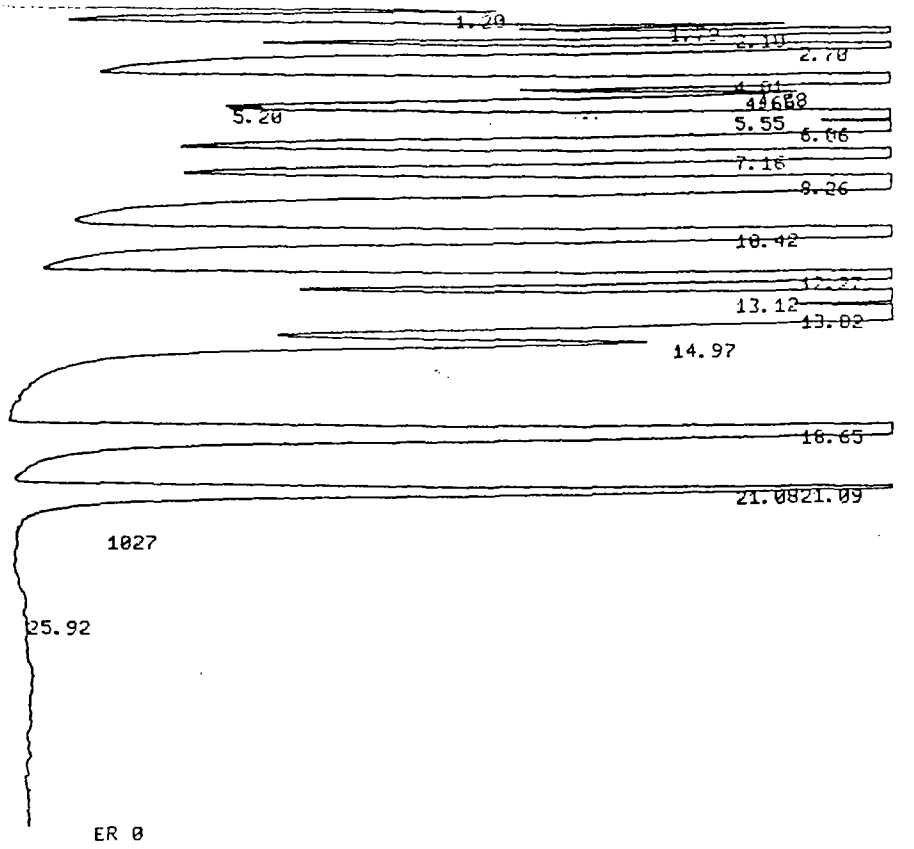
FILE 1. METHOD 5. RUN 5 INDEX 1

ANALYST: MRG

NAME	PPB	RT	AREA BC	RF
TOTALS	0.			

070

071



074

HALL 18:05:07 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 19 INDEX 1

ANALYST: MRG

NAME	PPB	RT	AREA	BC	RF
1	0.	1.2	2137932	02	
2	0.	1.79	3001376	02	
3	0.	2.1	8418832	02	
4	0.	2.7	10158507	02	
5	0.	4.01	19730943	02	
6	0.	4.58	2476282	02	
7	0.	4.66	3870282	02	
8	0.	5.2	450562	02	
9	0.	5.55	13968850	02	
10	0.	6.06	17539326	02	
11	0.	7.16	16956552	02	
12	0.	8.26	31691026	08	
13	0.	10.42	19163859	05	
14	0.	12.27	12954797	06	
15	0.	13.12	17161546	06	
16	0.	13.82	23935950	06	
17	0.	14.97	6167616	07	
18	0.	18.65	20355173	01	
19	0.	21.08	2603766	02	
20	0.	21.09	4336822	03	
21	0.	25.92	701809	01	
TOTALS	0.		237781808		

075

INPUT OVERRANGE AT RT= 5.23

PID 18:05:07 CH= "B" PS= 1.

FILE 1. METHOD 5. RUN 8 INDEX 1

ANALYST: MRG

NAME	PPB	RT	AREA	BC	RF
1	0.	5.97	62116	01	
2	0.	8.05	50216	01	
3	0.	8.94	25711	01	
4	0.	10.3	112771	01	
5	0.	13.	74869	01	
6	0.	14.88	41935	01	
7	0.	18.52	69009	01	
8	0.	19.84	45337	01	
9	0.	20.94	162634	01	
10	0.	25.42	469907	01	
TOTALS	0.		[illegible]		

5ppb Purge A & C

PID 23:05:37 CH= "B" PS= 1.

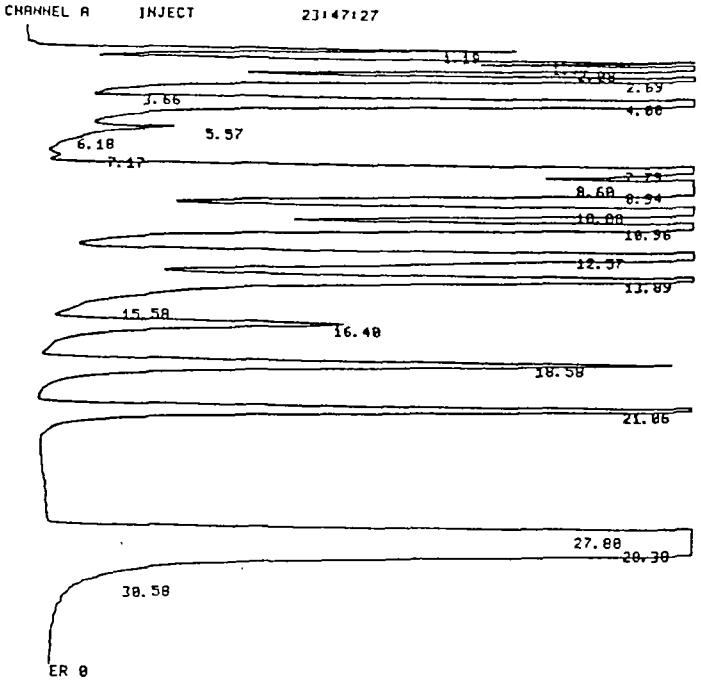
FILE 1. METHOD 5. RUN 15 INDEX 1

ANALYST: MRO

NAME	PPB	RT	AREA	BC	RF
1	0.	0.62	181287	01	
TOTALS	0.		181287		

5ppb B, C DCB's Aromatics

CHANNEL A INJECT 23:47:27



085

HALL 23:47:27 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 27 INDEX 1

ANALYST: MRG

NAME	PPB	RT	AREA	BC	RF
1	0.	1.18	2575486	02	
2	0.	1.77	3422314	02	
3	0.	2.08	9132683	02	
4	0.	2.69	10001204	02	
5	0.	3.66	180222	02	
6	0.	4.	22595100	08	
7	0.	5.57	525706	06	
8	0.	6.18	28655	07	
9	0.	7.17	65430	06	
10	0.	7.79	15481135	06	
11	0.	8.6	11995484	06	
12	0.	8.94	18431518	06	
13	0.	10.08	18071113	06	
14	0.	10.96	13832579	06	
15	0.	12.57	16866074	06	
16	0.	13.89	11298059	06	
17	0.	15.58	221976	06	
18	0.	16.4	3445170	07	
19	0.	18.58	6593030	01	
20	0.	21.06	7478867	01	
21	0.	27.8	16836773	02	
22	0.	28.38	56619623	08	
23	0.	30.58	740	05	
TOTALS	0.		245698861		

INPUT OVERRANGE AT RT= 5.58

PID 23:47:27 CH= "B" PS= 1.

FILE 1. METHOD 5. RUN 16 INDEX 1

ANALYST: MRG

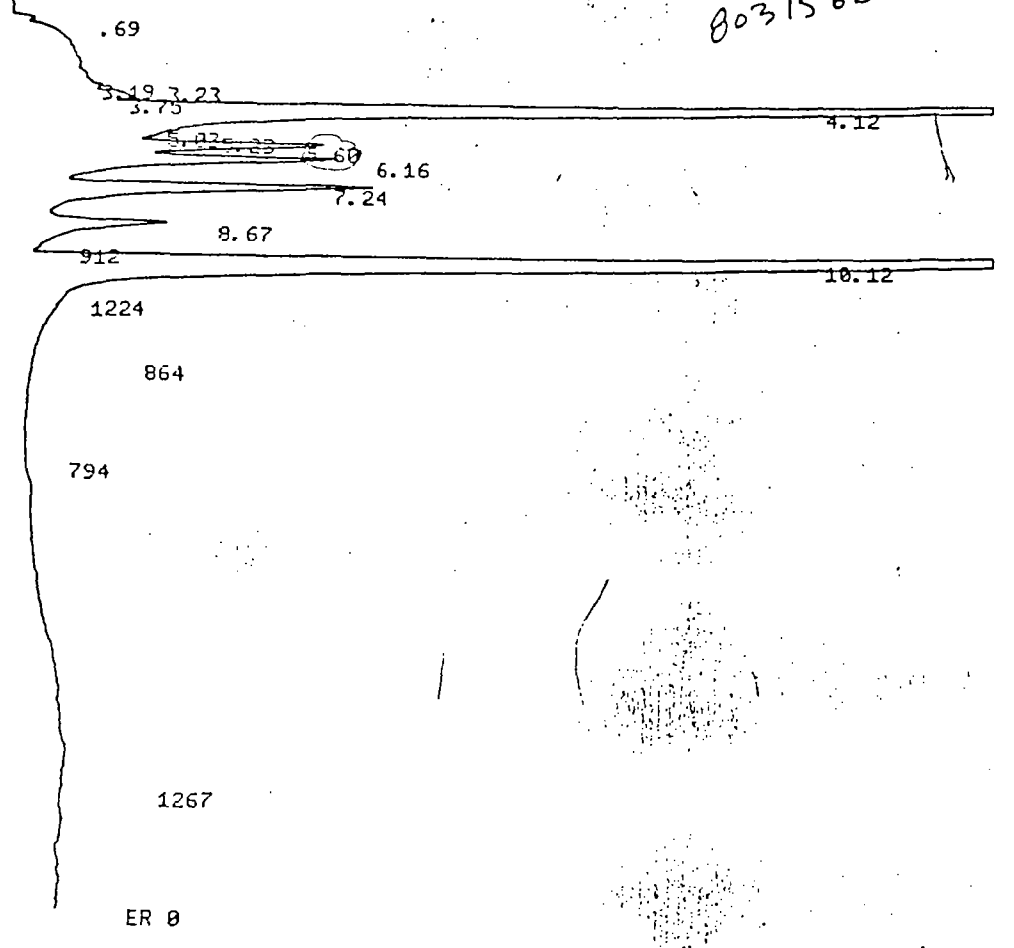
NAME	PPB	RT	AREA	BC	RF
1	0.	0.46	3476	01	
2	0.	7.66	156130	02	
3	0.	8.04	115964	03	
4	0.	8.94	32740	01	
5	0.	10.29	154882	01	
6	0.	11.06	33339	01	
7	0.	12.56	105764	01	
8	0.	13.48	424704	01	
9	0.	14.93	243325	01	
10	0.	19.81	827225	01	
11	0.	20.93	177727	01	
12	0.	22.68	414045	01	
13	0.	24.46	50924	02	
14	0.	25.42	172116	02	
15	0.	25.9	116828	03	
16	0.	27.65	324296	02	
17	0.	28.72	607214	03	
18	0.	31.55	752816	01	
TOTALS	0.		4713515		

086

1. 0. 0.

CHANNEL A INJECT 13:42:48

5ml
8031566



HALL 13:42:48 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 13 INDEX 1

ANALYST: MRG

NAME	PPB	RT	AREA	BC	RF
1	0.	0.69	80128	02	
2	0.	3.19	2022276	02	
3	0.	3.23	309699	02	
4	0.	3.75	696835	02	
5	0.	4.12	10574251	02	
6	0.	5.03	354510	02	
7	0.	5.23	448490	02	
8	0.	5.6	1727202	02	
9	0.	6.16	2280638	02	
10	0.	7.24	2347790	02	
11	0.	8.67	1013781	02	
12	0.	10.12	13462734	03	
TOTALS	0.		35318334		

INPUT OVERRANGE AT RT= 5.54

PID 13:42:49 CH= "B" PS= 1.

FILE 1. METHOD 5. RUN 2 INDEX 1

ANALYST: MRG

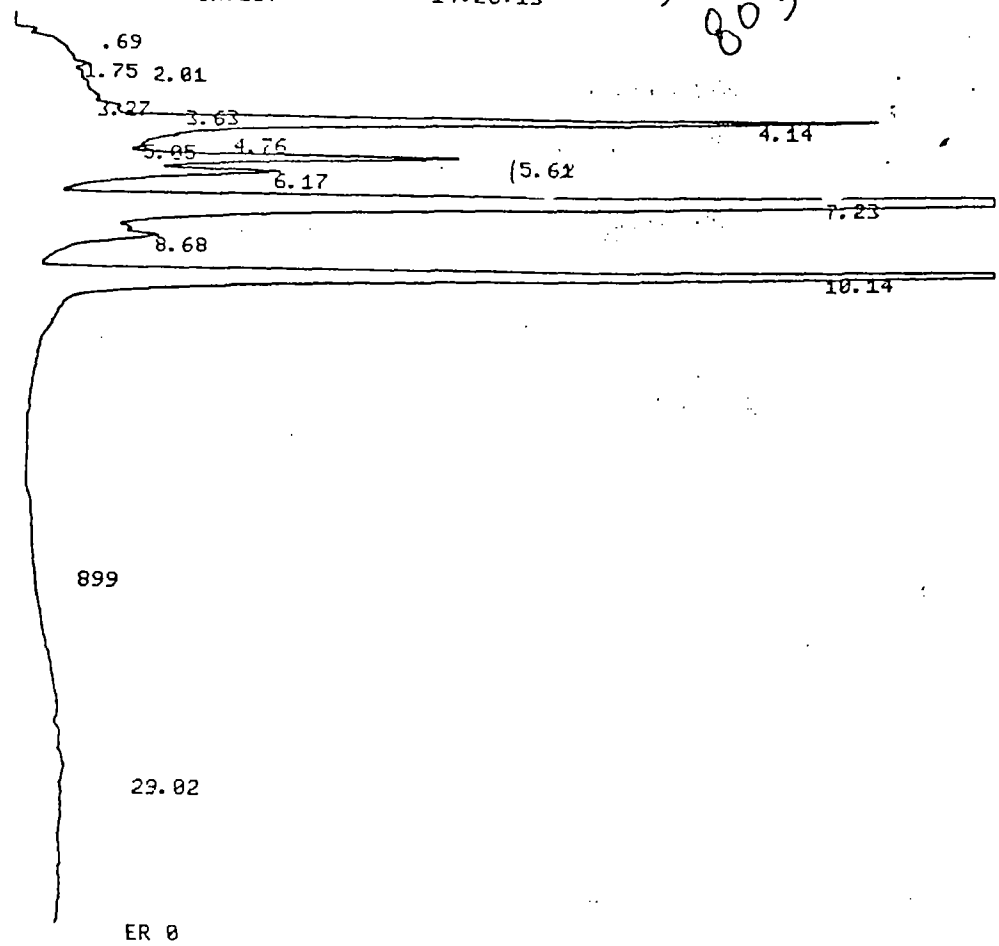
NAME	PPB	RT	AREA	BC	RF
1	0.	0.6	202677	01	
TOTALS	0.		202677		

5ml
8031567

CHANNEL A INJECT 14:26:13

5ml 8031567

CHANNEL A INJECT 14:26:13



068

HALL 14:26:13 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 14 INDEX 1

ANALYST: MRG

NAME	PPB	RT	AREA	BC	RF
1	0.	0.69	50615	02	
2	0.	1.75	385199	02	
3	0.	2.01	117211	02	
4	0.	3.27	165498	02	
5	0.	3.63	91585	02	
6	0.	4.14	3789157	02	
7	0.	4.76	116198	02	
8	0.	5.05	5589	03	
9	0.	5.61	1492396	02	
10	0.	6.17	904599	03	
11	0.	7.23	13222277	08	
12	0.	8.68	338900	05	
13	0.	10.14	7804349	01	
14	0.	29.02	223644	01	
TOTALS	0.		28707217		

INPUT OVERRANGE AT RT= 5.57

PID 14:26:13 CH= "B" PS= 1.

FILE 1. METHOD 5. RUN 3 INDEX 1

ANALYST: MRG

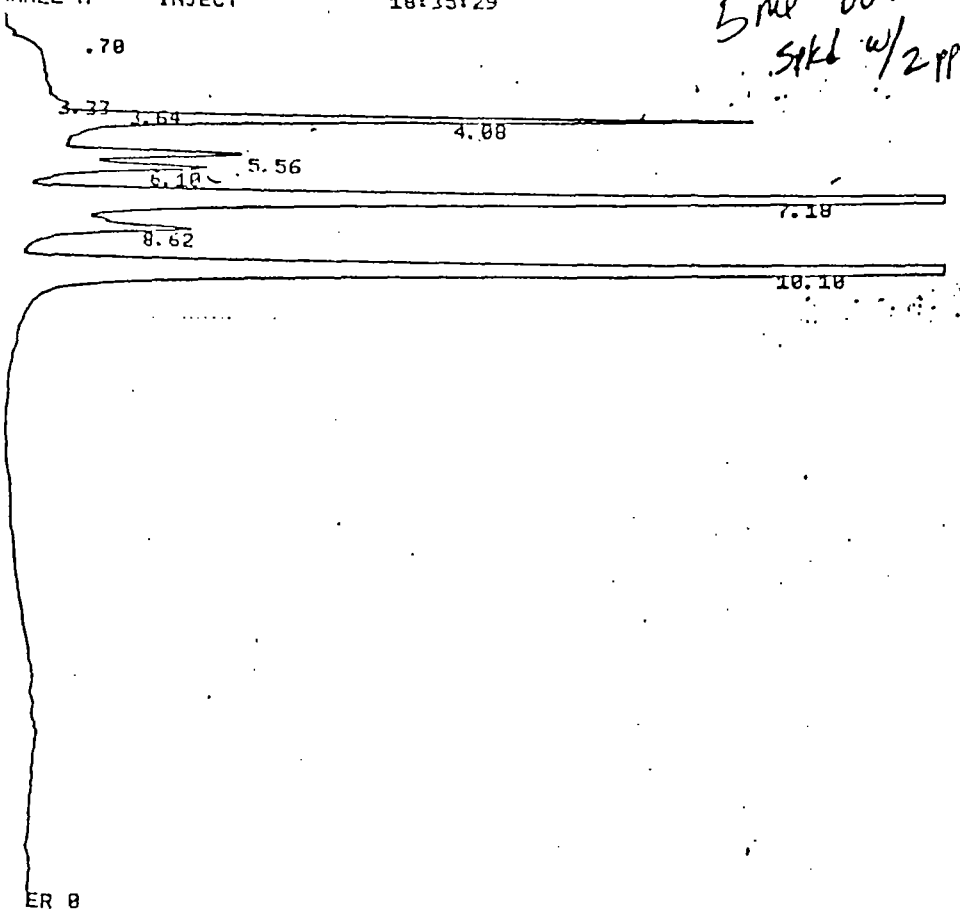
NAME	PPB	RT	AREA	BC	RF
1	0.	0.6	248718	01	
TOTALS	0.		248718		

50ml -11

CHANNEL A INJECT 15:08:05

5ml 8031567
Spkd w/2 ppb 111TCB

CHANNEL A INJECT 18:35:29



112

HALL 18:35:29 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 46 INDEX 1

ANALYST: MRG

NAME	PPB	RT	AREA	BC	RF
1	0.	0.7	32771	02	
2	0.	3.33	1300989	02	
3	0.	3.64	379508	02	
4	0.	4.08	5730132	08	
5	0.	5.56	910166	06	
6	0.	6.1	877760	06	
7	0.	7.18	12435374	06	
8	0.	8.62	1405389	06	
9	0.	10.1	14765190	07	
TOTALS	0.		37837279		

INPUT OVERRANGE AT RT= 5.49

PID 18:35:29 CH= "B" PS= 1.

FILE 1. METHOD 5. RUN 35 INDEX 1

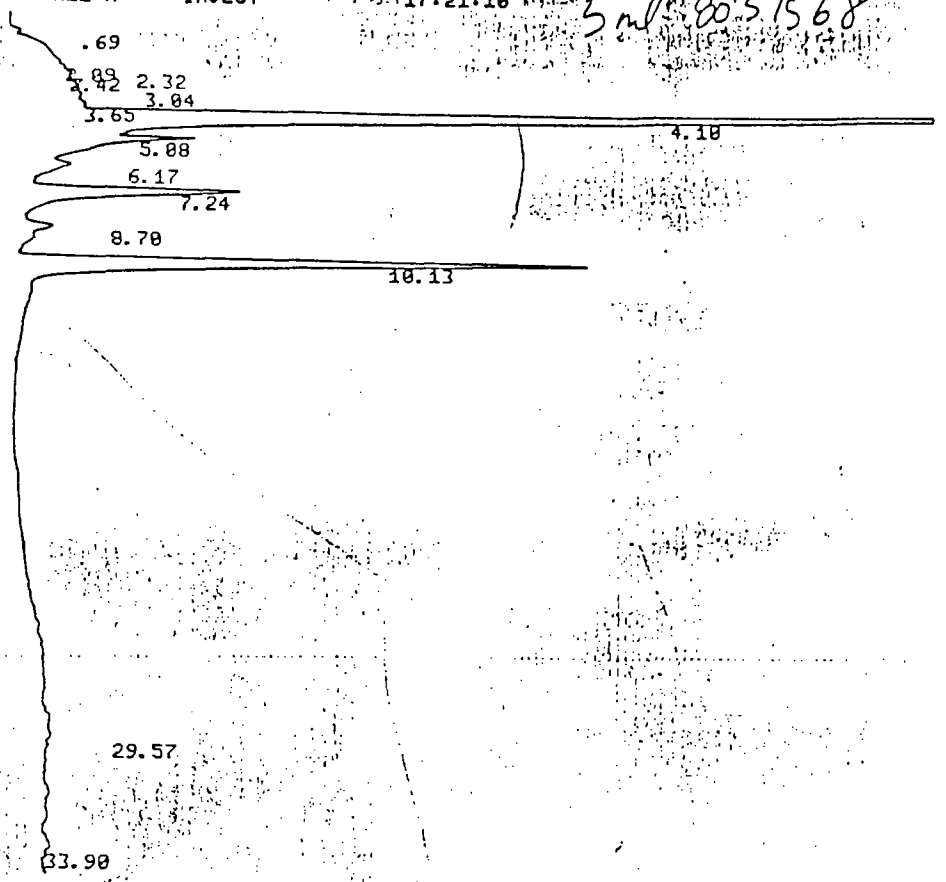
ANALYST: MRG

NAME	PPB	RT	AREA	BC	RF
1	0.	0.6	238358	01	
2	0.	8.99	20982	01	
3	0.	16.85	45675	01	
4	0.	19.84	20202	01	
5	0.	22.72	366454	02	
6	0.	25.44	517236	03	
TOTALS	0.		1208907		

113

NAME	PPB	RT	AREA BC	RF
TOTALS	0.			

CHANNEL A INJECT 17:21:10 5ml 803 1568



HALL 17:21:10 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 18 INDEX 1

ANALYST: MRG

NAME	PPB	RT	AREA BC	RF
1	0.	0.69	42723 02	
2	0.	2.09	713911 02	
3	0.	2.32	193963 02	
4	0.	2.42	336376 02	
5	0.	3.04	944312 02	
6	0.	3.65	321810 02	
7	0.	4.1	8048346 02	
8	0.	5.08	1509497 02	
9	0.	6.17	554989 02	
10	0.	7.24	1565330 02	
11	0.	8.7	350930 02	
12	0.	10.13	3465279 03	
13	0.	29.57	84147 01	
14	0.	33.9	61979 01	
TOTALS	0.		18193592	

INPUT OVERRANGE AT RT= 5.07

PID 17:21:11 CH= "B" PS= 1.

FILE 1. METHOD 5. RUN 7 INDEX 1

ANALYST: MRG

NAME	PPB	RT	AREA BC	RF
1	0.	0.6	235296 01	
TOTALS	0.		235296	

5ppb AC

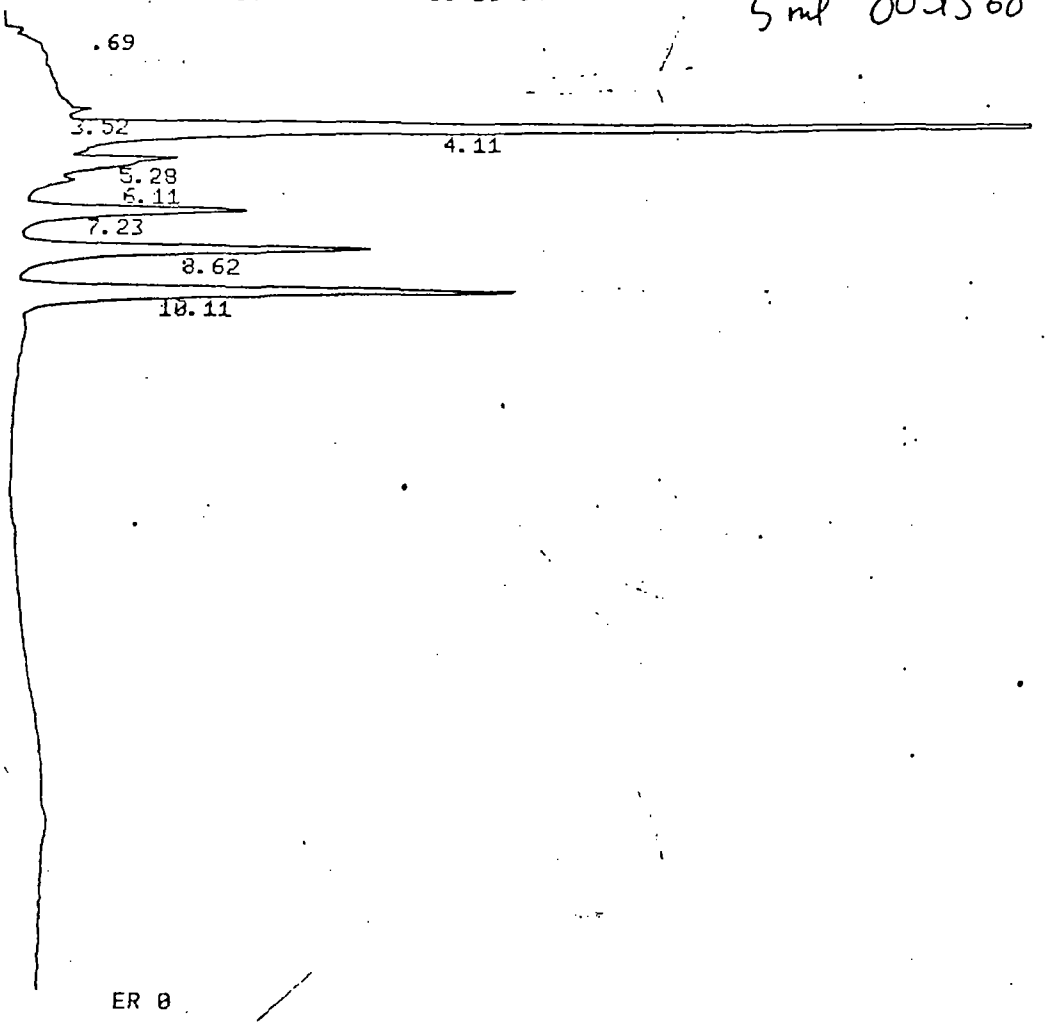
CHANNEL A INJECT 18:05:07

073

TOTALS 0. 274090

#9
5ml 803568

CHANNEL A INJECT 06:36:54



HALL 06:36:54 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 36 INDEX 1

ANALYST: MRG

NAME	PPB	RT	AREA	BC	RF
1	0.	0.69	33155	03	
2	0.	3.52	502947	02	
3	0.	4.11	6279501	02	
4	0.	5.28	1021663	02	
5	0.	6.11	221404	02	
6	0.	7.23	1140010	08	
7	0.	8.62	1884795	06	
8	0.	10.11	2658014	07	
TOTALS	0.		13741489		

INPUT OVERRANGE AT RT= 5.33

PID 06:36:54 CH= "B" PS= 1.

FILE 1. METHOD 5. RUN 25 INDEX 1

ANALYST: MRG

NAME	PPB	RT	AREA	BC	RF
1	0.	0.51	26132	02	
2	0.	0.61	250166	03	
3	0.	18.88	41818	01	
TOTALS	0.		318116		

#10

097

098

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/22/88
Date Received: 03/22/88
Date Reported: 03/25/88
Project: #JCO-104H

Q.C. DATA REPORT

Analyst: G. Brock
Date of Analysis: 3/24/88
Method of Analysis: Alcohols by G.C.
Detection Limit: 10
Units: ppb

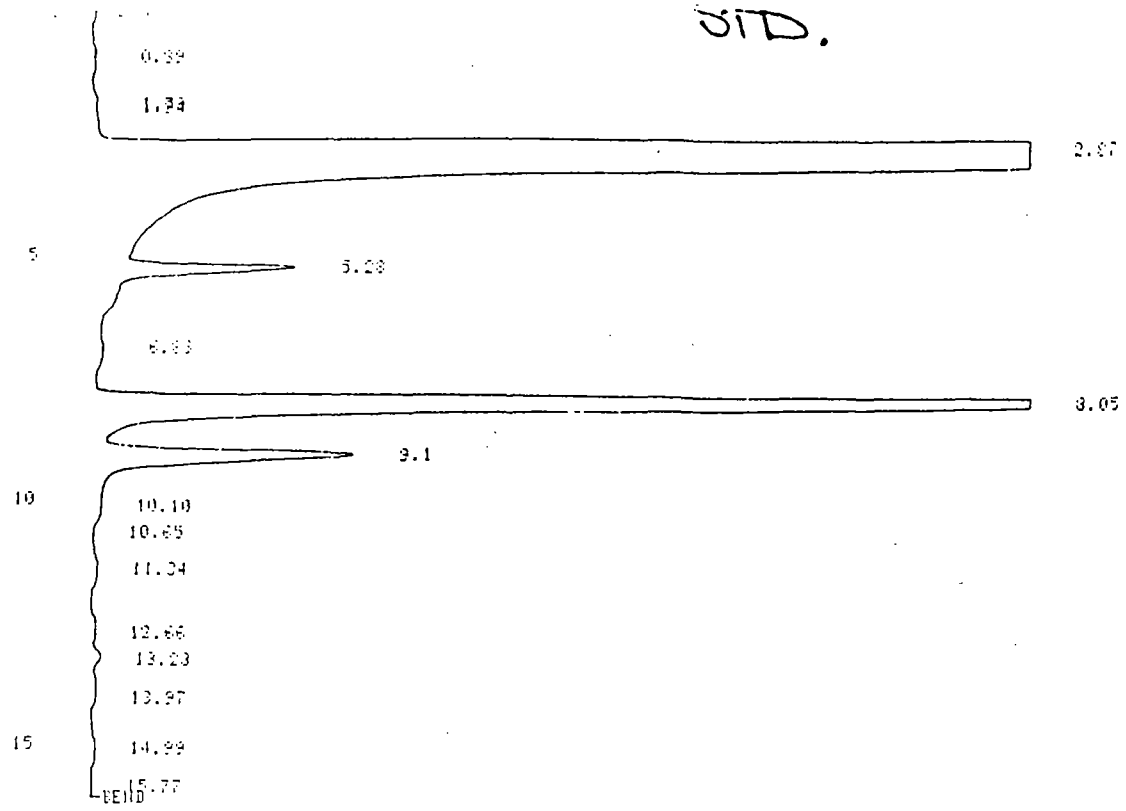
Sample Number	Analyte	Original Result	Duplicate Result	% Deviation
8031566	Acetone	< 10	< 10	0.0

Sample Number	Analyte	Sample Contribution	Spike Added	Spike Result	% Recovery
8031566	Acetone	< 10	200	205	103

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

JID.



RUN 4 9:42 88/03/24

METHOD 3 MODIFIED CALCULATION: %

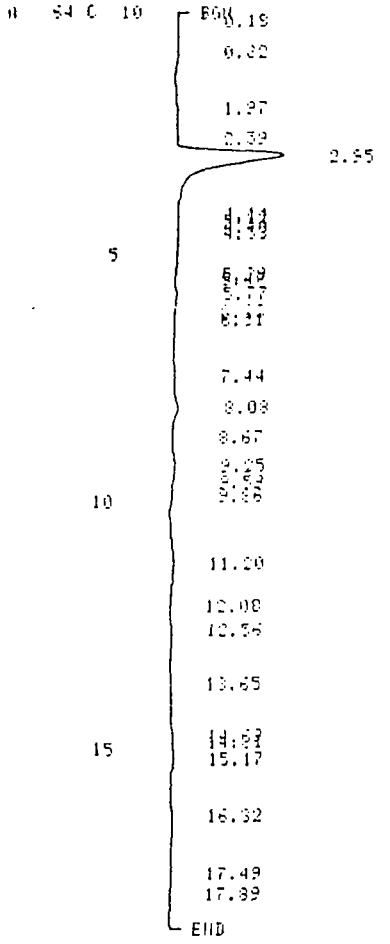
RT	AREA	BC	AREA %
0.89	0.9659	V	0.0521
1.79	0.4815	T	0.0260
1.84	0.1521	T	0.0082
2.87	1625.5743	T	87.8290
5.28	25.0283	T	1.3530
6.88	2.6743	T	0.1444
8.05	157.9862	T	8.5359
9.13	31.1696	T	1.6840
10.10	1.2814	T	0.0692
10.65	0.0319	V	0.0017
11.34	0.8176	V	0.0441
12.66	0.9804	T	0.0529
13.23	1.2330	T	0.0666
13.97	1.2219	T	0.0660
14.99	0.9261	T	0.0500
15.77	0.1138		0.0061

16 PEAKS > AREA/HT REJECT

Bmb # 8031566

RUN 1 11:02 88/03/24

METHOD 5 MODIFIED



RUN 1 11:02 88/03/24

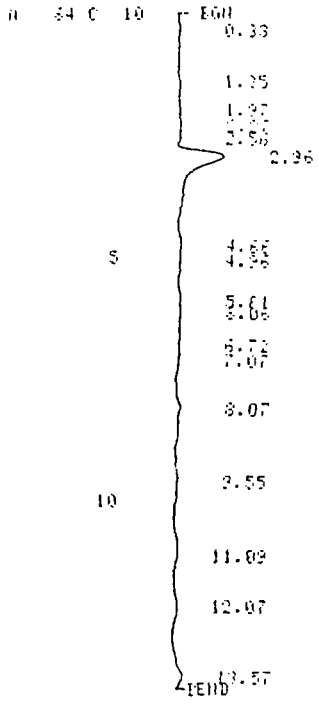
METHOD 5 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
0.18	0.0475	V	0.1366
0.82	0.2894	V	0.8326
1.97	0.0875	V	0.2518
2.39	0.1236	V	0.3555
2.95	26.6473	V	76.6474
4.14	0.0230	V	0.0661
4.22	0.0090	V	0.0260
4.40	0.0118	V	0.0341
4.53	0.1632	V	0.4696
5.36	0.0204	V	0.0587
5.47	0.0116	V	0.0334
5.77	0.3943	V	1.1344
6.13	0.0131	V	0.0377
6.31	0.2745	V	0.7897
7.44	0.0316	V	0.0908
8.08	1.3125	V	3.7754
8.67	0.0341	V	0.0983
9.25	0.5824	V	1.6757
9.59	0.0085	V	0.0244
9.86	0.3713	V	1.0683
11.20	2.9529	V	8.4937
12.08	0.0069	V	0.0200
12.56	1.2076	V	3.4736
13.65	0.1404		0.4039

24 PEAKS > AREA/HT REJECT

METHOD 5 MODIFIED

Emls # 8031567



RUN 2 11:51 88/03/24

METHOD 5 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
0.33	0.7034	V	2.7645
1.35	0.2077	V	0.8106
1.97	0.0380	V	0.1486
2.27	0.0960	V	0.3746
2.56	0.1087	V	0.4242
2.96	14.8120	V	57.7963
4.66	0.1632	V	0.6370
4.96	0.2344	V	0.9148
6.06	0.0945	V	0.3690
6.72	0.0256	V	0.1002
7.07	0.4047	V	1.5794
8.07	2.1947	V	8.5688
9.55	1.4004	V	5.4646
11.09	1.6133	V	6.2950
12.07	1.2358	V	4.8220
13.57	2.2897		8.9345

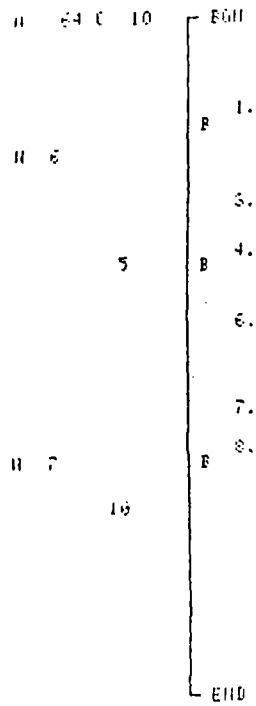
16 PEAKS > AREA/HT REJECT

21 PEAKS > AREA/HT REJECT

Sinks # 8031566 (Dup).

RUN 4 12:49 88/03/24

METHOD 5 MODIFIED



RUN 4 12:49 88/03/24

METHOD 5 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
1.79	0.0202		9.2393
3.57	0.0405	V	20.0017
4.57	0.0266		13.1331
6.02	0.0617	V	30.4080
7.72	0.0299	V	14.7202
8.64	0.0238		11.7484

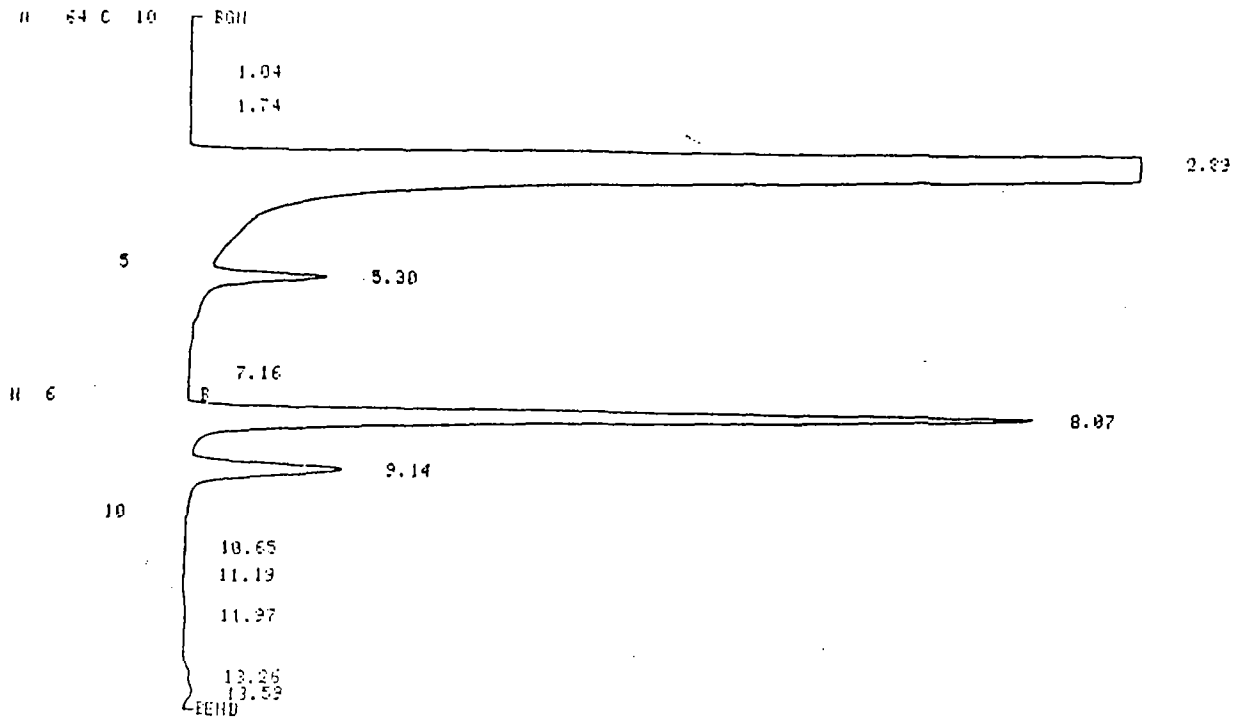
6 PEAKS > AREA/HT REJECT

21 PEAKS > AREA/HT REJECT

5mls # 8031566 xsp.

RUN 6 13:59 88/03/24

METHOD 5 MODIFIED



RUN 6 13:59 88/03/24

METHOD 5 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
1.04	0.1687	V	0.0066
1.74	0.1624	V	0.0063
2.89	2381.7635	V	91.6708
5.30	15.3502	V	0.6034
7.16	0.2981		0.0117
8.07	162.2553	V	6.3788
9.14	31.1985	V	1.2242
10.65	0.2985	V	0.0117
11.19	0.1031	V	0.0040
11.97	0.8222	V	0.0323
13.26	0.0663	V	0.0026
13.59	1.1782		0.0463

12 PEAKS > AREA/HT REJECT

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/22/88
Date Received: 03/22/88
Date Reported: 03/25/88
Project: #JCO-104H

Q.C. DATA REPORT

Analyst: G. Brock
Date of Analysis: 3/24/88
Method of Analysis: EPA 3510/8015
Detection Limit: 50
Units: ppb

Sample Number	Analyte	Original Result	Duplicate Result	% Deviation
8031568	Diesel	< 50	< 50	0.0

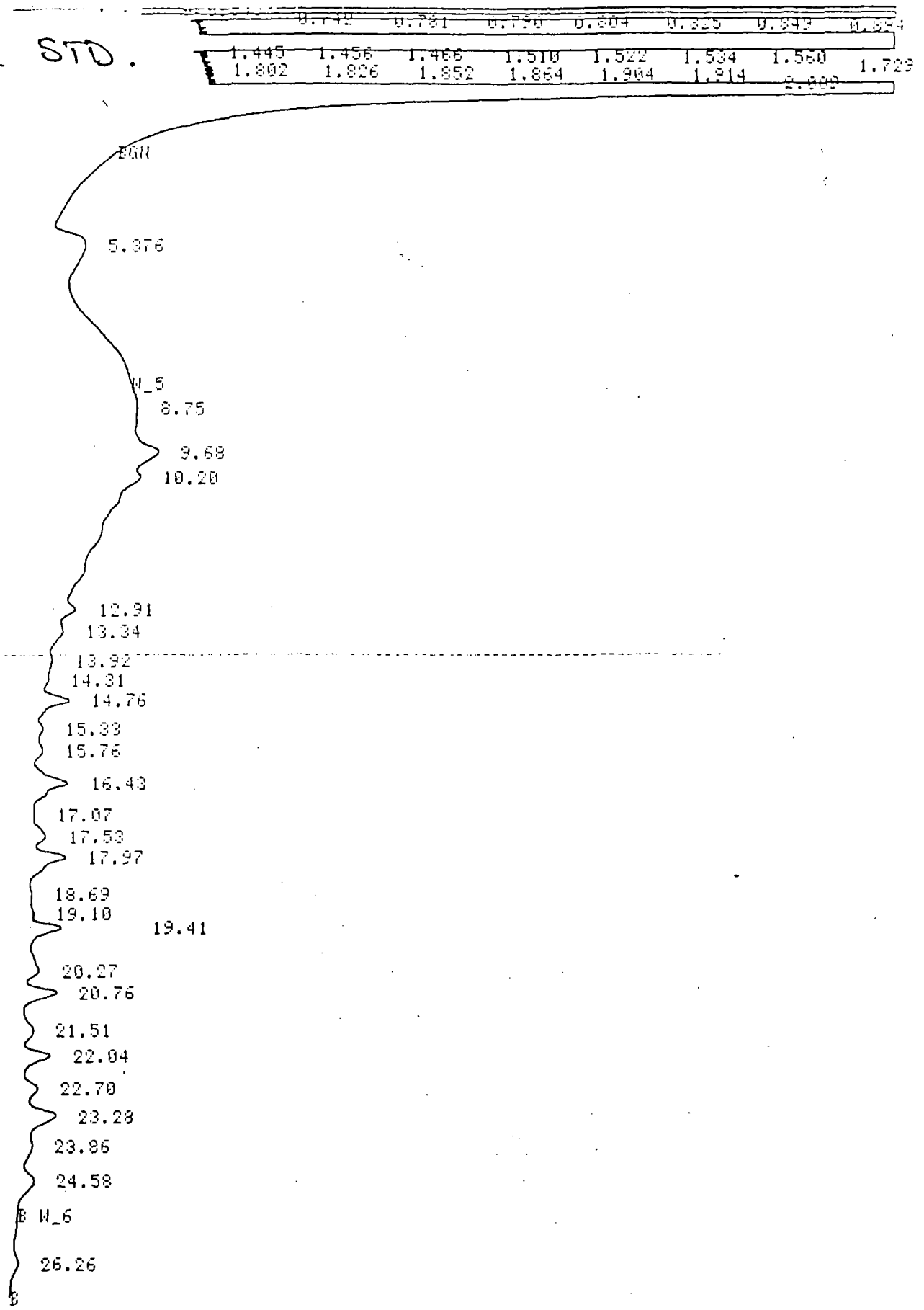
Sample Number	Analyte	Sample Contribution	Spike Added	Spike Result	% Recovery
8031568	Diesel	< 50	2,000	1790	89.5

SEQUOIA ANALYTICAL LABORATORY

Scott Cocanour

Arthur G. Burton
Laboratory Director

DIESEL STD.



FILE 192 RUN 8 STARTED 00:34.4 80/01/11 HIGH BOILERS
% METHOD 1 DIESELS LAST EDITED 20:06.0 80/01/10

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
5.376	1329487	34.2342	V	15.6656	7.1543
8.75	164197	5.6431	V	1.9348	1.1793

11.692 A/L

8031560

FILE 188 RUN 4 STARTED 22:18.5 80/01/10 HIGH BOILERS
% METHOD 1 DIESELS LAST EDITED 20:06.0 80/01/10

3λ # 8030
Duplicate

W_4 A_128 C_1B D_5

AZ_DN

0.369 0.486

0.881 0.929 0.956 0.965 0.976 0.998 1.022

1.545 1.552 1.565 1.577

2.396

BGN

B W_5

7.96

B W_6

15.78

B W_7

18.71

20.24

20.81

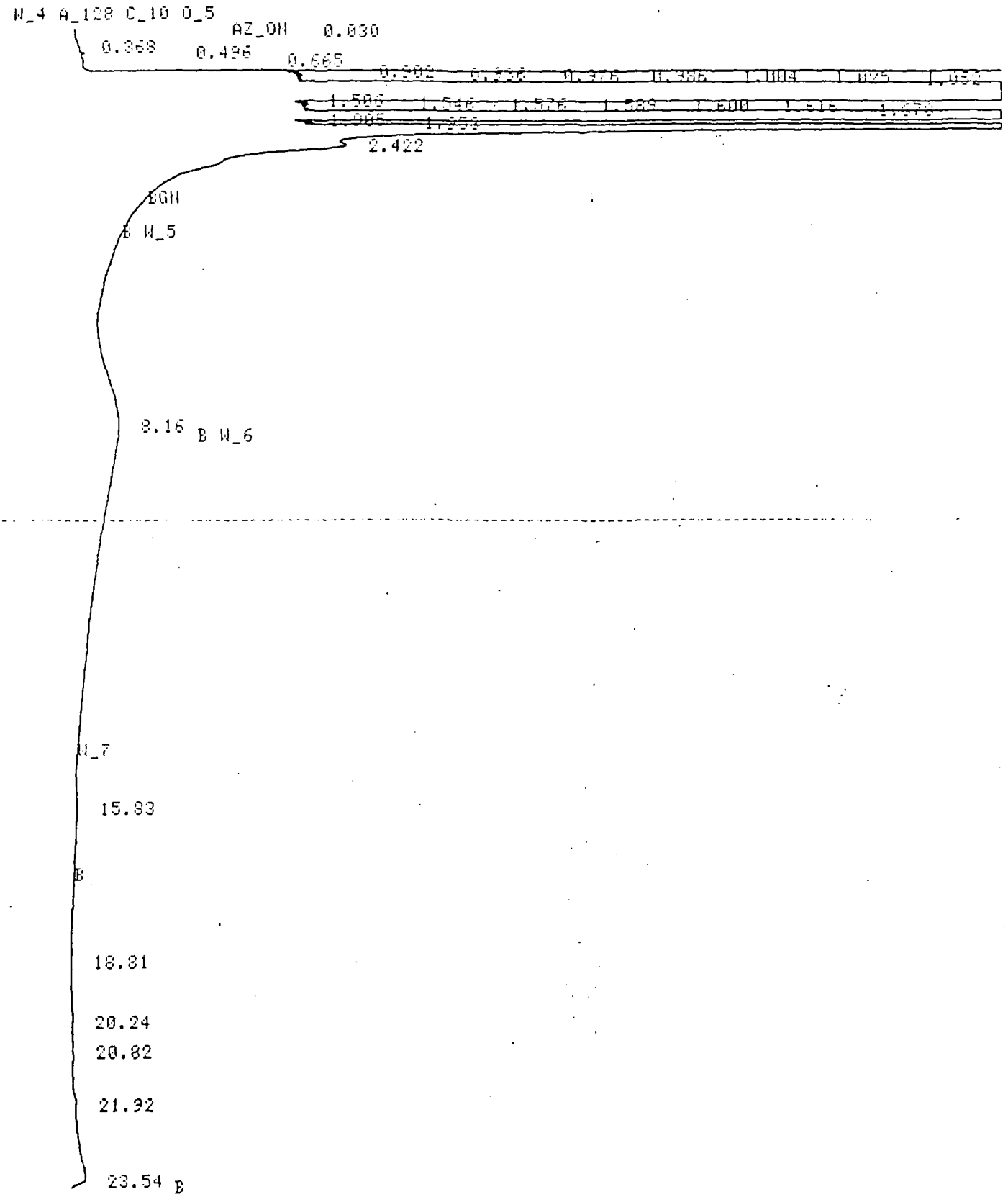
21.92

05.09

3) # 80315

8031568

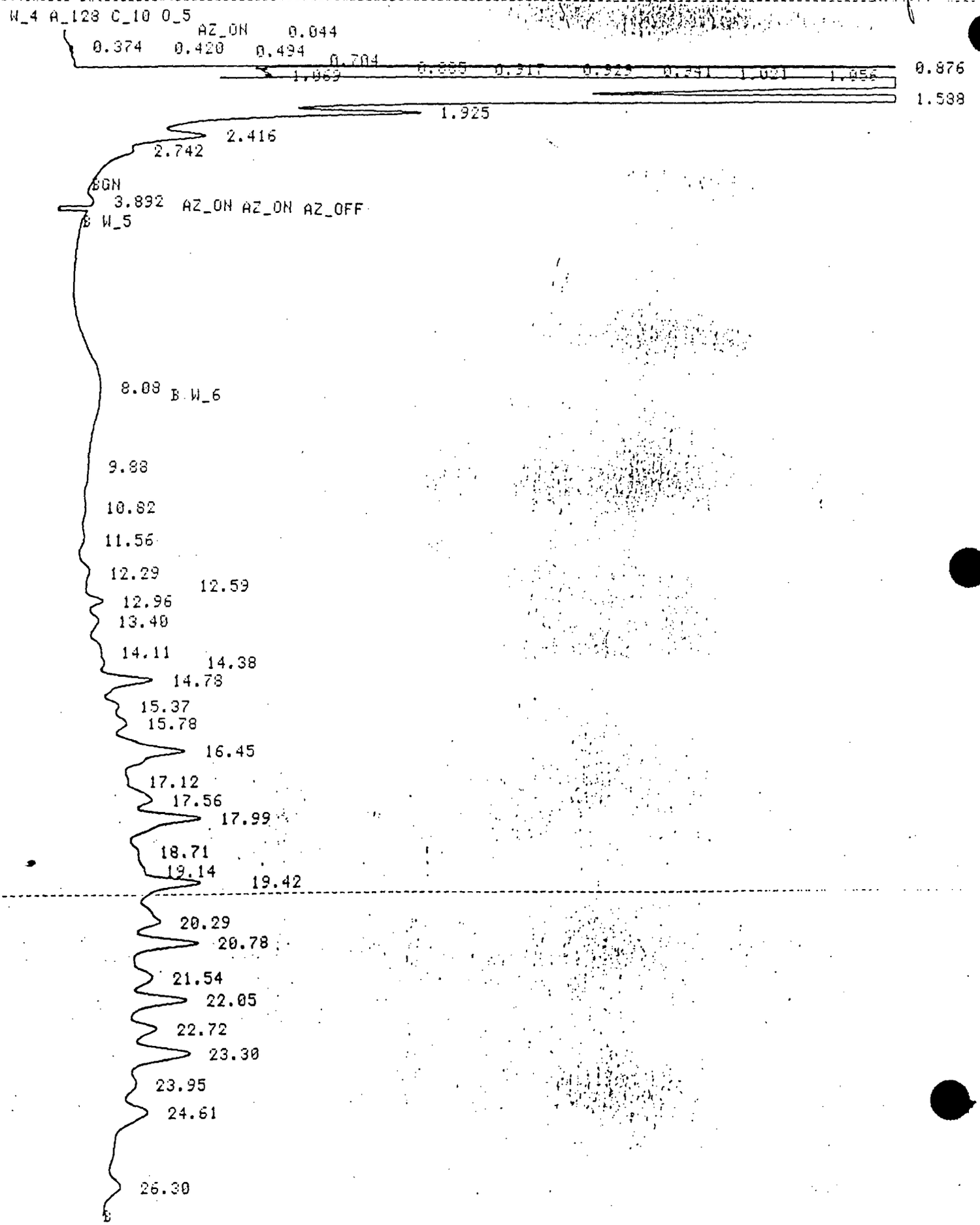
FILE 191 RUN 7 STARTED 00:08.2 80/01/11 HIGH BOILERS
% METHOD 1 DIESELS LAST EDITED 20:06.0 80/01/10



FILE 191 RUN 7 STARTED 00:08.2 80/01/11 HIGH BOILERS
% METHOD 1 DIESELS LAST EDITED 20:06.0 80/01/10

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT

FILE 189 RUN 5 STARTED 22:51.5 80/01/10 HIGH BOILERS 3> # 8031568 8030668 + spike
% METHOD 1 DIESELS LAST EDITED 20:06.0 80/01/10



SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/22/88
Date Received: 03/22/88
Date Reported: 03/25/88
Project: #JCO-104H

Q.C. DATA REPORT

Analyst: E. Hackl
Date of Analysis: 3/24/88
Method of Analysis: #214A Standard Method
Detection Limit: 0.01
Units: NTU

Sample Number	Analyte	Original Result	Duplicate Result	% Deviation
8031544	-	0.06	0.06	0

Sample Number	Analyte	Sample Contribution	Spike Added	Spike Result	% Recovery
8031544	-	0.048	0.042	0.090	100

SEQUOIA ANALYTICAL LABORATORY

Scot Cocanour

Arthur G. Burton
Laboratory Director

ANAMETRIX, INC.
LABORATORY SERVICES
ENVIRONMENTAL • ANALYTICAL CHEMISTRY
2754 AIELLO DRIVE • SAN JOSE, CA 95111 • (408) 629-1132

March 25, 1988
Work Order Number 8803125
Date Received 03/22/88
Project No. JC0-104H

Bob Breynaert
Wahler & Associates
1023 Corporation Way
Palo Alto, CA 94303

Four water samples were received for analysis of volatiles by GC/MS, using the following EPA method(s):

ANAMETRIX I.D.	SAMPLE I.D.	METHOD(S)
8803125-01	JC0-104H V-8	8240
-02	" V-4	"
-03	" MB-1	"
-04	" TB-1	"

RESULTS

See enclosed data sheets, Pages 2 thru 5.

EXTRA COMPOUNDS

None detected.

QUALITY ASSURANCE REPORTS

See enclosed data sheet, Page 6 thru 7.

If there is any more that we can do, please give us a call. Thank you for using ANAMETRIX, INC.

Sincerely,

Burt Sutherland

Burt Sutherland
Laboratory Manager

BWS/da

ORGANIC ANALYSIS DATA SHEET - EPA METHOD 624/8240
ANAMETRIX, INC. (408) 629-1132

Sample I.D. : JC0-104H V-6
Matrix : WATER
Date sampled : 03-22-88
Date analyzed: 03-23-88
Dilution : NONE

Anametrix I.D. : 8803125-01
Analyst : TC
Supervisor : PG
Date released : 03-24-88
Instrument ID : F1

CAS #	Compound Name	Reporting Limit (ug/l)	Amount Found (ug/l)
74-87-3	* Chloromethane	10	BRL
75-01-4	* Vinyl Chloride	10	BRL
74-83-9	* Bromomethane	10	BRL
75-00-3	* Chloroethane	10	BRL
75-69-4	* Trichlorofluoromethane	5	BRL
75-35-4	* 1,1-Dichloroethene	5	BRL
76-13-1	# Trichlorotrifluoroethane	5	BRL
67-64-1	**Acetone	20	BRL
75-15-0	**Carbondisulfide	5	BRL
75-09-2	* Methylene Chloride	5	BRL
156-60-5	* Trans-1,2-Dichloroethene	5	BRL
75-34-3	* 1,1-Dichloroethane	5	BRL
78-93-3	**2-Butanone	20	BRL
156-59-2	* Cis-1,2-Dichloroethene	5	BRL
67-66-3	* Chloroform	5	BRL
71-55-6	* 1,1,1-Trichloroethane	5	7
56-23-5	* Carbon Tetrachloride	5	BRL
71-43-2	* Benzene	5	BRL
107-06-2	* 1,2-Dichloroethane	5	BRL
79-01-6	* Trichloroethene	5	BRL
78-87-5	* 1,2-Dichloropropane	5	BRL
75-27-4	* Bromodichloromethane	5	BRL
110-75-8	* 2-Chloroethylvinylether	5	BRL
108-05-4	**Vinyl Acetate	10	BRL
10061-02-6	* Trans-1,3-Dichloropropene	5	BRL
108-10-1	**4-Methyl-2-Pentanone	10	BRL
108-88-3	* Toluene	5	BRL
10061-01-5	* cis-1,3-Dichloropropene	5	BRL
79-00-5	* 1,1,2-Trichloroethane	5	BRL
127-18-4	* Tetrachloroethene	5	BRL
591-78-6	**2-Hexanone	10	BRL
124-48-1	* Dibromochloromethane	5	BRL
108-90-7	* Chlorobenzene	5	BRL
100-41-4	* Ethylbenzene	5	BRL
1330-20-7	**Total Xylenes	5	BRL
100-42-5	**Styrene	5	BRL
75-25-2	* Bromoform	5	BRL
79-34-5	* 1,1,2,2-Tetrachloroethane	5	BRL
541-73-1	* 1,3-Dichlorobenzene	5	BRL
106-46-7	* 1,4-Dichlorobenzene	5	BRL
95-50-1	* 1,2-Dichlorobenzene	5	BRL

CAS #	Surrogate Compounds	Limits	% Recovery
17060-07-0	1,2-Dichloroethane-d4	75-133%	114%
2037-26-5	Toluene-d8	80-123%	106%
460-00-4	p-Bromofluorobenzene	63-125%	98%

* A Method 624 priority pollutant compound (Federal Register, 10/26/84)
** A compound on the U.S. EPA CLP Hazardous Substance List (HSL)
\# A compound added by Anametrix, Inc. BRL : Below reporting limit.

ORGANIC ANALYSIS DATA SHEET - EPA METHOD 624/8240
ANAMETRIX, INC. (408) 629-1132

Sample I.D. : JC0-104H MB-1
Matrix : WATER
Date sampled : 03-22-88
Date analyzed: 03-24-88
Dilution : NONE

Anametrix I.D. : 8803125-03
Analyst : TC
Supervisor : PG
Date released : 03-24-88
Instrument ID : F1

CAS #	Compound Name	Reporting Limit (ug/l)	Amount Found (ug/l)
74-87-3	* Chloromethane	10	BRL
75-01-4	* Vinyl Chloride	10	BRL
74-83-9	* Bromomethane	10	BRL
75-00-3	* Chloroethane	10	BRL
75-69-4	* Trichlorofluoromethane	5	BRL
75-35-4	* 1,1-Dichloroethene	5	BRL
76-13-1	# Trichlorotrifluoroethane	5	BRL
67-64-1	**Acetone	20	BRL
75-15-0	**Carbondisulfide	5	BRL
75-09-2	* Methylene Chloride	5	BRL
156-60-5	* Trans-1,2-Dichloroethene	5	BRL
75-34-3	* 1,1-Dichloroethane	5	BRL
78-93-3	**2-Butanone	20	BRL
156-59-2	* Cis-1,2-Dichloroethene	5	BRL
67-66-3	* Chloroform	5	BRL
71-55-6	* 1,1,1-Trichloroethane	5	BRL
56-23-5	* Carbon Tetrachloride	5	BRL
71-43-2	* Benzene	5	BRL
107-06-2	* 1,2-Dichloroethane	5	BRL
79-01-6	* Trichloroethene	5	BRL
78-87-5	* 1,2-Dichloropropane	5	BRL
75-27-4	* Bromodichloromethane	5	BRL
110-75-8	* 2-Chloroethylvinylether	5	BRL
108-05-4	**Vinyl Acetate	10	BRL
10061-02-6	* Trans-1,3-Dichloropropene	5	BRL
108-10-1	**4-Methyl-2-Pentanone	10	BRL
108-88-3	* Toluene	5	BRL
10061-01-5	* cis-1,3-Dichloropropene	5	BRL
79-00-5	* 1,1,2-Trichloroethane	5	BRL
127-18-4	* Tetrachloroethene	5	BRL
591-78-6	**2-Hexanone	10	BRL
124-48-1	* Dibromochloromethane	5	BRL
108-90-7	* Chlorobenzene	5	BRL
100-41-4	* Ethylbenzene	5	BRL
1330-20-7	**Total Xylenes	5	BRL
100-42-5	**Styrene	5	BRL
75-25-2	* Bromoform	5	BRL
79-34-5	* 1,1,2,2-Tetrachloroethane	5	BRL
541-73-1	* 1,3-Dichlorobenzene	5	BRL
106-46-7	* 1,4-Dichlorobenzene	5	BRL
95-50-1	* 1,2-Dichlorobenzene	5	BRL

CAS #	Surrogate Compounds	Limits	% Recovery
17060-07-0	1,2-Dichloroethane-d4	75-133%	114%
2037-26-5	Toluene-d8	80-123%	100%
460-00-4	p-Bromofluorobenzene	63-125%	89%

* A Method 624 priority pollutant compound (Federal Register, 10/26/84)
** A compound on the U.S. EPA CLP Hazardous Substance List (HSL)
\# A compound added by Anametrix, Inc. BRL : Below reporting limit.

ORGANIC ANALYSIS DATA SHEET - EPA METHOD 624/8240
ANAMETRIX, INC. (408) 629-1132

Sample I.D.	: JC0-104H TB-1	Anametrix I.D.	: 8803125-04
Matrix	: WATER	Analyst	: TC
Date sampled	: 03-22-88	Supervisor	: PG
Date analyzed	: 03-23-88	Date released	: 03-24-88
Dilution	: NONE	Instrument ID	: F1

CAS #	Compound Name	Reporting Limit (ug/l)	Amount Found (ug/l)
74-87-3	* Chloromethane	10	BRL
75-01-4	* Vinyl Chloride	10	BRL
74-83-9	* Bromomethane	10	BRL
75-00-3	* Chloroethane	10	BRL
75-69-4	* Trichlorofluoromethane	5	BRL
75-35-4	* 1,1-Dichloroethene	5	BRL
76-13-1	# Trichlorotrifluoroethane	5	BRL
67-64-1	**Acetone	20	BRL
75-15-0	**Carbondisulfide	5	BRL
75-09-2	* Methylene Chloride	5	BRL
156-60-5	* Trans-1,2-Dichloroethene	5	BRL
75-34-3	* 1,1-Dichloroethane	5	BRL
78-93-3	**2-Butanone	20	BRL
156-59-2	* Cis-1,2-Dichloroethene	5	BRL
67-66-3	* Chloroform	5	BRL
71-55-6	* 1,1,1-Trichloroethane	5	BRL
56-23-5	* Carbon Tetrachloride	5	BRL
71-43-2	* Benzene	5	BRL
107-06-2	* 1,2-Dichloroethane	5	BRL
79-01-6	* Trichloroethene	5	BRL
78-87-5	* 1,2-Dichloropropane	5	BRL
75-27-4	* Bromodichloromethane	5	BRL
110-75-8	* 2-Chloroethylvinylether	5	BRL
108-05-4	**Vinyl Acetate	10	BRL
10061-02-6	* Trans-1,3-Dichloropropene	5	BRL
108-10-1	**4-Methyl-2-Pentanone	10	BRL
108-88-3	* Toluene	5	BRL
10061-01-5	* cis-1,3-Dichloropropene	5	BRL
79-00-5	* 1,1,2-Trichloroethane	5	BRL
127-18-4	* Tetrachloroethene	5	BRL
591-78-6	**2-Hexanone	10	BRL
124-48-1	* Dibromochloromethane	5	BRL
108-90-7	* Chlorobenzene	5	BRL
100-41-4	* Ethylbenzene	5	BRL
1330-20-7	**Total Xylenes	5	BRL
100-42-5	**Styrene	5	BRL
75-25-2	* Bromoform	5	BRL
79-34-5	* 1,1,2,2-Tetrachloroethane	5	BRL
541-73-1	* 1,3-Dichlorobenzene	5	BRL
106-46-7	* 1,4-Dichlorobenzene	5	BRL
95-50-1	* 1,2-Dichlorobenzene	5	BRL

CAS #	Surrogate Compounds	Limits	% Recovery
17060-07-0	1,2-Dichloroethane-d4	75-133%	103%
2037-26-5	Toluene-d8	80-123%	107%
460-00-4	p-Bromofluorobenzene	63-125%	97%

* A Method 624 priority pollutant compound (Federal Register, 10/26/84)
** A compound on the U.S. EPA CLP Hazardous Substance List (HSL)
\# A compound added by Anametrix, Inc. BRL : Below reporting limit.

ORGANIC ANALYSIS DATA SHEET - EPA METHOD 624/8240
ANAMETRIX, INC. (408) 629-1132

Sample I.D.	: METHOD BLANK	Anametrix I.D.	: 1CB0323V000
Matrix	: WATER	Analyst	: TC
Date sampled	: NA	Supervisor	: PG
Date analyzed	: 03-23-88	Date released	: 03-24-88
Dilution	: NONE	Instrument ID	: F1

CAS #	Compound Name	Reporting Limit (ug/l)	Amount Found (ug/l)
74-87-3	* Chloromethane	10	BRL
75-01-4	* Vinyl Chloride	10	BRL
74-83-9	* Bromomethane	10	BRL
75-00-3	* Chloroethane	10	BRL
75-69-4	* Trichlorofluoromethane	5	BRL
75-35-4	* 1,1-Dichloroethene	5	BRL
76-13-1	# Trichlorotrifluoroethane	5	BRL
67-64-1	**Acetone	20	BRL
75-15-0	**Carbondisulfide	5	BRL
75-09-2	* Methylene Chloride	5	BRL
156-60-5	* Trans-1,2-Dichloroethene	5	BRL
75-34-3	* 1,1-Dichloroethane	5	BRL
78-93-3	**2-Butanone	20	BRL
156-59-2	* Cis-1,2-Dichloroethene	5	BRL
67-66-3	* Chloroform	5	BRL
71-55-6	* 1,1,1-Trichloroethane	5	BRL
56-23-5	* Carbon Tetrachloride	5	BRL
71-43-2	* Benzene	5	BRL
107-06-2	* 1,2-Dichloroethane	5	BRL
79-01-6	* Trichloroethene	5	BRL
78-87-5	* 1,2-Dichloropropane	5	BRL
75-27-4	* Bromodichloromethane	5	BRL
110-75-8	* 2-Chloroethylvinylether	5	BRL
108-05-4	**Vinyl Acetate	10	BRL
10061-02-6	* Trans-1,3-Dichloropropene	5	BRL
108-10-1	**4-Methyl-2-Pentanone	10	BRL
108-88-3	* Toluene	5	BRL
10061-01-5	* cis-1,3-Dichloropropene	5	BRL
79-00-5	* 1,1,2-Trichloroethane	5	BRL
127-18-4	* Tetrachloroethene	5	BRL
591-78-6	**2-Hexanone	10	BRL
124-48-1	* Dibromochloromethane	5	BRL
108-90-7	* Chlorobenzene	5	BRL
100-41-4	* Ethylbenzene	5	BRL
1330-20-7	**Total Xylenes	5	BRL
100-42-5	**Styrene	5	BRL
75-25-2	* Bromoform	5	BRL
79-34-5	* 1,1,2,2-Tetrachloroethane	5	BRL
541-73-1	* 1,3-Dichlorobenzene	5	BRL
106-46-7	* 1,4-Dichlorobenzene	5	BRL
95-50-1	* 1,2-Dichlorobenzene	5	BRL

CAS #	Surrogate Compounds	Limits	% Recovery
17060-07-0	1,2-Dichloroethane-d4	75-133%	111%
2037-26-5	Toluene-d8	80-123%	104%
460-00-4	p-Bromofluorobenzene	63-125%	93%

* A Method 624 priority pollutant compound (Federal Register, 10/26/84)
** A compound on the U.S. EPA CLP Hazardous Substance List (HSL)
\# A compound added by Anametrix, Inc. BRL : Below reporting limit.

CLP VOLATILE MATRIX SPIKE REPORT -- EPA METHOD 624
ANAMETRIX, INC. (408) 629-1132

Sample I.D. : JCO-104H V-8
Matrix : WATER
Date sampled : 03-22-88
Date analyzed : 03-23-88

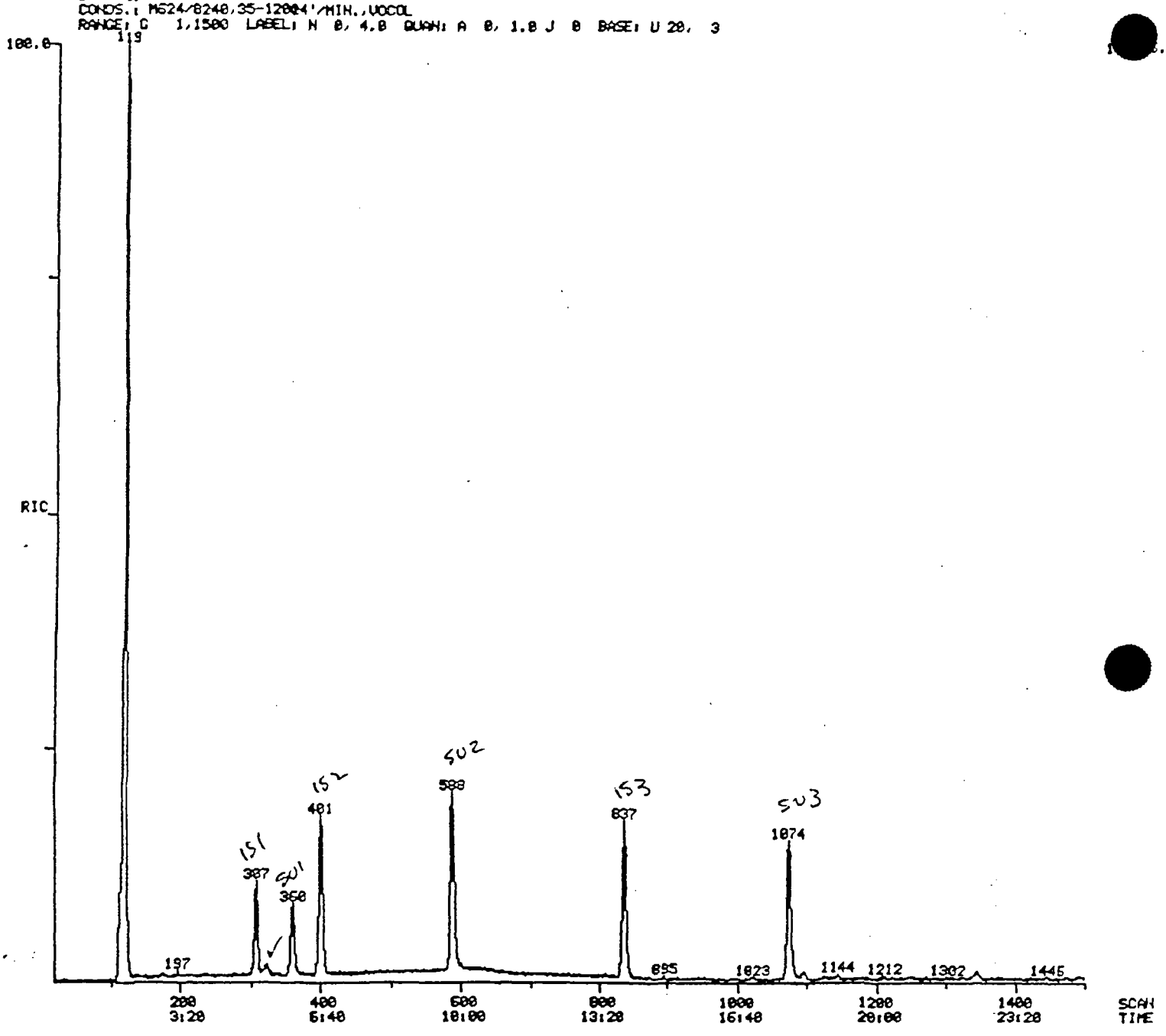
Anametrix I.D. : 8803125-01
Analyst : TC
Supervisor : PG
Date released : 03-24-88

COMPOUND	SPIKE AMT. (UG/L)	8803125 MS (UG/L)	%REC MSD	8803125 MSD (UG/L)	%REC MSD	RPD	%REC LIMITS*
1,1-DICHLOROETHENE	50	39	78%	39	78%	0%	61-131%
FREON 113	50	48	96%	48	96%	0%	52-150%
METHYLENE CHLORIDE	50	45	90%	45	90%	0%	55-130%
CHLOROFORM	50	48	96%	48	96%	0%	70-124%
1,1,1-TRICHLOROETHANE	50	43	86%	43	86%	0%	69-130%
BENZENE	50	45	90%	45	90%	0%	69-124%
1,2-DICHLOROETHANE	50	45	90%	45	90%	0%	65-119%
TRICHLOROETHENE	50	39	78%	39	78%	0%	61-106%
4-METHYL-2-PENTANONE	50	42	84%	40	80%	5%	42-147%
TOLUENE	50	47	94%	47	94%	0%	70-128%
CHLOROBENZENE	50	50	100%	48	96%	4%	73-123%
1,2-DICHLOROBENZENE	50	46	92%	46	92%	0%	50-110%

* Limits established by Anametrix, Inc.

RIC
03/23/88 12:52:00
SAMPLE: JCO-104H V-8
CONDS.: MS24/8240,35-120@4'/MIN.,VOCOL
RANGE: C 1,1500 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 1CU03125V01 #1 SCANS 20 TO 1500
CALI: CALTAB #2

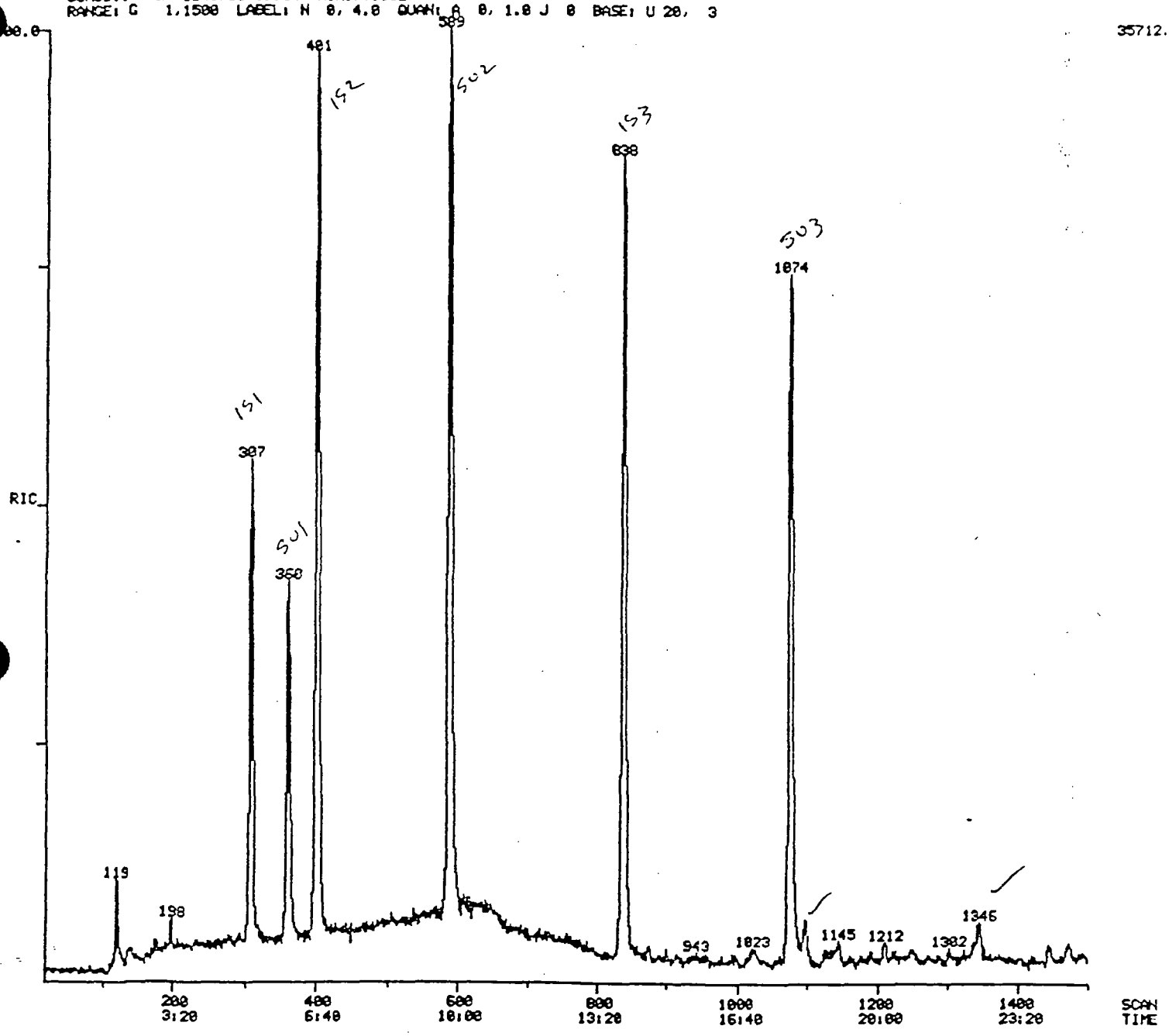


RIC
03/23/88 11:19:00
SAMPLE: JCO-104H MB-1
CONDS.: M524/8240,35-120@4'/MIN.,VOCOL
RANGE: G 1,1500 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 1CU03125U03 01
CALI: CALTA0 02

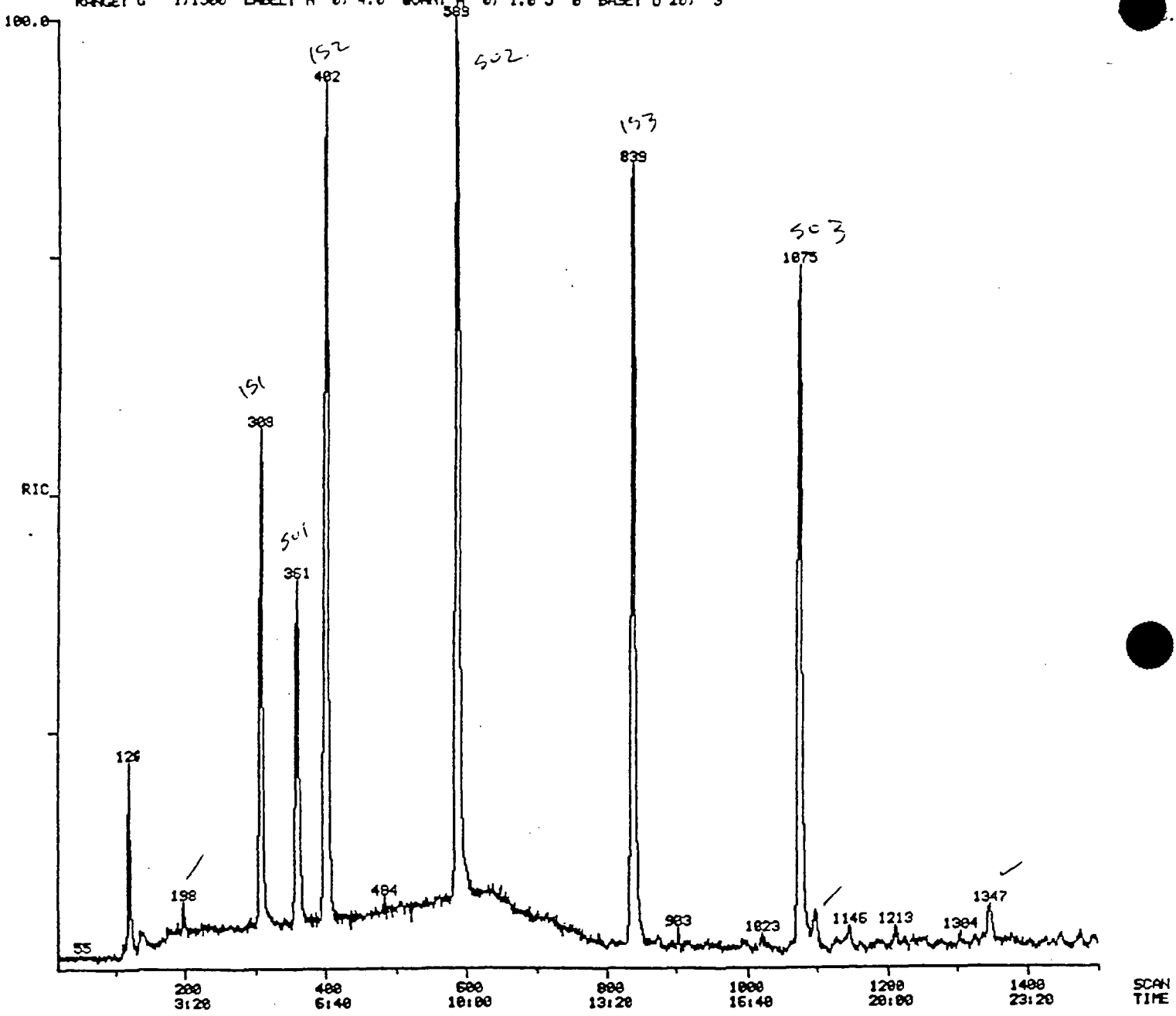
SCANS 20 TO 1500

35712.



RIC
03/23/88 11:50:00
SAMPLE: JCO-104H TB-1
CONDS.: MS24/8240,35-12004'/MIN.,VOCOL
RANGE: G 1,1500 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 1CU03125U04 #1 SCANS 20 TO 1500
CALI: CALTAB #2



O. K. Amy Chau

Serial Number 021
WA Project Number JCO-1041+
Page 1 of 1

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Date Sample Shipped 3-8-88
Name of Laboratory Sequoia Analytical
Lab Project Manager Scott Cocanour
Turnaround Time 48 Hours
Report to Robert Breynaert

Collector Paul Schmidt
Affiliation Wahler Assoc
Address 1023 Corporation Way P.A.
Phone (415) 968-6250

Sample Information

Your Sample I.D.	Date Collected	Matrix	Container	Analysis Requested (Do Following analyses on all soil samples)
R-3	3-4-88	Soil	Steel Liner	(1) TPH as Diesel
R-4	3-4-88	Soil	Steel Liner	(2) EPA method 8020
R-6	3-4-88	Soil	Steel Liner	
R-7	3-4-88	Soil	Steel Liner	
R-8	3-4-88	Soil	Steel Liner	
R-9	3-4-88	Soil	Steel Liner	

Comments Oral results by Thursday afternoon 3-10-88

Wahler Contact Person Bob Breynaert Phone (415) 968-6250

Chain of Possession

	Relinquished by (Sign. & affiliation)	Date	Time	Received by (Sign. & affiliation)	Date	Time
1.	Amy Chau Wahler	3/8/88	5:00pm	[signature]	3/8/88	17:00
		/ /			/ /	
2.		/ /			/ /	
		/ /			/ /	
3.		/ /			/ /	
		/ /			/ /	

Wahler Associates

Serial Number 022
WA Project Number JCO-104H
Page 1 of 1.

O.K. Amy Chau

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Date Sample Shipped 3-8-88
Name of Laboratory Sequoia labs
Lab Project Manager SCOTT COCANOUR
Turnaround Time 48 HOUR
Report to Robert Braynaert

Collector GREG SMART / GREG JONES
Affiliation Wahler Assoc
Address 1023 Corporation Way PA
Phone (415) 968-6250

Sample Information

Your Sample I.D.	Date Collected	Matrix	Container	Analysis Requested
V-8	3-8-88	H_2O	(2) VOA	EPA 624 Open Scan
V-8	3-8-88	H_2O	(2) VOA	Alcohols / Acetone
V-8	3-8-88	H_2O	(2) ambers	EPA-604 / Turbidity
V-8	3-8-88	H_2O	(2) ambers	TPH as Paint Thinner
V-9	3-8-88	H_2O	(2) VOA	EPA 624 Open Scan
V-9	3-8-88	H_2O	(2) VOA	Alcohols / Acetone
V-9	3-8-88	H_2O	(2) ambers	EPA 604
V-9	3-8-88	H_2O	(2) ambers	TPH as Paint Thinner

Comments Please include JCO-104H data package / Quantify TPH as
oral results by Thursday 3-10-88 / Paint Thinner using
written results by Friday 3-11-88 / enclosed Paint Thinner sample
* Also, Report MEK and Xylenes results on report forms for both wells

Wahler Contact Person Bob Braynaert Phone (415) 968-6250

Chain of Possession

	Relinquished by (Sign. & affiliation)	Date	Time	Received by (Sign. & affiliation)	Date	Time
1.	[signature]	3/8/88	4:50	[signature]	3/8/88	4:45p
		/ /			/ /	
2.		/ /			/ /	
		/ /			/ /	
3.		/ /			/ /	
		/ /			/ /	

Wahler Associates

Serial Number 026
WA Project Number JCO-1041H
Page 1 of 2

O.K. Amy Chau

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Date Sample Shipped 3-9-88
Name of Laboratory Sequoia labs
Lab Project Manager Scott Cocanour
Turnaround Time 48 Hours
Report to Robert Breynaert

Collector Greg Smart / Greg Jones
Affiliation Wahler Assoc
Address 1023 Corporation way PA.
Phone (415) 968-6250

Sample Information

Your Sample I.D.	Date Collected	Matrix	Container	Analysis Requested
U-10	3-9-88	H_2O	(2) VOA	EPA 624 open Scan
U-10	"	"	(2) VOA	Alcohols / Acetone
U-10	"	"	(2) Ambers	EPA 604, Turbidity
U-10	"	"	(2) ambers	TPH as Paint Thinner
U-10	"	"	(2) ambers	TPH as Diesel
U-3	"	"	(2) VOA	EPA 624 open scan
U-3	"	"	(2) ambers	TPH as Paint Thinner
U-3	"	"	(2) ambers	TPH as Lacquer Thinner

Comments Quantify TPH scans using solvent samples delivered to Sequoia on 3-8-88. Report MEK and xylenes results on report forms for all wells. Written results by Friday 3-11-88

Wahler Contact Person Bob Breynaert Phone (415) 968-6250

Chain of Possession

	Relinquished by (Sign. & affiliation)	Date	Time	Received by (Sign. & affiliation)	Date	Time
1.	Greg Jones	3/9/88	1:40	Pat Bruske	3/9/88	1:40
		/ /		Sequoia lab	/ /	
2.		/ /			/ /	
		/ /			/ /	
3.		/ /			/ /	
		/ /			/ /	

Wahler Associates

Serial Number 026
WA Project Number JC0-1041H
Page 2 of 2

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM (Cont'd)

Sample Information

Your Sample I.D.	Date Collected	Matrix	Container	Analysis Requested
V-3	3-5-98	H_2O	(2) ambers	TPH as Kerosene
V-3	"	H_2O	(2) ambers	TPH as Diesel
V-3	"	H_2O	—	Turbidity

Comments

Wahler Contact Person Bob Breynaert

Phone (415) 668-6250

Wahler Associates

Serial Number 023
WA Project Number JCO-104H
Page 1 of 1

O.K. Amy Chau

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Date Sample Shipped 3-9-88
Name of Laboratory Anametrix
Lab Project Manager Sarah Schoen
Turnaround Time 48 Hours
Report to Robert Breynaert

Collector Greg Smart / Greg Jones
Affiliation Wahler Assoc
Address 1023 Corporation Way PA
Phone (415) 968-6250

Sample Information

Your Sample I.D.	Date Collected	Matrix	Container	Analysis Requested	
V-3	3-9-88	H_2O	(2) VOA	EPA-624 *	ok
Travel Blank	3-8-88	H_2O	1 (2) VOA	EPA-624 *	1x40ml
Method Blank	3-8-88	H_2O	1 (2) VOA	EPA-624 *	1x40ml
V-10	3-9-88	H_2O	(2) VOA	EPA-624 *	ok
Travel Blank	3-9-88	H_2O	1 (2) VOA	EPA-624 *	1x40ml
Method Blank	3-9-88	H_2O	1 (2) VOA	EPA-624 *	1x40ml
V-8 method Bailer	3-8-88	H_2O	1 VOA	EPA 624	1x40ml
T.B.	3-8-88	H_2O	1 VOA	EPA 624	1x40ml

NS

Comments * quantify any and all non-priority peaks, please include sample and internal QC chromatograms (ie system blanks etc) Call if you have questions. Written Results by Early Friday afternoon 3-10-88 Also, make sure MEK and Xylenes are reported on analysis sheets.

Wahler Contact Person Bob Breynaert Phone (415) 968-6250

Chain of Possession

	Relinquished by (Sign. & affiliation)	Date	Time	Received by (Sign. & affiliation)	Date	Time
1.	Greg Jones	3/9/88	2:40	Marine Sylv	3/9/88	14:45
		/ /			/ /	
2.		/ /			/ /	
		/ /			/ /	
3.		/ /			/ /	
		/ /			/ /	

Wahler Associates

Serial Number 032
WA Project Number JCO-1044
Page 1 of 2

Checked by Amy Chan

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Date Sample Shipped

Name of Laboratory Sequoia Labs

Lab Project Manager Scott Cocanour

Turnaround Time 48 Hours!

Report to Bob Breynaert

Collector Michelle Stay / Mike Chan

Affiliation Wahler Associates

Address 1023 Corporation Way PA

Phone (415) 968-6250

Sample Information

Your Sample I.D.	Date Collected	Matrix	Container	Analysis Requested
V-8	3-22-88	H_2O	(2) VOA	EPA 8010 plus acetone, MEK and xylenes
V-8	3-22-88	H_2O	(2) [illegible]	Turbidity.
V-9	3-22-88	H_2O	(2) VOA	EPA 8010 plus acetone, MEK and xylenes
V-9	3-22-88	H_2O	2 VOA	Turbidity

Comments Please include QA/QC Data package. Results no later than 3-24-88!

Wahler Contact Person Bob Breynaert

Phone (415) 968-6250

Chain of Possession

	Relinquished by (Sign. & affiliation)	Date	Time	Received by (Sign. & affiliation)	Date	Time
1.	Mike Chan	3/22/88	6:15	S. Cocanour	3/22	1815
		/ /			/ /	
2.		/ /			/ /	
		/ /			/ /	
3.		/ /			/ /	
		/ /			/ /	

Wahler Associates

Serial Number 032
WA Project Number
Page 2 of 2

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM (Cont'd)

Sample Information

Your Sample I.D.	Date Collected	Matrix	Container	Analysis Requested
U-10	3-22-88	H_2O	2 VOA	EPA 8010
U-10	3-22-88	H_2O	2 ambers	TPHgas Diesel including B,T,X
U-10	3-22-88	H_2O	2 VOA	Turbidity

Comments Same as on Page 1

Wahler Contact Person Bob Breynaert Phone (415) 968-6250

Wahler Associates

Serial Number 033
WA Project Number JC07104H
Page 1 of 1

Checked by Amy Chau

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Date Sample Shipped 3-22-88
Name of Laboratory Anametrix Inc.
Lab Project Manager Sarah Schoen
Turnaround Time 48 HOURS
Report to Bob Breynaert

Collector Michelle Stay / Mike Chin
Affiliation Wahler Associates
Address 1023 Corporation Way P.A.
Phone (415) 968-6250

Sample Information

Your Sample I.D.	Date Collected	Matrix	Container	Analysis Requested (Perform following analysis on all four samples)
V-8	3-22-88	H_2O	(2) VOA	EPA 8240 including acetone, MEK and xylenes
V-4	3-22-88	H_2O	(2) VOA	
MB-1	3-22-88	H_2O	(2) VOA	
TB-1	3-22-88	H_2O	(2) VOA	

Comments Perform EPA 8240 plus analysis for acetone, MEK, and xylenes on samples V-8, V-4, MB-1 and TB-1. Please have results delivered by Thursday 3-24-88! Include sample chromatograms, internal blanks, and volatile matrix spike report.

Wahler Contact Person Bob Breynaert Phone (415) 968-6250

Chain of Possession

	Relinquished by (Sign. & affiliation)	Date	Time	Received by (Sign. & affiliation)	Date	Time
1.	Michelle Stay Wahler	3/22/88	7:10pm	Paul Howan ANAMETRIX, INC	3/22/88	19:10
2.		/ /			/ /	
		/ /			/ /	
3.		/ /			/ /	
		/ /			/ /	

Wahler Associates

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/22-23/88
Date Received: 03/24/88
Date Reported: 04/13/88

Project: #JCO-104H

TOTAL PETROLEUM HYDROCARBONS

Sample Number	Sample Description	Detection Limit ppb	(Paint Thinner) High Boiling Point Hydrocarbons ppb
	Groundwater,		
8031743	V-1	50	< 50
8031744	V-4	50	< 50
8031745	V-5	50	< 50
8031746	V-6	50	< 50
8031747	V-7	50	< 50
8031748	I-1	50	< 50
8031749	I-2	50	< 50
8031750	I-3	50	< 50

Method of Analysis: EPA 3510/8015

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

SEQUOIA Analytical Laboratory
2549 Middlefield Road
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1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/24/88
Date Received: 03/24/88
Date Analyzed: 04/01/88
Date Reported: 04/13/88

Project: #JCO-104H

Sample Number	Sample Description
8031743	Groundwater, V-1

PRIORITY POLLUTANTS

PURGEABLES BY GC/MS
results in ppb

Benzene	< 2	1,2-Dichloropropane	< 2
Bromomethane	< 2	1,3-Dichloropropane	< 2
Bromodichloromethane	< 2	Ethylbenzene	< 2
Bromoform	< 2	Methylene chloride	26
Carbon tetrachloride	< 2	1,1,2,2-Tetrachloroethane	< 2
Chlorobenzene	< 2	Tetrachloroethene	< 2
Chloroethane	< 2	1,1,1-Trichloroethane	< 2
2-Chloroethylvinyl ether	<10	1,1,2-Trichloroethane	< 2
Chloroform	<10	Trichloroethene	< 2
Chloromethane	< 2	Toluene	< 2
Dibromochloromethane	< 2	Vinyl chloride	< 2
1,1-Dichloroethane	5.0		
1,2-Dichloroethane	< 2		
1,1-Dichloroethene	< 2		
trans-1,2-Dichloroethene	< 2		

Method of Analysis: EPA 8240

SEQUOIA ANALYTICAL LABORATORY

Scot Cocanour

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Attn: Bob Breynaert

Date Sampled: 03/24/88
Date Received: 03/24/88
Date Analyzed: 04/01/88
Date Reported: 04/13/88
Project: #JCO-104H

Sample Number	Sample Description
8031743	Groundwater, V-1

- Open Scan -
NON-PRIORITY POLLUTANTS
PURGEABLES BY GC/MS
results in ppb

No additional peaks > 10 ppb were detected for identification by NBS spectral library.

SEQUOIA ANALYTICAL LABORATORY

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1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/24/88
Date Received: 03/24/88
Date Extracted: 03/29/88
Date Reported: 04/13/88

Project: #JCO-104H

Sample Number	Sample Description
8031743	Groundwater, V-1

PRIORITY POLLUTANTS

PHENOLS
results in ppb

4-Chloro-3-methylphenol	< 10
2-Chlorophenol	< 10
2,4-Dichlorophenol	< 10
2,4-Dimethylphenol	< 10
2,4-Dinitrophenol	< 15
2-Methyl-4,6-dinitrophenol	< 15
2-Nitrophenol	< 10
4-Nitrophenol	< 15
Pentachlorophenol	< 10
Phenol	< 10
2,4,6-Trichlorophenol	< 10

Method of Analysis: EPA 8040

SEQUOIA ANALYTICAL LABORATORY

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1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/23/88
Date Received: 03/24/88
Date Reported: 04/13/88
Project: #JCO-104H

Sample Number	Sample Description
8031743	Groundwater, V-1

ANALYSIS
results in ppb

Methanol	< 10
Ethanol	< 10
Acetone	< 10
Isopropanol	< 10

SEQUOIA ANALYTICAL LABORATORY

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Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/22/88
Date Received: 03/24/88
Date Reported: 04/13/88

Project: #JCO-104H

TOTAL PETROLEUM HYDROCARBONS

Sample Number	Sample Description	Detection Limit ppb	High Boiling Point Hydrocarbons ppb	
	Groundwater			
8031751	V-3	50	< 50	as Paint Thinner
8031751	V-3	50	< 50	as Lacquer Thin
8031751	V-3	50	< 50	as Kerosene
8031751	V-3	50	< 50	as Diesel

NOTE: This sample contains a significant single-peak miscellaneous hydrocarbon component near the end of the diesel range. The component appears to be in the C-15 to C-20 range and is at ppm concentration.

Method of Analysis: EPA 3510/8015

SEQUOIA ANALYTICAL LABORATORY

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1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/22/88
Date Received: 03/24/88
Date Analyzed: 03/30/88
Date Reported: 04/13/88

Project: #JCO-104H

Sample Number	Sample Description
8031751	Groundwater, V-3

PRIORITY POLLUTANTS

PURGEABLES BY GC/MS
results in ppb

Benzene	< 2	1,2-Dichloropropane	< 2
Bromomethane	< 2	1,3-Dichloropropane	< 2
Bromodichloromethane	< 2	Ethylbenzene	< 2
Bromoform	< 2	Methylene chloride	<10
Carbon tetrachloride	< 2	1,1,2,2-Tetrachloroethane	< 2
Chlorobenzene	< 2	Tetrachloroethene	< 2
Chloroethane	< 2	1,1,1-Trichloroethane	< 2
2-Chloroethylvinyl ether	<10	1,1,2-Trichloroethane	< 2
Chloroform	<10	Trichloroethene	< 2
Chloromethane	< 2	Toluene	< 2
Dibromochloromethane	< 2	Vinyl chloride	< 2
1,1-Dichloroethane	4.2		
1,2-Dichloroethane	< 2		
1,1-Dichloroethene	< 2		
trans-1,2-Dichloroethene	4.8		

Method of Analysis: EPA 8240

SEQUOIA ANALYTICAL LABORATORY

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Laboratory Director

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Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/22/88
Date Received: 03/24/88
Date Analyzed: 03/30/88
Date Reported: 04/13/88
Project: #JCO-104H

Sample Number	Sample Description
8031751	Groundwater, V-3

- Open Scan -
NON-PRIORITY POLLUTANTS
PURGEABLES BY GC/MS
results in ppb

No additional peaks > 10 ppb were detected for identification by NBS spectral library.

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/22/88
Date Received: 03/24/88
Date Extracted: 04/01/88
Date Reported: 04/13/88

Project: #JCO-104H

Sample Number	Sample Description
8031751	Groundwater, V-3

PRIORITY POLLUTANTS

PHENOLS
results in ppb

4-Chloro-3-methylphenol	< 10
2-Chlorophenol	< 10
2,4-Dichlorophenol	< 10
2,4-Dimethylphenol	< 10
2,4-Dinitrophenol	< 15
2-Methyl-4,6-dinitrophenol	< 15
2-Nitrophenol	< 10
4-Nitrophenol	< 15
Pentachlorophenol	< 10
Phenol	< 10
2,4,6-Trichlorophenol	< 10

Method of Analysis: EPA 8040

SEQUOIA ANALYTICAL LABORATORY

Scot Cocanour

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2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

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1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/22/88
Date Received: 03/24/88
Date Reported: 04/13/88
Project: #JCO-104H

Sample Number	Sample Description
8031751	Groundwater, V-3

ANALYSIS
results in ppb

Methanol	< 10
Ethanol	< 10
Acetone	< 10
Isopropanol	< 10

SEQUOIA ANALYTICAL LABORATORY

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Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/22/88
Date Received: 03/24/88
Date Analyzed: 04/01/88
Date Reported: 04/13/88

Project: #JCO-104H

Sample Number	Sample Description
8031744	Groundwater, V-4

PRIORITY POLLUTANTS

PURGEABLES BY GC/MS
results in ppb

Benzene	<	4	1,2-Dichloropropane	<	4
Bromomethane	<	4	1,3-Dichloropropane	<	4
Bromodichloromethane	<	4	Ethylbenzene	<	4
Bromoform	<	4	Methylene chloride		31
Carbon tetrachloride	<	4	1,1,2,2-Tetrachloroethane	<	4
Chlorobenzene	<	4	Tetrachloroethene	<	4
Chloroethane		12	1,1,1-Trichloroethane		140
2-Chloroethylvinyl ether	<	20	1,1,2-Trichloroethane	<	4
Chloroform	<	20	Trichloroethene	<	4
Chloromethane	<	4	Toluene	<	4
Dibromochloromethane	<	4	Vinyl chloride	<	4
1,1-Dichloroethane		360			
1,2-Dichloroethane	<	4			
1,1-Dichloroethene		60			
trans-1,2-Dichloroethene	<	4			

Method of Analysis: EPA 8240

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
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2549 Middlefield Road
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1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/22/88
Date Received: 03/24/88
Date Analyzed: 04/01/88
Date Reported: 04/13/88
Project: #JCO-104H

Sample Number	Sample Description
8031744	Groundwater, V-4

- Open Scan -
NON-PRIORITY POLLUTANTS
PURGEABLES BY GC/MS
results in ppb

No additional peaks > 10 ppb were detected for identification by NBS spectral library.

SEQUOIA ANALYTICAL LABORATORY

Scot Cocanour

Arthur G. Burton
Laboratory Director

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1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/22/88
Date Received: 03/24/88
Date Extracted: 03/29/88
Date Reported: 04/13/88

Project: #JCO-104H

Sample Number	Sample Description
8031744	Groundwater, V-4

PRIORITY POLLUTANTS

PHENOLS
results in ppb

4-Chloro-3-methylphenol	< 10
2-Chlorophenol	< 10
2,4-Dichlorophenol	< 10
2,4-Dimethylphenol	< 10
2,4-Dinitrophenol	< 15
2-Methyl-4,6-dinitrophenol	< 15
2-Nitrophenol	< 10
4-Nitrophenol	< 15
Pentachlorophenol	< 10
Phenol	< 10
2,4,6-Trichlorophenol	< 10

Method of Analysis: EPA 8040

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/22/88
Date Received: 03/24/88
Date Reported: 04/13/88
Project: #JCO-104H

Sample Number	Sample Description
8031744	Groundwater, V-4

ANALYSIS
results in ppb

Methanol	< 10
Ethanol	< 10
Acetone	< 10
Isopropanol	< 10

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Date Sampled: 03/23/88
Date Received: 03/24/88
Date Analyzed: 03/30/88
Date Reported: 04/13/88

Project: #JCO-104H

Sample Number	Sample Description
8031753	Groundwater, V-4

PRIORITY POLLUTANTS

PURGEABLES BY GC/MS
results in ppb

Benzene	<	4	1,2-Dichloropropane	<	4
Bromomethane	<	4	1,3-Dichloropropane	<	4
Bromodichloromethane	<	4	Ethylbenzene	<	4
Bromoform	<	4	Methylene chloride		21
Carbon tetrachloride	<	4	1,1,2,2-Tetrachloroethane	<	4
Chlorobenzene	<	4	Tetrachloroethene	<	4
Chloroethane		13	1,1,1-Trichloroethane		120
2-Chloroethylvinyl ether	<	20	1,1,2-Trichloroethane	<	4
Chloroform	<	20	Trichloroethene	<	4
Chloromethane	<	4	Toluene	<	4
Dibromochloromethane	<	4	Vinyl chloride	<	4
1,1-Dichloroethane		330			
1,2-Dichloroethane	<	4			
1,1-Dichloroethene		56			
trans-1,2-Dichloroethene	<	4			

Method of Analysis: EPA 8240

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Date Sampled: 03/23/88
Date Received: 03/24/88
Date Analyzed: 03/30/88
Date Reported: 04/13/88
Project: #JCO-104H

Sample Number	Sample Description
8031753	Groundwater, V-4

- Open Scan -
NON-PRIORITY POLLUTANTS
PURGEABLES BY GC/MS
results in ppb

No additional peaks > 10 ppb were detected for identification by NBS spectral library.

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Date Sampled: 03/23/88
Date Received: 03/24/88
Date Analyzed: 04/01/88
Date Reported: 04/13/88

Project: #JCO-104H

Sample Number	Sample Description
8031745	Groundwater, V-5

PRIORITY POLLUTANTS

PURGEABLES BY GC/MS
results in ppb

Benzene	< 2	1,2-Dichloropropane	< 2
Bromomethane	< 2	1,3-Dichloropropane	< 2
Bromodichloromethane	< 2	Ethylbenzene	< 2
Bromoform	< 2	Methylene chloride	<10
Carbon tetrachloride	< 2	1,1,2,2-Tetrachloroethane	< 2
Chlorobenzene	< 2	Tetrachloroethene	< 2
Chloroethane	< 2	1,1,1-Trichloroethane	< 2
2-Chloroethylvinyl ether	<10	1,1,2-Trichloroethane	< 2
Chloroform	<10	Trichloroethene	< 2
Chloromethane	< 2	Toluene	< 2
Dibromochloromethane	< 2	Vinyl chloride	< 2
1,1-Dichloroethane	< 2		
1,2-Dichloroethane	< 2		
1,1-Dichloroethene	< 2		
trans-1,2-Dichloroethene	< 2		

Method of Analysis: EPA 8240

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Date Sampled: 03/23/88
Date Received: 03/24/88
Date Analyzed: 04/01/88
Date Reported: 04/13/88
Project: #JCO-104H

Sample Number	Sample Description
8031745	Groundwater, V-5

- Open Scan -
NON-PRIORITY POLLUTANTS
PURGEABLES BY GC/MS
results in ppb

No additional peaks > 10 ppb were detected for identification by NBS spectral library.

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Date Sampled: 03/23/88
Date Received: 03/24/88
Date Extracted: 03/29/88
Date Reported: 04/13/88

Project: #JCO-104H

Sample Number	Sample Description
8031745	Groundwater, V-5

PRIORITY POLLUTANTS

PHENOLS
results in ppb

4-Chloro-3-methylphenol	< 10
2-Chlorophenol	< 10
2,4-Dichlorophenol	< 10
2,4-Dimethylphenol	< 10
2,4-Dinitrophenol	< 15
2-Methyl-4,6-dinitrophenol	< 15
2-Nitrophenol	< 10
4-Nitrophenol	< 15
Pentachlorophenol	< 10
Phenol	< 10
2,4,6-Trichlorophenol	< 10

Method of Analysis: EPA 8040

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Date Sampled: 03/22/88
Date Received: 03/24/88
Date Reported: 04/13/88
Project: #JCO-104H

Sample Number	Sample Description
8031745	Groundwater, V-5

ANALYSIS
results in ppb

Methanol	< 10
Ethanol	< 10
Acetone	< 10
Isopropanol	< 10

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Date Sampled: 03/23/88
Date Received: 03/24/88
Date Analyzed: 04/01/88
Date Reported: 04/13/88

Project: #JCO-104H

Sample Number	Sample Description
8031746	Groundwater, V-6

PRIORITY POLLUTANTS

PURGEABLES BY GC/MS
results in ppb

Benzene	< 2	1,2-Dichloropropane	< 2
Bromomethane	< 2	1,3-Dichloropropane	< 2
Bromodichloromethane	< 2	Ethylbenzene	< 2
Bromoform	< 2	Methylene chloride	<10
Carbon tetrachloride	< 2	1,1,2,2-Tetrachloroethane	< 2
Chlorobenzene	< 2	Tetrachloroethene	< 2
Chloroethane	< 2	1,1,1-Trichloroethane	3.2
2-Chloroethylvinyl ether	<10	1,1,2-Trichloroethane	< 2
Chloroform	<10	Trichloroethene	< 2
Chloromethane	< 2	Toluene	< 2
Dibromochloromethane	< 2	Vinyl chloride	< 2
1,1-Dichloroethane	< 2		
1,2-Dichloroethane	< 2		
1,1-Dichloroethene	< 2		
trans-1,2-Dichloroethene	< 2		

Method of Analysis: EPA 8240

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Date Sampled: 03/23/88
Date Received: 03/24/88
Date Analyzed: 04/01/88
Date Reported: 04/13/88
Project: #JCO-104H

Sample Number	Sample Description
8031746	Groundwater, V-6

- Open Scan -
NON-PRIORITY POLLUTANTS
PURGEABLES BY GC/MS
results in ppb

No additional peaks > 10 ppb were detected for identification by NBS spectral library.

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Date Sampled: 03/23/88
Date Received: 03/24/88
Date Extracted: 03/29/88
Date Reported: 04/13/88

Project: #JCO-104H

Sample Number	Sample Description
8031746	Groundwater, V-6

PRIORITY POLLUTANTS

PHENOLS
results in ppb

4-Chloro-3-methylphenol	< 10
2-Chlorophenol	< 10
2,4-Dichlorophenol	< 10
2,4-Dimethylphenol	< 10
2,4-Dinitrophenol	< 15
2-Methyl-4,6-dinitrophenol	< 15
2-Nitrophenol	< 10
4-Nitrophenol	< 15
Pentachlorophenol	< 10
Phenol	< 10
2,4,6-Trichlorophenol	< 10

Method of Analysis: EPA 8040

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Date Sampled: 03/23/88
Date Received: 03/24/88
Date Reported: 04/13/88
Project: #JCO-104H

Sample Number	Sample Description
8031746	Groundwater, V-6

ANALYSIS
results in ppb

Methanol	< 10
Ethanol	< 10
Acetone	< 10
Isopropanol	< 10

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Date Sampled: 03/23/88
Date Received: 03/24/88
Date Analyzed: 04/04/88
Date Reported: 04/13/88

Project: #JCO-104H

Sample Number	Sample Description
8031747	Groundwater, V-7

PRIORITY POLLUTANTS

PURGEABLES BY GC/MS
results in ppb

Benzene	< 2	1,2-Dichloropropane	< 2
Bromomethane	< 2	1,3-Dichloropropane	< 2
Bromodichloromethane	< 2	Ethylbenzene	< 2
Bromoform	< 2	Methylene chloride	<10
Carbon tetrachloride	< 2	1,1,2,2-Tetrachloroethane	< 2
Chlorobenzene	< 2	Tetrachloroethene	< 2
Chloroethane	< 2	1,1,1-Trichloroethane	18
2-Chloroethylvinyl ether	<10	1,1,2-Trichloroethane	< 2
Chloroform	<10	Trichloroethene	< 2
Chloromethane	< 2	Toluene	< 2
Dibromochloromethane	< 2	Vinyl chloride	< 2
1,1-Dichloroethane	29		
1,2-Dichloroethane	< 2		
1,1-Dichloroethene	8.1		
trans-1,2-Dichloroethene	< 2		

Method of Analysis: EPA 8240

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Date Sampled: 03/23/88
Date Received: 03/24/88
Date Analyzed: 04/04/88
Date Reported: 04/13/88
Project: #JCO-104H

Sample Number	Sample Description
8031747	Groundwater, V-7

- Open Scan -
NON-PRIORITY POLLUTANTS
PURGEABLES BY GC/MS
results in ppb

No additional peaks > 10 ppb were detected for identification by NBS spectral library.

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Date Sampled: 03/23/88
Date Received: 03/24/88
Date Extracted: 04/01/88
Date Reported: 04/13/88

Project: #JCO-104H

Sample Number	Sample Description
8031747	Groundwater, V-7

PRIORITY POLLUTANTS

PHENOLS

results in ppb

4-Chloro-3-methylphenol	< 10
2-Chlorophenol	< 10
2,4-Dichlorophenol	< 10
2,4-Dimethylphenol	< 10
2,4-Dinitrophenol	< 15
2-Methyl-4,6-dinitrophenol	< 15
2-Nitrophenol	< 10
4-Nitrophenol	< 15
Pentachlorophenol	< 10
Phenol	< 10
2,4,6-Trichlorophenol	< 10

Method of Analysis: EPA 8040

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Date Sampled: 03/23/88
Date Received: 03/24/88
Date Reported: 04/13/88
Project: #JCO-104H

Sample Number	Sample Description
8031747	Groundwater, V-7

ANALYSIS
results in ppb

Methanol	< 10
Ethanol	< 10
Acetone	< 10
Isopropanol	< 10

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Date Sampled: 03/22/88
Date Received: 03/22/88
Date Analyzed: 03/24/88
Date Reported: 03/25/88

Project: #JCO-104H

Sample Number	Sample Description
8031566	Water, V-8

PRIORITY POLLUTANTS

PURGEABLE HALOCARBONS & AROMATICS
results in ppb

Benzene	< 0.5	1,2-Dichloropropane	< 0.5
Bromomethane	< 0.5	1,3-Dichloropropane	< 0.5
Bromodichloromethane	< 0.5	Ethylbenzene	< 0.5
Bromoform	< 0.5	Methylene chloride	< 0.5
Carbon tetrachloride	< 0.5	1,1,2,2-Tetrachloroethane	< 0.5
Chlorobenzene	< 0.5	Tetrachloroethene	< 0.5
Chloroethane	< 0.5	1,1,1-Trichloroethane	3.7
2-Chloroethylvinyl ether	< 0.5	1,1,2-Trichloroethane	< 0.5
Chloroform	< 0.5	Trichloroethene	< 0.5
Chloromethane	< 0.5	Toluene	< 0.5
Dibromochloromethane	< 0.5	Vinyl chloride	< 0.5
1,1-Dichloroethane	0.69	1,2-Dichlorobenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,3-Dichlorobenzene	< 0.5
1,1-Dichloroethene	0.65	1,4-Dichlorobenzene	< 0.5
trans-1,2-Dichloroethene	< 0.5		

Method of Analysis: EPA 8010/8020

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Date Sampled: 03/22/88
Date Received: 03/22/88
Date Analyzed: 03/24/88
Date Reported: 03/25/88

Project: #JCO-104H

Sample Number	Sample Description
8031566	Water, V-8

NON-PRIORITY POLLUTANTS
PURGEABLE AROMATICS
results in ppb

Xylene	< 1
Methyl Ethyl Ketone	< 1
Methyl Isobutyl Ketone	< 1

Method of Analysis: EPA 8020

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Date Sampled: 03/22/88
Date Received: 03/22/88
Date Reported: 03/25/88
Project: #JCO-104H

Sample Number	Sample Description
8031566	Watern, V-8

ANALYSIS

Acetone, ppb	< 10
Turbidity, NTU	40

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Date Sampled: 03/22/88
Date Received: 03/22/88
Date Analyzed: 03/24/88
Date Reported: 03/25/88

Project: #JCO-104H

Sample Number	Sample Description
8031567	Water, V-9

PRIORITY POLLUTANTS

PURGEABLE HALOCARBONS & AROMATICS
results in ppb

Benzene	< 0.5	1,2-Dichloropropane	< 0.5
Bromomethane	< 0.5	1,3-Dichloropropane	< 0.5
Bromodichloromethane	< 0.5	Ethylbenzene	< 0.5
Bromoform	< 0.5	Methylene chloride	< 0.5
Carbon tetrachloride	< 0.5	1,1,2,2-Tetrachloroethane	< 0.5
Chlorobenzene	< 0.5	Tetrachloroethene	< 0.5
Chloroethane	< 0.5	1,1,1-Trichloroethane	2.2
2-Chloroethylvinyl ether	< 0.5	1,1,2-Trichloroethane	< 0.5
Chloroform	< 0.5	Trichloroethene	< 0.5
Chloromethane	< 0.5	Toluene	< 0.5
Dibromochloromethane	< 0.5	Vinyl chloride	< 0.5
1,1-Dichloroethane	3.9	1,2-Dichlorobenzene	< 0.5
1,2-Dichloroethane	< 0.5	1,3-Dichlorobenzene	< 0.5
1,1-Dichloroethene	< 0.5	1,4-Dichlorobenzene	< 0.5
trans-1,2-Dichloroethene	< 0.5		

Method of Analysis: EPA 8010/8020

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Date Sampled: 03/22/88
Date Received: 03/22/88
Date Analyzed: 03/24/88
Date Reported: 03/25/88

Project: #JCO-104H

Sample Number	Sample Description
8031567	Water, V-9

NON-PRIORITY POLLUTANTS
PURGEABLE AROMATICS
results in ppb

Xylene	< 1
Methyl Ethyl Ketone	< 1
Methyl Isobutyl Ketone	< 1

Method of Analysis: EPA 8020

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Date Sampled: 03/22/88
Date Received: 03/22/88
Date Reported: 03/25/88
Project: #JCO-104H

Sample Number	Sample Description
8031567	Water, V-9

ANALYSIS

Acetone, ppb	< 10
Turbidity, NTU	130

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Date Sampled: 03/22/88
Date Received: 03/22/88
Date Analyzed: 03/24/88
Date Reported: 03/25/88

Project: #JCO-104H

Sample Number	Sample Description
8031568	Water, V-10

PRIORITY POLLUTANTS

PURGEABLE HALOCARBONS
results in ppb

Bromomethane.....	< 0.5	1,2-Dichloropropane.....	< 0.5
Bromodichloromethane.....	< 0.5	1,3-Dichloropropene.....	< 0.5
Bromoform.....	< 0.5	Methylene chloride.....	< 0.5
Carbon Tetrachloride.....	< 0.5	1,1,2,2-Tetrachloroethane.....	< 0.5
Chloroethane.....	< 0.5	Tetrachloroethene.....	< 0.5
2-Chloroethylvinyl ether...	< 0.5	1,1,1-Trichloroethane.....	0.96
Chloroform.....	< 0.5	1,1,2-Trichloroethane.....	< 0.5
Chloromethane.....	< 0.5	Trichloroethene.....	< 0.5
Dibromochloromethane.....	< 0.5	Vinyl chloride.....	< 0.5
1,1-Dichloroethane.....	< 0.5	1,2-Dichlorobenzene.....	< 0.5
1,2-Dichloroethane.....	< 0.5	1,3-Dichlorobenzene.....	< 0.5
1,1-Dichloroethene.....	< 0.5	1,4-Dichlorobenzene.....	< 0.5
trans-1,2-Dichloroethene...	< 0.5		

Method of Analysis: EPA 8010

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Date Sampled: 03/22/88
Date Received: 03/22/88
Date Reported: 03/25/88

Project: #JCO-104H

TOTAL PETROLEUM HYDROCARBONS

Sample Number	Sample Description	Detection Limit ppb	(Diesel) High Boiling Point Hydrocarbons ppb
	Water,		
8031568	V-10	50	< 50

Method of Analysis: EPA 3510/8015

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Date Sampled: 03/22/88
Date Received: 03/22/88
Date Reported: 03/25/88

Project: #JCO-104H

BTX DISTINCTION

Sample Number	Sample Description
8031568	Water, V-10

	Detection Limit ppb	Sample Results ppb
Benzene	0.5	< 0.5
Toluene	0.5	< 0.5
Xylenes	0.5	< 0.5

Method of Analysis: EPA 5030/602

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Date Sampled: 03/22/88
Date Received: 03/22/88
Date Reported: 03/25/88
Project: #JCO-104H

Sample Number	Sample Description
8031568	Water, V-10

ANALYSIS

Turbidity, NTU	660

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Date Sampled: 03/23/88
Date Received: 03/24/88
Date Analyzed: 04/01/88
Date Reported: 04/13/88

Project: #JCO-104H

Sample Number	Sample Description
8031748	Groundwater, I-1

PRIORITY POLLUTANTS

PURGEABLES BY GC/MS
results in ppb

Benzene	< 2	1,2-Dichloropropane	< 2
Bromomethane	< 2	1,3-Dichloropropane	< 2
Bromodichloromethane	< 2	Ethylbenzene	< 2
Bromoform	< 2	Methylene chloride	<10
Carbon tetrachloride	< 2	1,1,2,2-Tetrachloroethane	< 2
Chlorobenzene	< 2	Tetrachloroethene	< 2
Chloroethane	< 2	1,1,1-Trichloroethane	< 2
2-Chloroethylvinyl ether	<10	1,1,2-Trichloroethane	< 2
Chloroform	<10	Trichloroethene	< 2
Chloromethane	< 2	Toluene	< 2
Dibromochloromethane	< 2	Vinyl chloride	< 2
1,1-Dichloroethane	2.9		
1,2-Dichloroethane	< 2		
1,1-Dichloroethene	< 2		
trans-1,2-Dichloroethene	< 2		

Method of Analysis: EPA 8240

SEQUOIA ANALYTICAL LABORATORY

Scot Cocanour

Arthur G. Burton
Laboratory Director

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/23/88
Date Received: 03/24/88
Date Analyzed: 04/01/88
Date Reported: 04/13/88
Project: #JCO-104H

Sample Number	Sample Description
8031748	Groundwater, I-1

- Open Scan -
NON-PRIORITY POLLUTANTS
PURGEABLES BY GC/MS
results in ppb

No additional peaks > 10 ppb were detected for identification by NBS spectral library.

SEQUOIA ANALYTICAL LABORATORY

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Laboratory Director

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Wahler Associates
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Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/23/88
Date Received: 03/24/88
Date Extracted: 04/01/88
Date Reported: 04/13/88

Project: #JCO-104H

Sample Number	Sample Description
8031748	Groundwater, I-1

PRIORITY POLLUTANTS

PHENOLS
results in ppb

4-Chloro-3-methylphenol	< 10
2-Chlorophenol	< 10
2,4-Dichlorophenol	< 10
2,4-Dimethylphenol	< 10
2,4-Dinitrophenol	< 15
2-Methyl-4,6-dinitrophenol	< 15
2-Nitrophenol	< 10
4-Nitrophenol	< 15
Pentachlorophenol	< 10
Phenol	< 10
2,4,6-Trichlorophenol	< 10

Method of Analysis: EPA 8040

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Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/23/88
Date Received: 03/24/88
Date Reported: 04/13/88
Project: #JCO-104H

Sample Number	Sample Description
8031748	Groundwater, I-1

ANALYSIS
results in ppb

Methanol	< 10
Ethanol	< 10
Acetone	< 10
Isopropanol	< 10

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Attn: Bob Breynaert

Date Sampled: 03/23/88
Date Received: 03/24/88
Date Analyzed: 04/04/88
Date Reported: 04/13/88

Project: #JCO-104H

Sample Number	Sample Description
8031749	Groundwater, I-2

PRIORITY POLLUTANTS

PURGEABLES BY GC/MS
results in ppb

Benzene	< 2	1,2-Dichloropropane	< 2
Bromomethane	< 2	1,3-Dichloropropane	< 2
Bromodichloromethane	< 2	Ethylbenzene	< 2
Bromoform	< 2	Methylene chloride	<10
Carbon tetrachloride	< 2	1,1,2,2-Tetrachloroethane	< 2
Chlorobenzene	< 2	Tetrachloroethene	< 2
Chloroethane	< 2	1,1,1-Trichloroethane	3.0
2-Chloroethylvinyl ether	<10	1,1,2-Trichloroethane	< 2
Chloroform	<10	Trichloroethene	< 2
Chloromethane	< 2	Toluene	< 2
Dibromochloromethane	< 2	Vinyl chloride	< 2
1,1-Dichloroethane	4.5		
1,2-Dichloroethane	< 2		
1,1-Dichloroethene	2.4		
trans-1,2-Dichloroethene	< 2		

Method of Analysis: EPA 8240

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Wahler Associates
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Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/23/88
Date Received: 03/24/88
Date Analyzed: 04/04/88
Date Reported: 04/13/88
Project: #JCO-104H

Sample Number	Sample Description
8031749	Groundwater, I-2

- Open Scan -
NON-PRIORITY POLLUTANTS
PURGEABLES BY GC/MS
results in ppb

No additional peaks > 10 ppb were detected for identification by NBS spectral library.

SEQUOIA ANALYTICAL LABORATORY

Scott Cocanour

Arthur G. Burton
Laboratory Director

SEQUOIA Analytical Laboratory
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Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/23/88
Date Received: 03/24/88
Date Extracted: 04/01/88
Date Reported: 04/13/88

Project: #JCO-104H

Sample Number	Sample Description
8031749	Groundwater, I-2

PRIORITY POLLUTANTS

PHENOLS

results in ppb

4-Chloro-3-methylphenol	< 10
2-Chlorophenol	< 10
2,4-Dichlorophenol	< 10
2,4-Dimethylphenol	< 10
2,4-Dinitrophenol	< 15
2-Methyl-4,6-dinitrophenol	< 15
2-Nitrophenol	< 10
4-Nitrophenol	< 15
Pentachlorophenol	< 10
Phenol	< 10
2,4,6-Trichlorophenol	< 10

Method of Analysis: EPA 8040

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Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/23/88
Date Received: 03/24/88
Date Reported: 04/13/88
Project: #JCO-104H

Sample Number	Sample Description
8031749	Groundwater, I-2

ANALYSIS
results in ppb

Methanol	< 10
Ethanol	< 10
Acetone	< 10
Isopropanol	< 10

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Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/23/88
Date Received: 03/24/88
Date Analyzed: 04/04/88
Date Reported: 04/13/88

Project: #JCO-104H

Sample Number	Sample Description
8031750	Groundwater, I-3

PRIORITY POLLUTANTS

PURGEABLES BY GC/MS
results in ppb

Benzene	< 2	1,2-Dichloropropane	< 2
Bromomethane	< 2	1,3-Dichloropropane	< 2
Bromodichloromethane	< 2	Ethylbenzene	< 2
Bromoform	< 2	Methylene chloride	<10
Carbon tetrachloride	< 2	1,1,2,2-Tetrachloroethane	< 2
Chlorobenzene	< 2	Tetrachloroethene	< 2
Chloroethane	< 2	1,1,1-Trichloroethane	< 2
2-Chloroethylvinyl ether	<10	1,1,2-Trichloroethane	< 2
Chloroform	<10	Trichloroethene	< 2
Chloromethane	< 2	Toluene	< 2
Dibromochloromethane	< 2	Vinyl chloride	< 2
1,1-Dichloroethane	< 2		
1,2-Dichloroethane	< 2		
1,1-Dichloroethene	< 2		
trans-1,2-Dichloroethene	< 2		

Method of Analysis: EPA 8240

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Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/23/88
Date Received: 03/24/88
Date Analyzed: 04/04/88
Date Reported: 04/13/88
Project: #JCO-104H

Sample Number	Sample Description
8031750	Groundwater, I-3

- Open Scan -
NON-PRIORITY POLLUTANTS
PURGEABLES BY GC/MS
results in ppb

No additional peaks > 10 ppb were detected for identification by NBS spectral library.

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Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/23/88
Date Received: 03/24/88
Date Extracted: 04/01/88
Date Reported: 04/13/88

Project: #JCO-104H

Sample Number	Sample Description
8031750	Groundwater, I-3

PRIORITY POLLUTANTS

PHENOLS
results in ppb

4-Chloro-3-methylphenol	< 10
2-Chlorophenol	< 10
2,4-Dichlorophenol	< 10
2,4-Dimethylphenol	< 10
2,4-Dinitrophenol	< 15
2-Methyl-4,6-dinitrophenol	< 15
2-Nitrophenol	< 10
4-Nitrophenol	< 15
Pentachlorophenol	< 10
Phenol	< 10
2,4,6-Trichlorophenol	< 10

Method of Analysis: EPA 8040

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Attn: Bob Breynaert

Date Sampled: 03/23/88
Date Received: 03/24/88
Date Reported: 04/13/88
Project: #JCO-104H

Sample Number	Sample Description
8031750	Groundwater, I-3

ANALYSIS
results in ppb

Methanol	< 10
Ethanol	< 10
Acetone	< 10
Isopropanol	< 10

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Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/22-23/88
Date Received: 03/24/88
Date Reported: 04/13/88

Project: #JCO-104H

Sample Number	Sample Description	Turbidity NTU
	Groundwater	
8031743	V-1	400
8031744	V-4	0.08
8031745	V-5	62
8031746	V-6	3.4
8031747	V-7	150
8031748	I-1	1.6
8031749	I-2	0.29
8031750	I-3	2.7
8031751	V-3	160

SEQUOIA ANALYTICAL LABORATORY

Scot Cocanour

Arthur G. Burton
Laboratory Director

ANAMETRIX, INC.
LABORATORY SERVICES
ENVIRONMENTAL • ANALYTICAL CHEMISTRY
2754 AJELLO DRIVE • SAN JOSE, CA 95111 • (408) 629-1132

March 24, 1988
Work Order Number 8803125
Date Received 03/22/88
Project No. JCO-104H

Bob Breynaert
Wahler & Associates
1023 Corporation Way
Palo Alto, CA 94303

Four water samples were received for analysis of volatiles by GC/MS, using the following EPA method(s):

ANAMETRIX I.D.	SAMPLE I.D.	METHOD(S)
8803125-01	JCO-104H V-8	624
-02	" V-4	"
-03	" MB-1	"
-04	" TB-1	"

RESULTS

See enclosed data sheets, Pages 2 thru 5.

EXTRA COMPOUNDS

None detected.

QUALITY ASSURANCE REPORTS

See enclosed data sheet, Page 6 thru 7.

If there is any more that we can do, please give us a call. Thank you for using ANAMETRIX, INC.

Sincerely,

Paul Gowan

Paul Gowan
GC/MS Supervisor

PG/da

ORGANIC ANALYSIS DATA SHEET - EPA METHOD 624/8240
ANAMETRIX, INC. (408) 629-1132

Sample I.D. : JCO-104H V-5
Matrix : WATER
Date sampled : 03-22-88
Date analyzed: 03-23-88
Dilution : NONE

Anametrix I.D. : 8803125-01
Analyst : TC
Supervisor : PG
Date released : 03-24-88
Instrument ID : F1

CAS #	Compound Name	Reporting Limit (ug/l)	Amount Found (ug/l)
74-87-3	* Chloromethane	10	BRL
75-01-4	* Vinyl Chloride	10	BRL
74-83-9	* Bromomethane	10	BRL
75-00-3	* Chloroethane	10	BRL
75-69-4	* Trichlorofluoromethane	5	BRL
75-35-4	* 1,1-Dichloroethene	5	BRL
76-13-1	# Trichlorotrifluoroethane	5	BRL
67-64-1	**Acetone	20	BRL
75-15-0	**Carbondisulfide	5	BRL
75-09-2	* Methylene Chloride	5	BRL
156-60-5	* Trans-1,2-Dichloroethene	5	BRL
75-34-3	* 1,1-Dichloroethane	5	BRL
78-93-3	**2-Butanone	20	BRL
156-59-2	* Cis-1,2-Dichloroethene	5	BRL
67-66-3	* Chloroform	5	BRL
71-55-6	* 1,1,1-Trichloroethane	5	7
56-23-5	* Carbon Tetrachloride	5	BRL
71-43-2	* Benzene	5	BRL
107-06-2	* 1,2-Dichloroethane	5	BRL
79-01-6	* Trichloroethene	5	BRL
78-87-5	* 1,2-Dichloropropane	5	BRL
75-27-4	* Bromodichloromethane	5	BRL
110-75-8	* 2-Chloroethylvinylether	5	BRL
108-05-4	**Vinyl Acetate	10	BRL
10061-02-6	* Trans-1,3-Dichloropropene	5	BRL
108-10-1	**4-Methyl-2-Pentanone	10	BRL
108-88-3	* Toluene	5	BRL
10061-01-5	* cis-1,3-Dichloropropene	5	BRL
79-00-5	* 1,1,2-Trichloroethane	5	BRL
127-18-4	* Tetrachloroethene	5	BRL
591-78-6	**2-Hexanone	10	BRL
124-48-1	* Dibromochloromethane	5	BRL
108-90-7	* Chlorobenzene	5	BRL
100-41-4	* Ethylbenzene	5	BRL
1330-20-7	**Total Xylenes	5	BRL
100-42-5	**Styrene	5	BRL
75-25-2	* Bromoform	5	BRL
79-34-5	* 1,1,2,2-Tetrachloroethane	5	BRL
541-73-1	* 1,3-Dichlorobenzene	5	BRL
106-46-7	* 1,4-Dichlorobenzene	5	BRL
95-50-1	* 1,2-Dichlorobenzene	5	BRL

CAS #	Surrogate Compounds	Limits	% Recovery
17060-07-0	1,2-Dichloroethane-d4	75-133%	114%
2037-26-5	Toluene-d8	80-123%	106%
460-00-4	p-Bromofluorobenzene	63-125%	98%

* A Method 624 priority pollutant compound (Federal Register, 10/26/84)
** A compound on the U.S. EPA CLP Hazardous Substance List (HSL)
\# A compound added by Anametrix, Inc. BRL : Below reporting limit.

ORGANIC ANALYSIS DATA SHEET - EPA METHOD 624/8240
ANAMETRIX, INC. (408) 629-1132

Sample I.D.	: JCO-104H V-4	Anametrix I.D.	: 8803125-02
Matrix	: WATER	Analyst	: TC
Date sampled	: 03-22-88	Supervisor	: PG
Date analyzed	: 03-23-88	Date released	: 03-24-88
Dilution	: 2	Instrument ID	: F1

CAS #	Compound Name	Reporting Limit (ug/l)	Amount Found (ug/l)
74-87-3	* Chloromethane	20	BRL
75-01-4	* Vinyl Chloride	20	BRL
74-83-9	* Bromomethane	20	BRL
75-00-3	* Chloroethane	20	BRL
75-69-4	* Trichlorofluoromethane	10	BRL
75-35-4	* 1,1-Dichloroethene	10	75
76-13-1	# Trichlorotrifluoroethane	10	BRL
67-64-1	**Acetone	40	BRL
75-15-0	**Carbondisulfide	10	BRL
75-09-2	* Methylene Chloride	10	BRL
156-60-5	* Trans-1,2-Dichloroethene	10	BRL
75-34-3	* 1,1-Dichloroethane	10	450
78-93-3	**2-Butanone	40	BRL
156-59-2	* Cis-1,2-Dichloroethene	10	BRL
67-66-3	* Chloroform	10	BRL
71-55-6	* 1,1,1-Trichloroethane	10	180
56-23-5	* Carbon Tetrachloride	10	BRL
71-43-2	* Benzene	10	BRL
107-06-2	* 1,2-Dichloroethane	10	BRL
79-01-6	* Trichloroethene	10	BRL
78-87-5	* 1,2-Dichloropropane	10	BRL
75-27-4	* Bromodichloromethane	10	BRL
110-75-8	* 2-Chloroethylvinylether	10	BRL
108-05-4	**Vinyl Acetate	20	BRL
10061-02-6	* Trans-1,3-Dichloropropene	10	BRL
108-10-1	**4-Methyl-2-Pentanone	20	BRL
108-88-3	* Toluene	10	BRL
10061-01-5	* cis-1,3-Dichloropropene	10	BRL
79-00-5	* 1,1,2-Trichloroethane	10	BRL
127-18-4	* Tetrachloroethene	10	BRL
591-78-6	**2-Hexanone	20	BRL
124-48-1	* Dibromochloromethane	10	BRL
108-90-7	* Chlorobenzene	10	BRL
100-41-4	* Ethylbenzene	10	BRL
1330-20-7	**Total Xylenes	10	BRL
100-42-5	**Styrene	10	BRL
75-25-2	* Bromoform	10	BRL
79-34-5	* 1,1,2,2-Tetrachloroethane	10	BRL
541-73-1	* 1,3-Dichlorobenzene	10	BRL
106-46-7	* 1,4-Dichlorobenzene	10	BRL
95-50-1	* 1,2-Dichlorobenzene	10	BRL

CAS #	Surrogate Compounds	Limits	% Recovery
17060-07-0	1,2-Dichloroethane-d4	75-133%	116%
2037-26-5	Toluene-d8	80-123%	99%
460-00-4	p-Bromofluorobenzene	63-125%	88%

* A Method 624 priority pollutant compound (Federal Register, 10/26/84)
** A compound on the U.S. EPA CLP Hazardous Substance List (HSL)
\# A compound added by Anametrix, Inc. BRL : Below reporting limit.

ORGANIC ANALYSIS DATA SHEET - EPA METHOD 624/8240
ANAMETRIX, INC. (408) 629-1132

Sample I.D.	: JC0-104H MB-1	Anametrix I.D.	: 8803125-03
Matrix	: WATER	Analyst	: TC
Date sampled	: 03-22-88	Supervisor	: PG
Date analyzed	: 03-24-88	Date released	: 03-24-88
Dilution	: NONE	Instrument ID	: F1

CAS #	Compound Name	Reporting Limit (ug/l)	Amount Found (ug/l)
74-87-3	* Chloromethane	10	BRL
75-01-4	* Vinyl Chloride	10	BRL
74-83-9	* Bromomethane	10	BRL
75-00-3	* Chloroethane	10	BRL
75-69-4	* Trichlorofluoromethane	5	BRL
75-35-4	* 1,1-Dichloroethene	5	BRL
76-13-1	# Trichlorotrifluoroethane	5	BRL
67-64-1	**Acetone	20	BRL
75-15-0	**Carbondisulfide	5	BRL
75-09-2	* Methylene Chloride	5	BRL
156-60-5	* Trans-1,2-Dichloroethene	5	BRL
75-34-3	* 1,1-Dichloroethane	5	BRL
78-93-3	**2-Butanone	20	BRL
156-59-2	* Cis-1,2-Dichloroethene	5	BRL
67-66-3	* Chloroform	5	BRL
71-55-6	* 1,1,1-Trichloroethane	5	BRL
56-23-5	* Carbon Tetrachloride	5	BRL
71-43-2	* Benzene	5	BRL
107-06-2	* 1,2-Dichloroethane	5	BRL
79-01-6	* Trichloroethene	5	BRL
78-87-5	* 1,2-Dichloropropane	5	BRL
75-27-4	* Bromodichloromethane	5	BRL
110-75-8	* 2-Chloroethylvinylether	5	BRL
108-05-4	**Vinyl Acetate	10	BRL
10061-02-6	* Trans-1,3-Dichloropropene	5	BRL
108-10-1	**4-Methyl-2-Pentanone	10	BRL
108-88-3	* Toluene	5	BRL
10061-01-5	* cis-1,3-Dichloropropene	5	BRL
79-00-5	* 1,1,2-Trichloroethane	5	BRL
127-18-4	* Tetrachloroethene	5	BRL
591-78-6	**2-Hexanone	10	BRL
124-48-1	* Dibromochloromethane	5	BRL
108-90-7	* Chlorobenzene	5	BRL
100-41-4	* Ethylbenzene	5	BRL
1330-20-7	**Total Xylenes	5	BRL
100-42-5	**Styrene	5	BRL
75-25-2	* Bromoform	5	BRL
79-34-5	* 1,1,2,2-Tetrachloroethane	5	BRL
541-73-1	* 1,3-Dichlorobenzene	5	BRL
106-46-7	* 1,4-Dichlorobenzene	5	BRL
95-50-1	* 1,2-Dichlorobenzene	5	BRL

CAS #	Surrogate Compounds	Limits	% Recovery
17060-07-0	1,2-Dichloroethane-d4	75-133%	114%
2037-26-5	Toluene-d8	80-123%	100%
460-00-4	p-Bromofluorobenzene	63-125%	89%

* A Method 624 priority pollutant compound (Federal Register, 10/26/84)
** A compound on the U.S. EPA CLP Hazardous Substance List (HSL)
\# A compound added by Anametrix, Inc. BRL : Below reporting limit.

ORGANIC ANALYSIS DATA SHEET - EPA METHOD 624/8240
ANAMETRIX, INC. (408) 629-1132

Sample I.D. : JCO-104H TB-1
Matrix : WATER
Date sampled : 03-22-88
Date analyzed: 03-23-88
Dilution : NONE

Anametrix I.D. : 8803125-04
Analyst : TC
Supervisor : PG
Date released : 03-24-88
Instrument ID : F1

CAS #	Compound Name	Reporting Limit (ug/l)	Amount Found (ug/l)
74-87-3	* Chloromethane	10	BRL
75-01-4	* Vinyl Chloride	10	BRL
74-83-9	* Bromomethane	10	BRL
75-00-3	* Chloroethane	10	BRL
75-69-4	* Trichlorofluoromethane	5	BRL
75-35-4	* 1,1-Dichloroethene	5	BRL
76-13-1	# Trichlorotrifluoroethane	5	BRL
67-64-1	**Acetone	20	BRL
75-15-0	**Carbondisulfide	5	BRL
75-09-2	* Methylene Chloride	5	BRL
156-60-5	* Trans-1,2-Dichloroethene	5	BRL
75-34-3	* 1,1-Dichloroethane	5	BRL
78-93-3	**2-Butanone	20	BRL
156-59-2	* Cis-1,2-Dichloroethene	5	BRL
67-66-3	* Chloroform	5	BRL
71-55-6	* 1,1,1-Trichloroethane	5	BRL
56-23-5	* Carbon Tetrachloride	5	BRL
71-43-2	* Benzene	5	BRL
107-06-2	* 1,2-Dichloroethane	5	BRL
79-01-6	* Trichloroethene	5	BRL
78-87-5	* 1,2-Dichloropropane	5	BRL
75-27-4	* Bromodichloromethane	5	BRL
110-75-8	* 2-Chloroethylvinylether	5	BRL
108-05-4	**Vinyl Acetate	10	BRL
10061-02-6	* Trans-1,3-Dichloropropene	5	BRL
108-10-1	**4-Methyl-2-Pentanone	10	BRL
108-88-3	* Toluene	5	BRL
10061-01-5	* cis-1,3-Dichloropropene	5	BRL
79-00-5	* 1,1,2-Trichloroethane	5	BRL
127-18-4	* Tetrachloroethene	5	BRL
591-78-6	**2-Hexanone	10	BRL
124-48-1	* Dibromochloromethane	5	BRL
108-90-7	* Chlorobenzene	5	BRL
100-41-4	* Ethylbenzene	5	BRL
1330-20-7	**Total Xylenes	5	BRL
100-42-5	**Styrene	5	BRL
75-25-2	* Bromoform	5	BRL
79-34-5	* 1,1,2,2-Tetrachloroethane	5	BRL
541-73-1	* 1,3-Dichlorobenzene	5	BRL
106-46-7	* 1,4-Dichlorobenzene	5	BRL
95-50-1	* 1,2-Dichlorobenzene	5	BRL

CAS #	Surrogate Compounds	Limits	% Recovery
17060-07-0	1,2-Dichloroethane-d4	75-133%	103%
2037-26-5	Toluene-d8	80-123%	107%
460-00-4	p-Bromofluorobenzene	63-125%	97%

* A Method 624 priority pollutant compound (Federal Register, 10/26/84)
** A compound on the U.S. EPA CLP Hazardous Substance List (HSL)
\# A compound added by Anametrix, Inc. BRL : Below reporting limit.

ORGANIC ANALYSIS DATA SHEET - EPA METHOD 624/8240
ANAMETRIX, INC. (408) 629-1132

Sample I.D.	: METHOD BLANK	Anametrix I.D.	: 1CB0323V000
Matrix	: WATER	Analyst	: TC
Date sampled	: NA	Supervisor	: PG
Date analyzed	: 03-23-88	Date released	: 03-24-88
Dilution	: NONE	Instrument ID	: F1

CAS #	Compound Name	Reporting Limit (ug/l)	Amount Found (ug/l)
74-87-3	* Chloromethane	10	BRL
75-01-4	* Vinyl Chloride	10	BRL
74-83-9	* Bromomethane	10	BRL
75-00-3	* Chloroethane	10	BRL
75-69-4	* Trichlorofluoromethane	5	BRL
75-35-4	* 1,1-Dichloroethene	5	BRL
76-13-1	# Trichlorotrifluoroethane	5	BRL
67-64-1	**Acetone	20	BRL
75-15-0	**Carbondisulfide	5	BRL
75-09-2	* Methylene Chloride	5	BRL
156-60-5	* Trans-1,2-Dichloroethene	5	BRL
75-34-3	* 1,1-Dichloroethane	5	BRL
78-93-3	**2-Butanone	20	BRL
156-59-2	* Cis-1,2-Dichloroethene	5	BRL
67-66-3	* Chloroform	5	BRL
71-55-6	* 1,1,1-Trichloroethane	5	BRL
56-23-5	* Carbon Tetrachloride	5	BRL
71-43-2	* Benzene	5	BRL
107-06-2	* 1,2-Dichloroethane	5	BRL
79-01-6	* Trichloroethene	5	BRL
78-87-5	* 1,2-Dichloropropane	5	BRL
75-27-4	* Bromodichloromethane	5	BRL
110-75-8	* 2-Chloroethylvinylether	5	BRL
108-05-4	**Vinyl Acetate	10	BRL
10061-02-6	* Trans-1,3-Dichloropropene	5	BRL
108-10-1	**4-Methyl-2-Pentanone	10	BRL
108-88-3	* Toluene	5	BRL
10061-01-5	* cis-1,3-Dichloropropene	5	BRL
79-00-5	* 1,1,2-Trichloroethane	5	BRL
127-18-4	* Tetrachloroethene	5	BRL
591-78-6	**2-Hexanone	10	BRL
124-48-1	* Dibromochloromethane	5	BRL
108-90-7	* Chlorobenzene	5	BRL
100-41-4	* Ethylbenzene	5	BRL
1330-20-7	**Total Xylenes	5	BRL
100-42-5	**Styrene	5	BRL
75-25-2	* Bromoform	5	BRL
79-34-5	* 1,1,2,2-Tetrachloroethane	5	BRL
541-73-1	* 1,3-Dichlorobenzene	5	BRL
106-46-7	* 1,4-Dichlorobenzene	5	BRL
95-50-1	* 1,2-Dichlorobenzene	5	BRL

CAS #	Surrogate Compounds	Limits	% Recovery
17060-07-0	1,2-Dichloroethane-d4	75-133%	111%
2037-26-5	Toluene-d8	80-123%	104%
460-00-4	p-Bromofluorobenzene	63-125%	93%

* A Method 624 priority pollutant compound (Federal Register, 10/26/84)
** A compound on the U.S. EPA CLP Hazardous Substance List (HSL)
\# A compound added by Anametrix, Inc. BRL : Below reporting limit.

APPENDIX C

OK
Dan Salaices
4-6-88

Serial Number 045
WA Project Number JCO-104H
Page 1 of 2

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Date Sample Shipped 4-6-88
Name of Laboratory Sequoia Labs
Lab Project Manager Scott Cocanour
Turnaround Time 15 days
Report to Robert Breymaert

Collector Bob Breymaert / Peter Lyon
Affiliation Wahler Associates
Address 1023 Corporation Way PA.
Phone (415) 968-6250

Sample Information

Perform following analyses on all samples

Your Sample I.D.	Date Collected	Matrix	Container	Analysis Requested
B-9, R-1	4-5-88	Soil	1 ring	✓ (1) EPA 8240 Open Scan
B-9, R-2	4-5-88	Soil	1 ring	(2) EPA 8040
B-9, R-3	4-5-88	Soil	1 ring	✓ (3) TPH as Lacquer Thinner
B-9, R-4	4-5-88	Soil	1 ring	✓ (4) TPH as Paint Thinner
B-9, R-5	4-5-88	Soil	1 ring	✓ (5) TPH as Kerosene
B-9, R-6	4-5-88	Soil	1 ring	✓ (6) TPH as Diesel
B-10, R-7	4-5-88	Soil	1 ring	✓ (7) Alcohols / Acetone
B-10, R-8	4-5-88	Soil	1 ring	

Comments Perform same set of seven tests on all soil samples.
Provide JCO-104H QC data package plus chromatograms

Wahler Contact Person Bob Breymaert Phone (415) 968-6250

Chain of Possession

	Relinquished by (Sign. & affiliation)	Date	Time	Received by (Sign. & affiliation)	Date	Time
1.	[signature]	4/6/88	1200	[signature]	4/6/88	1200
		/ /			/ /	
2.		/ /			/ /	
		/ /			/ /	
3.		/ /			/ /	
		/ /			/ /	

Wahler Associates

Serial Number 045
WA Project Number JCO-104H
Page 2 of 2

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM (Cont'd)

Sample Information

Perform following analyses on all samples

Your Sample I.D.	Date Collected	Matrix	Container	Analysis Requested
B-10, R-9	4-5-88	Soil	1 ring	(1) EPA 8240 OpenScan
B-10, R-10	4-5-88	Soil	1 ring	(2) EPA 8040
B-10, R-11	4-5-88	Soil	1 ring	(3) TPH as Lacquer Thinner
B-10, R-12	4-5-88	Soil	1 ring	(4) TPH as Paint Thinner
B-11, R-13	4-5-88	Soil	1 ring	(5) TPH as Kerosene
B-11, R-14	4-5-88	Soil	1 ring	(6) TPH as Diesel
B-11, R-15	4-5-88	Soil	1 ring	(7) alcohols/Acetone
B-11, R-16	4-5-88	Soil	1 ring	
B-11, R-17	4-5-88	Soil	1 ring	
B-11, R-18	4-5-88	Soil	1 ring	
B-12, R-19	4-5-88	Soil	1 ring	
B-12, R-20	4-5-88	Soil	1 ring	
B-12, R-21	4-5-88	Soil	1 ring	

Comments Perform same set of seven analyses on all soil samples
Provide JCO-104H QC data package with chromatograms

Wahler Contact Person Bob Braynsert Phone (415) 969-6250

Wahler Associates

Checked by Amy Chau

Serial Number 077
WA Project Number JCO-104H
Page 1 of 1

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Date Sample Shipped 5-17-88
Name of Laboratory Sequoia Laboratories
Lab Project Manager Scott Cocanour
Turnaround Time 5 days
Report to Bob Breynaert

Collector Bob Breynaert
Affiliation Wahler Associates
Address 1023 Corporation Way PA.
Phone (415) 968-6250

Sample Information

Perform 7 analyses on all samples

Your Sample I.D.	Date Collected	Matrix	Container	Analysis Requested
SB-2	5-17-88	SOIL	1 Liner	(1) EPA 8240 OpenScan
SB-4	5-17-88	SOIL	1 Liner	(2) EPA 8040
SB-3	5-17-88	SOIL	1 Liner	(3) TPH as Lacquer Thinner
SB-7	5-17-88	SOIL	1 Liner	(4) TPH as Paint Thinner
				(5) TPH as Kerosene
				(6) TPH as Diesel
				(7) Alcohols/Acetone

Comments Please perform seven analyses on all samples
Supply QC data with analysis results
Results due by Tuesday May 24, 1988

Wahler Contact Person Bob Breynaert
Phone (415) 968-6250

Chain of Possession

	Relinquished by (Sign. & affiliation)	Date	Time	Received by (Sign. & affiliation)	Date	Time
1.	[signature]	5/17/88	1720	[signature]	5/17/88	5:20
		/ /			/ /	
2.		/ /			/ /	
		/ /			/ /	
3.		/ /			/ /	
		/ /			/ /	

Wahler Associates

Serial Number 032
WA Project Number JCO-1044
Page 1 of 2

Checked by Amy Chau

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Date Sample Shipped

Name of Laboratory Sequoia Labs

Lab Project Manager Scott Cocanour

Turnaround Time 48 Hours!

Report to Bob Breynaert

Collector Michelle Stay / Mike Chin

Affiliation Wahler Associates

Address 1023 Corporation Way PA

Phone (415) 968-6250

Sample Information

Your Sample I.D.	Date Collected	Matrix	Container	Analysis Requested
V-8	3-22-88	H_2O	(2) VOA	EPA 8010 plus acetone, MEK and xylenes
V-8	3-22-88	H_2O	(2) VOA	Turbidity
V-9	3-22-88	H_2O	(2) VOA	EPA 8010 plus acetone, MEK and xylenes
V-9	3-22-88	H_2O	2 VOA	Turbidity

Comments Please include QA/QC Data package. Results no later than 3-24-88!

Wahler Contact Person Bob Breynaert

Phone (415) 968-6250

Chain of Possession

	Relinquished by (Sign. & affiliation)	Date	Time	Received by (Sign. & affiliation)	Date	Time
1.	Mike Chin	3/22/88	6:15	S. Cocanour	3/22	1815
		/ /			/ /	
2.		/ /			/ /	
		/ /			/ /	
3.		/ /			/ /	
		/ /			/ /	

Wahler Associates

Serial Number 032
WA Project Number
Page 2 of 2

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM (Cont'd)

Sample Information

Your Sample I.D.	Date Collected	Matrix	Container	Analysis Requested
U-10	3-22-88	H_2O	2 VOA	EPA 8010
U-10	3-22-88	H_2O	2 ambers	TPHGas Diesel including B,T,X
U-10	3-22-88	H_2O	2 VOA	Turbidity

Comments Same as on Page 1

Wahler Contact Person Bob Breynaert Phone (415) 968-6250

Wahler Associates

Serial Number 033
WA Project Number JC07-04H
Page 1 of 1

Checked by Amy Chau

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Date Sample Shipped 3-22-88
Name of Laboratory Anametrix Inc.
Lab Project Manager Sarah Schoen
Turnaround Time 48 HOURS
Report to Bob Breynaert

Collector Michelle Stay / Mike Chin
Affiliation Wahler Associates
Address 1023 Corporation Way P.A.
Phone (415) 968-6250

Sample Information

Your Sample I.D.	Date Collected	Matrix	Container	Analysis Requested (Perform following analysis on all four samples)
V-8	3-22-88	H_2O	(2) VOA	EPA 8240 including acetone, MEK and xylenes
V-4	3-22-88	H_2O	(2) VOA	
MB-1	3-22-88	H_2O	(2) VOA	
TB-1	3-22-88	H_2O	(2) VOA	

Comments Perform EPA 8240 plus analysis for acetone, MEK, and xylenes on samples V-8, V-4, MB-1 and TB-1. Please have results delivered by Thursday 3-24-88! Include sample chromatograms, internal blanks, and volatile matrix spike report.

Wahler Contact Person Bob Breynaert Phone (415) 968-6250

Chain of Possession

	Relinquished by (Sign. & affiliation)	Date	Time	Received by (Sign. & affiliation)	Date	Time
1.	Michelle Stay Wahler	3/22/88	7:10pm	Paul Howan ANAMETRIX, INC	3/22/88	19:10
2.		/ /			/ /	
		/ /			/ /	
3.		/ /			/ /	
		/ /			/ /	

Wahler Associates

Serial Number 034
WA Project Number JCO-1041H
Page 1 of 2

Checked : Amy Chau

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Date Sample Shipped 3-24-88
Name of Laboratory Sequoia Labs.
Lab Project Manager Scott Cocanour
Turnaround Time 15 day
Report to Bob Breynaert

Collector Michelle Stay / Mike Chin
Affiliation Wahler Associates
Address 1023 Corporation Way PA.
Phone (415) 968-6250

Sample Information

Your Sample I.D.	Date Collected	Matrix	Container	Analysis Requested (perform following analyses on all samples)
		H_2O	(2) VOA	① EPA METHOD 8240 plus MEK and Xyl
V-4	3-22-88	H_2O	(2) Ambers	② TPHGS Paint Thinner
V-5	3-23-88	H_2O	(2) Ambers	③ EPA 8040 (Phenols)
V-6	3-23-88	H_2O	(2) VOAS	④ Alcohols / Acetone
V-7	3-23-88	H_2O	(2) VOAS	⑤ Turbidity.
I-1	3-23-88	H_2O		
* I-2	3-23-88	H_2O		
I-3	3-23-88	H_2O		

Comments Please include QA/QC data along with chromatograms
written results will be submitted by
Quantify TPH scans using standards provided to Sequoia on 3-8-88.
* Any samples marked V-2 should be marked I-2

Wahler Contact Person Bob Breynaert Phone (415) 968-6250

Chain of Possession

	Relinquished by (Sign. & affiliation)	Date	Time	Received by (Sign. & affiliation)	Date	Time
1.	[signature]	3/24/88	936	[signature]	3/24/88	9:36
		/ /			/ /	
2.		/ /			/ /	
		/ /			/ /	
3.		/ /			/ /	
		/ /			/ /	

Wahler Associates

Serial Number 034
WA Project Number JCO-10
Page 2 of 2

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM (Cont'd)

Sample Information

Your Sample I.D.	Date Collected	Matrix	Container	Analysis Requested
V-3	5-22-88	H_2O	2-VOA	EPA 8240 Plus MEK and Xylene
V-3	"	H_2O	2-ambers	TPHcs Paint Thinner
V-3	"	H_2O	2-ambers	TPHas Lacquer Thinner
V-3	"	H_2O	2-ambers	TPHas Diesel
V-3	"	H_2O	2-ambers	TPHas Kerosene
V-3	"	H_2O	2-ambers	EPA 8040 (phenols)
V-3	"	H_2O	2-VOA	Alcohols/Acetone
V-3	"	H_2O	—	Turbidity
V-4	5-23-88	H_2O	2-VOA	EPA 8240 plus MEK and Xylene

Comments Same as Page 1
* duplicate sample.

Wahler Contact Person _____ Phone (___) _____

Wahler Associates

Serial Number 035
WA Project Number JCO-1044
Page 1 of 1

Checked: Amy Chau

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Date Sample Shipped 3-24-88
Name of Laboratory Sequoia Labs
Lab Project Manager Scott Cocanour
Turnaround Time 15 days
Report to Bob Breynaert

Collector Michelle Stay
Affiliation Wahler Associates
Address 1023 Corporation Way Palo Alto
Phone (415) 968-6250

Sample Information

Your Sample I.D.	Date Collected	Matrix	Container	Analysis Requested
V-1	3-24-88	H_2O	2 VOA	EPA Method 8240 plus MEK and Xylene
V-1	3-24-88	H_2O	2 Ambers	TPH as Paint Thinner
V-1	3-24-88	H_2O	2 Ambers	EPA 8040 (Phenols)
V-1	3-24-88	H_2O	2 VOA	Alcohols/Acetone
V-1	3-24-88	H_2O	2 VOA	Turbidity.

Comments Please include QC data along with Chromatograms
Written results should be submitted by April 14, 1988
Quantify TPH vs. Paint Thinner using standard sample provided to Sequoia.

Wahler Contact Person Bob Breynaert Phone (415) 968-6250

Chain of Possession

	Relinquished by (Sign. & affiliation)	Date	Time	Received by (Sign. & affiliation)	Date	Time
1.	Michelle Stay	3/24/88	3:35	Ronald E. Fabre	3/24/88	3:30
		/ /			/ /	
2.		/ /			/ /	
		/ /			/ /	
3.		/ /			/ /	
		/ /			/ /	

Wahler Associates

APPENDIX D

WATER SAMPLING PARAMETERS

DATE: 3-22-88

PROJECT NO.: JCO-104H

LOCATION: JASCO

SAMPLERS: MS-MC

SAMPLE ID: V-1

~~3bv~~ 5bv 20 gal

WATER LEVEL	GALLONS REMOVED	TIME	TEMP. C°	pH	Eh (mV)	COND. (micromhos)	DO mg/l	Q GPM	BOH
24.14	~~0~~	2:45							
	5								
	10								
	15								
	20								

TIME SAMPLED:

COMMENTS: if we can get 12 gals (3bv) then sample

Dry at 2 gals.

3:40 method blank

4:20 - still no water in well, try again tomorrow

SAMPLES TAKEN	
	EPA 624
	EPA 625
	EPA 608
	METALS
	CYANIDE

Wahler Associates

WATER SAMPLING PARAMETERS

DATE: 3-24-88

PROJECT NO.: JCO-104H

LOCATION: JASCO

SAMPLERS: MS

SAMPLE ID: V-1

3BV: 9 gals

WATER LEVEL	GALLONS REMOVED	TIME	TEMP. C°	pH	Eh (mV)	COND. (micromhos)	DO mg/l	Q GPM	BOH
24.22	~~0~~	11:25							
	1	11:45	18.0	7.09		1719			
	2	11:50	18.1	6.95		1675			
	3								
	4	11:55	18.0	6.95		1776			
	5	12:00	18.0	7.03		1787			
	7	12:05	18.1	6.99		1815			
	9	12:11	17.9	6.98		1790			

TIME SAMPLED: 12:20 - 12:25 12:30

COMMENTS: BOH = 42.03

SAMPLES TAKEN	
	EPA 624
	EPA 625
	EPA 608
	METALS
	CYANIDE
6	VOAS
4	amber

Wahler Associates

WATER SAMPLING PARAMETERS

DATE: 3-22-88

PROJECT NO.: JCO-104H

LOCATION: JASCO

SAMPLERS: MS-MC

SAMPLE ID: V-3

~~3BV~~ 5BV: 60 Gals

WATER LEVEL	GALLONS REMOVED	TIME	TEMP. C°	pH	Eh (mV)	COND. (micromhos)	DO mg/l	Q GPM	BOH
23.73	0								
	5	3:30	19.2	6.54		3.72			
	15	3:43	19.1	6.62		3.36			
	25	4:09	19.1	6.66		3.11			
	35	4:25	19.0	6.75		2.86			
	45	4:50	18.8	6.76		2.61			
	50	5:00	18.8	6.80		2.58			

TIME SAMPLED: 500

COMMENTS: 36.20 - water level after ~30 gals removed

SAMPLES TAKEN	
	EPA 624
	EPA 625
	EPA 608
	METALS
	CYANIDE

Wahler Associates

WATER SAMPLING PARAMETERS

DATE: 3-23-88

PROJECT NO.: JCO-1014

LOCATION: JASCO

SAMPLERS: MS-MC

SAMPLE ID: V-5

BY:

WATER LEVEL	GALLONS REMOVED	TIME	TEMP. C°	pH	Eh (mV)	COND. (micromhos)	DO mg/l	Q GPM	BOH
26.50	0	3:30							
	5	3:43	17.7	7.32		1.27			
	8	3:55	17.7	7.31		1.41			

TIME SAMPLED: 400-410 pm

COMMENTS: @ 8 gals well was almost dry so we took samples then.

SAMPLES TAKEN	
	EPA 624
	EPA 625
	EPA 608
	METALS
	CYANIDE

Wahler Associates

WATER SAMPLING PARAMETERS

DATE: 3-23-88

PROJECT NO.: JCO-104H

LOCATION: JASCO

SAMPLERS: MS MC

SAMPLE ID: V-6

~~3BV~~ 5BV: 15 gals

WATER LEVEL	GALLONS REMOVED	TIME	TEMP. C°	pH	Eh (mV)	COND. (micromhos)	DO mg/l	Q GPM	BDH
25.67	~~0~~	4:10							
	5	4:32	17.8	7.09		1239			
	10	4:37	17.7	7.28		1241			
	15	4:42	17.7	7.13		1250			

TIME SAMPLED:

COMMENTS:

SAMPLES TAKEN	
	EPA 624
	EPA 625
	EPA 608
	METALS
	CYANIDE

Wahler Associates

WATER SAMPLING PARAMETERS

DATE: 3-23-88

PROJECT NO.: JCO-104H

LOCATION: Central Exp. (MV)

SAMPLERS: MS-MC

SAMPLE ID: V-7

~~SBY~~ SBV: 10 gal

WATER LEVEL	GALLONS REMOVED	TIME	TEMP. C°	pH	Eh (mV)	COND. (micromhos)	DO mg/l	Q GPM	BOH
23.77	~~0~~	12:30							
	2	12 40	18.2	6.97		1.88			
	4	1250	18.8	7.00		1.83			
	8	1:00	18.6	7.01		1.82	X 1000		
	10	1:05	18.7	7 00		1.88			

TIME SAMPLED: 1:10 → 1:15

COMMENTS:

SAMPLES TAKEN	
	EPA 624
	EPA 625
	EPA 608
	METALS
	CYANIDE

Wahler Associates

WATER SAMPLING PARAMETERS

DATE: 3-22-88

PROJECT NO.: JCO-104H

LOCATION: Central Exp.

SAMPLERS: MS-MC

SAMPLE ID: V-8

~~TRV:~~ 5BV 11 gal

WATER LEVEL	GALLONS REMOVED	TIME	TEMP. C°	pH	Eh (mV)	COND. (micromhos)	DO mg/l	Q GPM	BOH
24.30	Ø	1:20							
	1		19.3	7.04		2.41			
	4	1:37	19.3	7.08		2.24			
	7	1:41	18.9	7.01		2.14			
	11	1:47	18.8	7.03		2.13			

TIME SAMPLED: 1:48pm @ 205

COMMENTS:

SAMPLES TAKEN	
	EPA 624
	EPA 625
	EPA 608
	METALS
	CYANIDE
6	VOA'S

Wahler Associates

WATER SAMPLING PARAMETERS

DATE: 3-22-88

PROJECT NO.: JCO-104H

LOCATION: JASCO

SAMPLERS: MS-MC

SAMPLE ID: V-9

~~3BV~~ 5BV: 5gal

WATER LEVEL	GALLONS REMOVED	TIME	TEMP. C°	pH	Eh (mV)	COND. (micromhos)	DO mg/l	Q GPM	BOH
23.65	Ø	11:45							
	1	12:00	19.3	7.24		1732			
	3	12:03	19.4	7.11		1481			
	5	12:06	19.2	7.14		1492			

TIME SAMPLED: 12:07

COMMENTS:

SAMPLES TAKEN	
	EPA 624
	EPA 625
	EPA 608
	METALS
	CYANIDE
4	VOA'S

Wahler Associates

27
23

WATER SAMPLING PARAMETERS

DATE: 3-22-88

PROJECT NO.: JCO-104H

LOCATION:

SAMPLERS: MS & MC

SAMPLE ID: V-10

~~2DV~~ 5BV: 6gal

WATER LEVEL	GALLONS REMOVED	TIME	TEMP. C°	pH	Eh (mV)	COND. (micromhos)	DO mg/l	Q GPM	BOH
25.0	∅	10:05		from	christy	box			
24.73	∅	10:05		from	top of	locking device			
	2	1035	17.7	7.16		1373			
	4	10:45	18.1	7.07		1335			
	6	10:50	18.1	7.24		1353			

TIME SAMPLED: 11:00

COMMENTS:

SAMPLES TAKEN	
	EPA 624
	EPA 625
	EPA 608
	METALS
	CYANIDE
2	turbidity vials
2	EPA 8010 vials
2	TPH w/BTX ambers (2

Wahler Associates

WATER SAMPLING PARAMETERS

DATE: 3-23-88

PROJECT NO.: JCO-104H

LOCATION: Jasco

SAMPLERS: MS·MC

SAMPLE ID: I-1

~~3BV~~ 5BV: 27 gals

WATER LEVEL	GALLONS REMOVED	TIME	TEMP. C°	pH	Eh (mV)	COND. (micromhos)	DO mg/l	Q GPM	BOH
26.8	Ø								
	5	10:15	17.3	7.25		1.13			
	10	10:30	17.4	7.25		1.26			
	15	10:39	17.3	7.29		1.20			
	25	10:59	17.4	7.21		1.17			

TIME SAMPLED: 11:05 am

COMMENTS:

SAMPLES TAKEN	
	EPA 624
	EPA 625
	EPA 608
	METALS
	CYANIDE

Wahler Associates

WATER SAMPLING PARAMETERS

DATE: 3-23-88

PROJECT NO.: JCO-104 H

LOCATION: Central Express

SAMPLERS: MS MC

SAMPLE ID: I-2

~~3BV~~ 5BV: 26 gal

WATER LEVEL	GALLONS REMOVED	TIME	TEMP. C°	pH	Eh (mV)	COND. (micromhos)	DO mg/l	Q GPM	BOH
24.4	Ø								
	5	12:10	17.7	7.19		1.28			
	10	12:18	18.5	7.16		1.30	x 1000		
	15	12:23	18.4	7.17		1.24			
	26	12:50	18.4	7.15		1.26			

TIME SAMPLED: 12:50

COMMENTS:

SAMPLES TAKEN	
	EPA 624
	EPA 625
	EPA 608
	METALS
	CYANIDE

Wahler Associates

WATER SAMPLING PARAMETERS

DATE: 3-23-88

PROJECT NO.: JCO-1044

LOCATION: Central Express.

SAMPLERS: MS-MC

SAMPLE ID: I-3

~~SBV~~ SBV: 26 gal.

WATER LEVEL	GALLONS REMOVED	TIME	TEMP. C°	pH	Eh (mV)	COND. (micromhos)	DO mg/l	Q GPM	BDH
24.12	~~0~~	2:00							
	5	2:15	18.1	7.18		1.18 x 1000			
	10	2:22	18.1	7.26		1.18 x 1000			
	15	2:30	18.0	7.35		1.16 x 1000			
	25	2:48	17.9	7.27		1.15 x 1000			

TIME SAMPLED: 2:50

COMMENTS:

SAMPLES TAKEN	
	EPA 624
	EPA 625
	EPA 608
	METALS
	CYANIDE
4	amber's
6	VOA's

Wahler Associates

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/22/88
Date Received: 03/24/88
Date Reported: 04/13/88
Project: #JCO-104H

Q.C. DATA REPORT

Analyst: W. Amundsen
Date of Analysis: 4/1/88
Method of Analysis: EPA 8240 & Open Scan
Detection Limit: 2-10
Units: ppb

Sample Number	Analyte	Original Result	Duplicate Result	% Deviation
8031747	1,1-Dichloro-ethane	29	27	3.6

Sample Number	Analyte	Sample Contribution	Spike Added	Spike Result	% Recovery
8031747	2-Bromo-1-Chloropropane	< 2	50	45.7	91

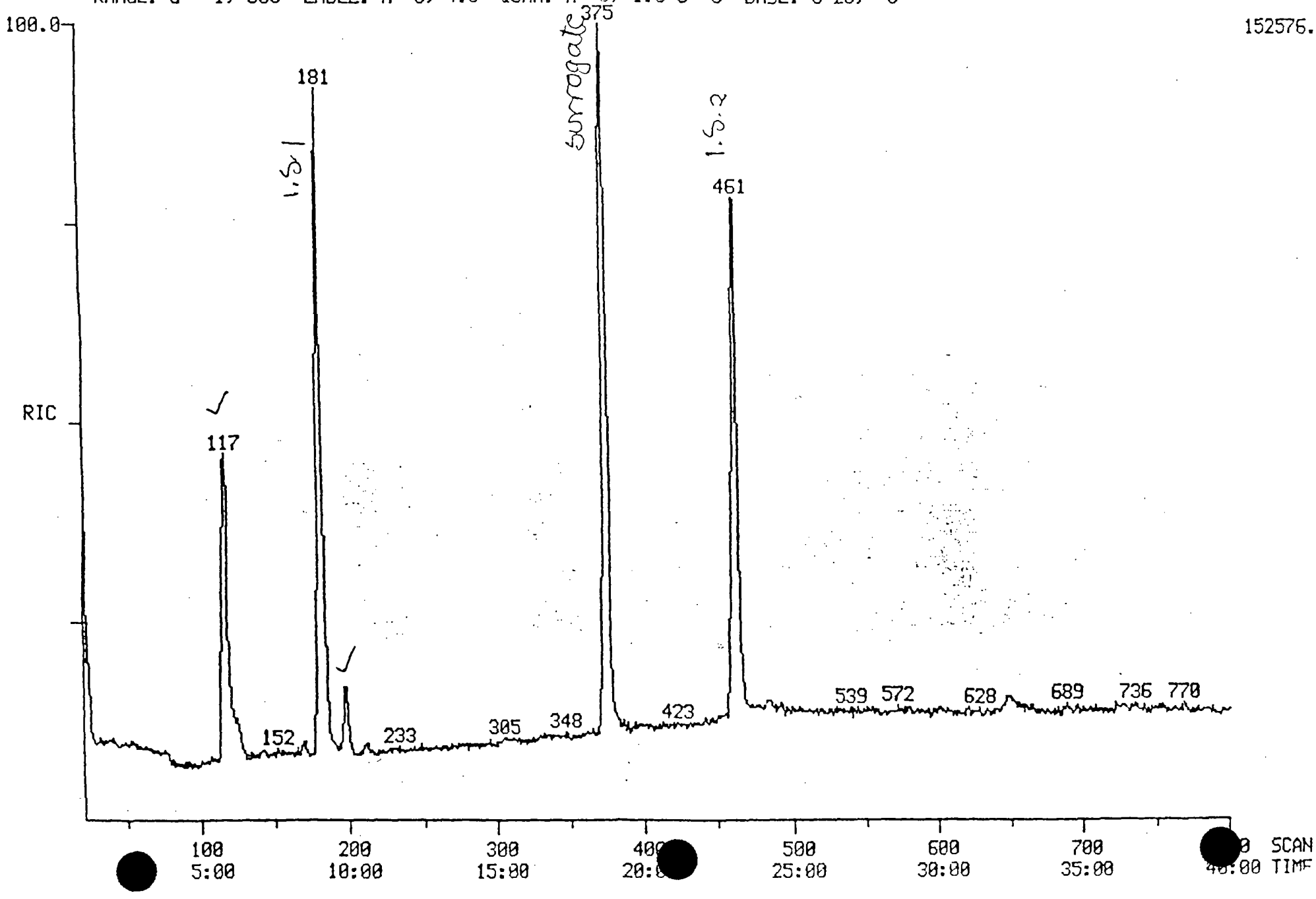
SEQUOIA ANALYTICAL LABORATORY

Scot Cocanour

Arthur G. Burton
Laboratory Director

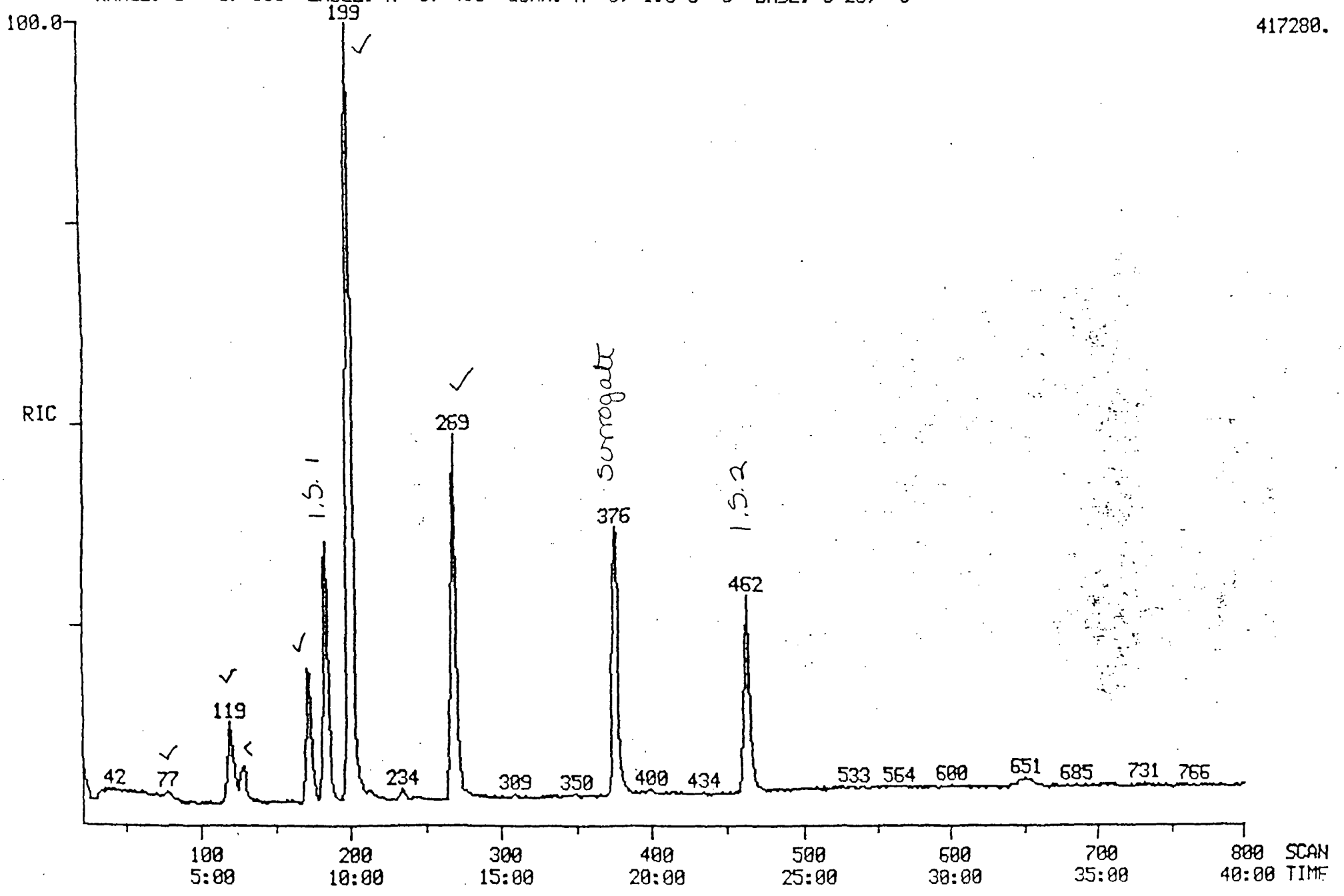
RIC
04/01/88 11:53:00
SAMPLE: JCO V-1 (5ML)
CONDS.: VOA METHOD
RANGE: G 1, 800 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: VOA8031743 #197 SCANS 20 TO 800
CALI: VOA8031743 #2



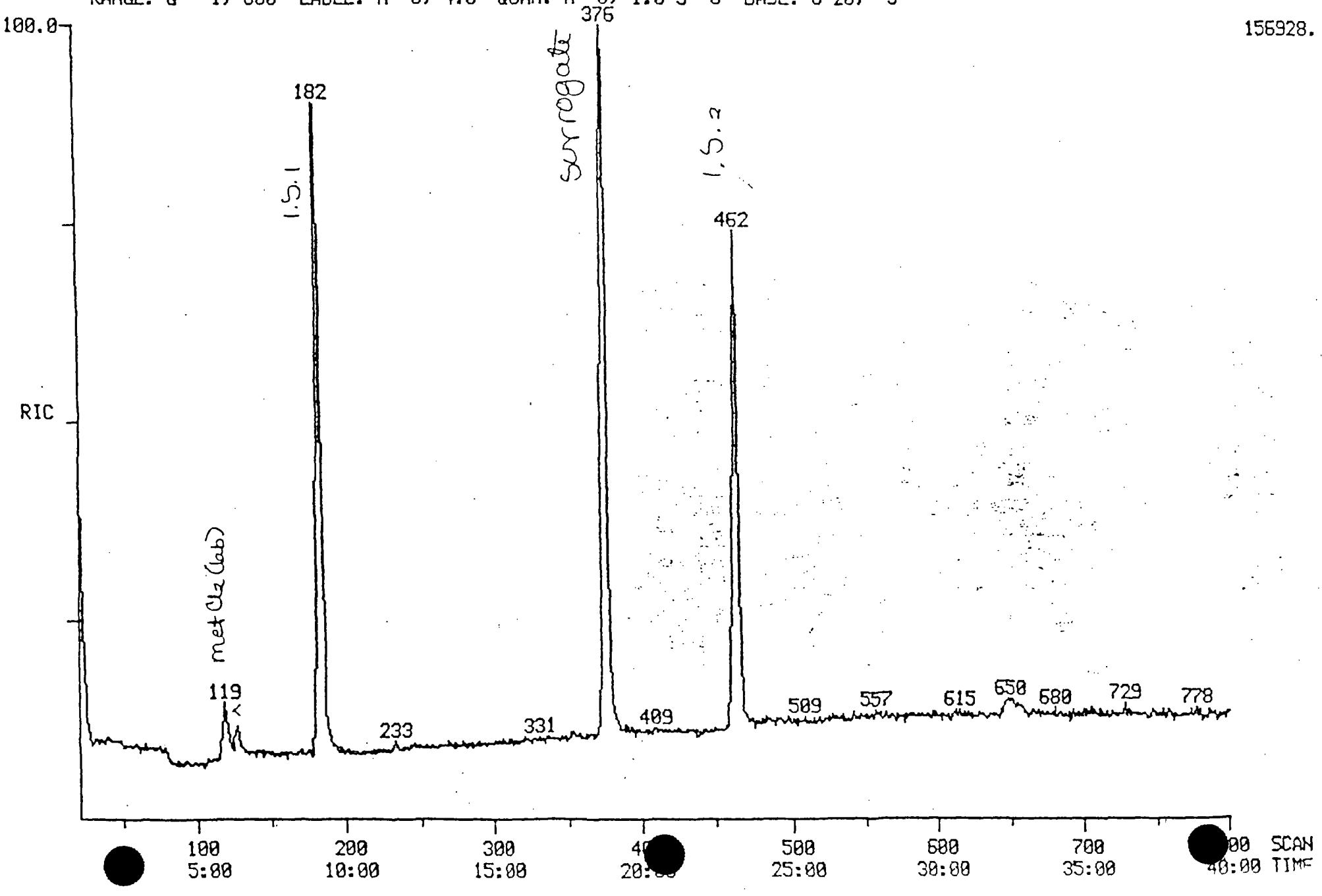
C
04/01/88 15:52:00
SAMPLE: JCO V-4 (2.5ML/5ML)
CONDS.: VOA METHOD
RANGE: G 1, 800 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: VOA8031744 #1 SCANS 20 TO 800
CALI: VOA8031744 #2



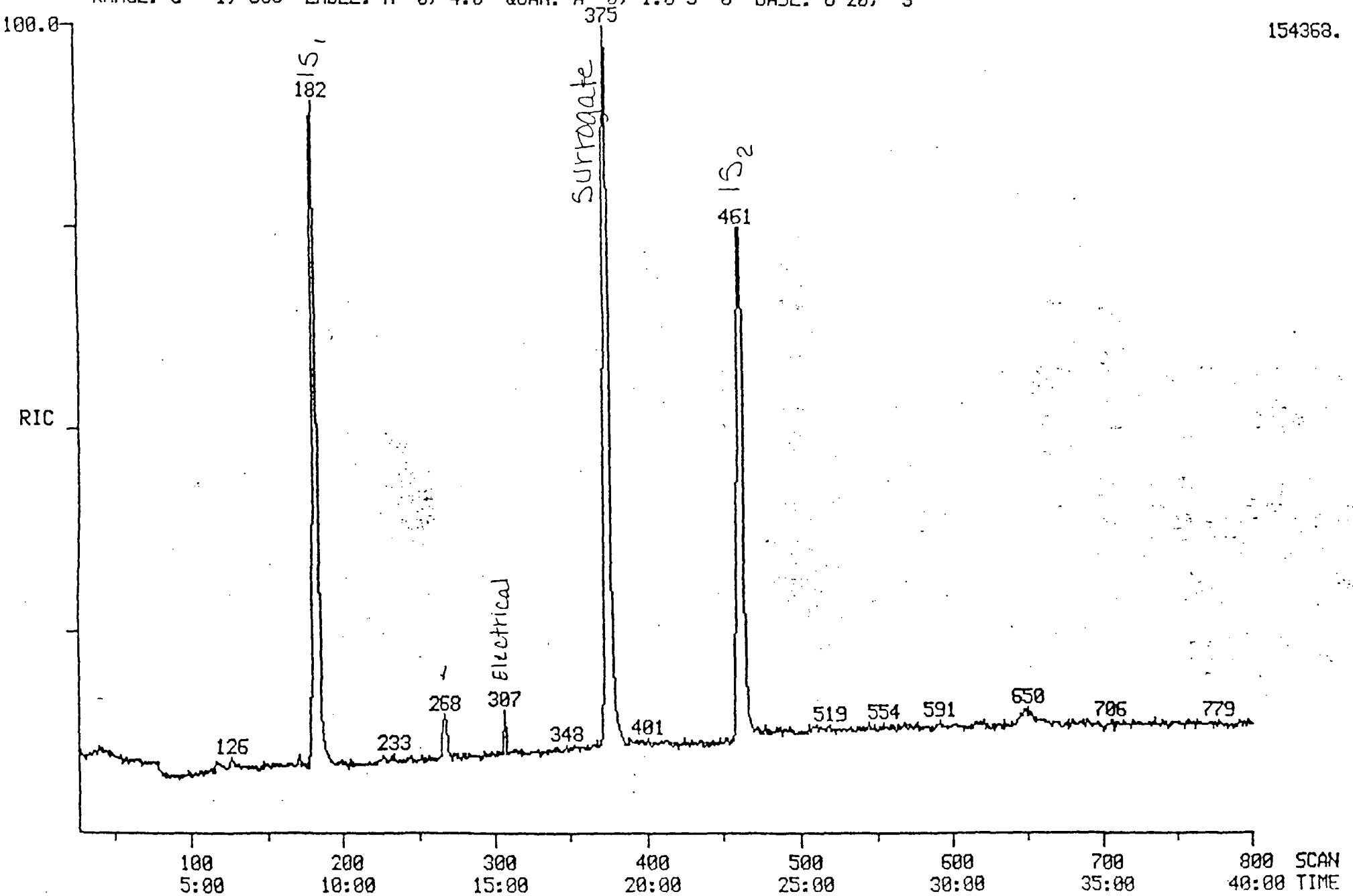
RIC
04/01/88 17:46:00
SAMPLE: JCO V-5 (5ML)
CONDS.: VOA METHOD
RANGE: G 1, 800 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: VOA8031745 #1 SCANS 20 TO 800
CALI: VOA8031745 #2



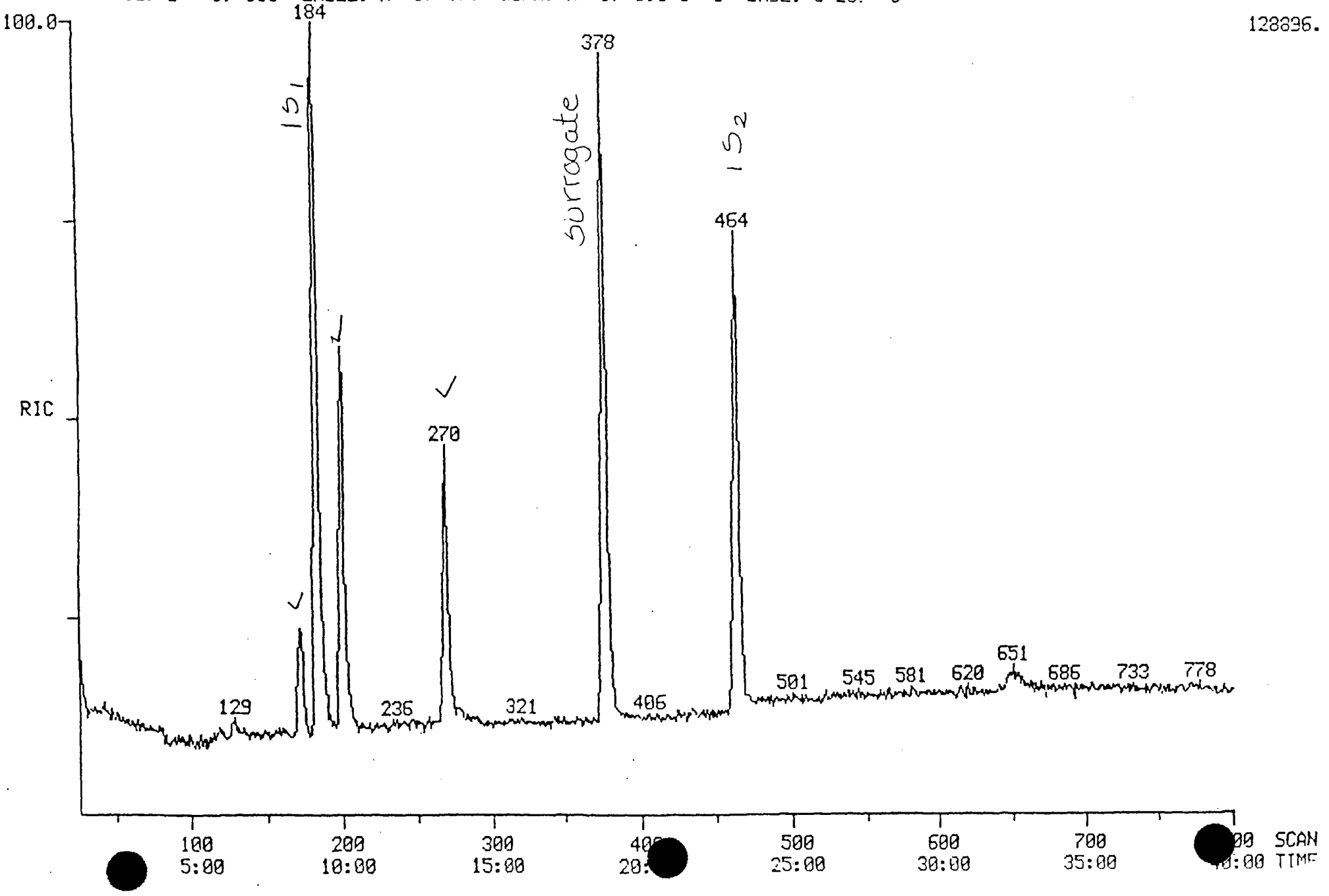
04/01/88 18:43:00
SAMPLE: JCO V-6 (5ML)
CONDS.: VOA METHOD
RANGE: G 1, 800 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: VOA8031746 #307 SCANS 25 TO 800
CALI: VOA8031746 #2



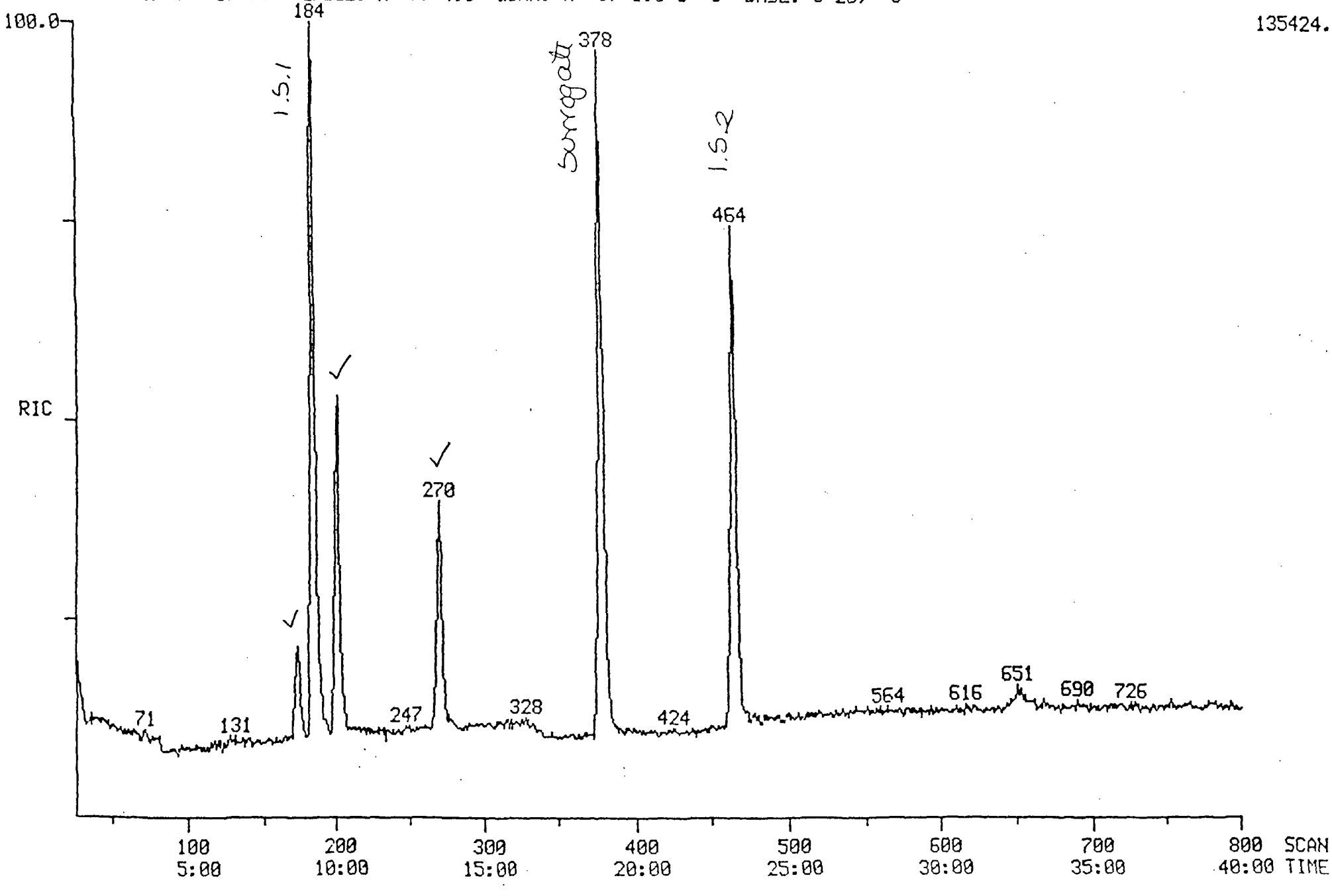
RIC
04/04/88 10:40:00
SAMPLE: JCO V-7 (5ML)
CONDS.: VOA METHOD
RANGE: G 1, 800 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: VOA8031747 #1 SCANS 25 TO 800
CALI: VOA8031747 #2



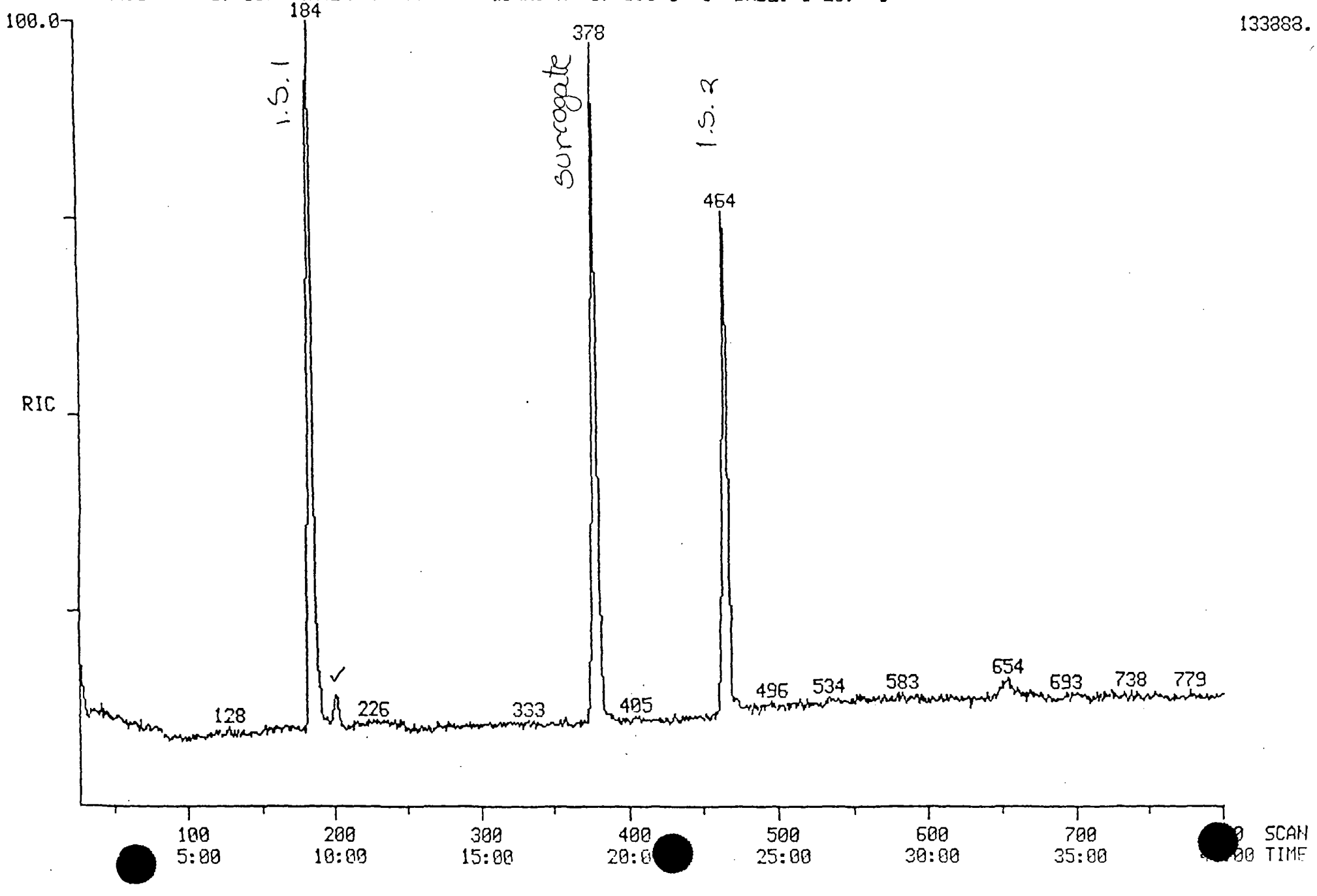
C
04/04/88 11:41:00
SAMPLE: JCO V-7 DUP (5ML)
CONDS.: VOA METHOD
RANGE: G 1, 800 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: VOA8031747A #271 SCANS 25 TO 800
CALI: VOA8031747A #2



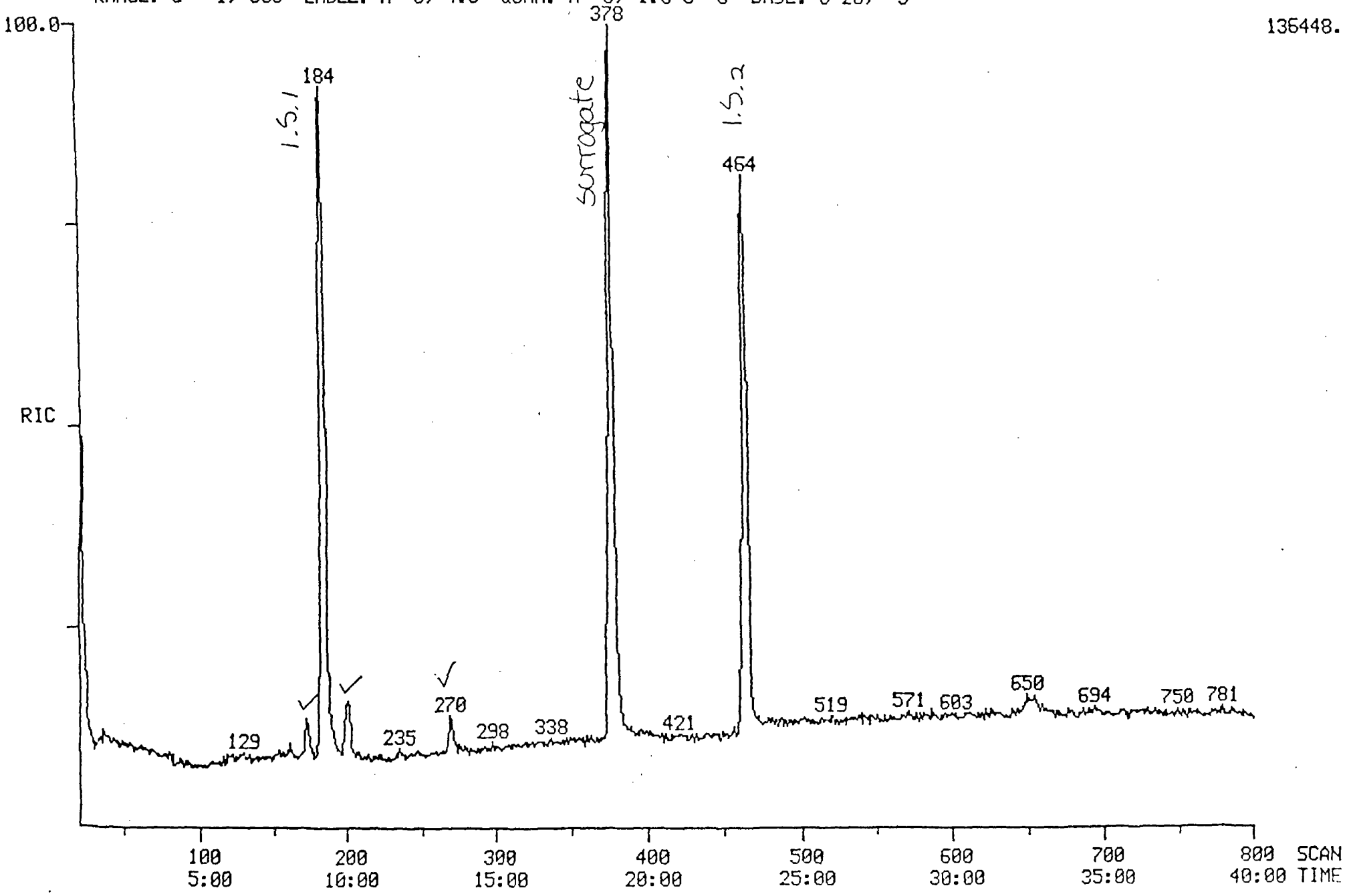
RIC
04/04/88 12:30:00
SAMPLE: JCO I-1 (5ML)
CONDS.: VOA METHOD
RANGE: G 1, 800 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: VOA8031748 #201 SCANS 25 TO 800
CALI: VOA8031748 #2



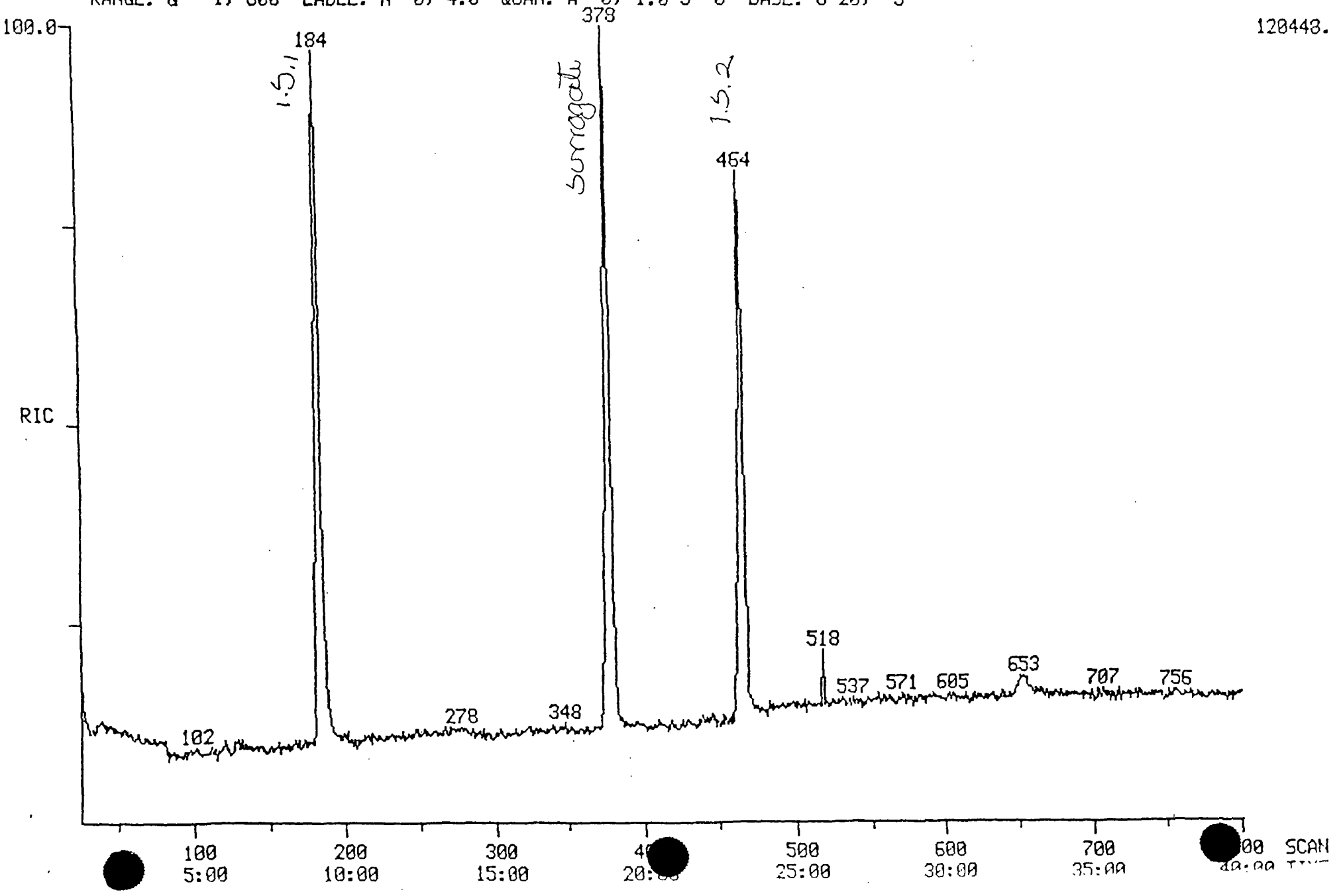
04/04/88 13:34:00
SAMPLE: JCO I-2 (5ML)
CONDS.: VOA METHOD
RANGE: G 1, 800 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: VOA8031749 #1 SCANS 20 TO 800
CALI: VOA8031749 #2



RIC
04/04/88 14:28:00
SAMPLE: JCO I-3 (5ML)
CONDS.: VOA METHOD
RANGE: G 1, 800 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: VOA8031750 #1 SCANS 25 TO 800
CALI: VOA8031750 #2



SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/22/88
Date Received: 03/22/88
Date Reported: 03/25/88
Project: #JCO-104H

Q.C. DATA REPORT

Analyst: M. Giles
Date of Analysis: 3/24/88
Method of Analysis: EPA 8010/8020
Detection Limit: 0.5
Units: ppb

Sample Number	Analyte	Original Result	Duplicate Result	% Deviation
8031568	111TCA	0.96	0.74	13

Sample Number	Analyte	Sample Contribution	Spike Added	Spike Result	% Recovery
8031567	111TCA	2.2	2.0	4.1	95

SEQUOIA ANALYTICAL LABORATORY

Scot Cocanour

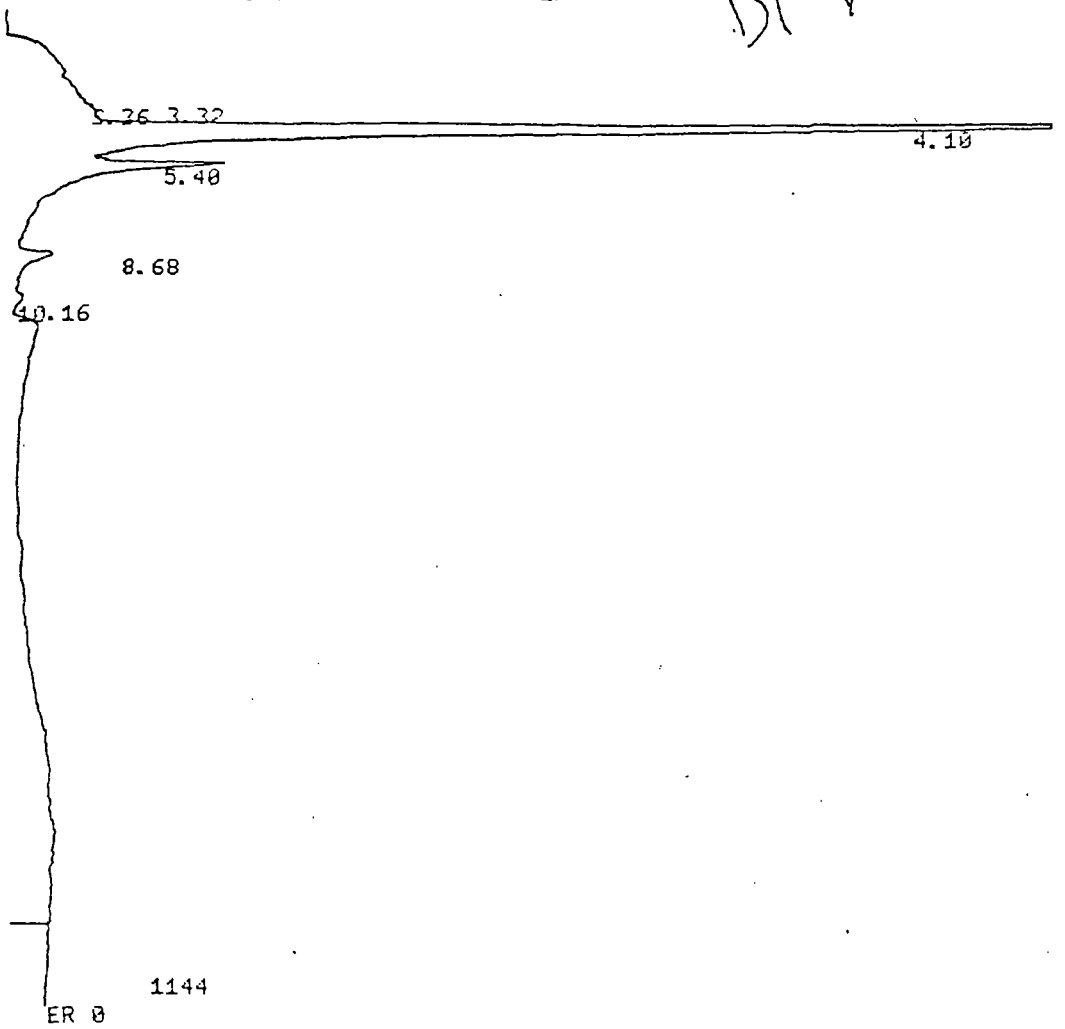
Arthur G. Burton
Laboratory Director

1	0.	19.84	23128 01
TOTALS	0.		23128

CHANNEL A INJECT 15:51:19

DI Blank

070



HALL 15:51:19 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 16 INDEX 1

ANALYST: MRG

NAME	PPB	RT	AREA BC	RF
1	0.	3.32	464123 02	
2	0.	3.36	2489 03	
3	0.	4.1	6545925 08	
4	0.	5.4	624568 05	
5	0.	8.68	163105 01	
6	0.	10.16	44799 03	
TOTALS	0.		7845009	

INPUT OVERRANGE AT RT= 5.38

071

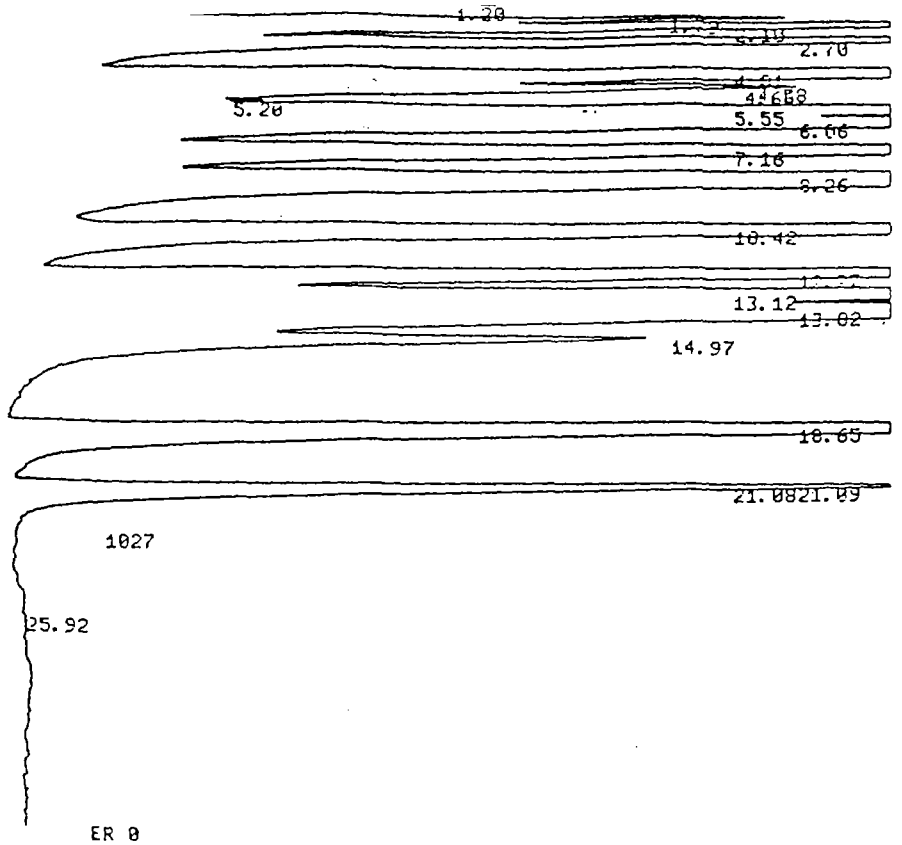
PID 15:51:19 CH= "B" PS= 1.

FILE 1. METHOD 5. RUN 5 INDEX 1

ANALYST: MRG

NAME	PPB	RT	AREA BC	RF
TOTALS	0.			

CHANNEL A INJECT 16:37:06



074

HALL 18:05:07 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 19 INDEX 1

ANALYST: MRG

NAME	PPB	RT	AREA	BC	RF
1	0.	1.2	2137932	02	
2	0.	1.79	3001376	02	
3	0.	2.1	8418832	02	
4	0.	2.7	10159507	02	
5	0.	4.01	19730943	02	
6	0.	4.58	2476282	02	
7	0.	4.66	3870282	02	
8	0.	5.2	450562	02	
9	0.	5.55	13968850	02	
10	0.	6.06	17539326	02	
11	0.	7.16	16956552	02	
12	0.	8.26	31691026	03	
13	0.	10.42	19163859	05	
14	0.	12.27	12954797	06	
15	0.	13.12	17161546	06	
16	0.	13.82	23935950	06	
17	0.	14.97	6167616	07	
18	0.	18.65	20355173	01	
19	0.	21.08	2603766	02	
20	0.	21.09	4336822	03	
21	0.	25.92	701809	01	
TOTALS	0.		237781808		

075

INPUT OVERRANGE AT RT= 5.23

PID 18:05:07 CH= "B" PS= 1.

FILE 1. METHOD 5. RUN 8 INDEX 1

ANALYST: MRG

NAME	PPB	RT	AREA	BC	RF
1	0.	5.97	62116	01	
2	0.	8.05	50216	01	
3	0.	9.94	25711	01	
4	0.	10.3	112771	01	
5	0.	13.	74869	01	
6	0.	14.88	41935	01	
7	0.	18.52	69009	01	
8	0.	19.84	45337	01	
9	0.	20.94	162634	01	
10	0.	25.42	469907	01	
TOTALS	0.		[illegible]		

5ppb Purge A & C

23:05:37 CH= "B" PS= 1.

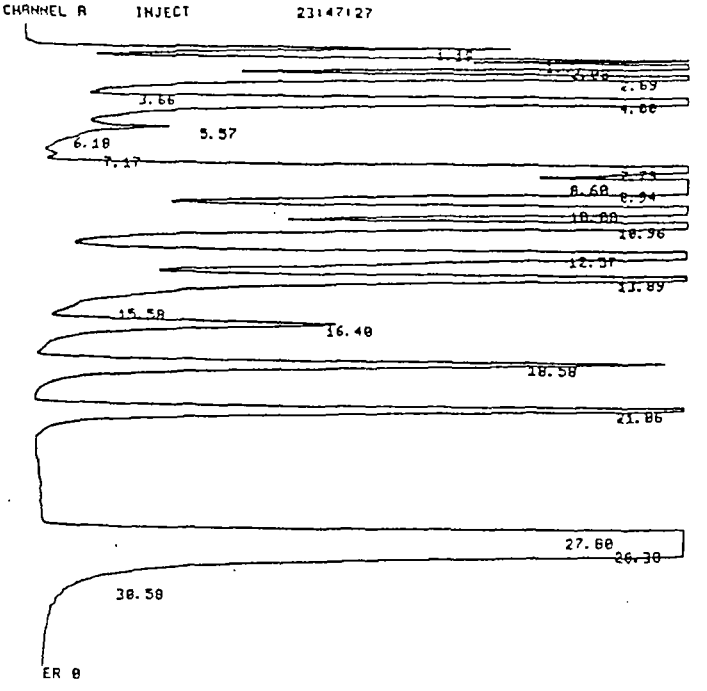
FILE 1. METHOD 6. RUN 15 INDEX 1

ANALYST: MRQ

NAME	PPB	RT	AREA	BC	RF
1	0.	0.62	101287	01	
TOTALS	0.		101287		

5ppb B, C DCB's Aromatics

CHANNEL A INJECT 23:47:27



085

HALL 23:47:27 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 27 INDEX 1

ANALYST: MRQ

NAME	PPB	RT	AREA	BC
1	0.	1.18	2575486	02
2	0.	1.77	3422314	02
3	0.	2.08	9132683	02
4	0.	2.69	10001224	02
5	0.	3.66	160222	02
6	0.	4.	22595180	08
7	0.	5.57	525706	06
8	0.	6.18	20655	07
9	0.	7.17	65430	06
10	0.	7.79	15481135	06
11	0.	8.6	11995404	06
12	0.	8.94	18431518	06
13	0.	10.08	18071113	06
14	0.	10.96	13832579	06
15	0.	12.57	16866074	06
16	0.	13.89	11298059	06
17	0.	15.58	221976	06
18	0.	16.4	3445170	07
19	0.	18.58	6593030	01
20	0.	21.06	7478867	01
21	0.	27.8	16836773	02
22	0.	28.38	56619623	08
23	0.	30.58	740	05
TOTALS	0.		245698861	

INPUT OVERRANGE AT RT= 5.58

PID 23:47:27 CH= "B" PS= 1.

FILE 1. METHOD 5. RUN 16 INDEX 1

ANALYST: MRQ

NAME	PPB	RT	AREA	BC
1	0.	0.46	3476	01
2	0.	7.66	156130	02
3	0.	8.04	115964	03
4	0.	8.94	32740	01
5	0.	10.29	154882	01
6	0.	11.06	33339	01
7	0.	12.56	105764	01
8	0.	13.48	424704	01
9	0.	14.93	243325	01
10	0.	19.81	827225	01
11	0.	20.93	177727	01
12	0.	22.68	414845	01
13	0.	24.46	50524	02
14	0.	25.42	172116	02
15	0.	25.9	116628	03
16	0.	27.65	324256	02
17	0.	28.32	602214	03
18	0.	31.55	752016	01
TOTALS	0.		4713515	

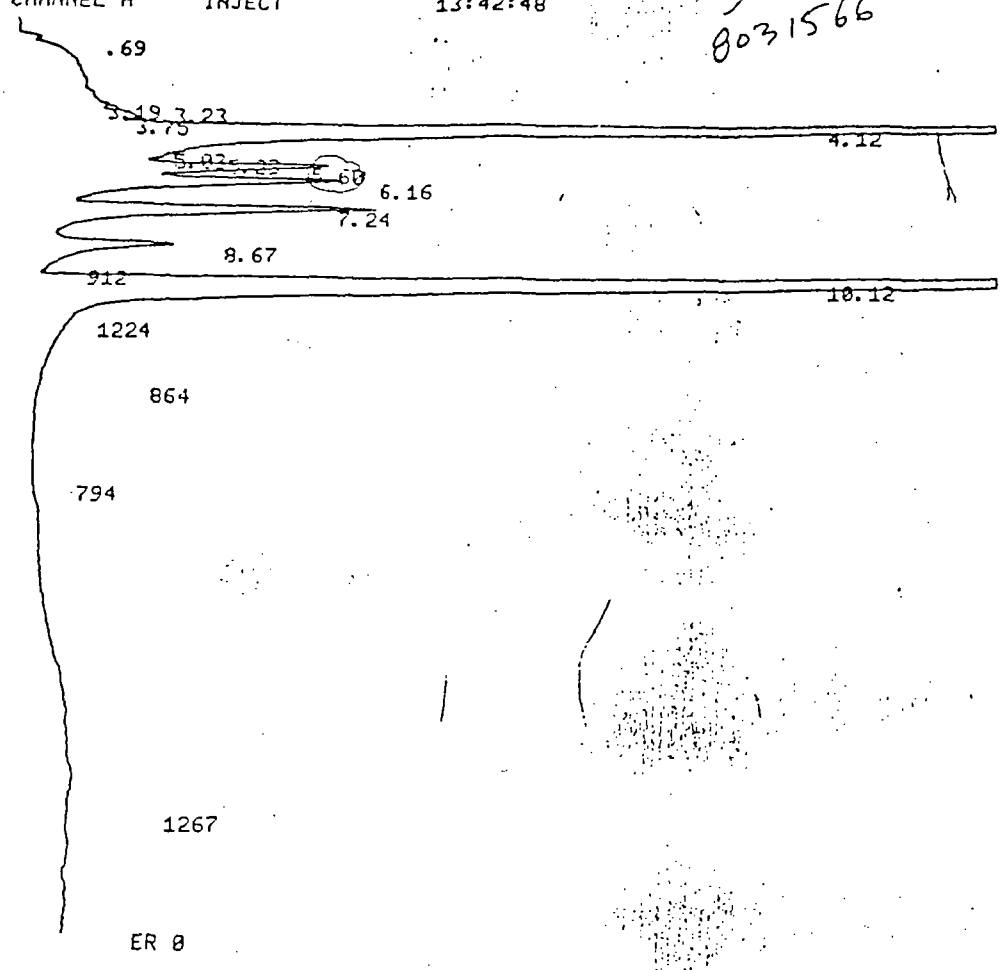
086

not. #1

1. 0. 0.

CHANNEL A INJECT 13:42:48

5 ml
8031566



HALL 13:42:48 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 13 INDEX 1

ANALYST: MRG

NAME	PPB	RT	AREA	BC	RF
1	0.	0.69	80128	02	
2	0.	3.19	2022276	02	
3	0.	3.23	309699	02	
4	0.	3.75	696835	02	
5	0.	4.12	10574251	02	
6	0.	5.03	354510	02	
7	0.	5.23	448490	02	
8	0.	5.6	1727202	02	
9	0.	6.16	2288638	02	
10	0.	7.24	2347790	02	
11	0.	8.67	1013781	02	
12	0.	10.12	13462734	03	
TOTALS	0.		35318334		

INPUT OVERRANGE AT RT= 5.54

PID 13:42:49 CH= "B" PS= 1.

FILE 1. METHOD 5. RUN 2 INDEX 1

ANALYST: MRG

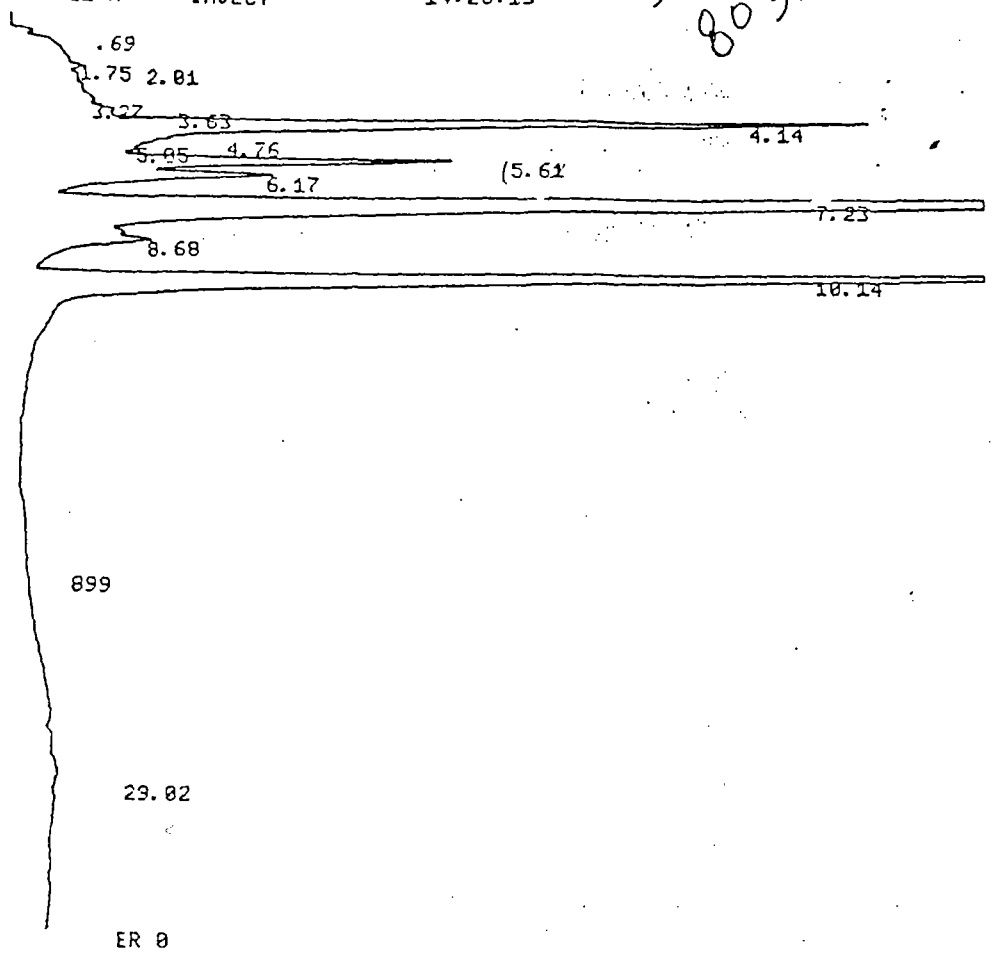
NAME	PPB	RT	AREA	BC	RF
1	0.	8.6	202677	01	
TOTALS	0.		202677		

5 ml
8031567

CHANNEL A INJECT 14:26:13

CHANNEL A INJECT 14:26:13

5ml 8031567



HALL 14:26:13 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 14 INDEX 1

ANALYST: MRG

NAME	PPB	RT	AREA	BC	RF
1	0.	0.69	50615	02	
2	0.	1.75	385199	02	
3	0.	2.01	117211	02	
4	0.	3.27	165498	02	
5	0.	3.63	91585	02	
6	0.	4.14	3789157	02	
7	0.	4.76	116198	02	
8	0.	5.05	5589	03	
9	0.	5.61	1492396	02	
10	0.	6.17	904599	03	
11	0.	7.23	13222277	08	
12	0.	8.68	338980	05	
13	0.	10.14	7804349	01	
14	0.	29.02	223644	01	
TOTALS	0.		28707217		

INPUT OVERRANGE AT RT= 5.57

PID 14:26:13 CH= "B" PS= 1.

FILE 1. METHOD 5. RUN 3 INDEX 1

ANALYST: MRG

NAME	PPB	RT	AREA	BC	RF
1	0.	0.6	248718	01	
TOTALS	0.		248718		

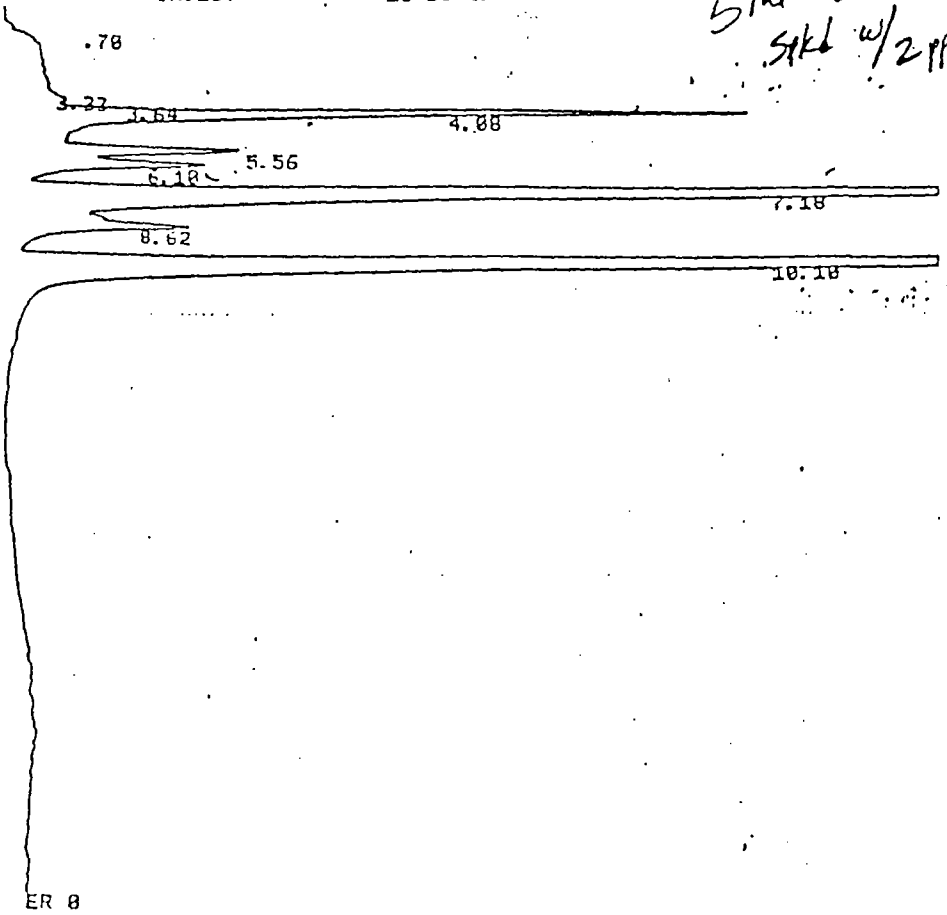
50ml 031511

CHANNEL A INJECT 15:09:05

068

5ml 8031567
Spkd w/2 ppb 111TCB

CHANNEL A INJECT 18:35:29



112

HALL 18:35:29 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 46 INDEX 1

ANALYST: MRG

NAME	PPB	RT	AREA	BC	RF
1	0.	0.7	32771	02	
2	0.	3.33	1300989	02	
3	0.	3.64	379500	02	
4	0.	4.08	5730132	08	
5	0.	5.56	910166	06	
6	0.	6.1	877760	06	
7	0.	7.18	12435374	06	
8	0.	8.62	1405389	06	
9	0.	10.1	14765198	07	
TOTALS	0.		37837279		

INPUT OVERRANGE AT RT= 5.49

PID 18:35:29 CH= "B" PS= 1.

FILE 1. METHOD 5. RUN 35 INDEX 1

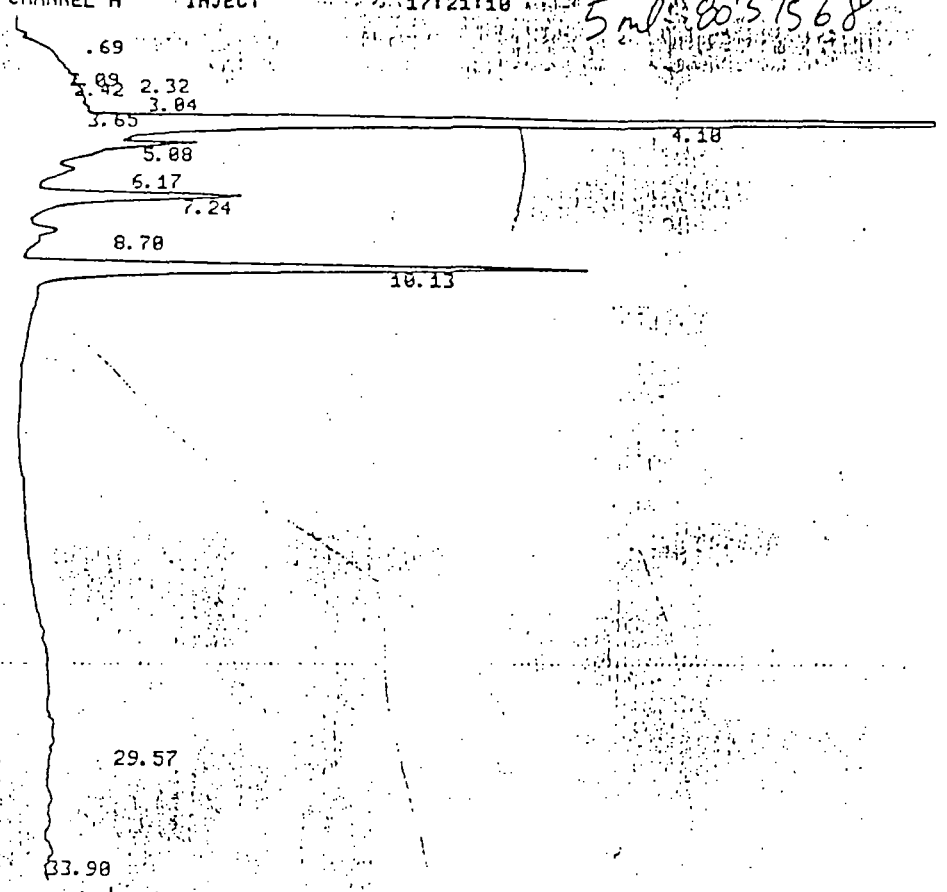
ANALYST: MRG

NAME	PPB	RT	AREA	BC	RF
1	0.	0.6	238358	01	
2	0.	8.99	20902	01	
3	0.	16.85	45675	01	
4	0.	19.84	20202	01	
5	0.	22.72	366454	02	
6	0.	25.44	517236	03	
TOTALS	0.		1208907		

113

NAME	PPB	RT	AREA BC	RF
TOTALS	0.			

CHANNEL A INJECT 17:21:10 5ml 8031568



HALL 17:21:10 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 18 INDEX 1

ANALYST: MRG

NAME	PPB	RT	AREA BC	RF
1	0.	0.69	42723 02	
2	0.	2.09	713911 02	
3	0.	2.32	193963 02	
4	0.	2.42	336376 02	
5	0.	3.04	944312 02	
6	0.	3.65	321810 02	
7	0.	4.1	8048346 02	
8	0.	5.08	1509497 02	
9	0.	6.17	554989 02	
10	0.	7.24	1565330 02	
11	0.	8.7	350930 02	
12	0.	10.13	3465279 03	
13	0.	29.57	84147 01	
14	0.	33.9	61979 01	
TOTALS	0.		18193592	

INPUT OVERRANGE AT RT= 15.07

PID 17:21:11 CH= "B" PS= 1.

FILE 1. METHOD 5. RUN 7 INDEX 1

ANALYST: MRG

NAME	PPB	RT	AREA BC	RF
1	0.	0.6	235296 01	
TOTALS	0.		235296	

5ppb AC

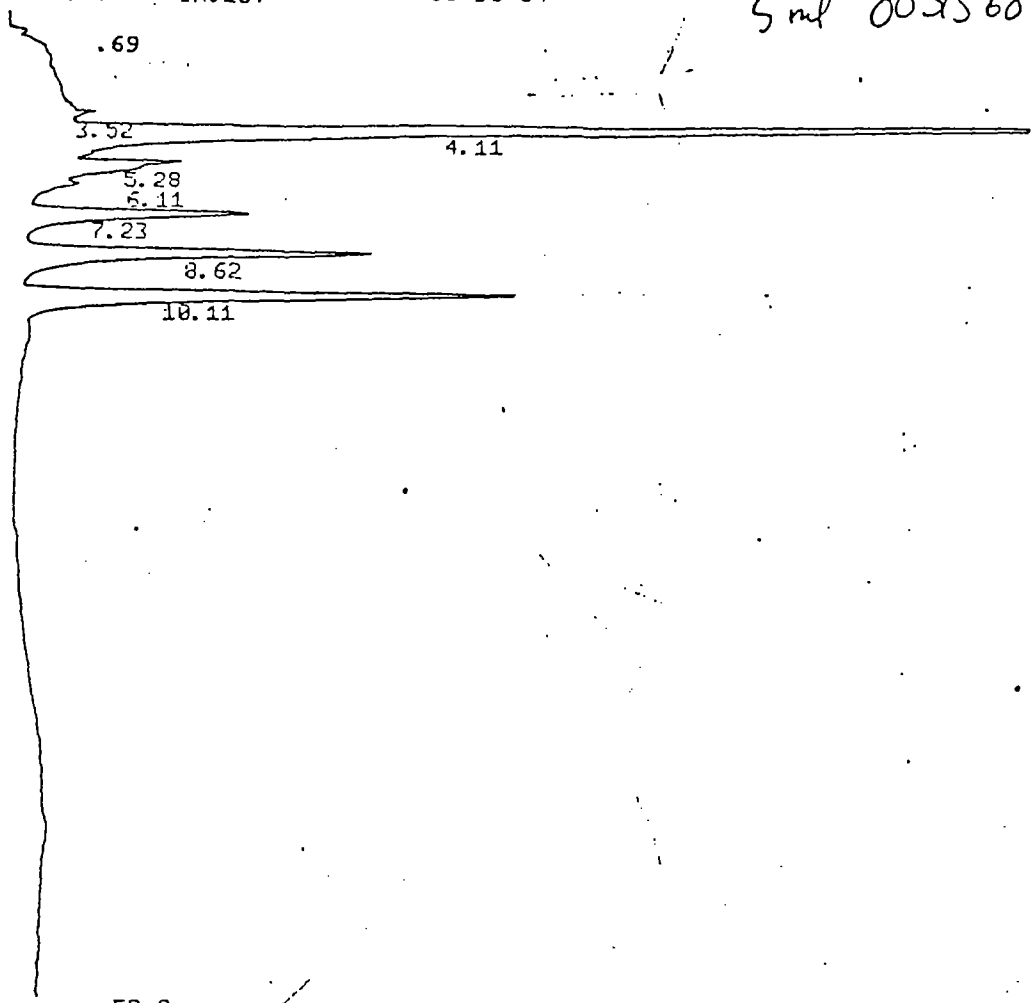
CHANNEL A INJECT 18:05:07

073

TOTALS 0. 274090

#9
5ml 803568

CHANNEL A INJECT 06:36:54



ER 0

HALL 06:36:54 CH= "A" PS= 1.

FILE 1. METHOD 5. RUN 36 INDEX 1

ANALYST: MRG

NAME	PPB	RT	AREA	BC	RF
1	0.	0.69	33155	03	
2	0.	3.52	502947	02	
3	0.	4.11	6279501	02	
4	0.	5.28	1021663	02	
5	0.	6.11	221404	02	
6	0.	7.23	1140010	08	
7	0.	8.62	1884795	06	
8	0.	10.11	2658014	07	
TOTALS	0.		13741489		

INPUT OVERRANGE AT RT= 5.33

PID 06:36:54 CH= "B" PS= 1.

FILE 1. METHOD 5. RUN 25 INDEX 1

ANALYST: MRG

NAME	PPB	RT	AREA	BC	RF
1	0.	0.51	26132	02	
2	0.	0.61	250166	03	
3	0.	18.88	41818	01	
TOTALS	0.		318116		

#10

097

098

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/22/88
Date Received: 03/24/88
Date Reported: 04/13/88
Project: #JCO-104H

Q.C. DATA REPORT

Analyst: G. Brock
Date of Analysis: 4/7-8/88
Method of Analysis: Alcohols by G.C.
Detection Limit: 10
Units: ppb

Sample Number	Analyte	Original Result	Duplicate Result	% Deviation
8031751	Acetone	< 10	< 10	0

Sample Number	Analyte	Sample Contribution	Spike Added	Spike Result	% Recovery
8031751	Acetone	< 10	100	93	93

SEQUOIA ANALYTICAL LABORATORY

Scot Cocanour

Arthur G. Burton
Laboratory Director

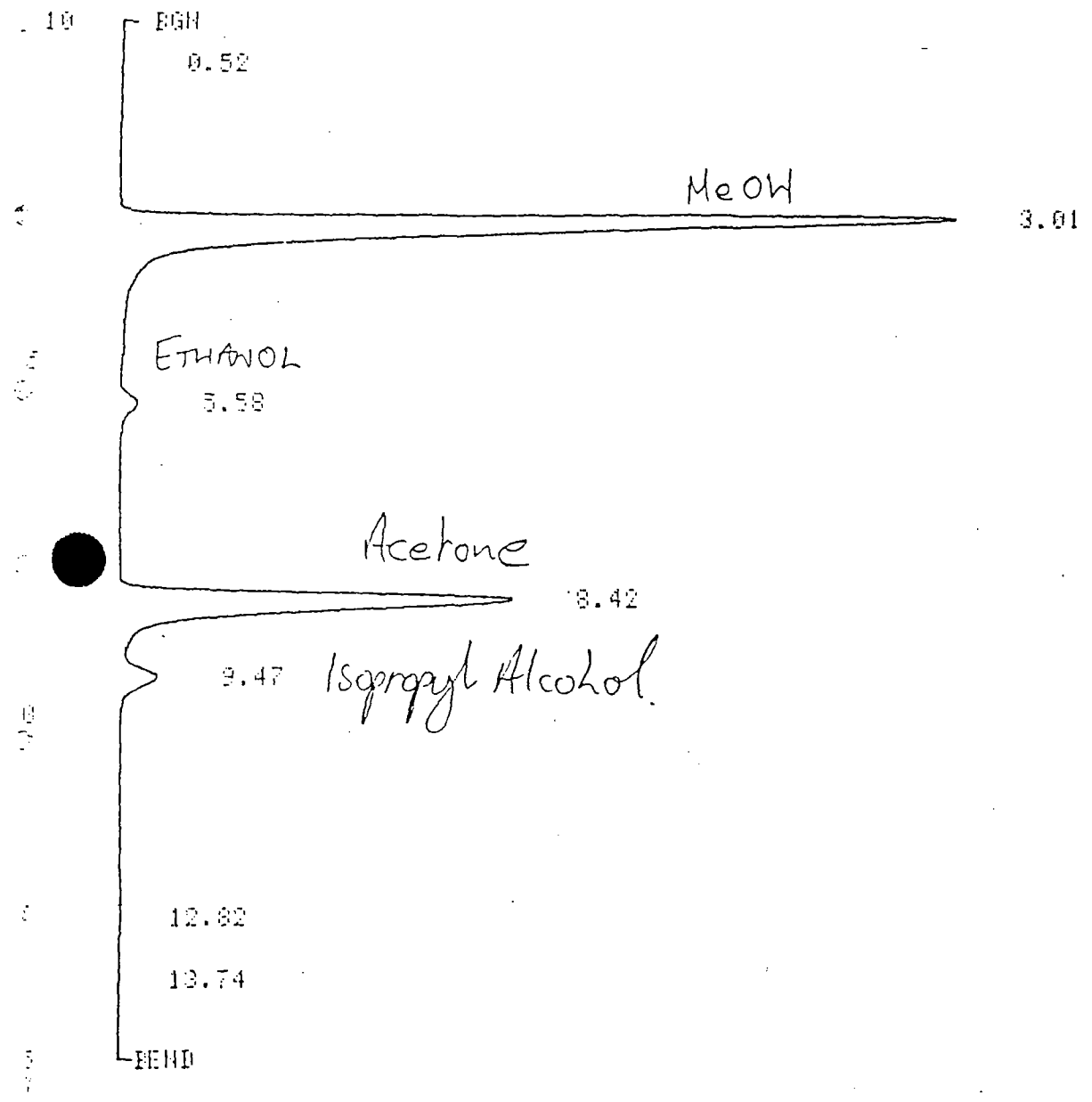
[illegible]	[illegible]	[illegible]
8.39	908.3125	45.8455
14.11	0.4570	0.0230

5 PEAKS > AREA/HT REJECT

5mls # STD.

21 5:41 88/04/08

3 MODIFIED



RUN 21 5:41 88/04/08

METHOD 3 MODIFIED CALCULATION: %

	AREA	BC	AREA %
0.52	0.0168	V	0.0040
3.01	268.4859	T	64.4339
5.58	6.8863	V	1.6526
8.42	124.4761	T	29.8780
9.47	14.8801	V	3.5710
[illegible]	[illegible]	T	[illegible]

6.51	2.2963	T	18.2381
9.52	0.3390		2.6926
11.71	0.9729		7.7270
14.17	2.2180		17.6159

0.25ppb Acetone.

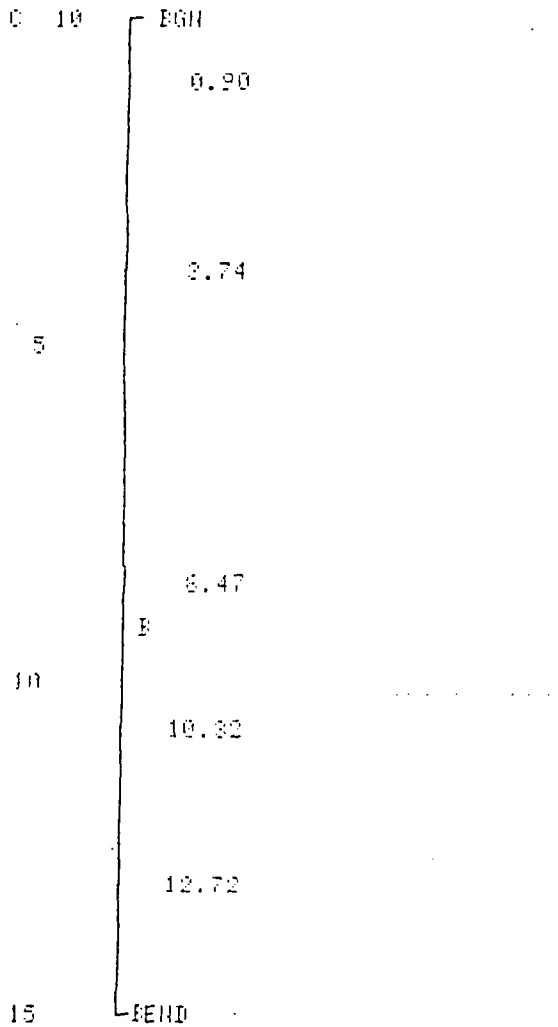
8 PEAKS : AREA/HT REJECT

D.I.

RUN 17 2:37 88/04/08

METHOD 3 MODIFIED

128 0 10



RUN 17 2:37 88/04/08

METHOD 3 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
0.90	0.0136	U	0.3653
3.74	0.1546	U	4.1264
8.47	1.1409		30.4452
10.32	1.4833	T	39.5818
12.72	0.9549		25.4810

5 PEAKS : AREA/HT REJECT

Smls # 8031750

18 3:23 88/04/08

METHOD 3 MODIFIED

RUN 8 21:34 88/04/07

METHOD 3 MODIFIED CALCULATION: %

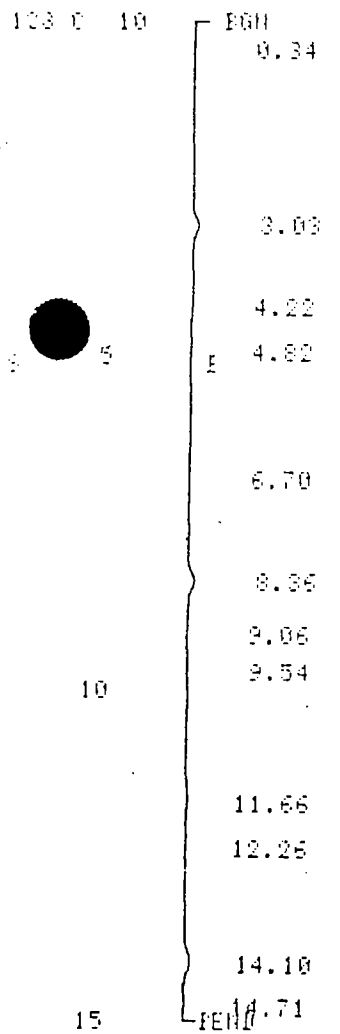
RT	AREA	BC	AREA %
0.30	0.0134	U	0.0735
0.60	0.0495	T	0.2716
0.77	0.0222	T	0.1218
0.92	0.0686	U	0.3761
3.03	4.1710	T	22.8625
4.82	0.1001	T	0.5490
5.53	0.2572	U	1.4101
8.47	0.2501	U	1.3712
12.88	13.3004		72.9035

9 PEAKS > AREA/HT REJECT

5ml 8031743

RUN 9 22:01 88/04/07

METHOD 3 MODIFIED



RUN 9 22:01 88/04/07

METHOD 3 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
0.34	0.0112	U	0.1134
3.03	3.6136	T	36.0847
4.22	0.1151	T	1.1495
4.82	0.0555		0.5543

0.39ppt MeOH

RUN 6 20:41 88/04/10

METHOD 3 MODIFIED CALCULATION: %

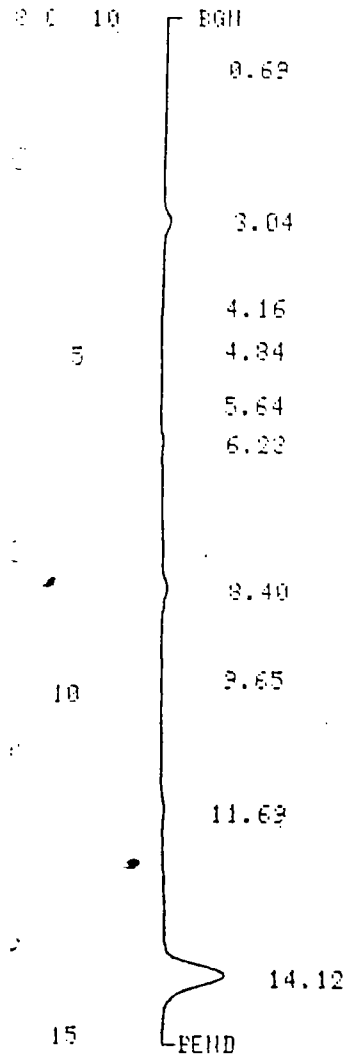
RT	AREA	BC	AREA %
1.17	0.0070	U	0.0226
3.04	4.0183		12.9655
4.78	0.0462	U	0.1491
5.73	0.0285	U	0.0920
6.74	0.0700	U	0.2259
10.54	15.1803	T	48.9800
11.67	9.2043	U	29.6981
14.12	1.6337	U	5.2712
14.74	0.8043		2.5952

9 PEAKS > AREA/HT REJECT

Smls # 8031744

7 21:07 88/04/07

METHOD 3 MODIFIED



RUN 7 21:07 88/04/07

METHOD 3 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
0.69	0.0154	U	0.0468
3.04	3.9579	T	11.2600
4.16	0.1398	T	0.3979
4.84	0.1216	U	0.3461

0.43%.

8.36	2.3676	T	23.6422
9.06	0.1787	T	1.7848
9.54	0.1136	V	1.1344
11.66	0.7434	T	7.4241
12.26	0.0598	V	0.5974
14.10	2.4611	T	24.5763
14.71	0.2567		2.5638

0.26µg Ardone

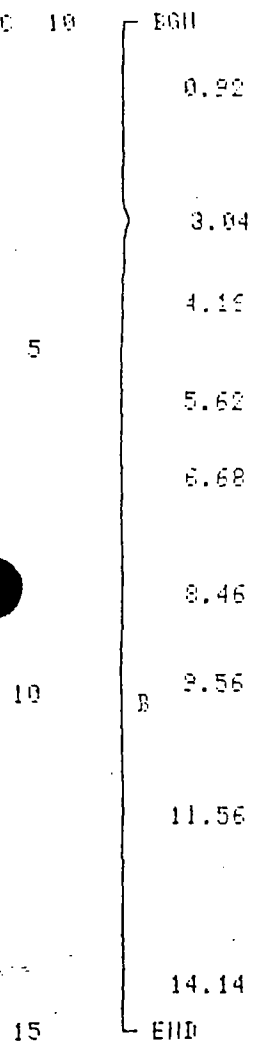
12 PEAKS > AREA/HT REJECT

5ml 8031745

JN 10 22:25 88/04/07

ETHOD 3 MODIFIED

128 0 10



RUN 10 22:25 88/04/07

METHOD 3 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
0.92	0.0186	V	0.5202
3.04	2.8510	T	79.6894
4.15	0.0662	T	1.8528
5.62	0.0534	V	1.4939
6.68	0.0315	V	0.8808
8.46	0.2075	T	5.8010
9.56	0.1151		3.2192
11.56	0.0845	V	2.3632
14.14	0.1495	V	4.1791

9 PEAKS > AREA/HT REJECT

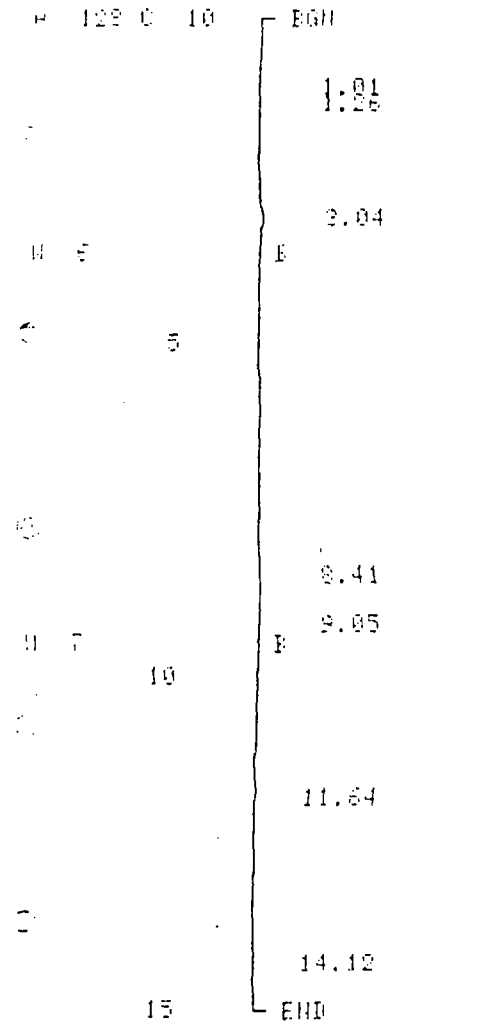
14.14	0.1495	U	4.1791

9 PEAKS > AREA/HT REJECT

5ml 8031746

RUN 11 22:49 88/04/07

METHOD 3 MODIFIED



RUN 11 22:49 88/04/07

METHOD 3 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
1.01	0.0191	U	0.8892
1.26	0.0206	U	0.9617
3.04	1.3355		62.1805
8.41	0.4425	T	20.6069
9.05	0.1612		7.5052
11.64	0.0219	U	1.0202
14.12	0.1468	U	6.8365

7 PEAKS > AREA/HT REJECT

DF

RUN 12 23:11 88/04/07

METHOD 3 MODIFIED

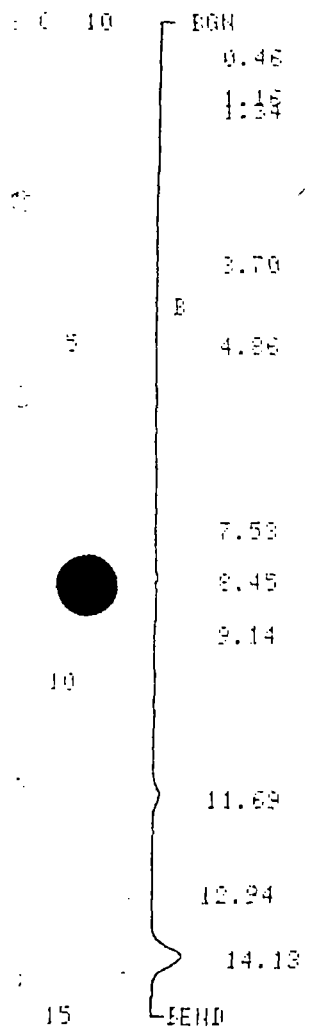
3.86	0.3747		15.8381
5.63	0.0569	V	2.4060
8.38	0.3472	T	14.6774
9.12	0.0408	V	1.7255
11.62	0.1861	V	7.8670
14.10	0.4189		17.7058

11 PEAKS : AREA/HT REJECT

14 0:19 88/04/08

5mls #8031747

HOD 3 MODIFIED



RUN 14 0:19 88/04/08

METHOD 3 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
0.46	0.0133	V	0.0823
1.16	0.0074	T	0.0455
1.34	0.0148	V	0.0916
3.70	0.2793		1.7186
4.86	0.0507	V	0.3122
7.53	0.5748	T	3.5370
8.45	0.5231	T	3.2184
9.14	0.0275	V	0.1693
11.69	2.3550	T	14.4888
12.94	0.3591	V	2.2097
14.13	12.0483		74.1261

11 PEAKS : AREA/HT REJECT

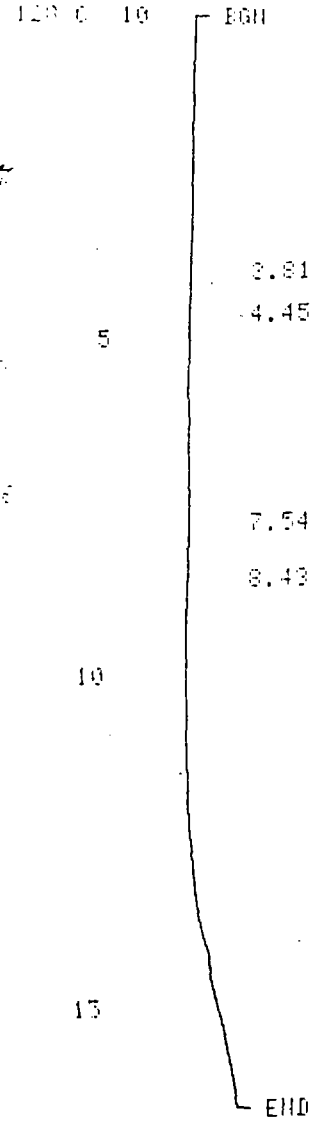
7.53	0.5748	T	3.5370
8.43	0.5231	T	3.2184
9.14	0.0275	U	0.1693
11.62	2.3550	T	14.4888
12.94	0.3591	U	2.2097
14.13	12.0483		74.1261

11 TRACE > AREA/HT REJECT

RUN 15 1:05 88/04/08

5mls # 8031748

METHOD 3 MODIFIED



RUN 15 1:05 88/04/08

METHOD 3 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
3.81	1.1262	T	58.3011
4.45	0.0529	U	2.8254
7.54	0.3344	T	17.2857
8.43	0.4477	U	21.8076

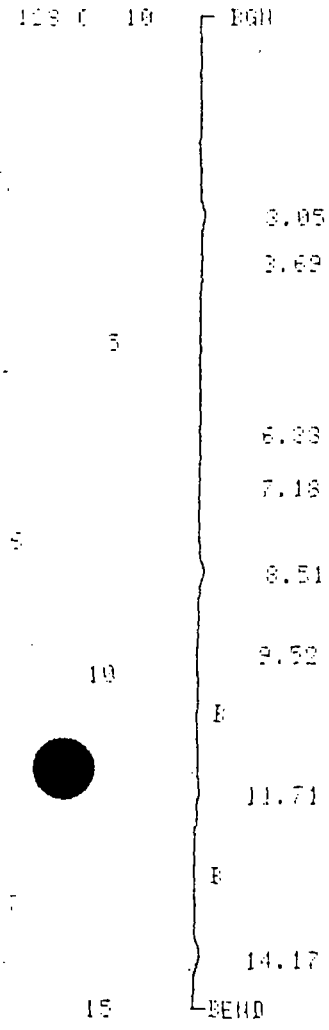
4 TRACE > AREA/HT REJECT

4 PEAKS > AREA HT REJECT

RUN 16 1:51 88/04/08

METHOD 3 MODIFIED

Smlo # 8031749



RUN 16 1:51 88/04/08

METHOD 3 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
3.05	2.8802	T	22.8753
3.69	0.8047	T	6.3918
6.33	2.6190	T	20.8011
7.18	0.4605	T	3.6577
8.51	2.2963	T	18.2381
9.52	0.3390		2.6925
11.71	0.9729		7.7270
14.17	2.2100		17.6159

0.25ppb Acetone.

8 PEAKS > AREA/HT REJECT

D.I.

RUN 17 2:37 88/04/08

METHOD 3 MODIFIED

10 BGN

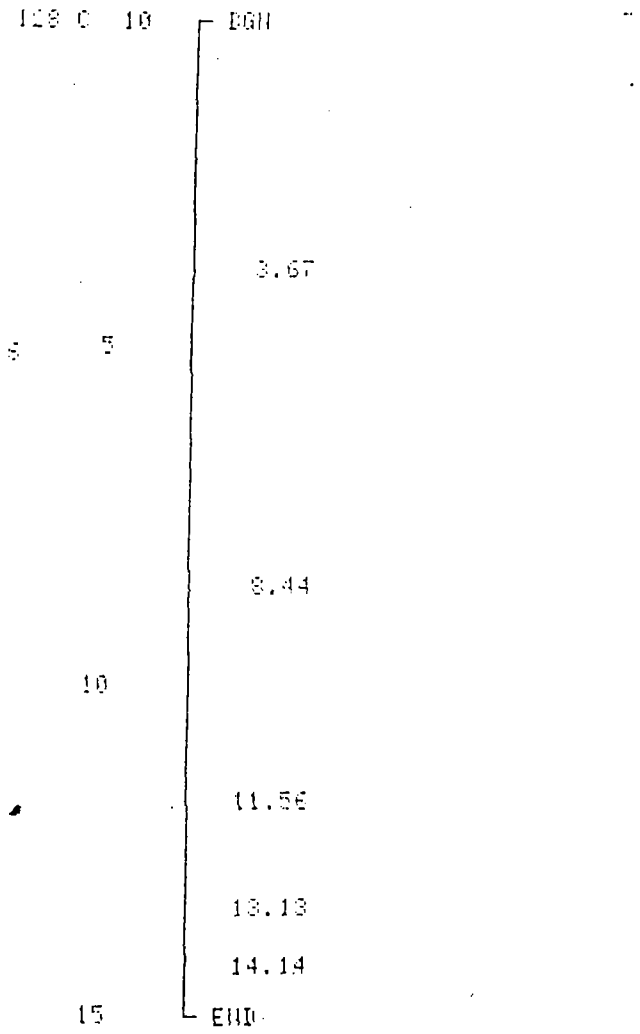
0.90	0.0136	V	0.3653
3.74	0.1546	V	4.1264
8.47	1.1409		30.4452
10.32	1.4833	T	39.5818
12.72	0.9549		25.4810

5 PEAKS > AREA/HT REJECT

5mls # 8031750

RUN 18 3:23 88/04/08

METHOD 3 MODIFIED



RUN 18 3:23 88/04/08

METHOD 3 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
3.67	1.1478	T	33.2388
8.44	0.4502	T	13.0377
11.56	1.5097	T	43.7157
13.13	0.1375	V	3.9825
14.14	0.2080	T	6.0250

5 PEAKS > AREA/HT REJECT

RUN 19 4:09 88/04/08

[illegible]	1.1478	T	23.2388
8.44	0.4502	T	13.0377
11.56	1.5097	T	43.7157
13.12	0.1375	U	3.9825
14.14	0.2080	T	6.0250

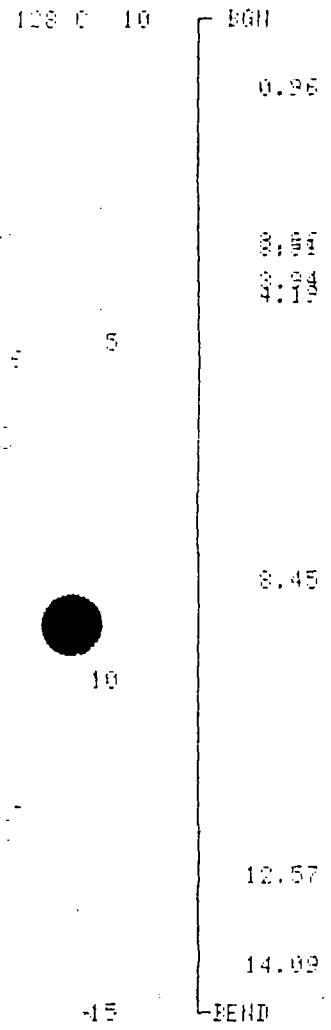
5 PEAKS AREA/HT REJECT

Duplicate

5mls # 8031750

RUN 19 4:09 88/04/08

METHOD 3 MODIFIED



RUN 19 4:09 88/04/08

METHOD 3 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
0.96	0.0401	U	3.0421
3.31	0.2427	T	18.4052
3.31	0.0683	T	5.1853
3.94	0.0120	U	0.9377
4.19	0.0075	U	0.5725
8.45	0.4564	T	34.6153
12.57	0.2860	U	21.6923
14.09	0.2043		15.4906

8 PEAKS AREA/HT REJECT

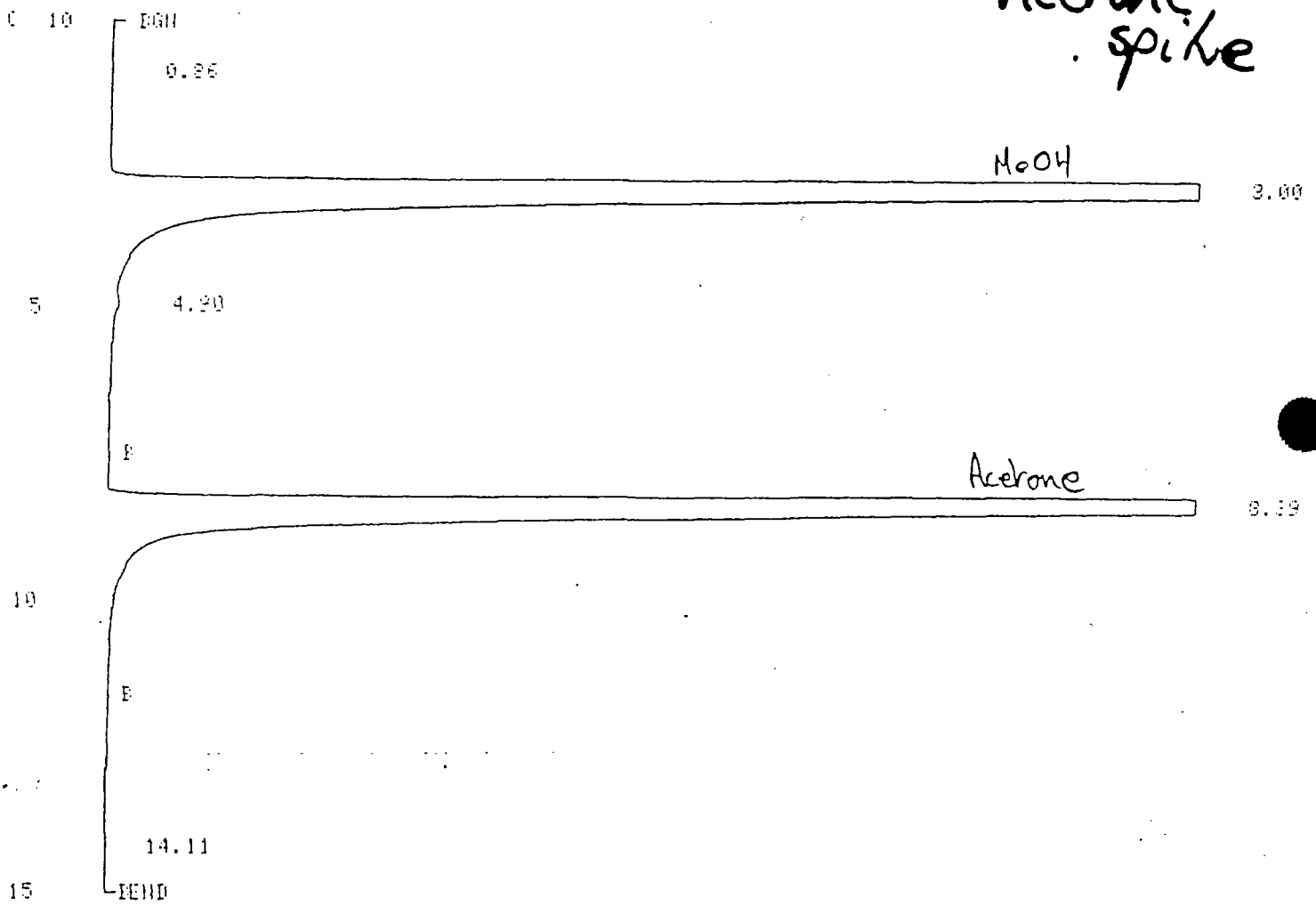
RT	AREA	BC	AREA %
0.86	0.0401	U	0.0421
3.00	0.2427	T	16.4052
2.31	0.0683	T	5.1853
3.94	0.0130	U	0.9877
4.19	0.0075	U	0.5725
8.45	0.4564	T	34.6158
12.57	0.2860	U	21.6929
14.09	0.2043		15.4986

8 PEAKS 0 AREA/HT REJECT

5mls # 8031750 + Acetone spike

RUN 20 4:55 88/04/08

METHOD 3 MODIFIED



RUN 20 4:55 88/04/08

METHOD 3 MODIFIED CALCULATION: %

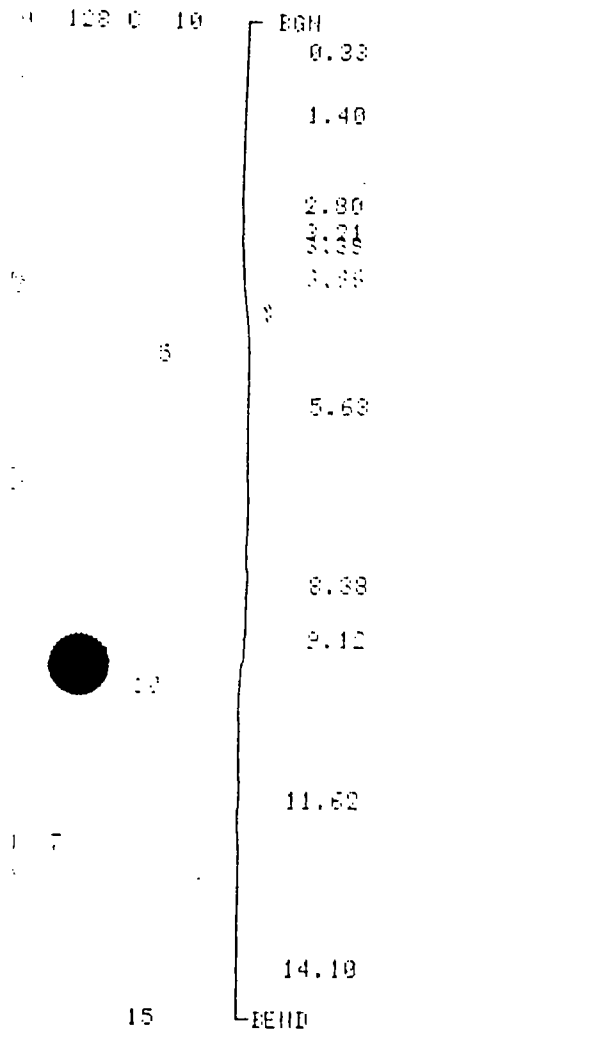
RT	AREA	BC	AREA %
0.86	0.0234	U	0.0011
3.00	1063.5640	T	53.5815
4.20	8.8882		0.4436
8.39	909.3125		45.8455
14.11	0.4570		0.0230

5 PEAKS AREA/HT REJECT

RUN 13 23:33 88/04/07

METHOD 3 MODIFIED

Smls # 8031751



RUN 13 23:33 88/04/07

METHOD 3 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
0.33	0.0155	V	0.8234
1.40	0.0329	V	1.3921
2.80	0.4365	T	18.4502
3.21	0.3035	T	12.8299
3.33	0.1485	T	6.2781
3.85	0.3747		15.8381
5.63	0.0569	V	2.4050
8.38	0.3472	T	14.6774
9.12	0.0408	V	1.7255
11.62	0.1861	V	7.8670
14.10	0.4189		17.7058

11 PEAKS : AREA/HT REJECT

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/22/88
Date Received: 03/22/88
Date Reported: 03/25/88
Project: #JCO-104H

Q.C. DATA REPORT

Analyst: G. Brock
Date of Analysis: 3/24/88
Method of Analysis: Alcohols by G.C.
Detection Limit: 10
Units: ppb

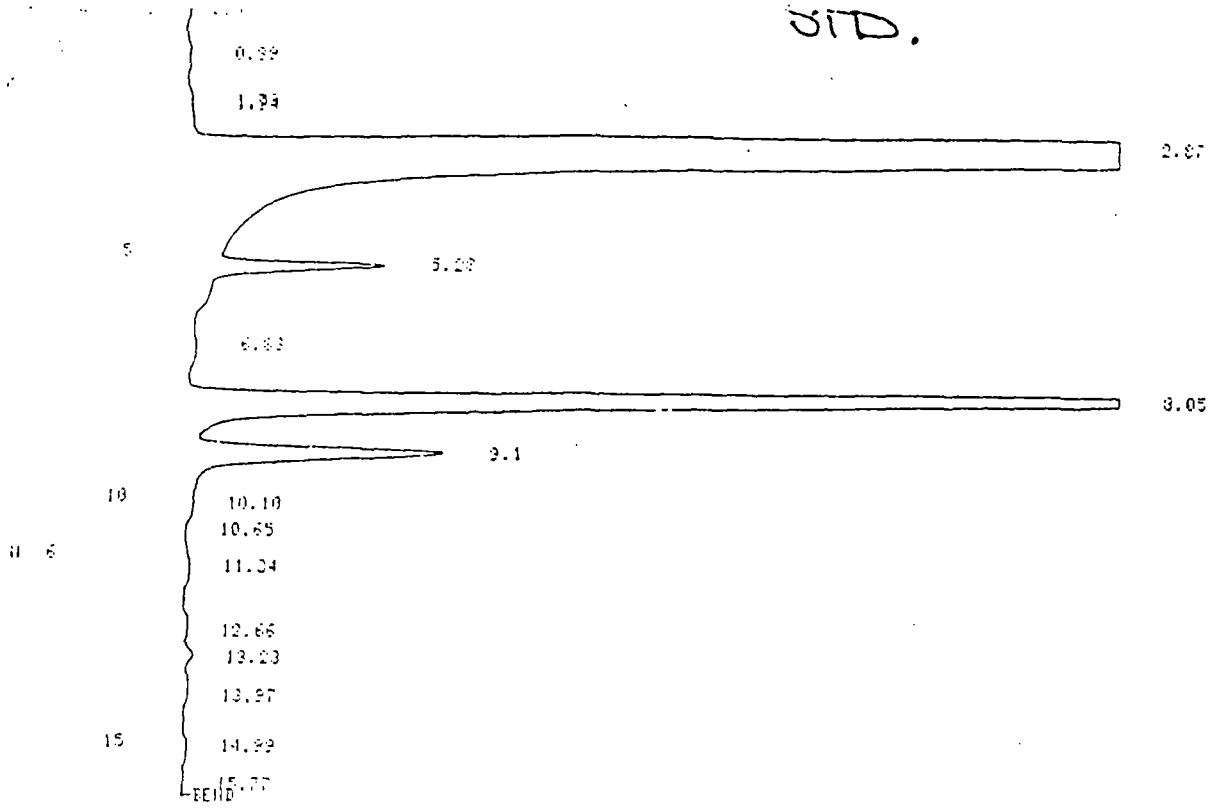
Sample Number	Analyte	Original Result	Duplicate Result	% Deviation
8031566	Acetone	< 10	< 10	0.0

Sample Number	Analyte	Sample Contribution	Spike Added	Spike Result	% Recovery
8031566	Acetone	< 10	200	205	103

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

JID.



RUN 4 9:42 88/03/24

METHOD 3 MODIFIED CALCULATION: %

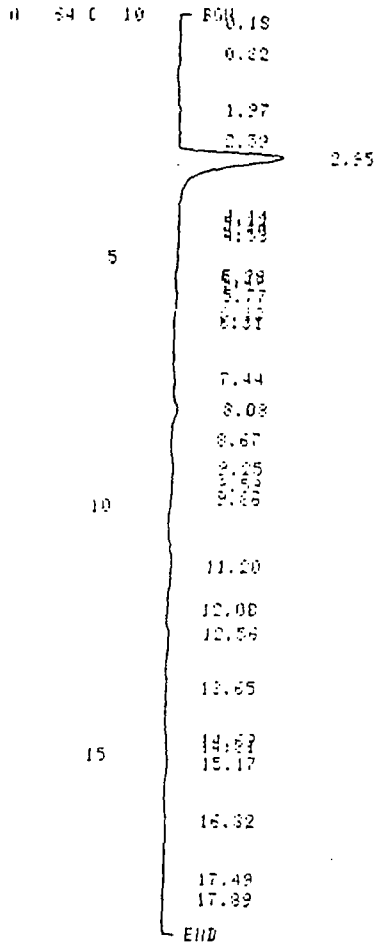
RT	AREA	BC	AREA %
0.99	0.9659	V	0.0521
1.79	0.4815	T	0.0260
1.94	0.1521	T	0.0082
2.87	1625.5749	T	87.8290
5.28	25.2283	T	1.3630
6.83	2.6743	T	0.1444
8.05	157.9962	T	8.5359
9.10	31.1696	T	1.6840
10.10	1.2814	T	0.0692
10.65	0.0319	V	0.0017
11.34	0.8178	V	0.0441
12.66	0.9904	T	0.0529
13.23	1.2330	T	0.0666
13.97	1.2219	T	0.0660
14.99	0.9261	T	0.0500
15.77	0.1139		0.0061

16 PEAKS > AREA/HT REJECT

Bmb # 8031566

RUN 1 11:02 88/03/24

METHOD 5 MODIFIED



RUN 1 11:02 88/03/24

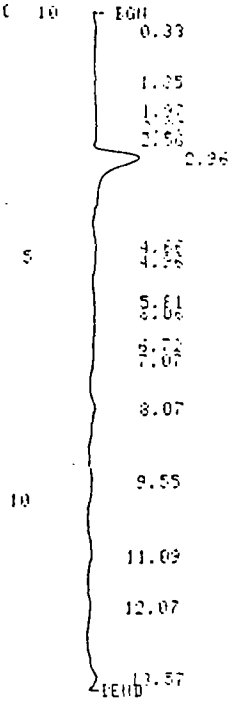
METHOD 5 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
0.18	0.0475	V	0.1366
0.82	0.2894	V	0.8326
1.97	0.0875	V	0.2518
2.39	0.1236	V	0.3555
2.95	26.6473	V	76.6474
4.14	0.0230	V	0.0661
4.22	0.0090	V	0.0260
4.40	0.0118	V	0.0341
4.53	0.1632	V	0.4696
5.33	0.0194	V	0.0557
5.47	0.0116	V	0.0334
5.77	0.3943	V	1.1344
6.13	0.0131	V	0.0377
6.31	0.2745	V	0.7897
7.44	0.0316	V	0.0908
8.09	1.3125	V	3.7754
8.67	0.0341	V	0.0983
9.25	0.5824	V	1.6759
9.59	0.0085	V	0.0244
9.86	0.3713	V	1.0683
11.20	2.9529	V	8.4937
12.08	0.0069	V	0.0200
12.56	1.2076	V	3.4735
13.65	0.1404		0.4039

24 PEAKS : WEIGHT REJECT

METHOD 5 MODIFIED

Bmls # 8031567



RUN 2 11:51 88/03/24

METHOD 5 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
0.33	0.7034	U	2.7645
1.25	0.2077	U	0.8106
1.97	0.0380	U	0.1486
2.47	0.0960	U	0.3746
2.56	0.1087	U	0.4242
2.96	14.8120	U	57.7965
4.66	0.1622	U	0.6870
4.96	0.2344	U	0.9148
6.06	0.0945	U	0.3690
6.72	0.0256	U	0.1002
7.07	0.4047	U	1.5794
8.07	2.1947	U	8.5638
9.55	1.4004	U	5.4646
11.09	1.6133	U	6.2950
12.07	1.2359	U	4.8220
13.57	2.2897		8.9345

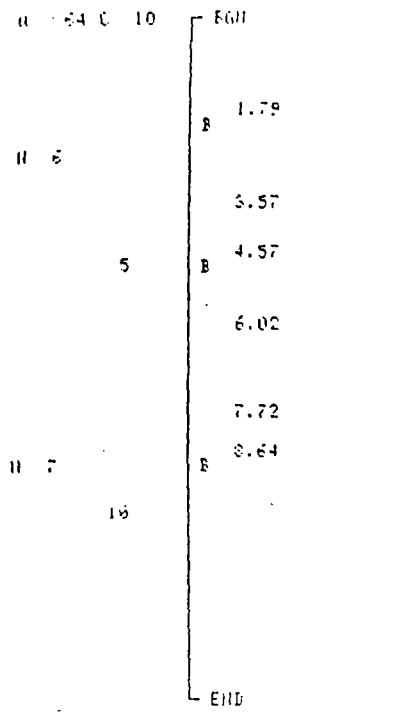
16 PEAKS > AREA/HT REJECT

21 PEAKS > AREA/HT REJECT

Smks # 8031566 (Dup).

RUN 4 12:49 88/03/24

METHOD 5 MODIFIED



RUN 4 12:49 88/03/24

METHOD 5 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
1.79	0.0282		9.2383
3.57	0.0406	V	20.0017
4.57	0.0266		13.1331
6.02	0.0617	V	30.4080
7.72	0.0299	V	14.7209
8.64	0.0238		11.7484

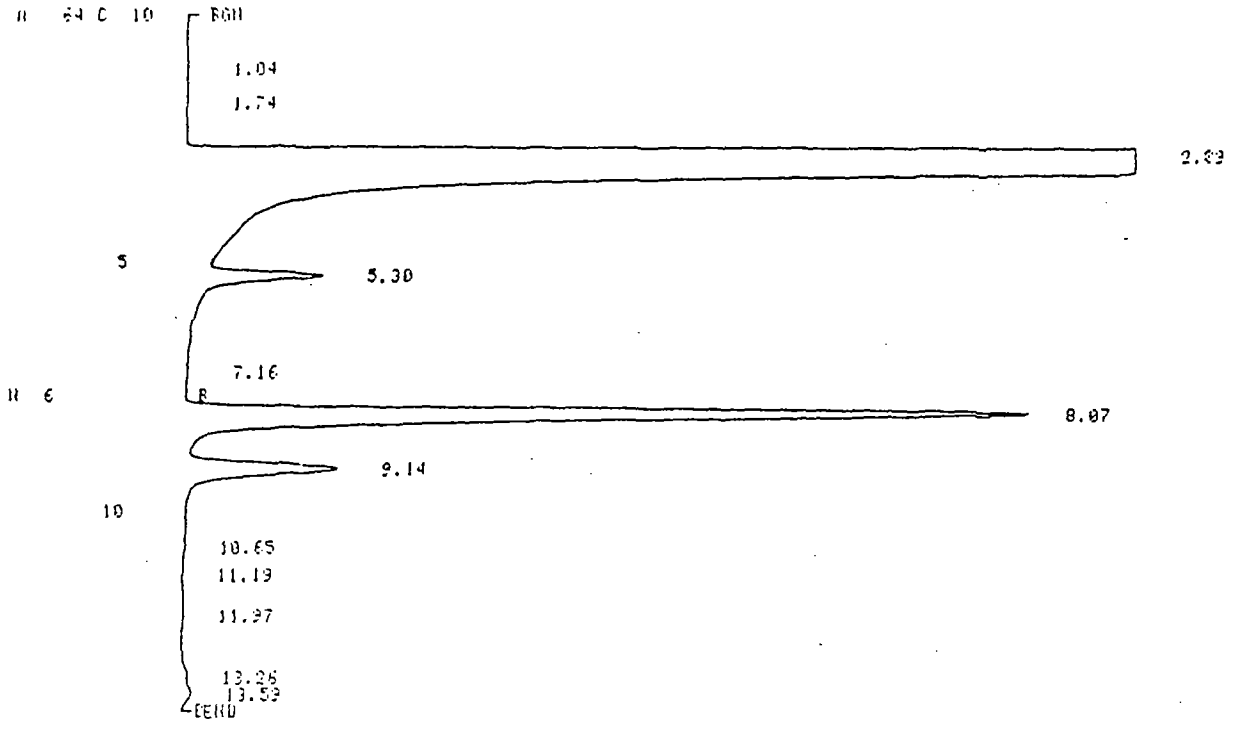
5 PEAKS > AREA/HT REJECT

21 PEAKS > AREA/HT REJECT

5mls # 8031566 xsp.

RUN 6 13:59 88/03/24

METHOD 5 MODIFIED



RUN 6 13:59 88/03/24

METHOD 5 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
1.04	0.1687	V	0.0066
1.74	0.1624	V	0.0063
2.89	2331.7625	V	91.6708
5.30	15.3502	V	0.6034
7.16	0.2961		0.0117
8.07	162.2553	V	6.3788
9.14	31.1585	V	1.2249
10.65	0.2985	V	0.0117
11.19	0.1031	V	0.0040
11.97	0.8222	V	0.0323
13.26	0.0663	V	0.0026
13.59	1.1782		0.0463

12 PEAKS > AREA/HT REJECT

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/22/88
Date Received: 03/24/88
Date Reported: 04/13/88
Project: #JCO-104H

Q.C. DATA REPORT

Analyst: L. Saunders
Date of Analysis: 4/7/88
Method of Analysis: EPA 8040
Detection Limit: 10
Units: ppb

Sample Number	Analyte	Original Result	Duplicate Result	% Deviation
8031744	Trichloro-phenol	74 (Matrix Spike)	75	0.7

Sample Number	Analyte	Sample Contribution	Spike Added	Spike Result	% Recovery
8031744	Trichloro-phenol	0	75	74.5	99

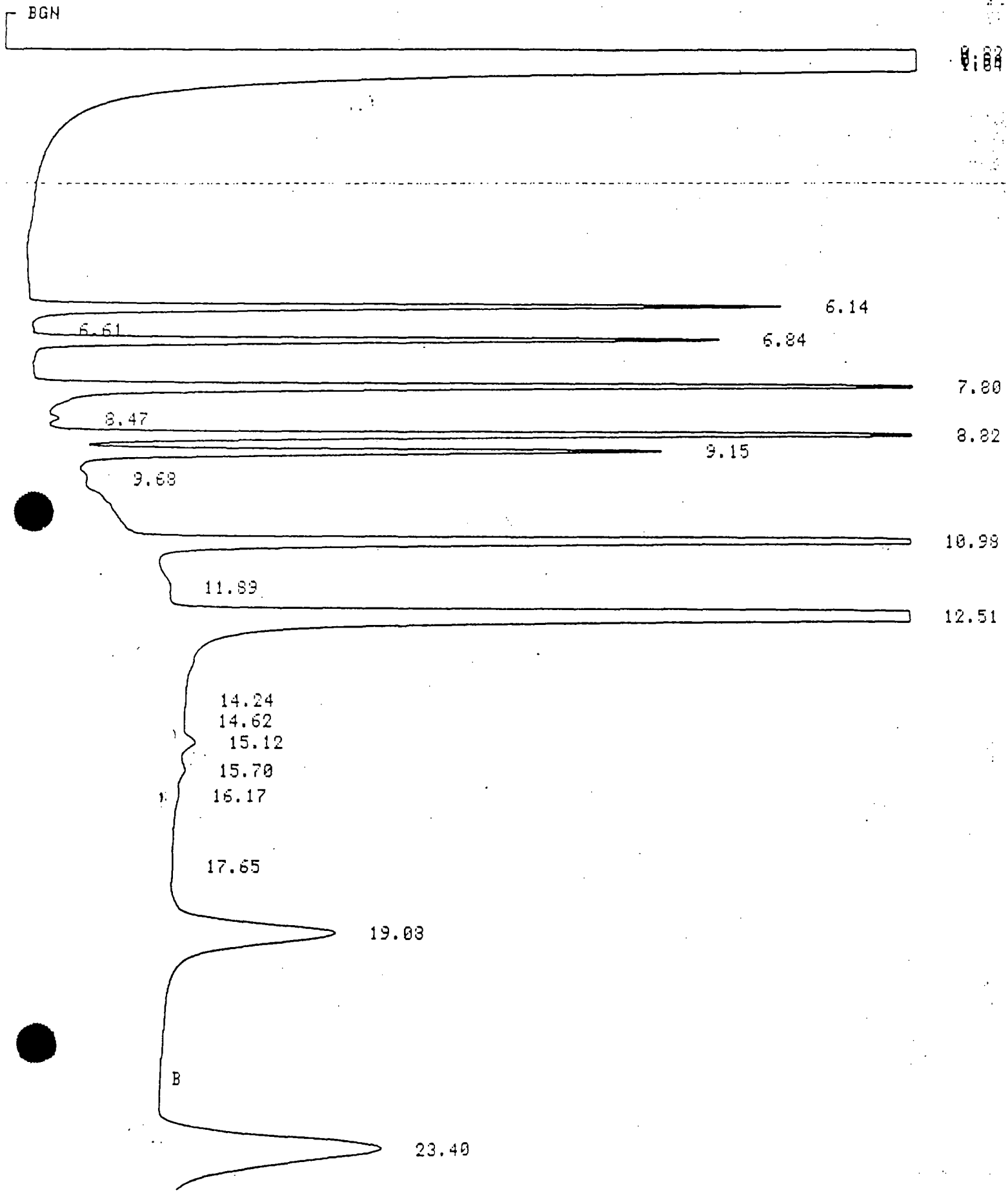
SEQUOIA ANALYTICAL LABORATORY

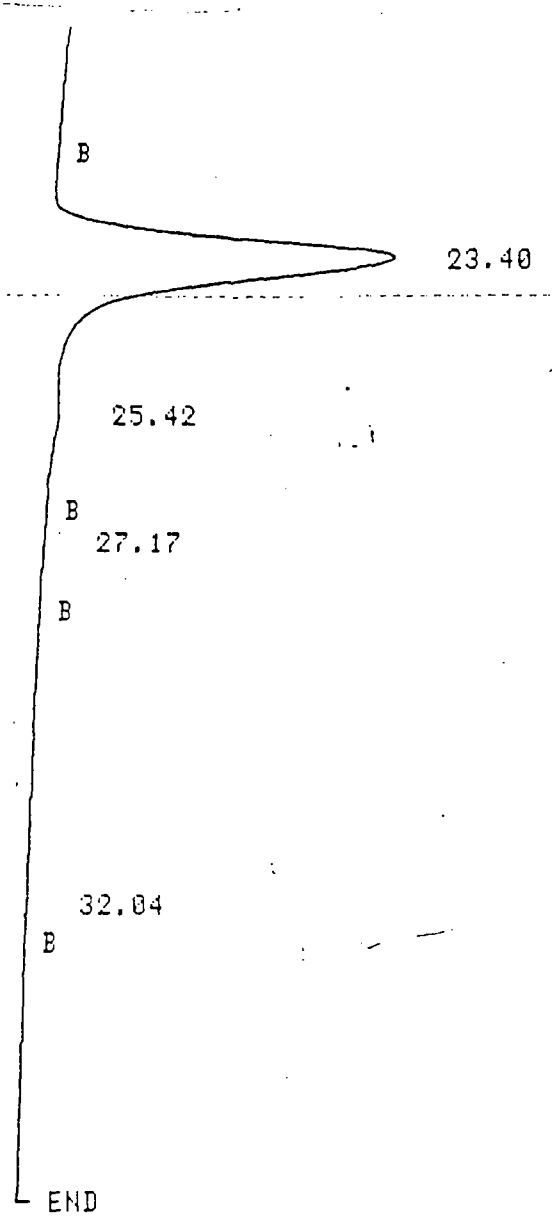
Scot Cocanour

Arthur G. Burton
Laboratory Director

18:48 88/04/07 mix 604 1:10 4λ

PHENOLS 8040





3 18:48 88/04/07

HOD 3 PHENOLS 8040 CALCULATION: %

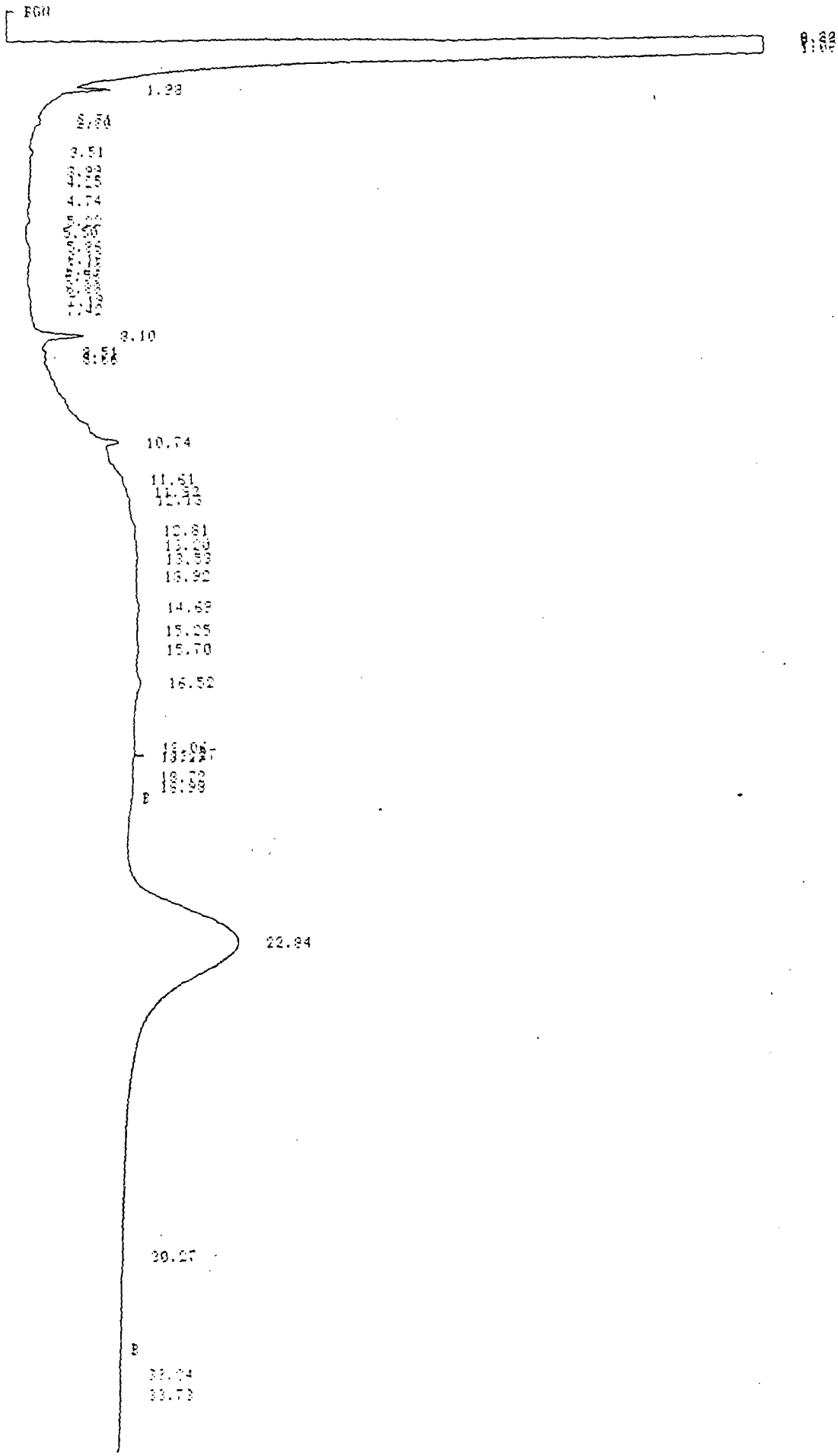
	AREA	BC	AREA %
.94	2.6580	V	0.2380
.98	0.7776	V	0.0696
.14	71.7820	V	6.4284
.84	64.9324	V	5.8151
.80	103.6508	V	9.2825
.47	0.7768	V	0.0695
.82	94.6266	V	8.4743
.15	55.6925	V	4.9876
.98	144.1669	V	12.9109
.89	0.5541	V	0.0496
.31	385.4698	V	34.5227
.12	2.6202	V	0.2346
.70	1.0129	V	0.0907
.08	70.7255		6.3338
.40	116.0779	V	10.3954
.42	1.0795		0.0966

PEAKS > AREA/HT REJECT

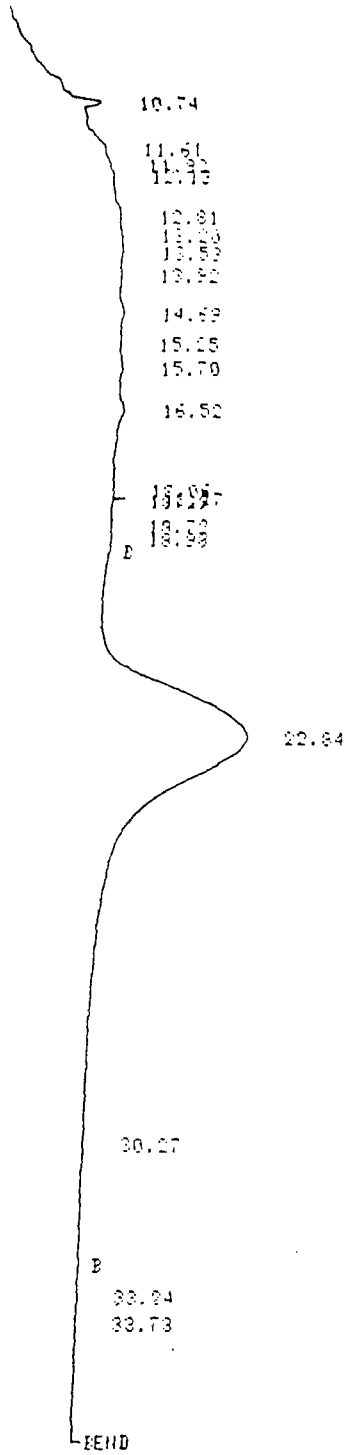
RUN 4 19:29 88/04/07 wahler 8031743 1000:1 4λ

METHOD 3 PHENOLS 8040

R 64 C 10 EGO



R 6



8031743
pg. 2

RUN 4 19:29 88/04/07

METHOD 3 PHENOLS 8040 CALCULATION: %

RT	AREA	BC	AREA %
0.82	487.8881	U	66.4836
0.93	2.2456	U	0.3060
5.22	0.5638	U	0.0768
8.10	6.2036	U	0.8453
14.69	0.7598	U	0.1035
15.70	0.6275	U	0.0855
16.52	1.9904	U	0.2712
22.84	233.5673	U	31.8278

8 PEAKS : AREA-HT REJECT

RUN 5 20:10 88/04/07 water 8031744 1000:1 4λ

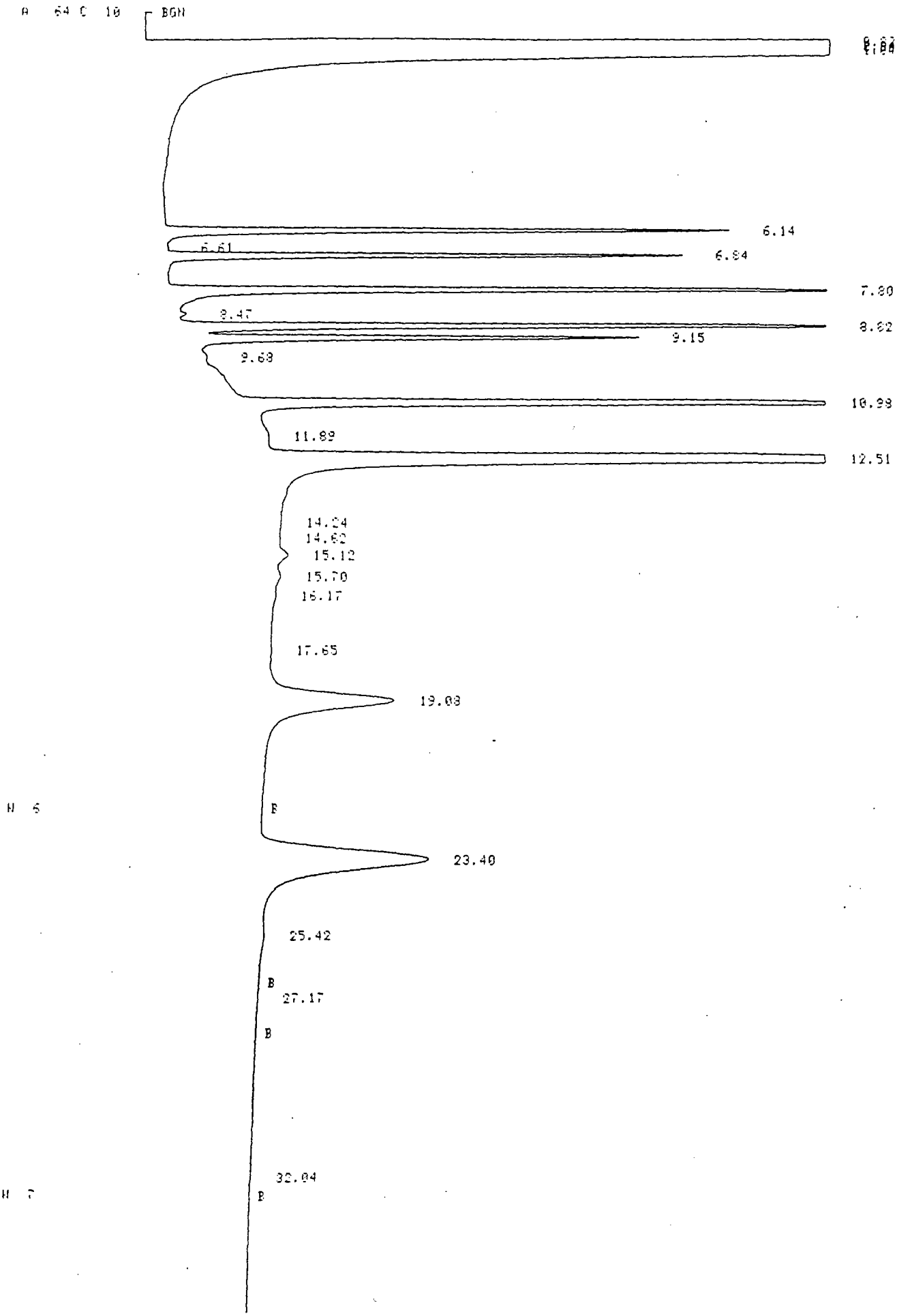
METHOD 3 PHENOLS 8040

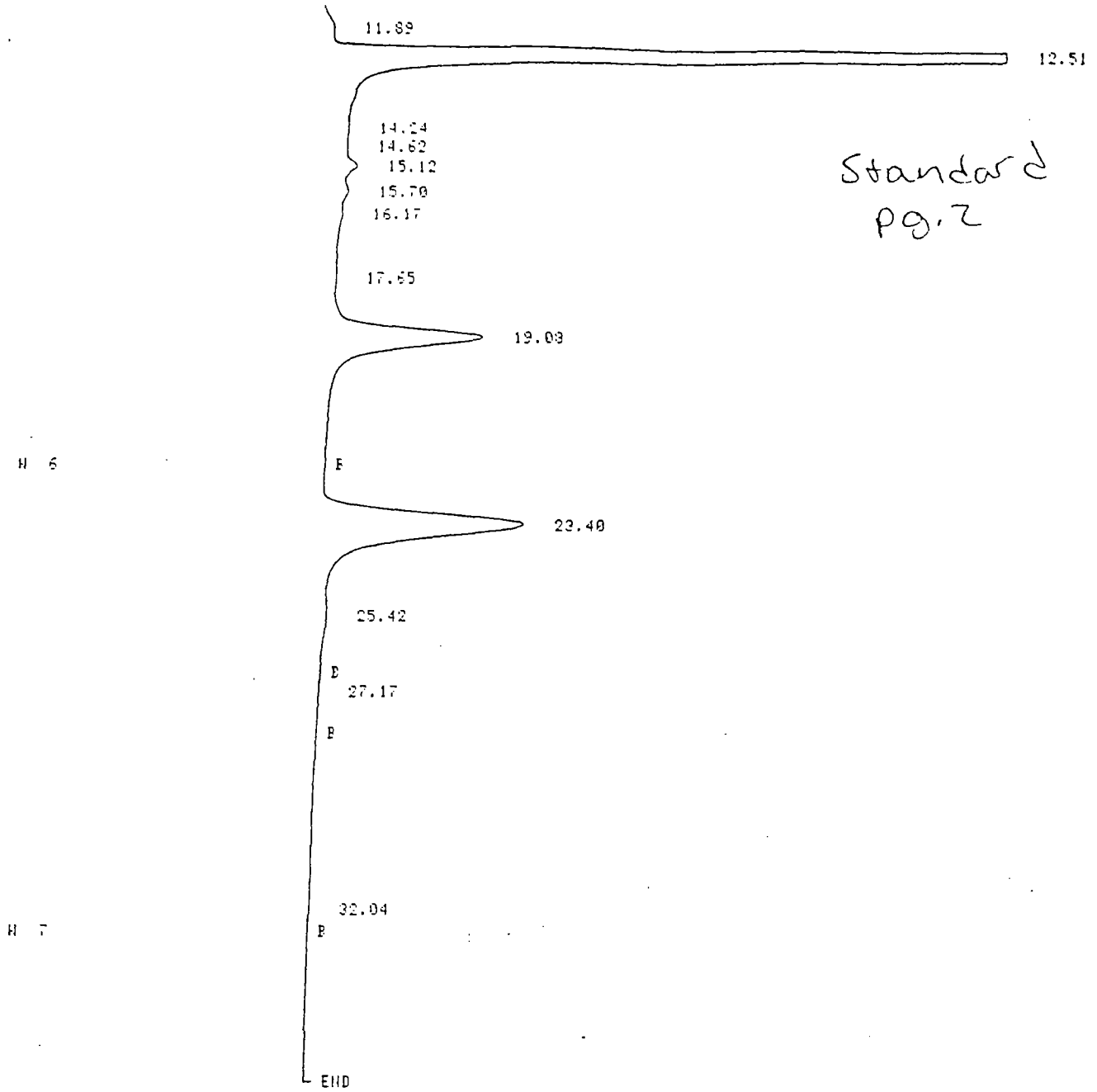
Standard
Mix 604 1:10 4λ

RUN 3 18:48 88/04/07

METHOD 3 PHENOLS 8040

A 64 C 10





Standard
pg. 2

RUN 3 18:48 88/04/07

METHOD 3 PHENOLS 8040 CALCULATION: %

RT	AREA	BC	AREA %
0.94	2.6580	V	0.2380
0.98	0.7776	V	0.0696
6.14	71.7820	V	6.4284
6.84	64.9324	V	5.8151
7.80	103.6508	V	9.2825
8.47	0.7768	V	0.0695
8.82	94.6266	V	8.4743
9.15	55.6925	V	4.9876
10.98	144.1669	V	12.9109
11.89	0.5541	V	0.0496
12.51	385.4838	V	34.5227
15.12	2.6202	V	0.2346
15.70	1.0109	V	0.0907
19.09	70.7255		6.3338
23.40	116.0779	V	10.3954
25.42	1.0795		0.0966

16 PEAKS > AREA/HT REJECT

RUN 4 19:29 88/04/07 water 1000:1 4λ

METHOD 3 PHENOLS 8040

31.8278

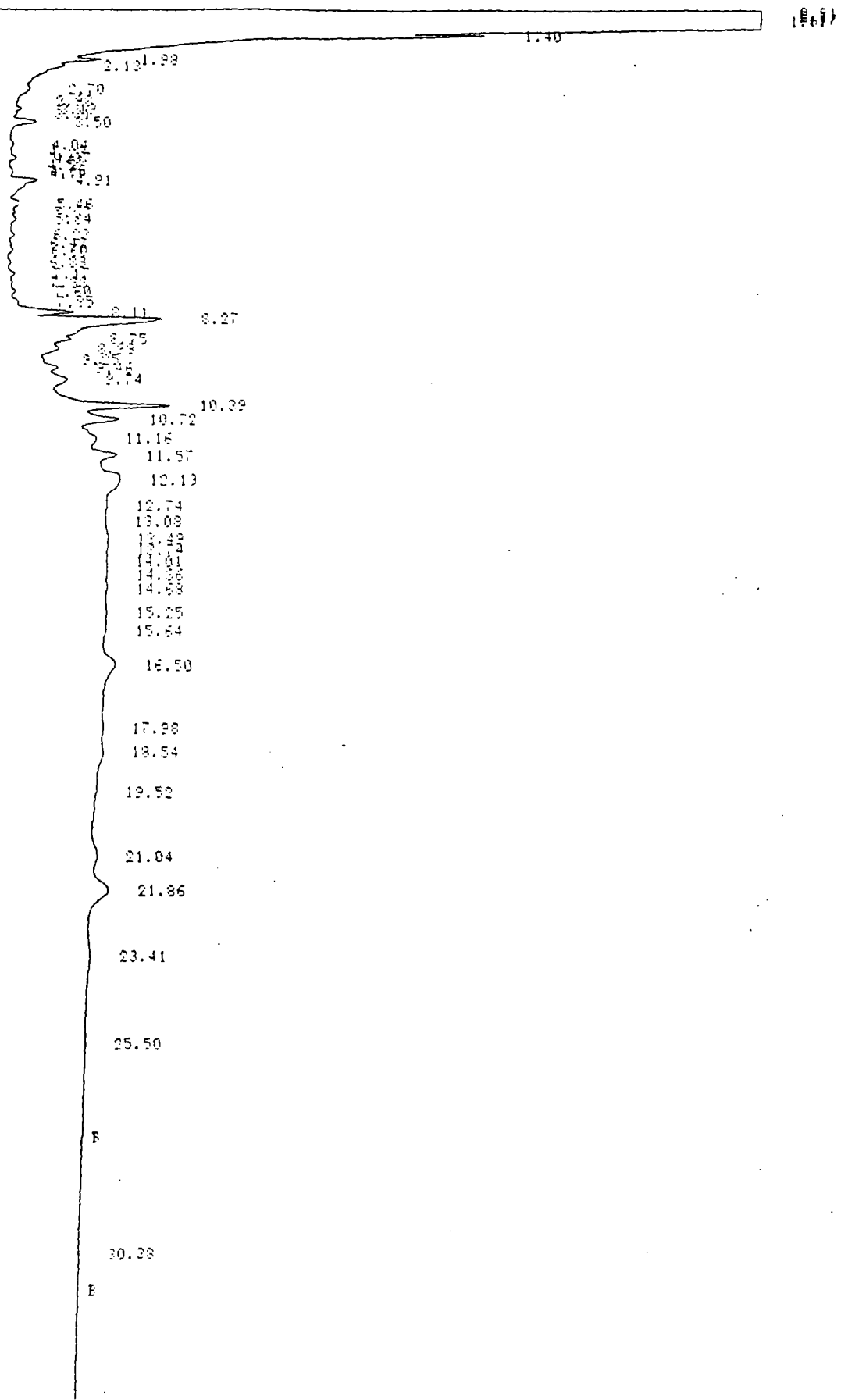
8 PEAKS > AREA/HT REJECT

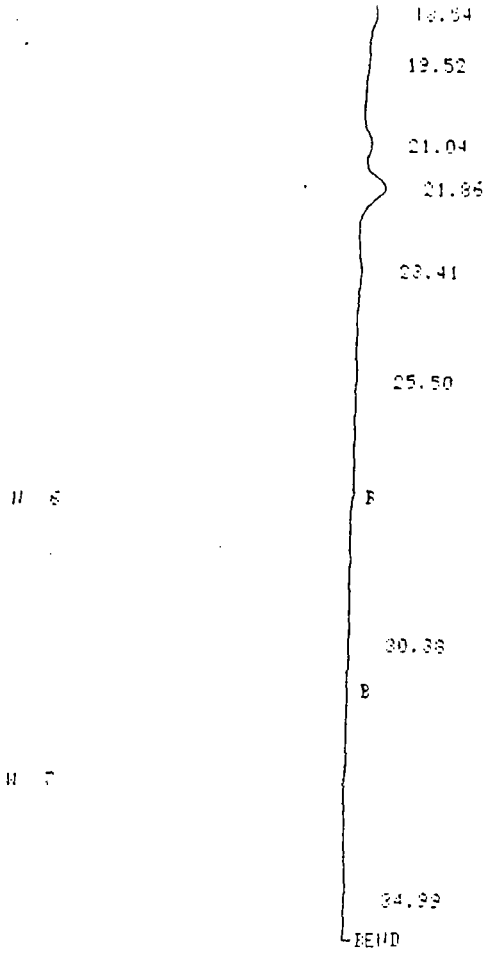
RUN 5 20:10 88/04/07

METHOD 3 PHENOLS 8040

wahler
8031744 1000:1 4λ

A 64 C 10 EGN





8031744
pg. 2

RUN 5 20:10 88/04/07

METHOD 3 PHENOLS 8040 CALCULATION: %

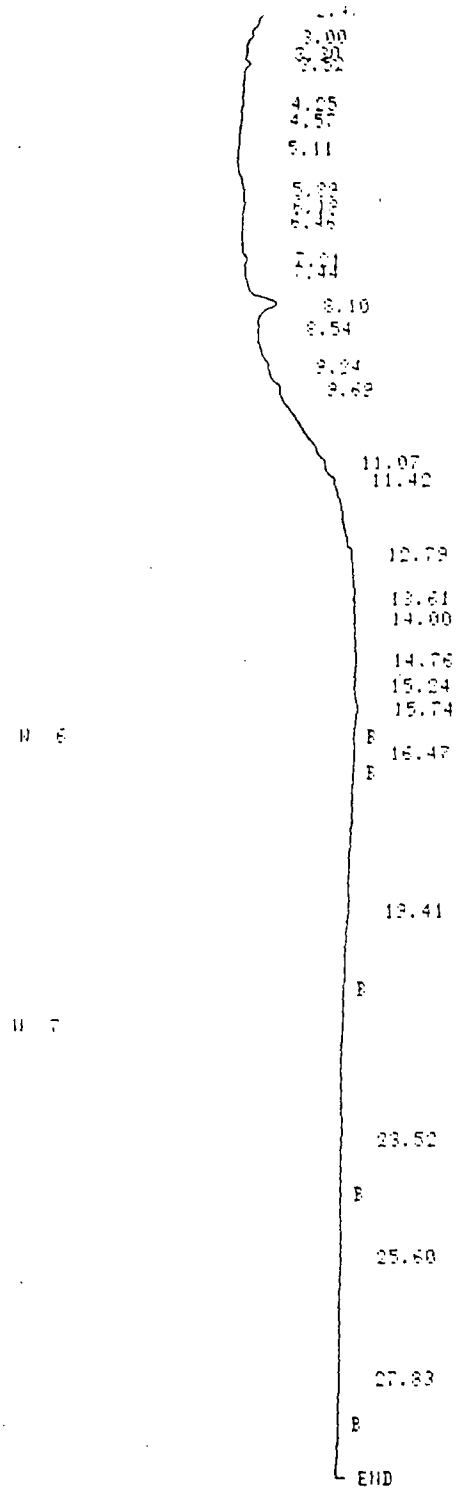
RT	AREA	BC	AREA %
0.89	0.6390	V	0.6606
0.97	0.8668	V	0.8961
1.98	1.8088	V	1.8700
2.70	0.8923	V	0.9225
3.50	2.8219	V	2.9175
4.37	0.6023	V	0.6227
4.91	5.4051	V	5.5882
5.46	1.1595	V	1.1988
6.23	0.5741	V	0.5935
7.17	0.6118	V	0.6325
7.60	0.5030	V	0.5200
8.11	4.1819	V	4.3235
8.27	23.6641	V	24.4655
8.75	0.6825	V	0.7056
8.98	1.3868	V	1.4338
9.46	1.1849	V	1.2251
9.74	2.9624	V	3.0627
10.39	9.7582	V	10.0886
10.72	4.9296	V	5.0965
11.16	2.2683	V	2.3452
11.57	3.0458	V	3.1490
12.13	6.6270	V	6.8515
16.50	5.9728	V	6.1751
18.54	0.9469	V	0.9789
21.04	2.0184	V	2.0867
21.86	7.1062	V	7.3468
23.41	1.9684	V	2.0351
25.50	0.7176		0.7419
30.38	0.5487		0.5673
34.99	0.8681		0.8974

30 PEAKS > AREA/HT REJECT

RUN 6 20:53 88/04/07

METHOD 3 MODIFIED

wahler
8031745 1000:1 4λ



8031745
pg. 2

RUN 6 20:53 88/04/07

METHOD 3 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
0.90	1.2528	U	12.4991
0.99	1.2592	U	12.5630
3.52	0.5540	U	5.5280
8.10	4.5809	U	45.7041
15.74	0.6924		6.9089
23.52	0.6097		6.0732
25.60	0.5325	U	5.3127
27.83	0.5423		5.4107

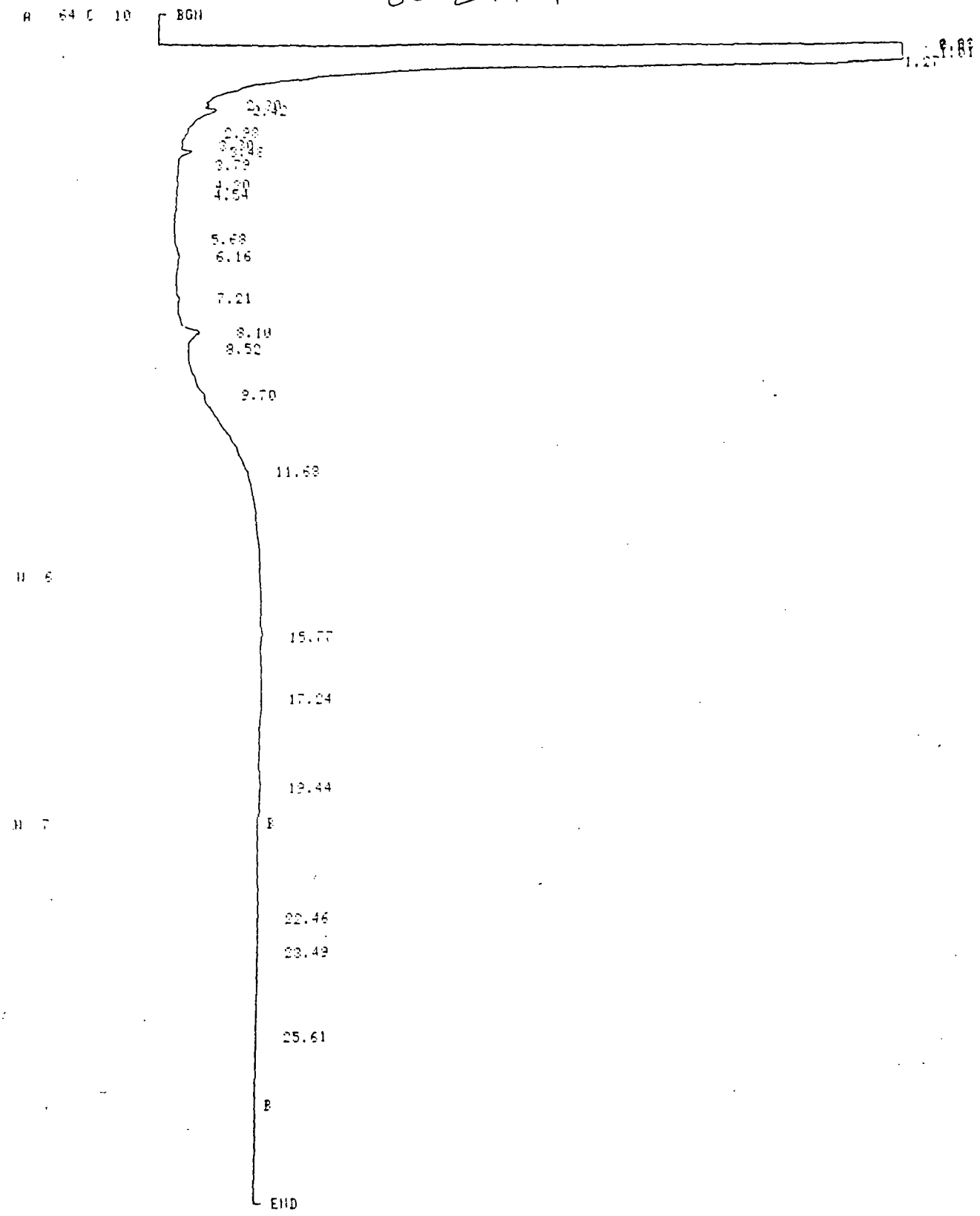
8 PEAKS : AREA HT REJECT

RUN 7 21:27 88/04/07 Wahler

METHOD 3 MODIFIED 1000:1 1λ

METHOD 3 MODIFIED 8031746 1000:1 1/1

A 64 C 10



RUN 7 21:27 88/04/07

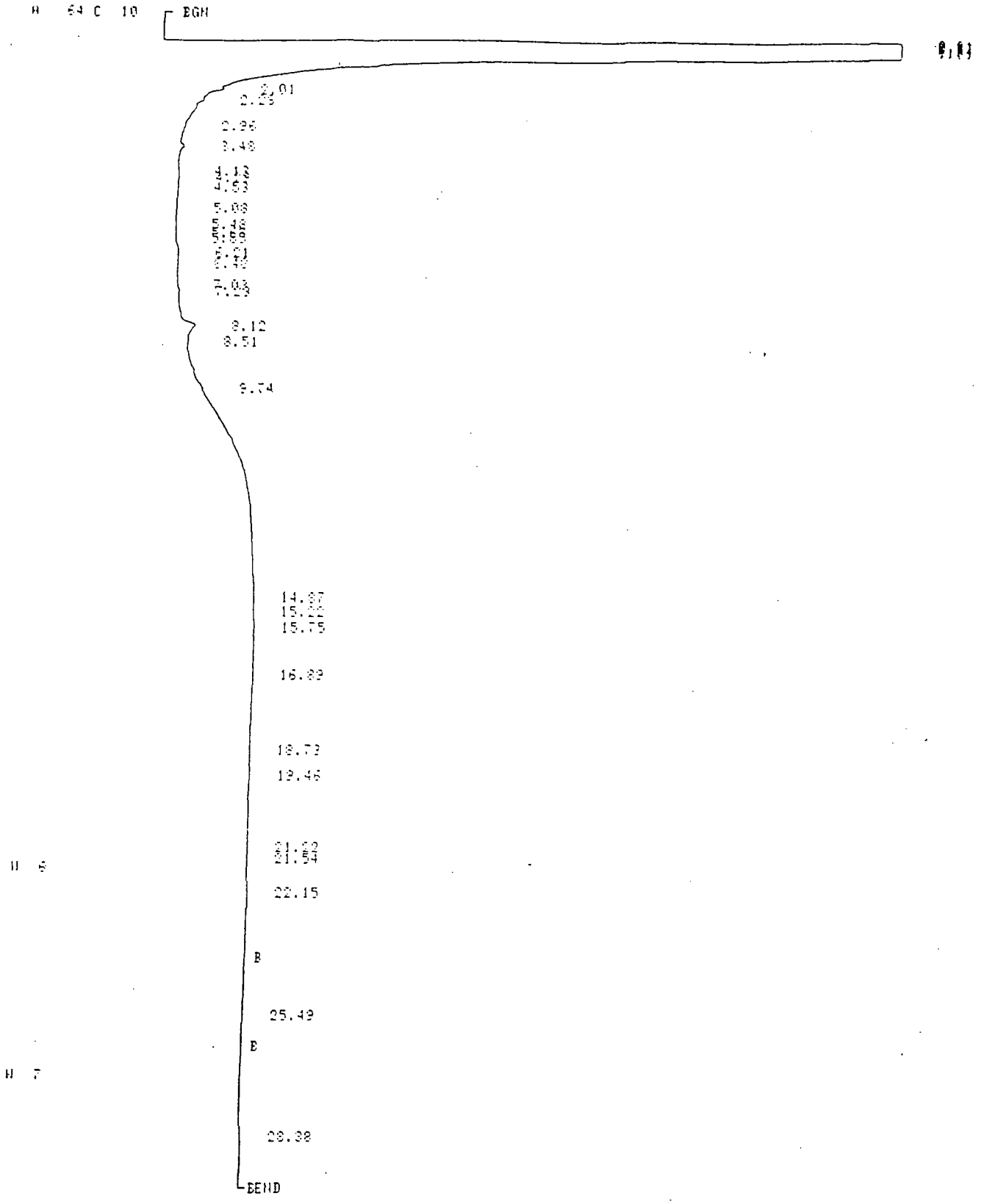
METHOD 3 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
0.85	0.6194	U	0.0819
1.01	749.1488	U	98.3300
2.42	2.0324	U	0.2699
3.48	1.2709	U	0.1681
6.16	1.8916	U	0.2505
9.10	2.5526	U	0.3377
11.68	3.2118	U	0.4392
15.77	0.9403	U	0.1244

RUN 8 21:59 88/04/07 8031747 100:1 4/

METHOD 3 MODIFIED

A 64 C 10



RUN 8 21:59 88/04/07

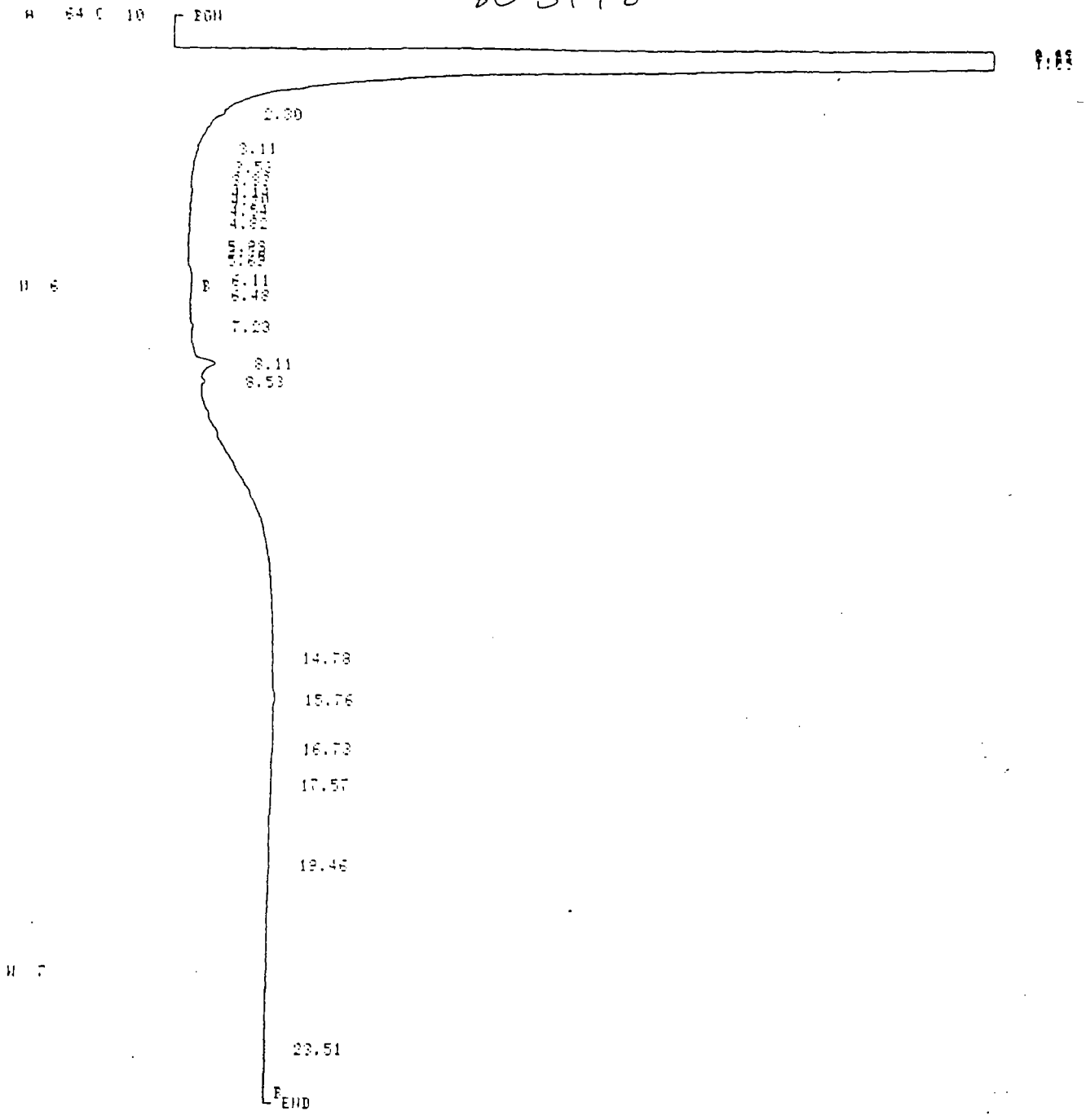
METHOD 3 MODIFIED CALCULATION: %

PT	AREA	BC	AREA %
0.87	1.0778	U	1.4302
0.94	1.3012	U	1.7264
8.12	1.0216	U	1.3557
14.87	70.2290	U	93.2447
15.75	0.5211	U	0.6914
16.89	0.6295	U	0.8352
19.46	0.5094	U	0.6760

RUN 9 22:33 88/04/07

METHOD 3 MODIFIED

Walker 8031748 1000:1 1λ



RUN 9 22:33 88/04/07

METHOD 3 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
0.91	0.6498	V	0.8139
6.11	0.5995		0.7565
8.11	2.4233	V	3.0578
14.78	74.8327	V	94.4268
15.76	0.7440	V	0.9388

5 PEAKS > AREA/HT REJECT

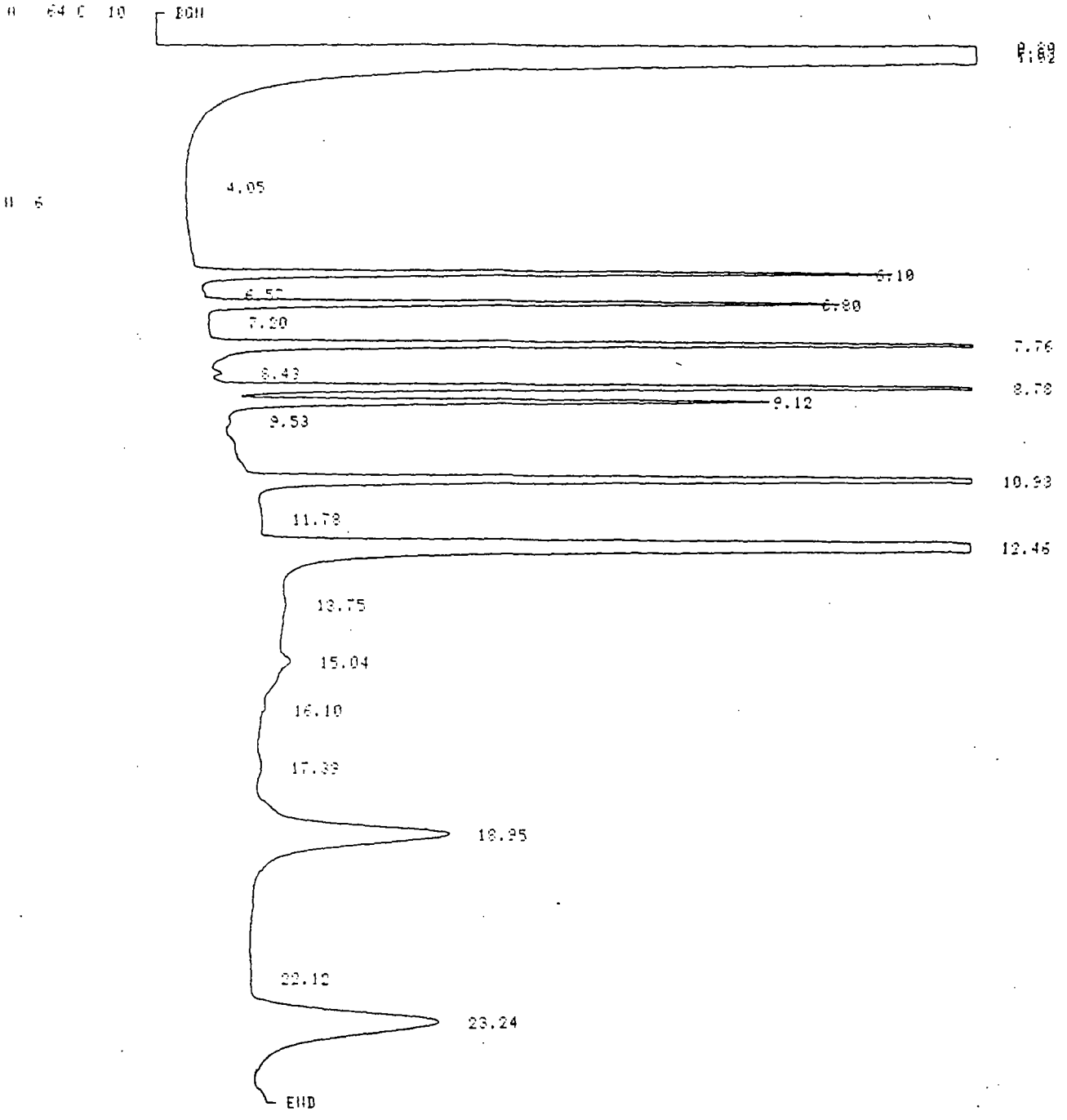
RUN DEVIATIONS

TIME	ZONE	CHANGE	TYPE
1.15	130 TIME 0	20.0 TO 16.0 MIN	PB

Sample 418

RUN 10 6:18 88/04/08

METHOD 3 MODIFIED phenol mix 604 H2O 4 λ



RUN 10 6:18 88/04/08

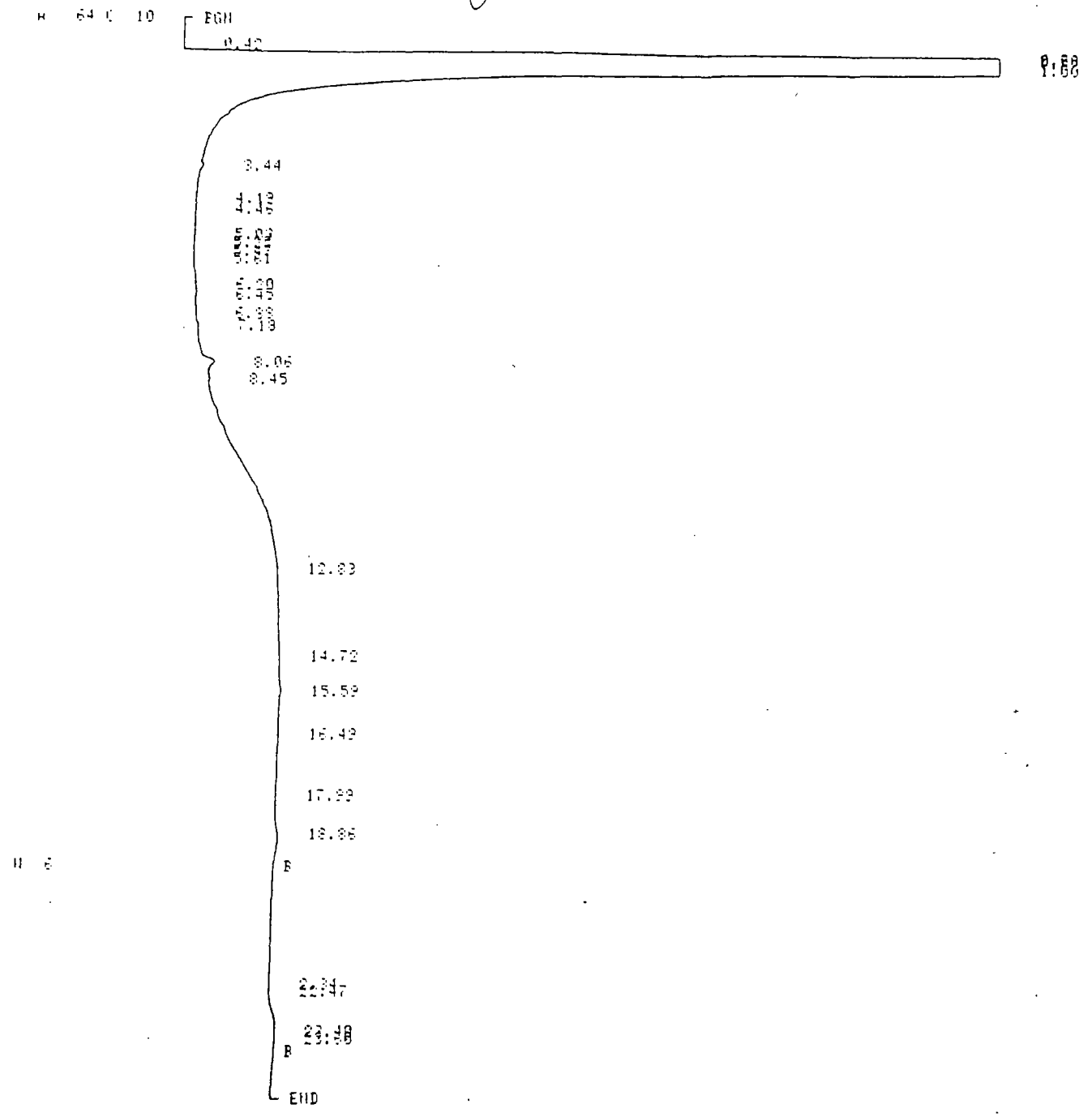
METHOD 3 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
0.93	1.9584	U	0.1735
6.10	68.6860	U	6.0870
6.80	65.0990	U	5.7691
7.76	102.4713	U	9.0811
8.43	0.8072	U	0.0715
8.78	96.4373	U	8.5464
9.12	56.3709	U	4.9959
10.93	145.9431	U	12.9336
12.46	374.7614	U	33.2119
13.75	1.4008	U	0.1242
15.04	5.5764	U	0.4941
17.39	1.7504	U	0.1556
18.95	98.9363	U	8.7679
23.24	108.1852	U	9.5875

14 PEAKS : AREA/HT REJECT

RUN 11 6:46 88/04/08 Wahler 8031749 1000:1 4λ

METHOD 3 MODIFIED



RUN 11 6:46 88/04/08

METHOD 3 MODIFIED CALCULATION: %

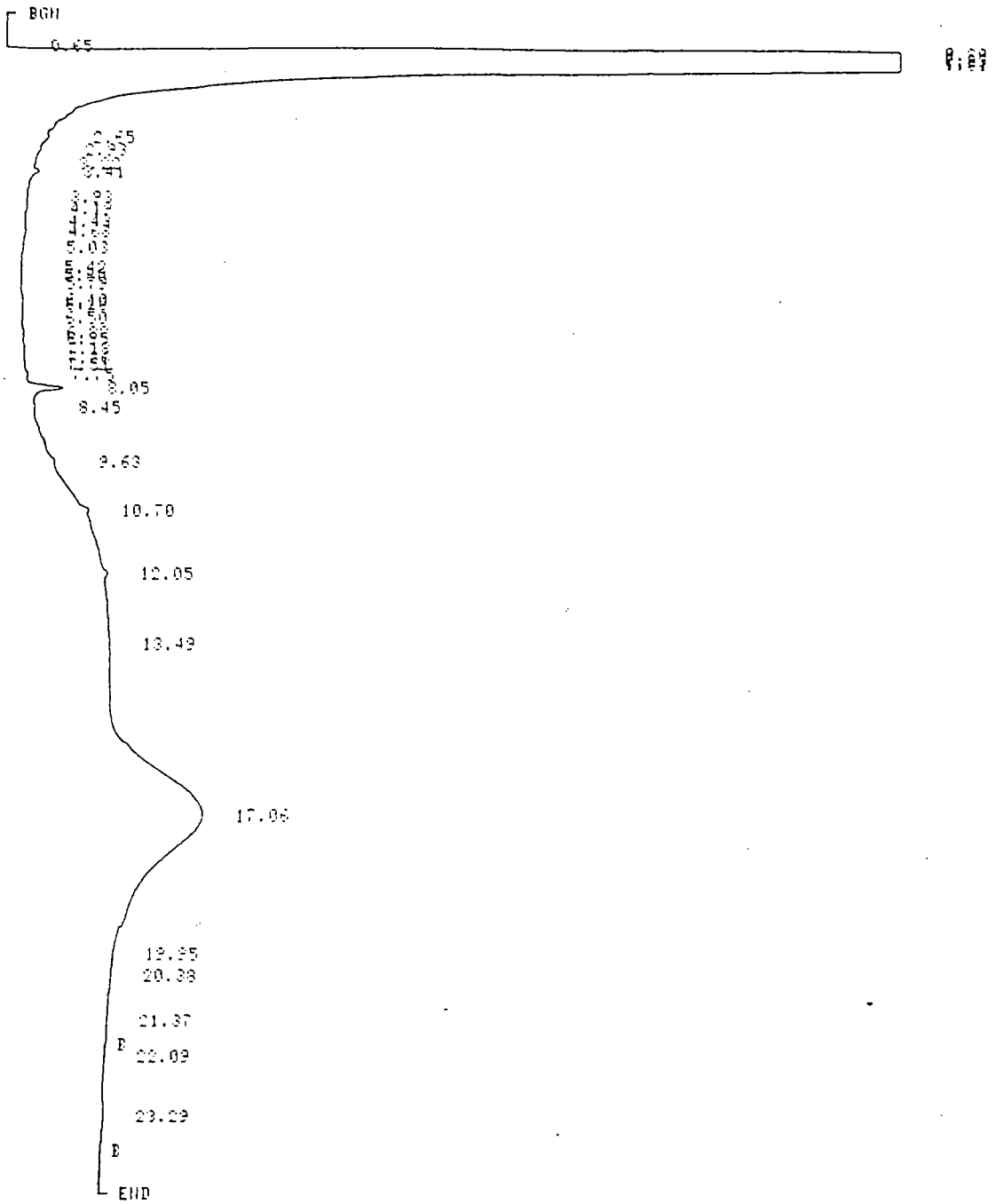
RT	AREA	BC	AREA %
0.80	333.4465	U	83.0292
0.87	3.7320	U	1.0412
8.06	0.6250	U	0.1743
12.83	16.9082	U	4.7172
14.72	0.5065	U	0.1413
15.59	0.7546	U	0.2105
18.86	1.9130		0.5337
23.40	0.5460	U	0.1523

8 PEAKS AREA HT REJECT

RUN 12 7:13 88/04/08 Wahler 8031750 1000:1 4λ

RUN 12 7:13 88/04/08 Wahler 8031750 100011 4λ

METHOD 3 MODIFIED



RUN 12 7:13 88/04/08

METHOD 3 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
0.99	1.4900	U	0.8767
0.95	0.5340	U	0.3142
3.41	0.5211	U	0.3066
8.05	3.7258	U	2.1924
12.05	2.1383	U	1.2583
13.49	0.9183	U	0.5404
17.06	159.7333	U	93.9947
23.29	0.8775		0.5163

8 PEAKS ; AREA/HT REJECT

Wahler

RUN 13 7:41 88/04/08 8031751 10001 4λ

METHOD 3 MODIFIED

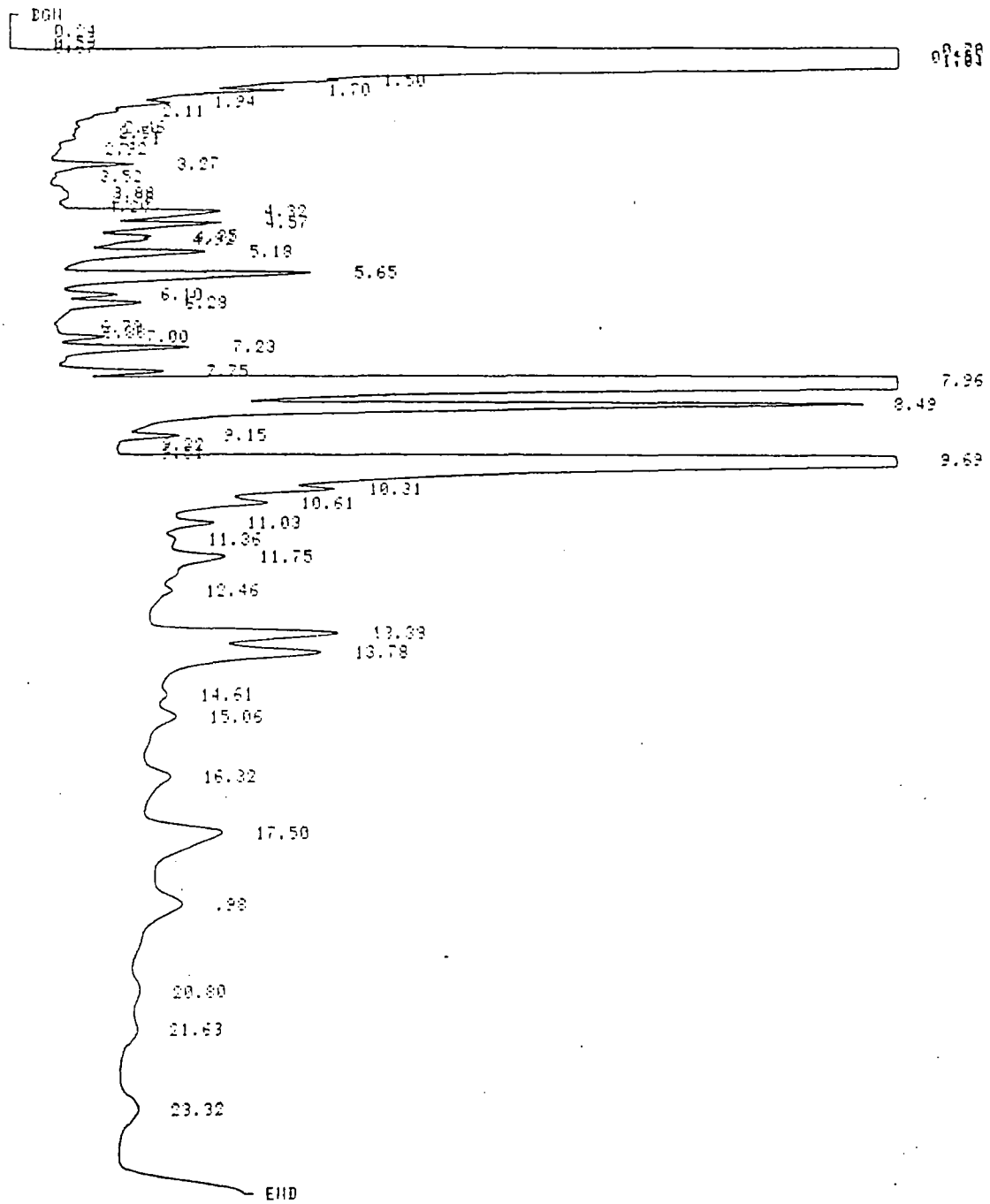
Wahler

8031751 1000:1 4λ

RUN 13 7:41 88/04/08

METHOD 3 MODIFIED

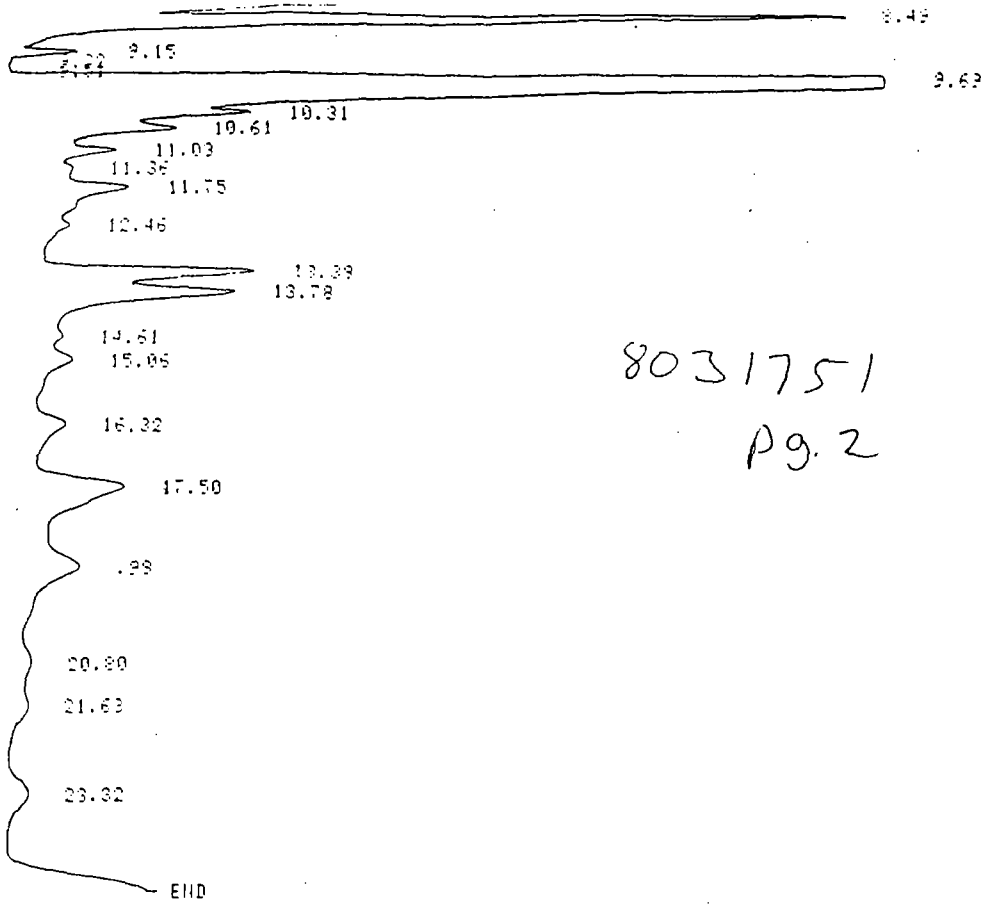
A 64 C 10



RUN 13 7:41 88/04/08

METHOD 3 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
0.80	200.9493	"	14.6782
0.93	2.2840	"	0.1669
1.01	1.0344	"	0.0755
1.50	1.0424	"	0.0761
1.70	3.9086	"	0.2855
1.94	2.2511	"	0.1644
2.71	0.6061	"	0.0442
2.92	0.5614	"	0.0410
3.27	7.5155	"	0.5489
4.32	18.1092	"	1.3227
4.57	10.1950	"	0.7446
4.85	1.2006	"	0.0913
4.92	0.5414	"	0.0395
5.18	14.6726	"	1.0717
5.65	33.8361	"	2.4709



8031751
Pg. 2

RUN 13 7:41 88/04/08

METHOD 3 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
0.80	200.9493	U	14.6782
0.93	2.2840	U	0.1669
1.01	1.0344	U	0.0755
1.50	1.0424	U	0.0761
1.70	3.9096	U	0.2855
1.94	2.2511	U	0.1644
2.71	0.6061	U	0.0442
2.92	0.5614	U	0.0410
3.27	7.5155	U	0.5489
4.32	18.1092	U	1.3227
4.57	10.1850	U	0.7446
4.85	1.2508	U	0.0913
4.92	0.5414	U	0.0395
5.18	14.6726	U	1.0717
5.65	33.9361	U	2.4798
6.10	3.7588	U	0.2746
6.28	8.2662	U	0.6038
7.00	3.2746	U	0.2391
7.22	14.1273	U	1.0319
7.75	7.9820	U	0.5830
7.96	528.7045	U	38.6190
8.49	79.1700	U	5.7829
9.15	4.4030	U	0.3216
9.69	282.1776	U	20.6115
10.31	4.3122	U	0.3149
10.61	5.3676	U	0.3920
11.03	4.5797	U	0.3345
11.36	0.9042	U	0.0660
11.75	11.7575	U	0.8588
12.46	1.6170	U	0.1181
13.39	17.7969	U	1.2999
13.78	15.7408	U	1.1497
14.61	0.9505	U	0.0694
15.06	5.5923	U	0.4084
16.32	9.1042	U	0.6650
17.50	30.2632	U	2.2105
19.98	15.8262	U	1.1560
20.80	2.7175	U	0.1984
21.63	2.2394	U	0.1635
23.32	9.5319	U	0.6962

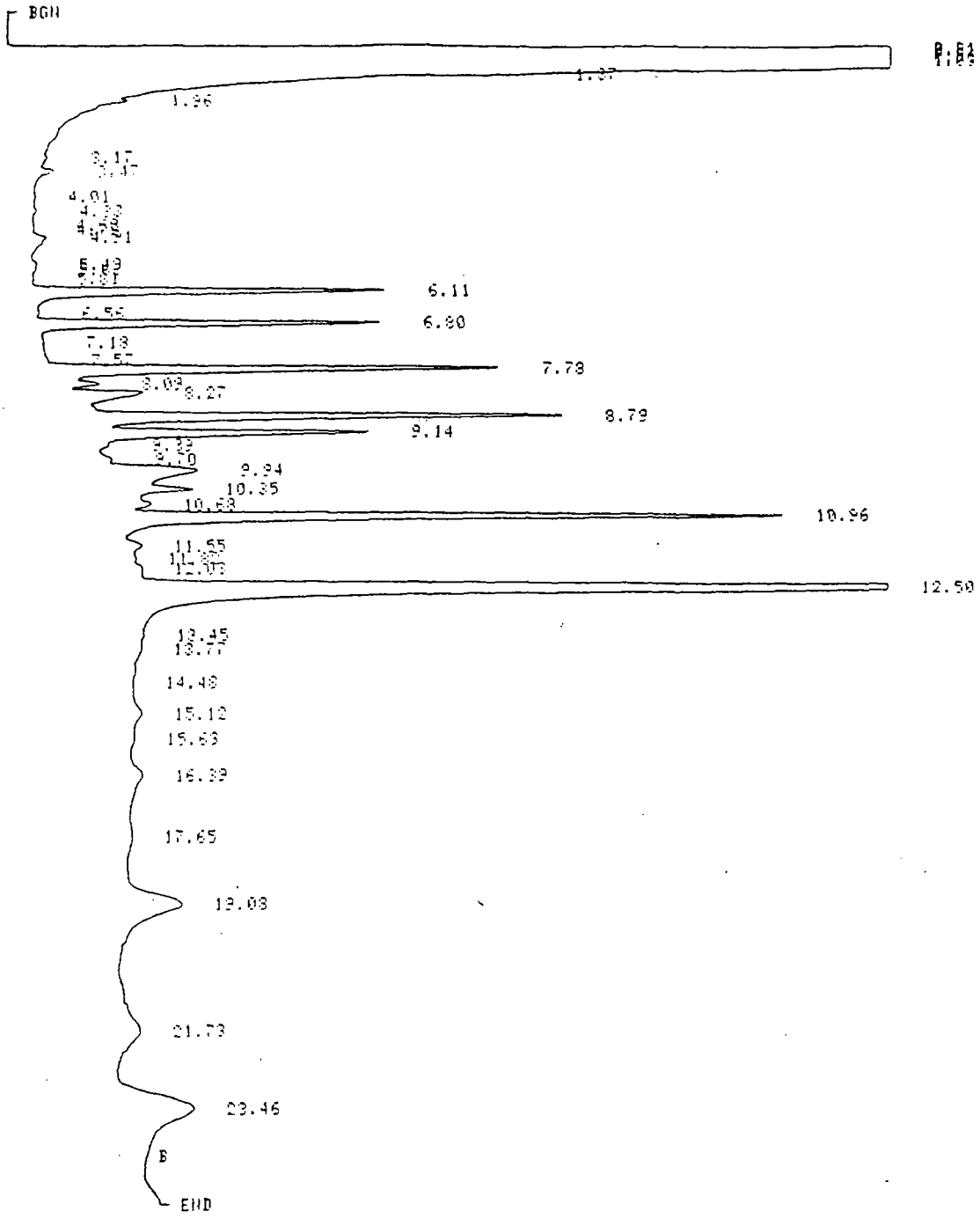
40 PEAKS AREA HT REJECT

RUN 14 8:10 88/04/08

METHOD 3 MODIFIED

8031744 Spiker 1/1

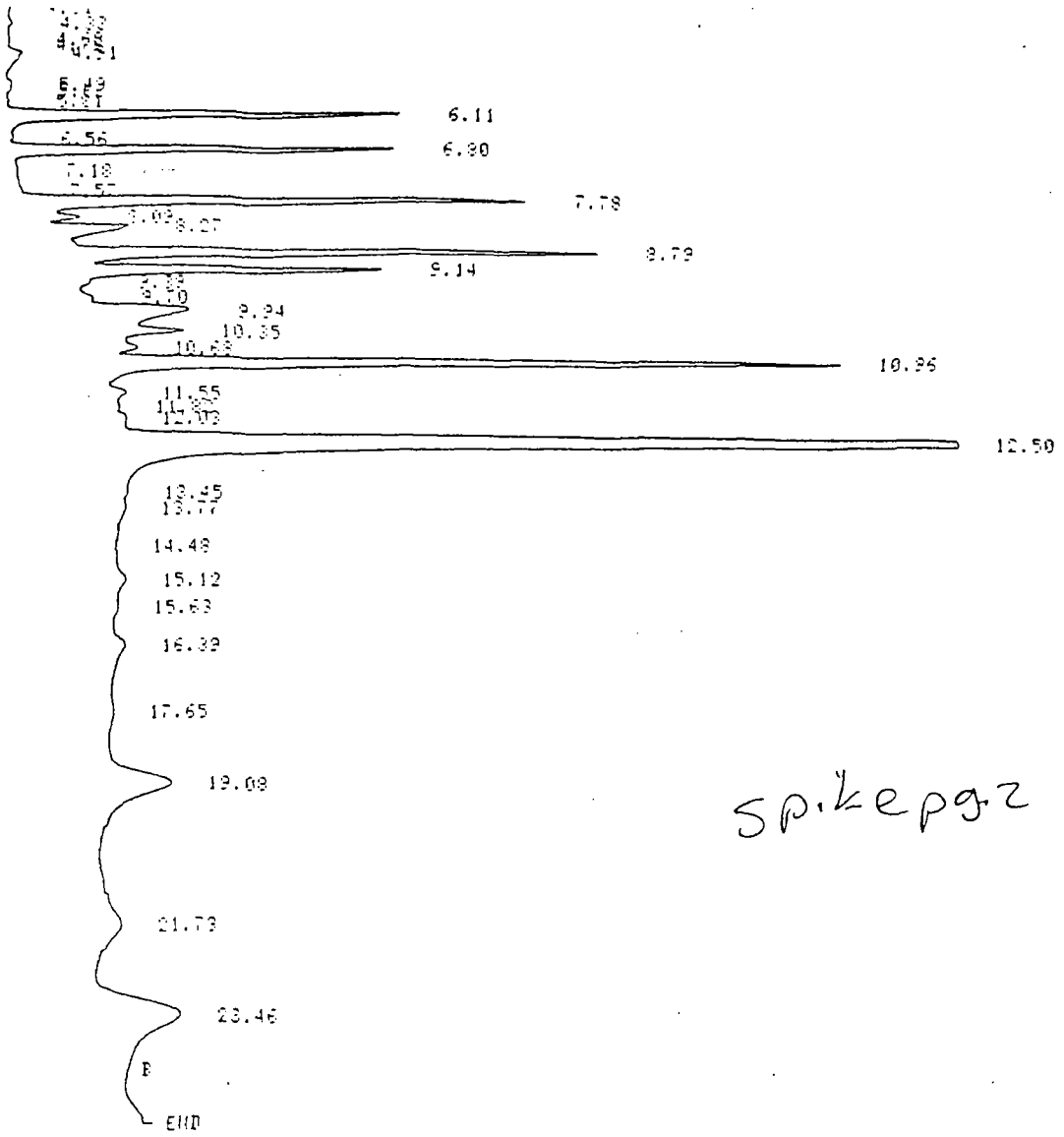
A 64 C 10



RUN 14 8:10 88/04/08

METHOD 3 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
0.82	0.7046	V	0.1228
0.96	1.6448	"	0.2869
3.47	1.3376	"	0.2333
4.91	2.6656	"	0.4649
6.11	36.2750	"	6.3271
6.80	33.1048	"	5.7742
7.78	45.1482	"	7.8748
8.09	1.9491	"	0.3399
8.27	9.1153	"	1.5899
8.79	47.0290	"	8.2029
9.14	26.3579	"	4.5974
9.94	13.6872	"	2.3872
10.35	4.0550	V	0.7072
10.68	1.5938	"	0.2780
10.96	73.2745	"	12.7807
11.55	1.4208	"	0.2478
12.03	0.6193	"	0.1080
12.50	185.6052	"	32.3736
15.12	0.0460	"	0.3568



spikepg2

PUN 14 8:10 88/04/08

METHOD 3 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
0.80	0.7046	V	0.1209
0.96	1.6448	V	0.2868
3.47	1.3376	V	0.2333
4.91	2.6656	V	0.4649
6.11	36.2750	V	6.3271
6.80	33.1048	V	5.7742
7.78	45.1482	V	7.8748
8.09	1.9491	V	0.3399
8.27	9.1153	V	1.5899
8.79	47.0290	V	8.2029
9.14	26.3579	V	4.5974
9.94	13.6872	V	2.3873
10.35	4.0550	V	0.7072
10.68	1.5938	V	0.2780
10.96	73.2745	V	12.7807
11.55	1.4208	V	0.2478
12.03	0.6193	V	0.1080
12.50	185.6052	V	32.3736
15.12	2.0460	V	0.3569
16.39	4.6479	V	0.8107
17.65	1.1427	V	0.1993
19.08	28.0316	V	4.8893
21.73	15.3918	V	2.6929
23.46	36.4928		6.3638

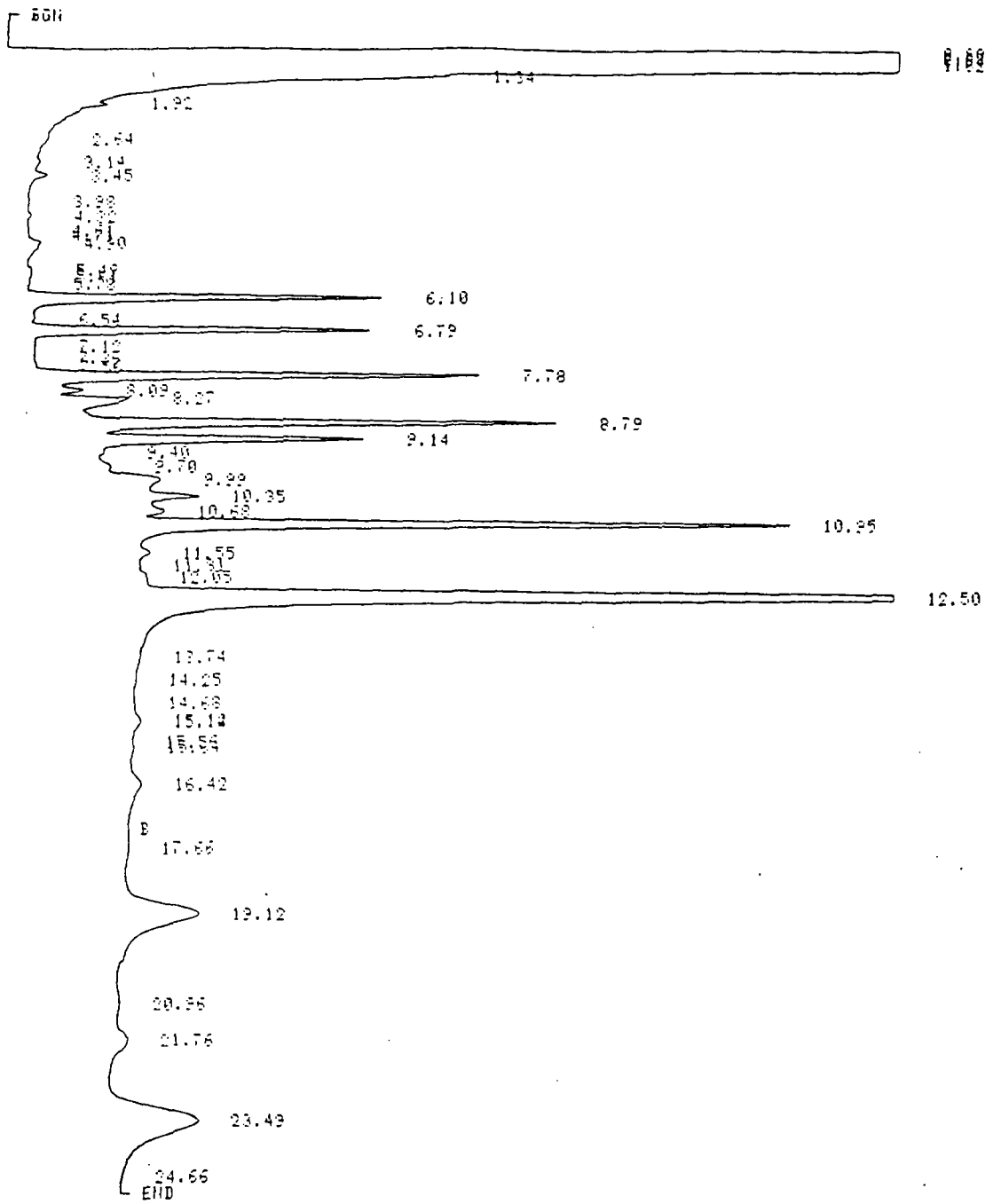
24 PEAKS : AREA-HT REJECT

PUN 15 8:38 88/04/08 8031749 Spike Duplicate 4X

RUN 15 8:38 88/04/08 8031744 Spike Duplicate 1/1

METHOD 3 MODIFIED

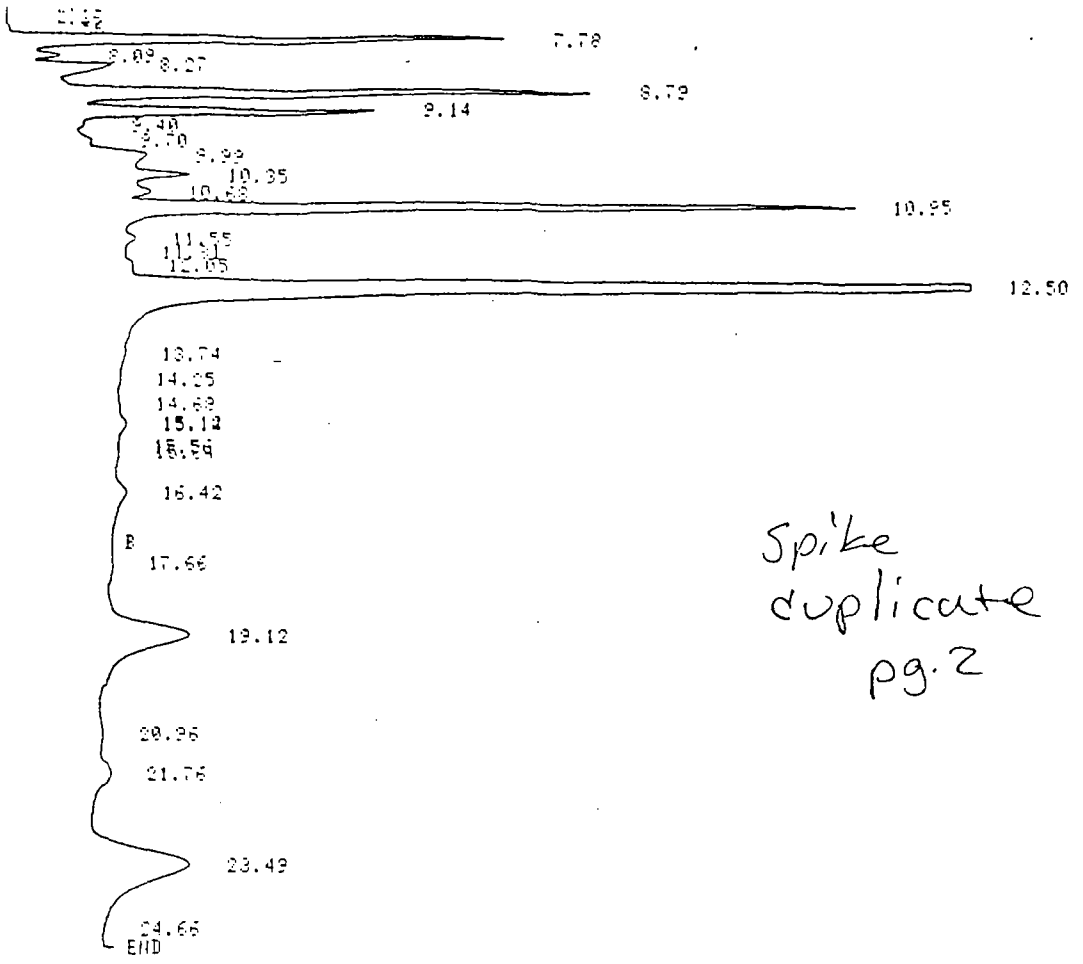
A 64 C 10



RUN 15 8:38 88/04/08

METHOD 3 MODIFIED CALCULATION: %

RT	AREA	BC	AREA %
0.88	1.3072	U	0.2229
0.94	0.6216	U	0.1060
3.45	1.3816	U	0.2413
4.90	2.6816	U	0.4693
6.10	36.2828	U	6.3507
6.79	33.0346	U	5.7801
7.78	45.5689	U	7.9761
8.09	1.6608	U	0.2901
8.27	8.8858	U	1.5553
8.79	47.1970	U	8.2610
9.14	25.8001	U	4.5158
9.70	0.5458	U	0.0955
9.99	4.8111	U	0.8456
10.35	4.3189	U	0.7559
10.68	1.8247	U	0.3193
10.95	72.1815	U	12.6310
11.55	1.2497	U	0.2187
12.50	186.7124	U	32.6809
16.42	4.1056		0.7186



Spike duplicate pg. 2

RUN 15 8:38 88/04/08

METHOD 3 MODIFIED CALCULATION: %

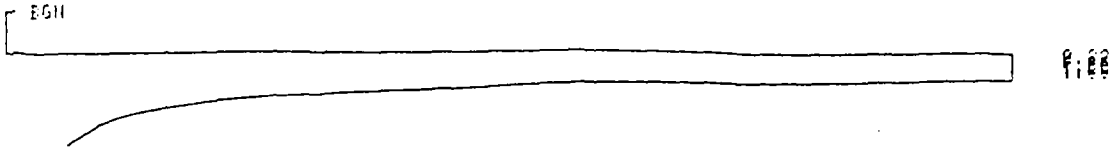
RT	AREA	BC	AREA %
0.88	1.3072	V	0.2288
0.94	0.6216	V	0.1088
3.45	1.3816	V	0.2418
4.90	2.6816	V	0.4693
6.10	36.2828	V	6.3507
6.79	33.0346	V	5.7821
7.78	45.5688	V	7.9761
8.09	1.6688	V	0.2921
8.27	8.8858	V	1.5553
8.79	47.1570	V	8.2610
9.14	25.8001	V	4.5158
9.70	0.5458	V	0.0955
9.99	4.8311	V	0.8456
10.35	4.3188	V	0.7559
10.68	1.8247	V	0.3193
10.95	72.1635	V	12.6310
11.55	1.2497	V	0.2187
12.50	186.7124	V	32.6809
16.42	4.1056		0.7186
17.66	0.5591	V	0.0978
19.12	37.3036	V	6.5293
20.96	0.9022	V	0.1579
21.76	4.6842	V	0.8198
23.49	47.6869	V	8.3468

24 PEAKS > APEAKHT REJECT

RUN 16 9:07 88/04/08 8031058 1000:1 4X

METHOD 3 MODIFIED

A 64 C 10 BGN



SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/22/88
Date Received: 03/24/88
Date Reported: 04/13/88
Project: #JCO-104H

Q.C. DATA REPORT

Analyst: G. Emory
Date of Analysis: 4/15/88
Method of Analysis: EPA 3510/8015
Detection Limit: 50
Units: ppb

Sample Number	Analyte	Original Result	Duplicate Result	% Deviation
8031749	Paint Thinner	< 50	< 50	0

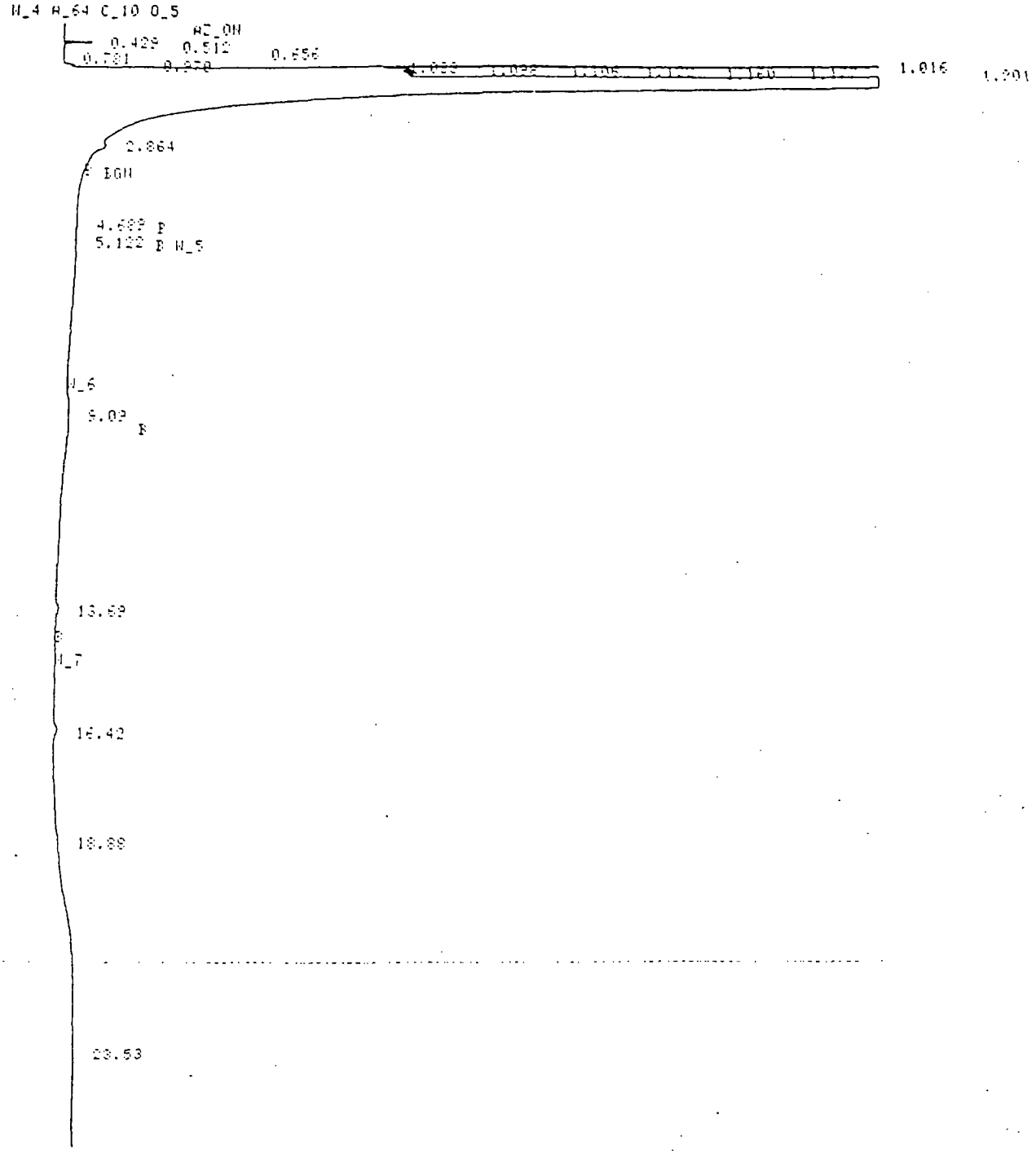
Sample Number	Analyte	Sample Contribution	Spike Added	Spike Result	% Recovery
8031746	Paint Thinner	< 50	980	940	96

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

3µl $MeCl_2$ Blank

FILE 228 RUN 66 STARTED 17:56.3 80/01/15
% METHOD 1 DIESELS LAST EDITED 05:17.1 80/01/07



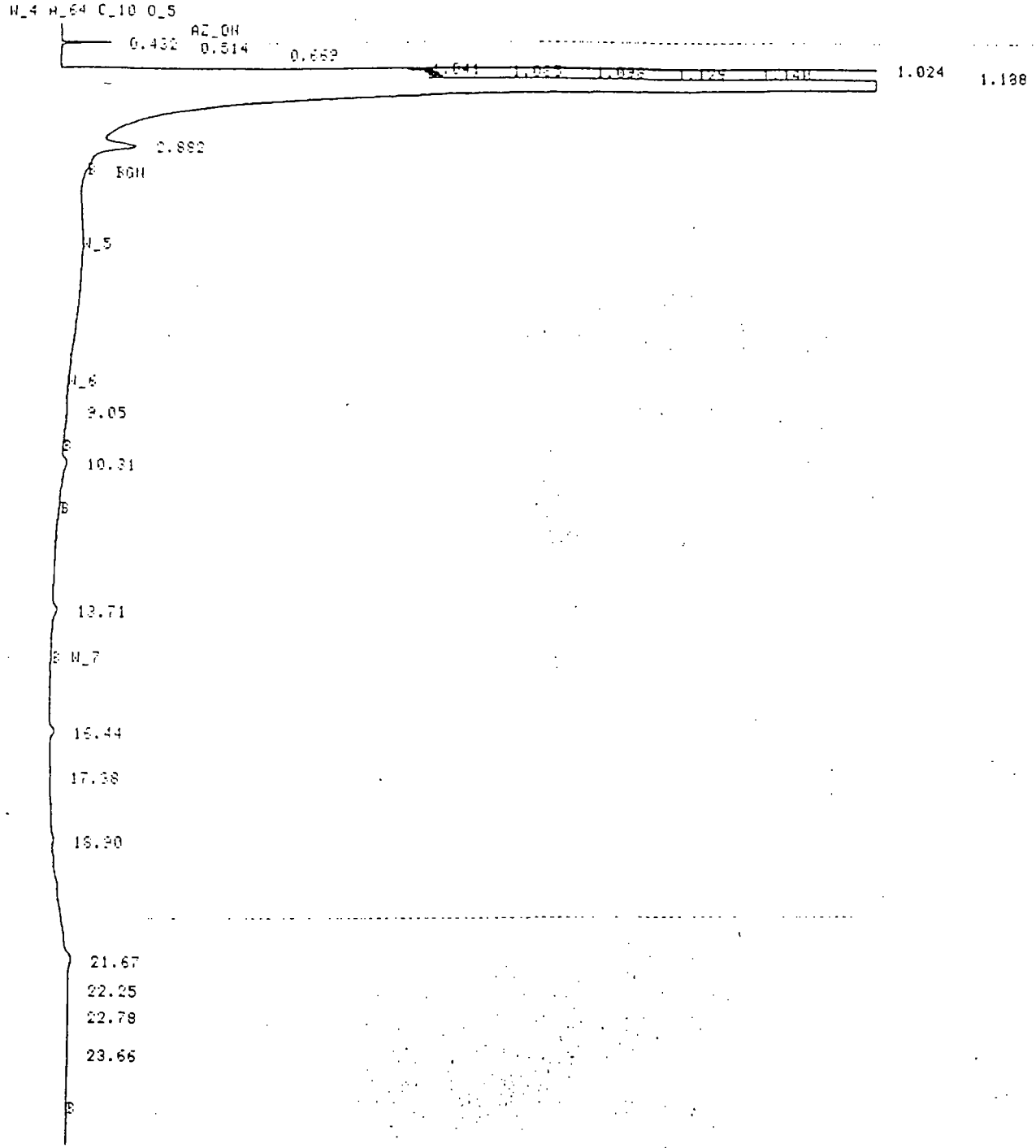
FILE 228 RUN 66 STARTED 17:56.3 80/01/15
% METHOD 1 DIESELS LAST EDITED 05:17.1 80/01/07

PT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
9.09	46060			4.9661	
13.69	33001			3.5581	
16.42	35396		V	3.8162	
23.53	813033		V	87.6595	

4 PEAKS > AREA REJECT 927490 TOTAL AREA
0 PEAKS > HEIGHT REJECT 0.0000 TOTAL HEIGHT

FILE 234 RUN 72 STARTED 22:00.5 80/01/15
% METHOD 1 DIESELS LAST EDITED 05:17.1 80/01/07

803173 3µl 910:2



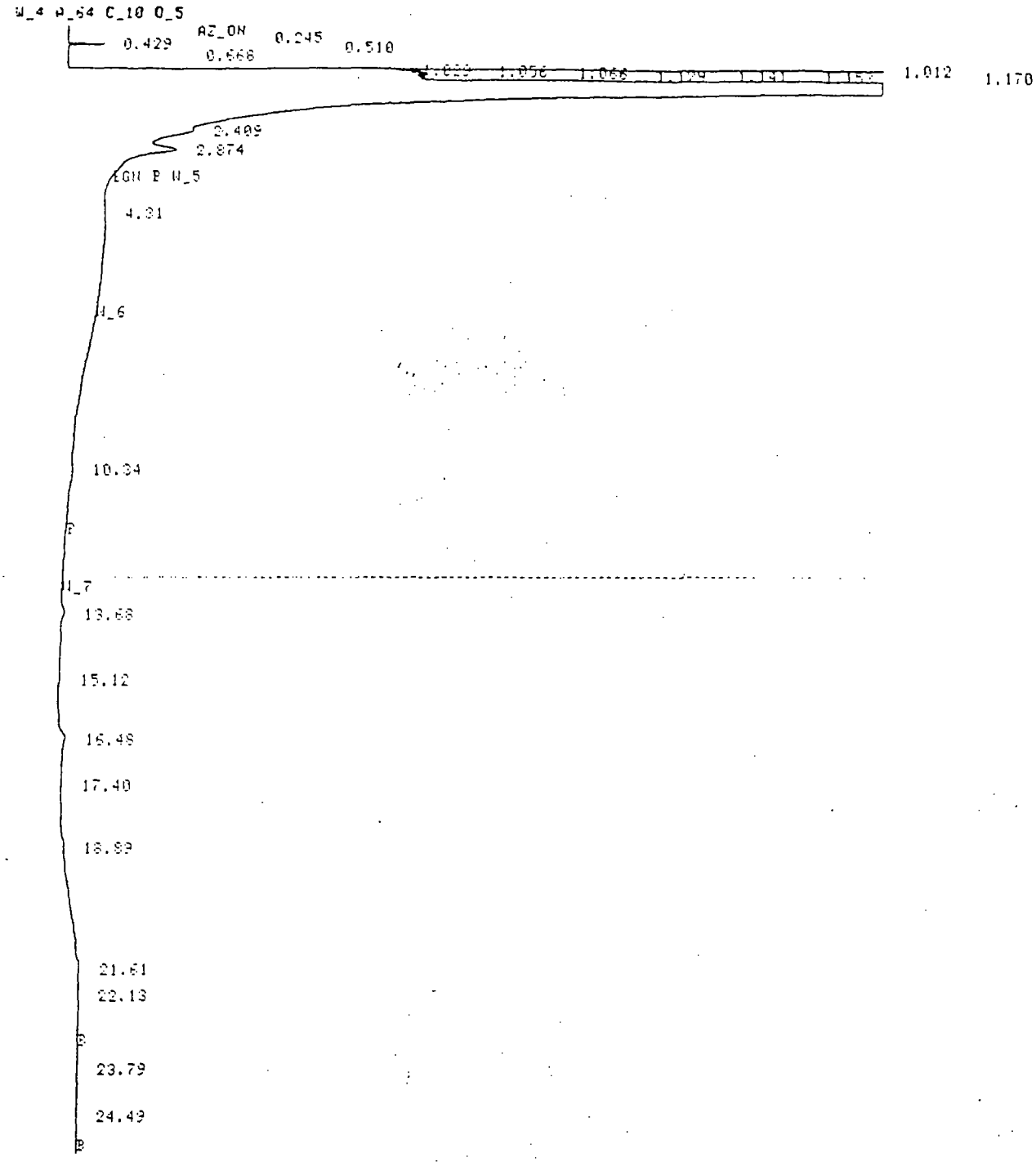
FILE 234 RUN 72 STARTED 22:00.5 80/01/15
% METHOD 1 DIESELS LAST EDITED 05:17.1 80/01/07

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
9.05	33172			10.0012	
10.31	100005			30.1510	
13.71	53488			16.1263	
16.44	36264		V	10.9334	
17.38	3088		V	0.9309	
18.90	4010		V	1.2090	
21.67	88907		V	26.8051	
22.25	3093		V	0.9325	
22.78	1821		V	0.5490	
23.66	7833			2.3616	

10 PEAKS > AREA REJECT 331681 TOTAL AREA
0 PEAKS > HEIGHT REJECT 0.0000 TOTAL HEIGHT

FILE 221 RUN 59 STARTED 04:02.1 80/01/15
% METHOD 1 DIESELS LAST EDITED 05:17.1 80/01/07

8021744 3µl 970:3.6

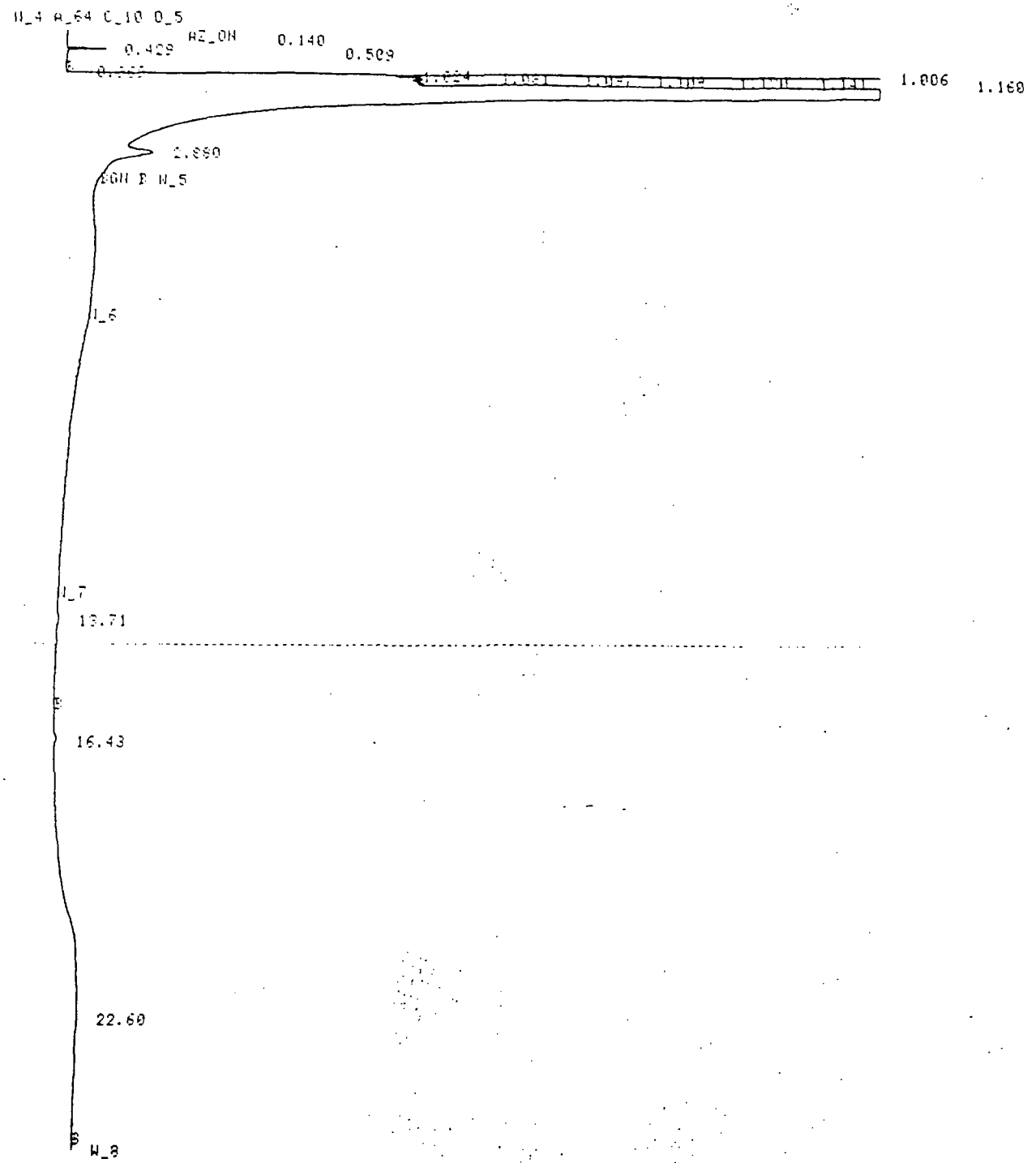


FILE 221 RUN 59 STARTED 04:02.1 80/01/15
% METHOD 1 DIESELS LAST EDITED 05:17.1 80/01/07

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
4.01	5648		V	1.7228	
10.34	21704			6.6206	
13.68	46530		V	14.1939	
15.12	4078		V	1.2440	
16.48	77418		V	23.6161	
17.40	1823		V	0.5560	
21.61	152101		V	46.3980	
22.13	9069			2.7665	
23.79	5899		V	1.7995	
24.49	3549			1.0826	

10 PEAKS > AREA REJECT 327817 TOTAL AREA
0 PEAKS > HEIGHT REJECT 0.0000 TOTAL HEIGHT

FILE 222 RUN 60 STARTED 04:41.6 80/01/15
% METHOD 1 DIESELS LAST EDITED 05:17.1 80/01/07 3µl 8031745 970:3.5



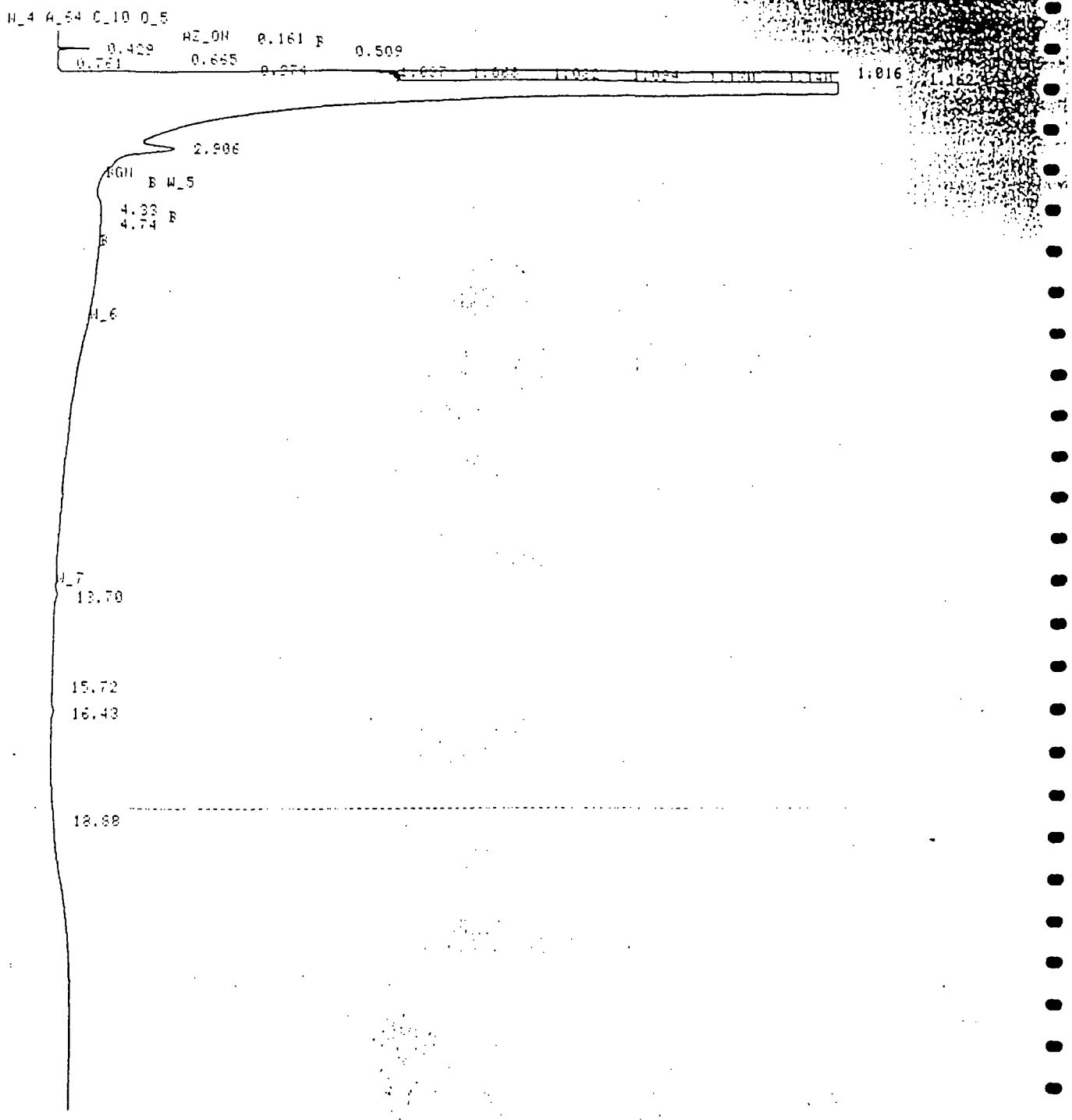
FILE 222 RUN 60 STARTED 04:41.6 80/01/15
% METHOD 1 DIESELS LAST EDITED 05:17.1 80/01/07

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
13.71	4349			0.2117	
16.43	19736		V	0.9608	
22.60	2029970			98.8274	

3 PEAKS > AREA REJECT 2054055 TOTAL AREA
0 PEAKS > HEIGHT REJECT 0.0000 TOTAL HEIGHT

3ml 8031746 880 2.5

FILE 223 RUN 61 STARTED 05:18.3 80/01/15
% METHOD 1 DIESELS LAST EDITED 05:17.1 80/01/07



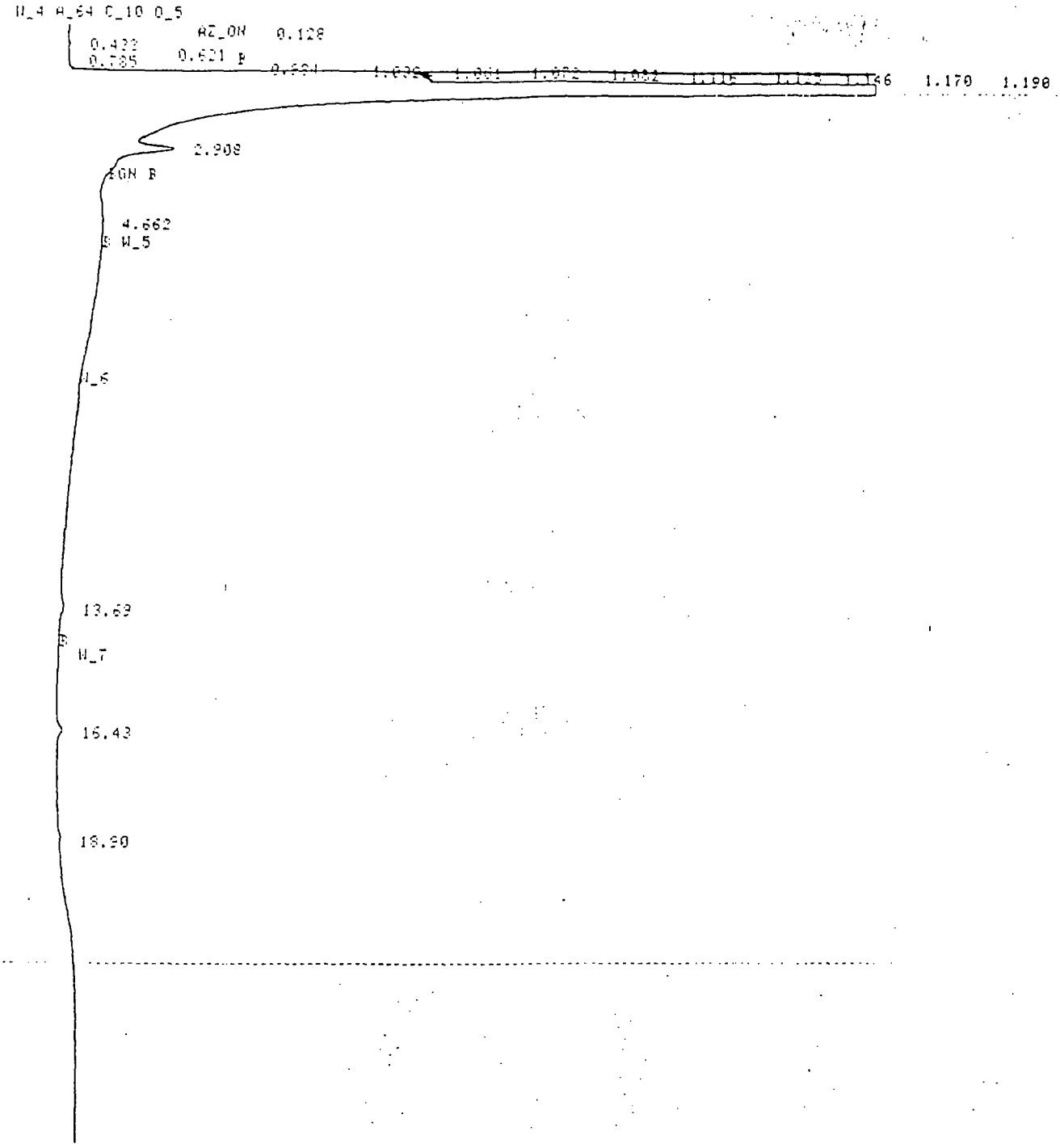
FILE 223 RUN 61 STARTED 05:18.3 80/01/15
% METHOD 1 DIESELS LAST EDITED 05:17.1 80/01/07

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
4.33	24109			29.6355	
4.74	5073			6.2432	
13.70	14181		V	17.4316	
15.72	2906		V	3.5721	
16.43	28801		V	35.4029	
18.88	6276		V	7.7146	

6 PEAKS > AREA REJECT 81352 TOTAL AREA
0 PEAKS > HEIGHT REJECT 0.0000 TOTAL HEIGHT

3d 8031747 900:2

FILE 224 RUN 62 STARTED 06:12.6 80/01/15
% METHOD 1 DIESELS LAST EDITED 05:17.1 80/01/07



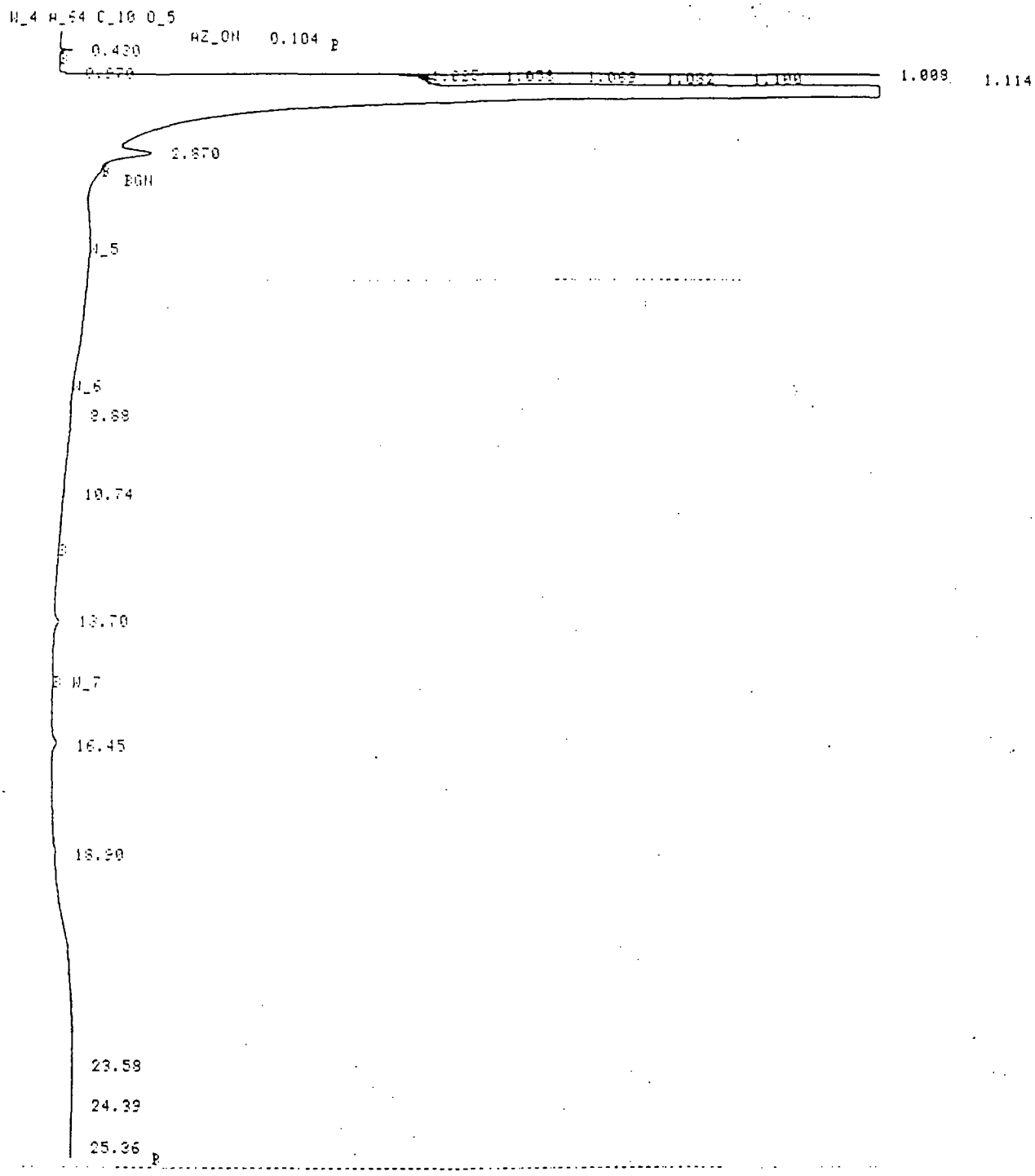
FILE 224 RUN 62 STARTED 06:12.6 80/01/15
% METHOD 1 DIESELS LAST EDITED 05:17.1 80/01/07

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
4.662	10873			8.8763	
13.69	57658			47.0698	
16.43	53964		V	44.0538	

3 PEAKS > AREA REJECT 122495 TOTAL AREA
0 PEAKS > HEIGHT REJECT 0.0000 TOTAL HEIGHT

3λ 80317 48 1020:2.2

FILE 225 RUN 63 STARTED 07:00.6 80/01/15
% METHOD 1 DIESELS LAST EDITED 05:17.1 80/01/07



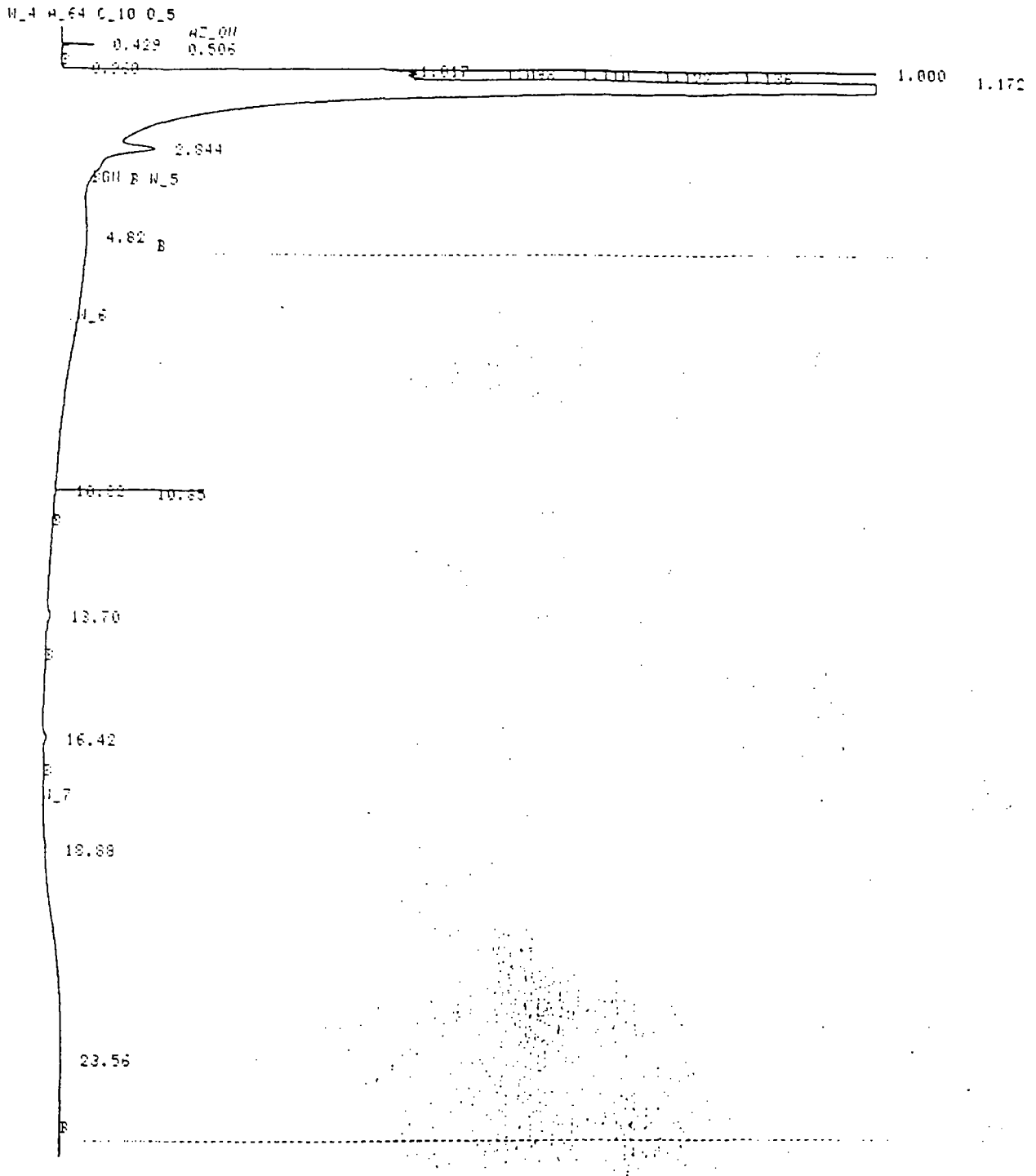
FILE 225 RUN 63 STARTED 07:00.6 80/01/15
% METHOD 1 DIESELS LAST EDITED 05:17.1 80/01/07

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
9.89	65118		V	31.1233	
10.74	1217			0.5814	
13.70	35395			16.9171	
16.45	42891		V	20.4951	
23.58	60011		V	28.6825	
24.39	3325		V	1.5892	
25.36	1279			0.6114	

7 PEAKS > AREA REJECT 209226 TOTAL AREA
0 PEAKS > HEIGHT REJECT 0.0000 TOTAL HEIGHT

FILE 229 RUN 67 STARTED 18:37.5 80/01/15
% METHOD 1 DIESELS LAST EDITED 05:17.1 80/01/07

8031749 3µl 1000:2.3



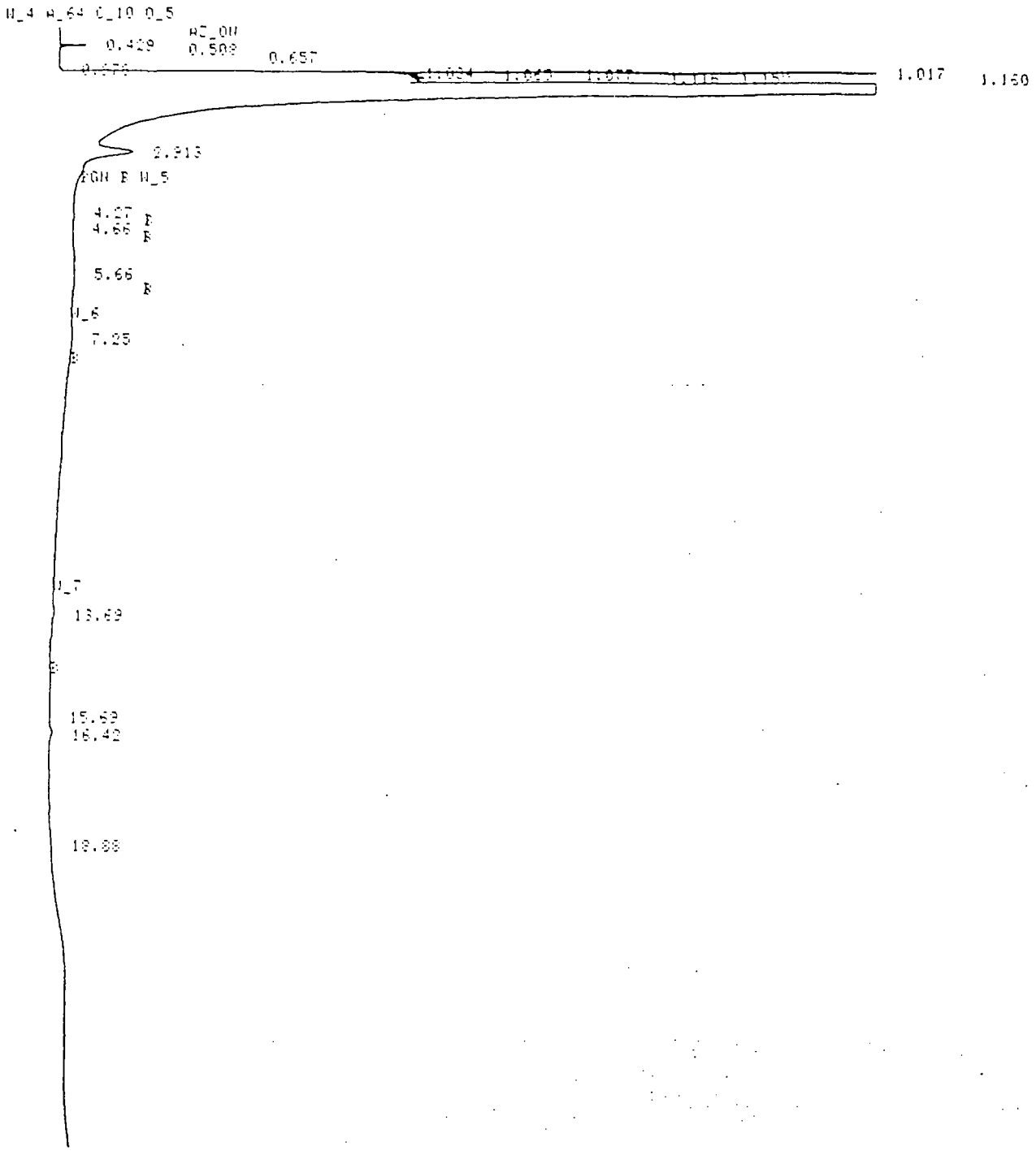
FILE 229 RUN 67 STARTED 18:37.5 80/01/15
% METHOD 1 DIESELS LAST EDITED 05:17.1 80/01/07

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
4.82	15816			6.7147	
10.82	34221		U	14.5284	
10.85	28062			11.9136	
13.70	32315			13.7192	
16.42	31284			13.2815	
23.56	93847			39.8425	

6 PEAKS > AREA REJECT 235545 TOTAL AREA
0 PEAKS > HEIGHT REJECT 0.0000 TOTAL HEIGHT

8031750 3µl 980:2.6

FILE 230 RUN 68 STARTED 19:15.0 80/01/15
% METHOD 1 DIESELS LAST EDITED 05:17.1 80/01/07

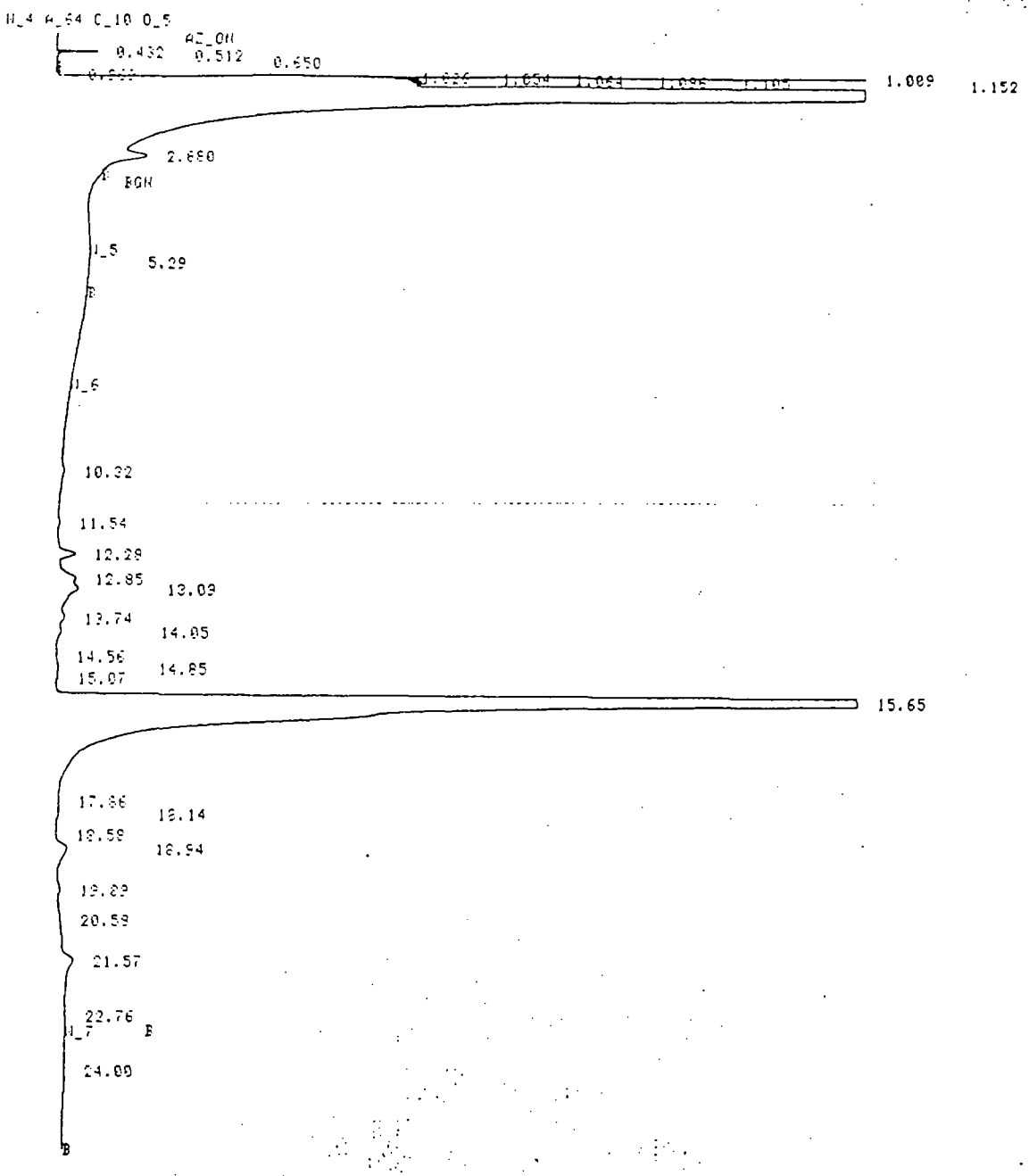


FILE 230 RUN 68 STARTED 19:15.0 80/01/15
% METHOD 1 DIESELS LAST EDITED 05:17.1 80/01/07

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
4.27	3951			5.0369	
4.66	1078			1.3745	
5.66	6862			8.7491	
7.25	10252			13.0714	
13.69	26202			33.4077	
15.69	2012		U	2.5653	
16.42	28075		U	35.7952	

7 PEAKS > AREA REJECT 78431 TOTAL AREA
0 PEAKS > HEIGHT REJECT 0.0000 TOTAL HEIGHT

FILE 231 RUN 69 STARTED 19:57.6 80/01/15
% METHOD 1 DIESELS LAST EDITED 05:17.1 80/01/07



FILE 231 RUN 69 STARTED 19:57.6 80/01/15
% METHOD 1 DIESELS LAST EDITED 05:17.1 80/01/07

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
5.29	11234			0.0564	
10.32	65014		V	0.3263	
11.54	12858		V	0.0645	
12.28	123624		V	0.6204	
12.85	20122		V	0.1010	
13.09	52024		V	0.2610	
13.74	34339		V	0.1723	
14.05	19662		V	0.0987	
14.56	3915		V	0.0196	
14.85	13561		V	0.0681	
15.07	3606		V	0.0181	
15.65	19097136	996.8946	V	95.8838	100.0000
17.86	1923		V	0.0096	
18.14	9403		V	0.0472	
18.59	1247		V	0.0063	
18.94	175770		V	0.8820	
19.89	13102		V	0.0657	
20.59	1504		V	0.0075	
21.57	195825		V	0.9827	
22.76	5271			0.0265	
24.00	56361			0.2828	

21 FEWLS : AREA REJECT 19927505 TOTAL AREA
1 FEWL : HEIGHT REJECT 996.8946 TOTAL HEIGHT

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/22/88
Date Received: 03/22/88
Date Reported: 03/25/88
Project: #JCO-104H

Q.C. DATA REPORT

Analyst: G. Brock
Date of Analysis: 3/24/88
Method of Analysis: EPA 3510/8015
Detection Limit: 50
Units: ppb

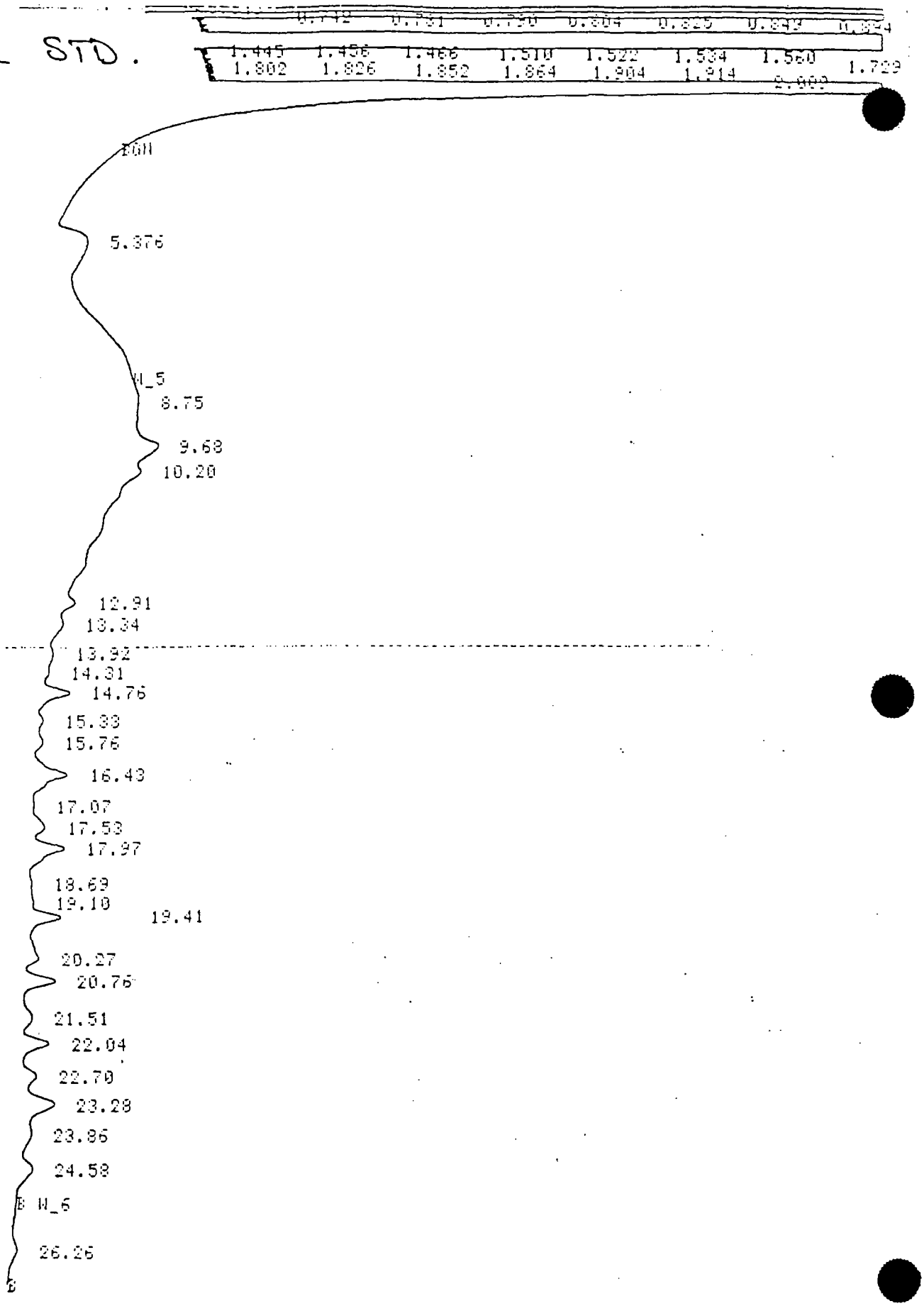
Sample Number	Analyte	Original Result	Duplicate Result	% Deviation
8031568	Diesel	< 50	< 50	0.0

Sample Number	Analyte	Sample Contribution	Spike Added	Spike Result	% Recovery
8031568	Diesel	< 50	2,000	1790	89.5

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

DIESEL STD.



FILE 192 RUN 8 STARTED 00:34.4 80/01/11 HIGH BOILERS
% METHOD 1 DIESEL3 LAST EDITED 20:06.0 80/01/10

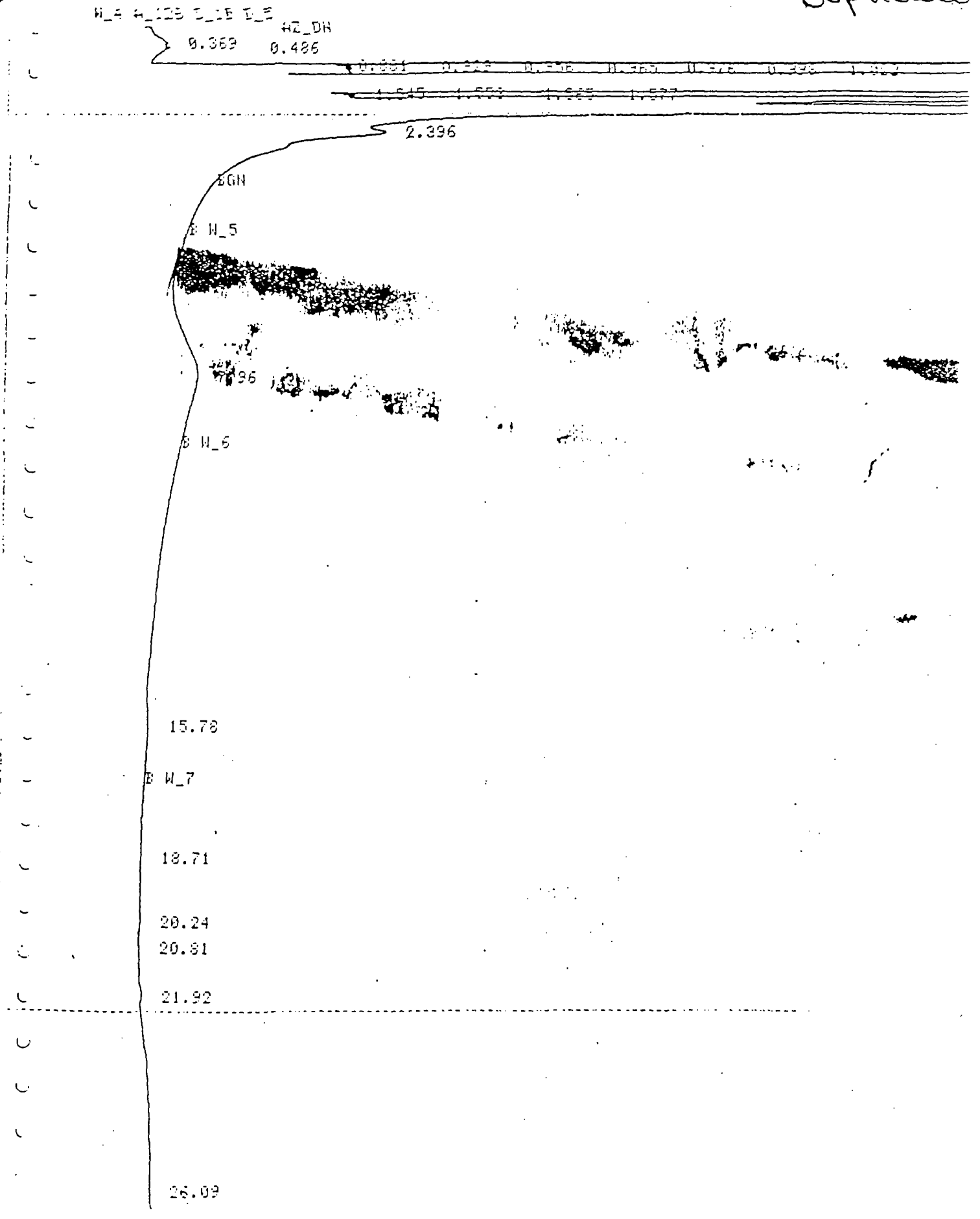
RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
5.376	1229487	34.2342	H	15.6656	7.1543

11.692 A/Z

8031568

FILE 188 RUN 4 STARTED 22:18.5 80/01/10 HIGH BOILERS
% METHOD 1 DIESELS LAST EDITED 20:06.0 80/01/10

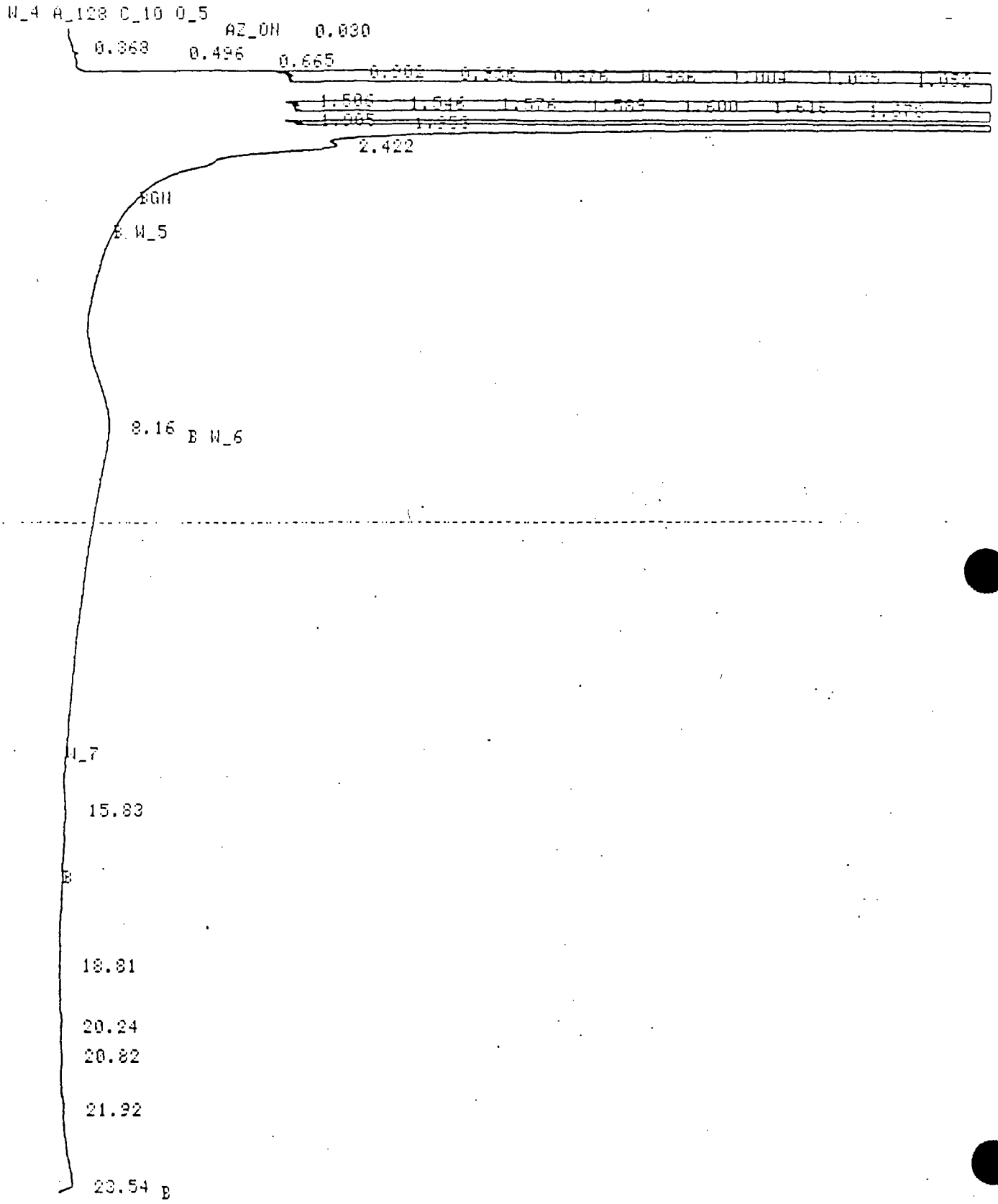
3λ # 8030
Duplicate



3) # 80315

80315

FILE 191 RUN 7 STARTED 00:08.2 80/01/11 HIGH BOILERS
% METHOD 1 DIESELS LAST EDITED 20:06.0 80/01/10



FILE 191 RUN 7 STARTED 00:08.2 80/01/11 HIGH BOILERS
% METHOD 1 DIESELS LAST EDITED 20:06.0 80/01/10

PT	AREA	HEIGHT BC	AREA PERCENT	HEIGHT PERCENT

FILE 189 RUN 5 STARTED 22:51.5 80/01/10 HIGH BOILERS 3> # 8031568 8030668 + spike

METHOD 1 DIESELS LAST EDITED 20:06.0 80/01/10

W_4 A_128 C_10 D_5

AZ_ON 0.044

0.374 0.420 0.494 0.704

0.876

1.588

1.925

2.416

2.742

BGN

3.892 AZ_ON AZ_ON AZ_OFF

B W_5

8.08 B W_6

9.88

10.82

11.56

12.29 12.59

12.96

13.40

14.11 14.38

14.78

15.37

15.78

16.45

17.12

17.56

17.99

18.71

19.14 19.42

20.29

20.78

21.54

22.05

22.72

23.30

23.95

24.61

26.30

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/22/88
Date Received: 03/22/88
Date Reported: 03/25/88
Project: #JCO-104H

Q.C. DATA REPORT

Analyst: E. Hackl
Date of Analysis: 3/24/88
Method of Analysis: #214A Standard Method
Detection Limit: 0.01
Units: NTU

Sample Number	Analyte	Original Result	Duplicate Result	% Deviation
8031544	-	0.06	0.06	0

Sample Number	Analyte	Sample Contribution	Spike Added	Spike Result	% Recovery
8031544	-	0.048	0.042	0.090	100

SEQUOIA ANALYTICAL LABORATORY

Scot Cocanour

Arthur G. Burton
Laboratory Director

SEQUOIA Analytical Laboratory
2549 Middlefield Road
Redwood City, CA 94063 • (415) 364-9222

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 03/22/88
Date Received: 03/24/88
Date Reported: 04/13/88
Project: #JCO-104H

Q.C. DATA REPORT

Analyst: E. Hackl
Date of Analysis: 4/6/88
Method of Analysis: Standard Methods - Turbidity
Detection Limit: -
Units: NTU

Sample Number	Analyte	Original Result	Duplicate Result	% Deviation
8031751	Turbidity	160	160	0

Sample Number	Analyte	Sample Contribution	Spike Added	Spike Result	% Recovery
8031751	Turbidity	0.32	0.30	0.59	90

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

CLP VOLATILE MATRIX SPIKE REPORT -- EPA METHOD 624
ANAMETRIX, INC. (408) 629-1132

Sample I.D. : JCO-104H V-8
Matrix : WATER
Date sampled : 03-22-88
Date analyzed : 03-23-88

Anametrix I.D. : 8803125-01
Analyst : TC
Supervisor : PG
Date released : 03-24-88

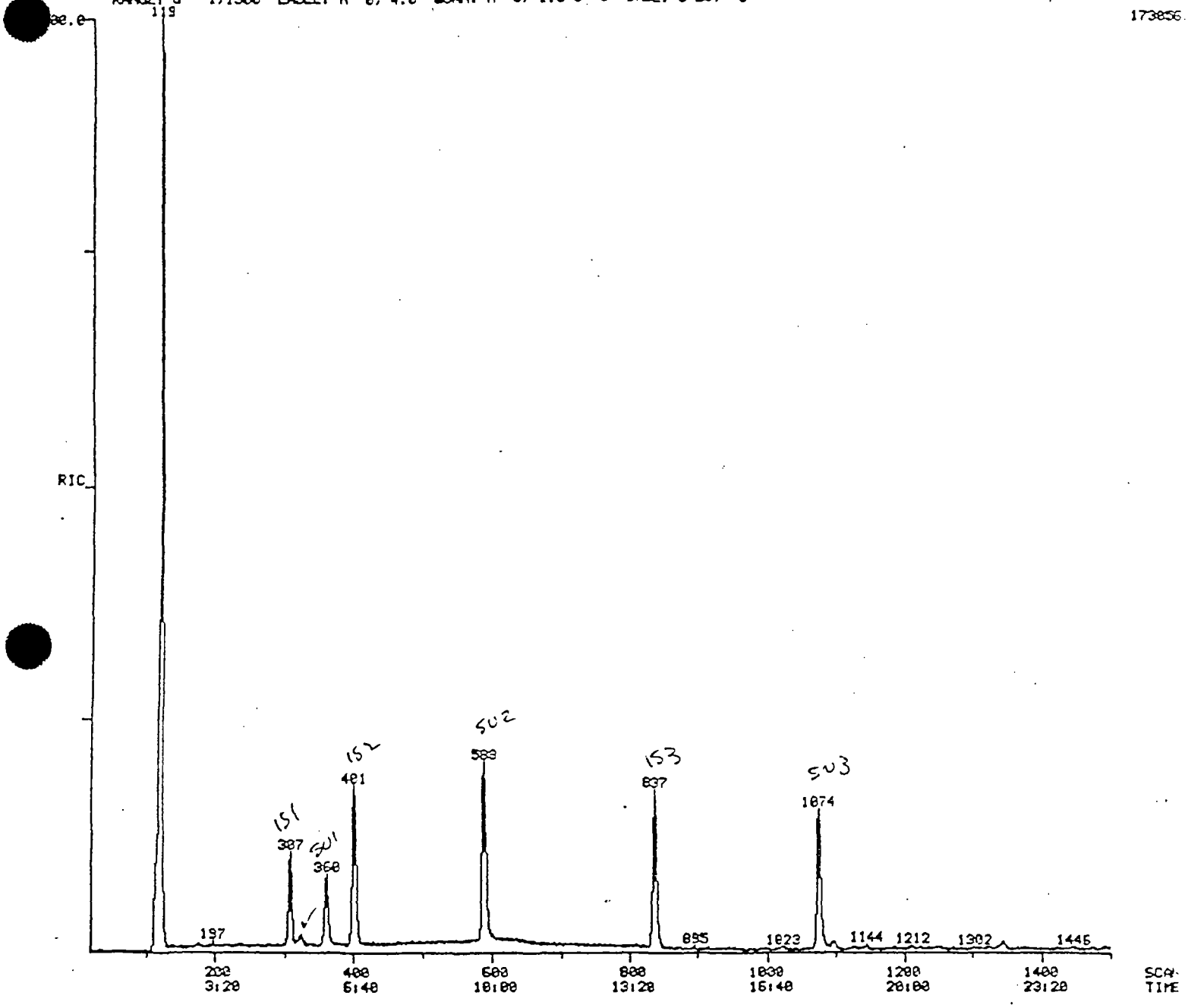
COMPOUND	SPIKE AMT. (UG/L)	8803125 MS (UG/L)	%REC MSD	8803125 MSD (UG/L)	%REC MSD	RPD	%REC LIMITS*
1,1-DICHLOROETHENE	50	39	78%	39	78%	0%	61-131%
FREON 113	50	48	96%	48	96%	0%	52-150%
METHYLENE CHLORIDE	50	45	90%	45	90%	0%	55-130%
CHLOROFORM	50	48	96%	48	96%	0%	70-124%
1,1,1-TRICHLOROETHANE	50	43	86%	43	86%	0%	69-130%
BENZENE	50	45	90%	45	90%	0%	69-124%
1,2-DICHLOROETHANE	50	45	90%	45	90%	0%	65-119%
TRICHLOROETHENE	50	39	78%	39	78%	0%	61-106%
4-METHYL-2-PENTANONE	50	42	84%	40	80%	5%	42-147%
TOLUENE	50	47	94%	47	94%	0%	70-128%
CHLOROBENZENE	50	50	100%	48	96%	4%	73-123%
1,2-DICHLOROBENZENE	50	46	92%	46	92%	0%	50-110%

* Limits established by Anametrix, Inc.

RIC
03/23/80 12:52:00
SAMPLE: JCO-184H V-8
CONDS.: M624/8240,35-120@4'/MIN.,VOCOL
RANGE: G 1,1500 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

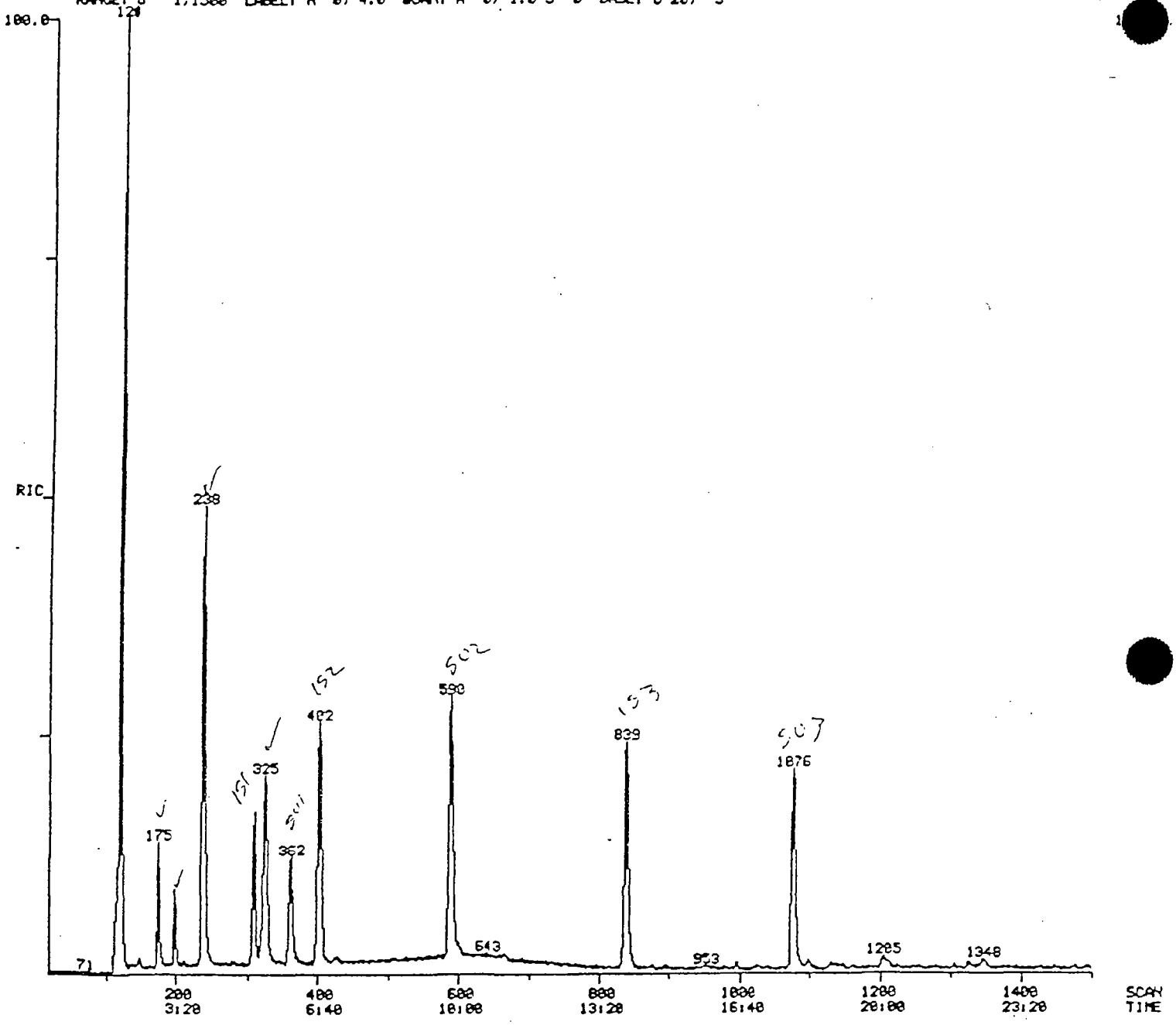
DATA: 1CU03125V01 #1 SCANS 20 TO 1500
CALI: CALTAB #2

173856



RIC
03/23/88 13:56:00
SAMPLE: JCO-104H V-4 RERUN 1:2
CONDS.: M524/8240,35-12024'/MIN.,VOCOL
RANGE: C 1,1500 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

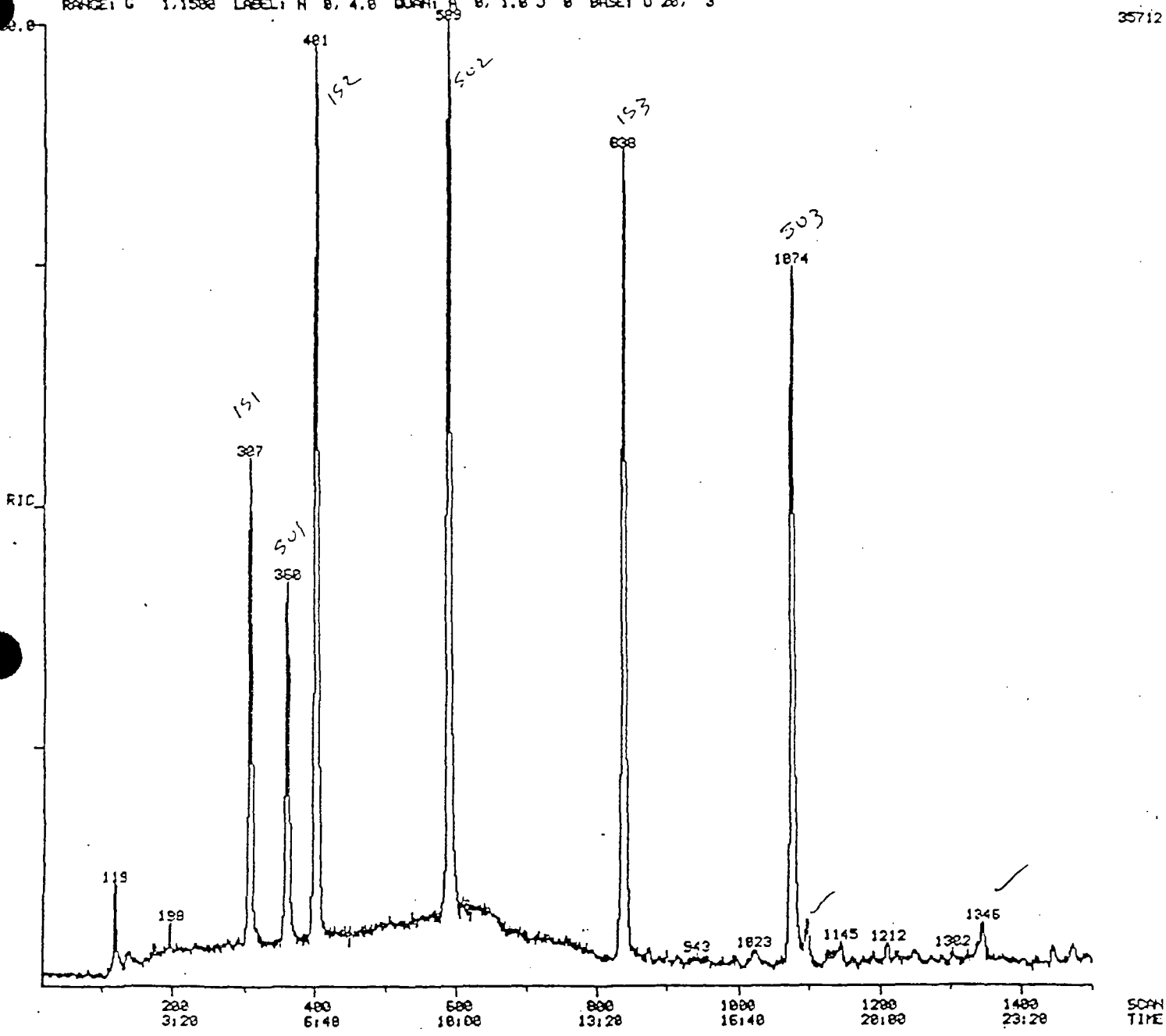
DATA: 1CR03125V02 #1 SCANS 20 TO 1500
CALI: CALTAB #2



RIC
03/23/88 11:19:00
SAMPLE: JCD-184H MB-1
CONDS.: M624/8240,35-120M4'/MIN.,UOCOL
RANGE: C 1,1500 LABEL: H 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

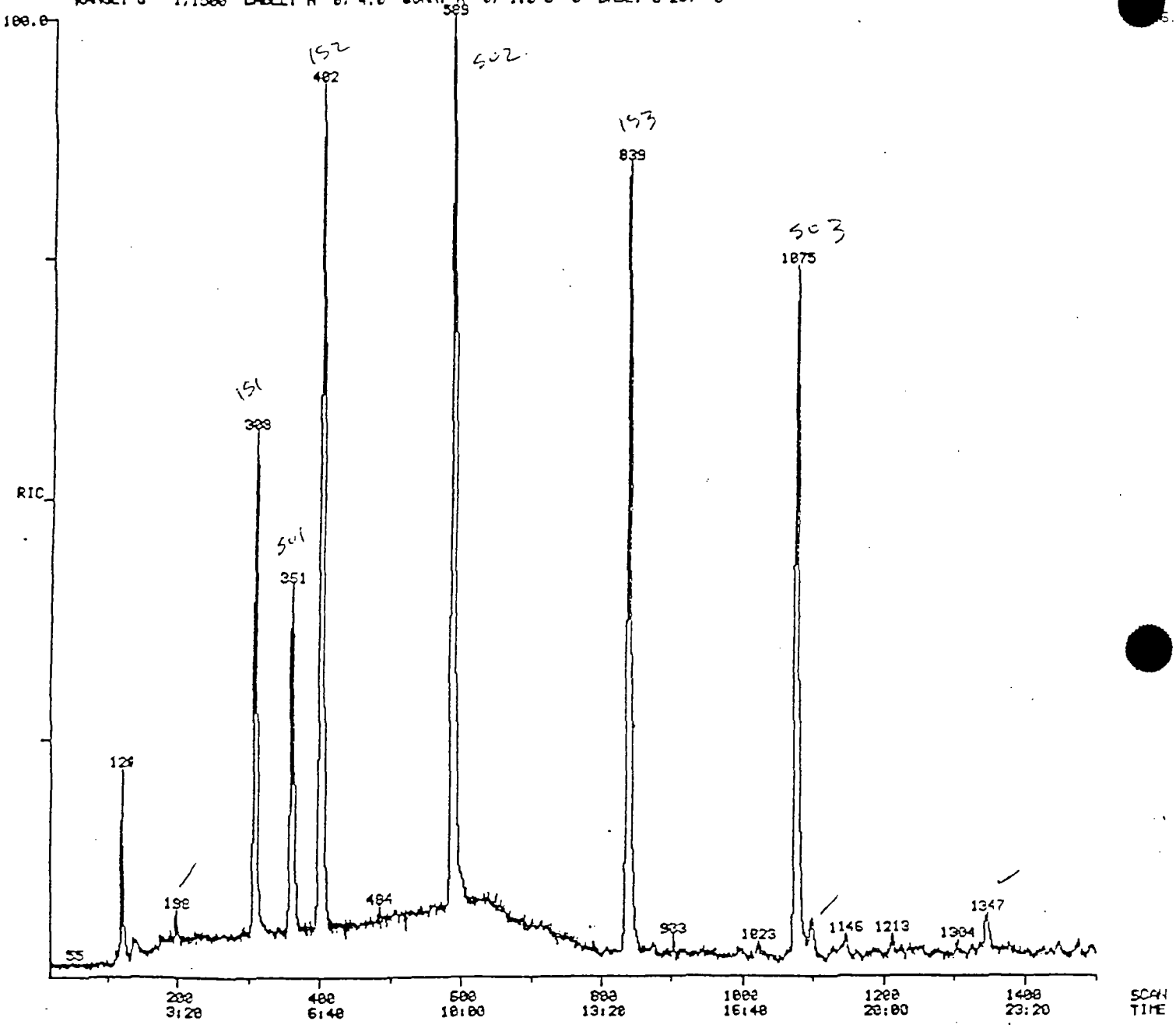
DATA: 1CU03125U03 #1 SCANS 20 TO 1500
CALI: CALTAB #2

35712



RIC
03/23/88 11:50:00
SAMPLE: JCO-104H TB-1
CONDS.: M624/8240,35-12004'/MIN.,VOCOL
RANGE: G 1,1500 LABEL: N 0, 4.0 QUANT: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 1CU03125U04 #1 SCANS 20 TO 1500
CALI: CALTAB #2



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Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 06/17/88
Date Received: 06/17/88
Date Analyzed: 06/27/88
Date Reported: 07/07/88
Project: #JCO-104H

Sample Number: 8061491

Sample Description: Water, V-1

VOLATILE ORGANICS by MASS SPECTROMETRY

Analyte	Detection Limit, µg/L	Sample Results, µg/L	Scan #
Acetone	10	N.D.	
Benzene	2.0	N.D.	
Bromodichloromethane	2.0	N.D.	
Bromoform	2.0	N.D.	
Bromomethane	2.0	N.D.	
2-Butanone	10	N.D.	
Carbon disulfide	2.0	N.D.	
Carbon tetrachloride	2.0	N.D.	
Chlorobenzene	2.0	N.D.	
Chlorodibromomethane	2.0	N.D.	
Chloroethane	2.0	N.D.	
2-Chloroethyl vinyl ether	10	N.D.	
Chloroform	10	N.D.	
Chloromethane	2.0	N.D.	
1,1-Dichloroethane	2.0	6.6	140
1,2-Dichloroethane	2.0	N.D.	
1,1-Dichloroethene	2.0	N.D.	
Total-1,2-Dichloroethene	2.0	N.D.	
1,2-Dichloropropane	2.0	N.D.	
cis-1,3-Dichloropropene	2.0	N.D.	
trans-1,3-Dichloropropene	2.0	N.D.	
Ethylbenzene	2.0	N.D.	
2-Hexanone	10	N.D.	
Methylene chloride	10	N.D.	
4-Methyl-2-pentanone	10	N.D.	
Styrene	2.0	N.D.	
1,1,2,2-Tetrachloroethane	2.0	N.D.	
Tetrachloroethene	2.0	N.D.	
Toluene	2.0	N.D.	
1,1,1-Trichloroethane	2.0	N.D.	
1,1,2-Trichloroethane	2.0	N.D.	
Trichloroethene	2.0	N.D.	
Trichlorofluoromethane	2.0	N.D.	
Vinyl acetate	2.0	N.D.	
Vinyl chloride	2.0	N.D.	
Total Xylenes	2.0	N.D.	

Method of Analysis: EPA 5030/8240
Analytes reported as N.D. were not present above the stated limit of detection.

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Attn: Bob Breynaert

Date Sampled: 06/16/88
Date Received: 06/16/88
Date Analyzed: 06/27/88
Date Reported: 07/07/88

Project: #JCO-104H

Sample Number	Sample Description
8061491	Water, V-1

VOLATILE ORGANICS by MASS SPECTROMETRY
Non-Calibrated Compounds

Analyte	Concentration µg/L

No additional peaks > 5 µg/L were identified by the Mass Spectral library.

Method of Analysis: EPA 8240 & "Open Scan"

NOTE: All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA/NIH library. Positive identification or specification between isomers cannot be made without retention time standards.

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Date Sampled: 06/17/88
Date Received: 06/17/88
Date Analyzed: 06/27/88
Date Reported: 07/07/88
Project: #JCO-104H

Sample Number: 8061501

Sample Description: Water, V-3

VOLATILE ORGANICS by MASS SPECTROMETRY

Analyte	Detection Limit, µg/L	Sample Results, µg/L	Scan #
Acetone	10	N.D.	
Benzene	2.0	N.D.	
Bromodichloromethane	2.0	N.D.	
Bromoform	2.0	N.D.	
Bromomethane	2.0	N.D.	
2-Butanone	10	N.D.	
Carbon disulfide	2.0	N.D.	
Carbon tetrachloride	2.0	N.D.	
Chlorobenzene	2.0	N.D.	
Chlorodibromomethane	2.0	N.D.	
Chloroethane	2.0	N.D.	
2-Chloroethyl vinyl ether	10	N.D.	
Chloroform	10	N.D.	
Chloromethane	2.0	N.D.	
1,1-Dichloroethane	2.0	6.4	143
1,2-Dichloroethane	2.0	N.D.	
1,1-Dichloroethene	2.0	N.D.	
Total-1,2-Dichloroethene	2.0	2.1	152
1,2-Dichloropropane	2.0	N.D.	
cis-1,3-Dichloropropene	2.0	N.D.	
trans-1,3-Dichloropropene	2.0	N.D.	
Ethylbenzene	2.0	N.D.	
2-Hexanone	10	N.D.	
Methylene chloride	10	N.D.	
4-Methyl-2-pentanone	10	N.D.	
Styrene	2.0	N.D.	
1,1,2,2-Tetrachloroethane	2.0	N.D.	
Tetrachloroethene	2.0	N.D.	
Toluene	2.0	N.D.	
1,1,1-Trichloroethane	2.0	N.D.	
1,1,2-Trichloroethane	2.0	N.D.	
Trichloroethene	2.0	N.D.	
Trichlorofluoromethane	2.0	N.D.	
Vinyl acetate	2.0	N.D.	
Vinyl chloride	2.0	N.D.	
Total Xylenes	2.0	N.D.	

Method of Analysis: EPA 5030/8240
Analytes reported as N.D. were not present above the stated limit of detection.

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Date Sampled: 06/16/88
Date Received: 06/16/88
Date Analyzed: 06/27/88
Date Reported: 07/07/88

Project: #JCO-104H

Sample Number	Sample Description
8061501	Water, V-3

VOLATILE ORGANICS by MASS SPECTROMETRY
Non-Calibrated Compounds

Analyte	Concentration µg/L

No additional peaks > 5 µg/L were identified by the Mass Spectral library.

Method of Analysis: EPA 8240 & "Open Scan"

NOTE: All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA/NIH library. Positive identification or specification between isomers cannot be made without retention time standards.

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Date Sampled: 06/17/88
Date Received: 06/17/88
Date Analyzed: 06/27/88
Date Reported: 07/07/88
Project: #JCO-104H

Sample Number: 8061500

Sample Description: Water, V-4

VOLATILE ORGANICS by MASS SPECTROMETRY

Analyte	Detection Limit, µg/L	Sample Results, µg/L	Scan #
Acetone	10	N.D.	
Benzene	2.0	N.D.	
Bromodichloromethane	2.0	N.D.	
Bromoform	2.0	N.D.	
Bromomethane	2.0	N.D.	
2-Butanone	10	N.D.	
Carbon disulfide	2.0	N.D.	
Carbon tetrachloride	2.0	N.D.	
Chlorobenzene	2.0	N.D.	
Chlorodibromomethane	2.0	N.D.	
Chloroethane	2.0	13	64
2-Chloroethyl vinyl ether	10	N.D.	
Chloroform	10	N.D.	
Chloromethane	2.0	N.D.	
1,1-Dichloroethane	2.0	250	141
1,2-Dichloroethane	2.0	N.D.	
1,1-Dichloroethene	2.0	45	123
Total-1,2-Dichloroethene	2.0	N.D.	
1,2-Dichloropropane	2.0	N.D.	
cis-1,3-Dichloropropene	2.0	N.D.	
trans-1,3-Dichloropropene	2.0	N.D.	
Ethylbenzene	2.0	N.D.	
2-Hexanone	10	N.D.	
Methylene chloride	10	N.D.	
4-Methyl-2-pentanone	10	N.D.	
Styrene	2.0	N.D.	
1,1,2,2-Tetrachloroethane	2.0	N.D.	
Tetrachloroethene	2.0	N.D.	
Toluene	2.0	N.D.	190
1,1,1-Trichloroethane	2.0	86	
1,1,2-Trichloroethane	2.0	N.D.	
Trichloroethene	2.0	N.D.	
Trichlorofluoromethane	2.0	N.D.	
Vinyl acetate	2.0	N.D.	
Vinyl chloride	2.0	N.D.	
Total Xylenes	2.0	N.D.	

Method of Analysis: EPA 5030/8240
Analytes reported as N.D. were not present above the stated limit of detection.

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Date Sampled: 06/16/88
Date Received: 06/16/88
Date Analyzed: 06/27/88
Date Reported: 07/07/88

Project: #JCO-104H

Sample Number	Sample Description
8061500	Water, V-4

VOLATILE ORGANICS by MASS SPECTROMETRY
Non-Calibrated Compounds

Analyte	Concentration µg/L

No additional peaks > 5 µg/L were identified by the Mass Spectral library.

Method of Analysis: EPA 8240 & "Open Scan"

NOTE: All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA/NIH library. Positive identification or specification between isomers cannot be made without retention time standards.

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Date Sampled: 06/17/88
Date Received: 06/17/88
Date Analyzed: 06/27/88
Date Reported: 07/07/88
Project: #JCO-104H

Sample Number: 8061578

Sample Description: Water, V-4, Duplicate

VOLATILE ORGANICS by MASS SPECTROMETRY

Analyte	Detection Limit, µg/L	Sample Results, µg/L	Scan #
Acetone	10	N.D.	
Benzene	2.0	N.D.	
Bromodichloromethane	2.0	N.D.	
Bromoform	2.0	N.D.	
Bromomethane	2.0	N.D.	
2-Butanone	10	N.D.	
Carbon disulfide	2.0	N.D.	
Carbon tetrachloride	2.0	N.D.	
Chlorobenzene	2.0	N.D.	
Chlorodibromomethane	2.0	N.D.	
Chloroethane	2.0	13	67
2-Chloroethyl vinyl ether	10	N.D.	
Chloroform	10	N.D.	
Chloromethane	2.0	N.D.	
1,1-Dichloroethane	2.0	270	144
1,2-Dichloroethane	2.0	N.D.	
1,1-Dichloroethene	2.0	45	126
Total-1,2-Dichloroethene	2.0	N.D.	
1,2-Dichloropropane	2.0	N.D.	
cis-1,3-Dichloropropene	2.0	N.D.	
trans-1,3-Dichloropropene	2.0	N.D.	
Ethylbenzene	2.0	N.D.	
2-Hexanone	10	N.D.	
Methylene chloride	10	N.D.	
4-Methyl-2-pentanone	10	N.D.	
Styrene	2.0	N.D.	
1,1,2,2-Tetrachloroethane	2.0	N.D.	
Tetrachloroethene	2.0	N.D.	
Toluene	2.0	N.D.	
1,1,1-Trichloroethane	2.0	87	192
1,1,2-Trichloroethane	2.0	N.D.	
Trichloroethene	2.0	N.D.	
Trichlorofluoromethane	2.0	N.D.	
Vinyl acetate	2.0	N.D.	
Vinyl chloride	2.0	N.D.	
Total Xylenes	2.0	N.D.	

Method of Analysis: EPA 5030/8240
Analytes reported as N.D. were not present above the stated limit of detection.

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Attn: Bob Breynaert

Date Sampled: 06/16/88
Date Received: 06/16/88
Date Analyzed: 06/27/88
Date Reported: 07/07/88

Project: #JCO-104H

Sample Number	Sample Description
8061578	Water, V-4, Duplicate

VOLATILE ORGANICS by MASS SPECTROMETRY
Non-Calibrated Compounds

Analyte	Concentration µg/L

No additional peaks > 5 µg/L were identified by the Mass Spectral library.

Method of Analysis: EPA 8240 & "Open Scan"

NOTE: All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA/NIH library. Positive identification or specification between isomers cannot be made without retention time standards.

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Date Sampled: 06/17/88
Date Received: 06/17/88
Date Analyzed: 06/27/88
Date Reported: 07/07/88
Project: #JCO-104H

Sample Number: 8061492 Sample Description: Water, V-5

VOLATILE ORGANICS by MASS SPECTROMETRY

Analyte	Detection Limit, µg/L	Sample Results, µg/L	Scan #
Acetone	10	N.D.	
Benzene	2.0	N.D.	
Bromodichloromethane	2.0	N.D.	
Bromoform	2.0	N.D.	
Bromomethane	2.0	N.D.	
2-Butanone	10	N.D.	
Carbon disulfide	2.0	N.D.	
Carbon tetrachloride	2.0	N.D.	
Chlorobenzene	2.0	N.D.	
Chlorodibromomethane	2.0	N.D.	
Chloroethane	2.0	N.D.	
2-Chloroethyl vinyl ether	10	N.D.	
Chloroform	10	N.D.	
Chloromethane	2.0	N.D.	
1,1-Dichloroethane	2.0	N.D.	
1,2-Dichloroethane	2.0	N.D.	
1,1-Dichloroethene	2.0	N.D.	
Total-1,2-Dichloroethene	2.0	N.D.	
1,2-Dichloropropane	2.0	N.D.	
cis-1,3-Dichloropropene	2.0	N.D.	
trans-1,3-Dichloropropene	2.0	N.D.	
Ethylbenzene	2.0	N.D.	
2-Hexanone	10	N.D.	
Methylene chloride	10	N.D.	
4-Methyl-2-pentanone	10	N.D.	
Styrene	2.0	N.D.	
1,1,2,2-Tetrachloroethane	2.0	N.D.	
Tetrachloroethene	2.0	N.D.	
Toluene	2.0	N.D.	
1,1,1-Trichloroethane	2.0	N.D.	
1,1,2-Trichloroethane	2.0	N.D.	
Trichloroethene	2.0	N.D.	
Trichlorofluoromethane	2.0	N.D.	
Vinyl acetate	2.0	N.D.	
Vinyl chloride	2.0	N.D.	
Total Xylenes	2.0	N.D.	

Method of Analysis: EPA 5030/8240
Analytes reported as N.D. were not present above the stated limit of detection.

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Attn: Bob Breynaert

Date Sampled: 06/16/88
Date Received: 06/16/88
Date Analyzed: 06/27/88
Date Reported: 07/07/88

Project: #JCO-104H

Sample Number	Sample Description
8061492	Water, V-5

VOLATILE ORGANICS by MASS SPECTROMETRY
Non-Calibrated Compounds

Analyte	Concentration µg/L

No additional peaks > 5 µg/L were identified by the Mass Spectral library.

Method of Analysis: EPA 8240 & "Open Scan"

NOTE: All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA/NIH library. Positive identification or specification between isomers cannot be made without retention time standards.

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Date Sampled: 06/17/88
Date Received: 06/17/88
Date Analyzed: 06/27/88
Date Reported: 07/07/88
Project: #JCO-104H

Sample Number: 8061493

Sample Description: Water, V-6

VOLATILE ORGANICS by MASS SPECTROMETRY

Analyte	Detection Limit, µg/L	Sample Results, µg/L	Scan #
Acetone	10	N.D.	
Benzene	2.0	N.D.	
Bromodichloromethane	2.0	N.D.	
Bromoform	2.0	N.D.	
Bromomethane	2.0	N.D.	
2-Butanone	10	N.D.	
Carbon disulfide	2.0	N.D.	
Carbon tetrachloride	2.0	N.D.	
Chlorobenzene	2.0	N.D.	
Chlorodibromomethane	2.0	N.D.	
Chloroethane	2.0	N.D.	
2-Chloroethyl vinyl ether	10	N.D.	
Chloroform	10	N.D.	
Chloromethane	2.0	N.D.	
1,1-Dichloroethane	2.0	N.D.	
1,2-Dichloroethane	2.0	N.D.	
1,1-Dichloroethene	2.0	N.D.	
Total-1,2-Dichloroethene	2.0	N.D.	
1,2-Dichloropropane	2.0	N.D.	
cis-1,3-Dichloropropene	2.0	N.D.	
trans-1,3-Dichloropropene	2.0	N.D.	
Ethylbenzene	2.0	N.D.	
2-Hexanone	10	N.D.	
Methylene chloride	10	N.D.	
4-Methyl-2-pentanone	10	N.D.	
Styrene	2.0	N.D.	
1,1,2,2-Tetrachloroethane	2.0	N.D.	
Tetrachloroethene	2.0	N.D.	
Toluene	2.0	N.D.	
1,1,1-Trichloroethane	2.0	N.D.	
1,1,2-Trichloroethane	2.0	N.D.	
Trichloroethene	2.0	N.D.	
Trichlorofluoromethane	2.0	N.D.	
Vinyl acetate	2.0	N.D.	
Vinyl chloride	2.0	N.D.	
Total Xylenes	2.0	N.D.	

Method of Analysis: EPA 5030/8240
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL LABORATORY

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Arthur G. Burton
Laboratory Director

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Attn: Bob Breynaert

Date Sampled: 06/16/88
Date Received: 06/16/88
Date Analyzed: 06/27/88
Date Reported: 07/07/88

Project: #JCO-104H

Sample Number	Sample Description
8061493	Water, V-6

VOLATILE ORGANICS by MASS SPECTROMETRY
Non-Calibrated Compounds

Analyte	Concentration µg/L

No additional peaks > 5 µg/L were identified by the Mass Spectral library.

Method of Analysis: EPA 8240 & "Open Scan"

NOTE: All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA/NIH library. Positive identification or specification between isomers cannot be made without retention time standards.

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Laboratory Director

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Redwood City, CA 94063 • (415) 364-9222 • FAX (415) 364-9233

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 06/17/88
Date Received: 06/17/88
Date Analyzed: 06/27/88
Date Reported: 07/07/88
Project: #JCO-104H

Sample Number: 8061622

Sample Description: Water, V-7

VOLATILE ORGANICS by MASS SPECTROMETRY

Analyte	Detection Limit, ug/L	Sample Results, ug/L	Scan
Acetone	10	N.D.	
Benzene	2.0	N.D.	
Bromodichloromethane	2.0	N.D.	
Bromoform	2.0	N.D.	
Bromomethane	2.0	N.D.	
2-Butanone	10	N.D.	
Carbon disulfide	2.0	N.D.	
Carbon tetrachloride	2.0	N.D.	
Chlorobenzene	2.0	N.D.	
Chlorodibromomethane	2.0	N.D.	
Chloroethane	2.0	N.D.	
2-Chloroethyl vinyl ether	10	N.D.	
Chloroform	10	N.D.	
Chloromethane	2.0	N.D.	
1,1-Dichloroethane	2.0	28	144
1,2-Dichloroethane	2.0	N.D.	
1,1-Dichloroethene	2.0	6.0	127
Total-1,2-Dichloroethene	2.0	N.D.	
1,2-Dichloropropane	2.0	N.D.	
cis-1,3-Dichloropropene	2.0	N.D.	
trans-1,3-Dichloropropene	2.0	N.D.	
Ethylbenzene	2.0	N.D.	
2-Hexanone	10	N.D.	
Methylene chloride	10	N.D.	
4-Methyl-2-pentanone	10	N.D.	
Styrene	2.0	N.D.	
1,1,2,2-Tetrachloroethane	2.0	N.D.	
Tetrachloroethene	2.0	N.D.	
Toluene	2.0	N.D.	193
1,1,1-Trichloroethane	2.0	13	
1,1,2-Trichloroethane	2.0	N.D.	
Trichloroethene	2.0	N.D.	
Trichlorofluoromethane	2.0	N.D.	
Vinyl acetate	2.0	N.D.	
Vinyl chloride	2.0	N.D.	
Total Xylenes	2.0	N.D.	

Method of Analysis: EPA 5030/8240
Analytes reported as N.D. were not present above the stated limit of detection.

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Date Received: 06/16/88
Date Analyzed: 06/27/88
Date Reported: 07/07/88

Project: #JCO-104H

Sample Number	Sample Description
8061622	Water, V-7

VOLATILE ORGANICS by MASS SPECTROMETRY
Non-Calibrated Compounds

Analyte	Concentration µg/L

No additional peaks > 5 µg/L were identified by the Mass Spectral library.

Method of Analysis: EPA 8240 & "Open Scan"

NOTE: All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA/NIH library. Positive identification or specification between isomers cannot be made without retention time standards.

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Date Sampled: 06/17/88
Date Received: 06/17/88
Date Analyzed: 06/27/88
Date Reported: 07/07/88
Project: #JCO-104H

Sample Number: 8061494

Sample Description: Water, V-8

VOLATILE ORGANICS by MASS SPECTROMETRY

Analyte	Detection Limit, µg/L	Sample Results, µg/L	Scan #
Acetone	10	N.D.	
Benzene	2.0	N.D.	
Bromodichloromethane	2.0	N.D.	
Bromoform	2.0	N.D.	
Bromomethane	2.0	N.D.	
2-Butanone	10	N.D.	
Carbon disulfide	2.0	N.D.	
Carbon tetrachloride	2.0	N.D.	
Chlorobenzene	2.0	N.D.	
Chlorodibromomethane	2.0	N.D.	
Chloroethane	2.0	N.D.	
2-Chloroethyl vinyl ether	10	N.D.	
Chloroform	10	N.D.	
Chloromethane	2.0	N.D.	
1,1-Dichloroethane	2.0	N.D.	
1,2-Dichloroethane	2.0	N.D.	
1,1-Dichloroethene	2.0	N.D.	
Total-1,2-Dichloroethene	2.0	N.D.	
1,2-Dichloropropane	2.0	N.D.	
cis-1,3-Dichloropropene	2.0	N.D.	
trans-1,3-Dichloropropene	2.0	N.D.	
Ethylbenzene	2.0	N.D.	
2-Hexanone	10	N.D.	
Methylene chloride	10	N.D.	
4-Methyl-2-pentanone	10	N.D.	
Styrene	2.0	N.D.	
1,1,2,2-Tetrachloroethane	2.0	N.D.	
Tetrachloroethene	2.0	N.D.	
Toluene	2.0	N.D.	
1,1,1-Trichloroethane	2.0	2.6	190
1,1,2-Trichloroethane	2.0	N.D.	
Trichloroethene	2.0	N.D.	
Trichlorofluoromethane	2.0	N.D.	
Vinyl acetate	2.0	N.D.	
Vinyl chloride	2.0	N.D.	
Total Xylenes	2.0	N.D.	

Method of Analysis: EPA 5030/8240
Analytes reported as N.D. were not present above the stated limit of detection.

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Date Sampled: 06/16/88
Date Received: 06/16/88
Date Analyzed: 06/27/88
Date Reported: 07/07/88

Project: #JCO-104H

Sample Number	Sample Description
8061494	Water, V-8

VOLATILE ORGANICS by MASS SPECTROMETRY
Non-Calibrated Compounds

Analyte	Concentration µg/L

No additional peaks > 5 µg/L were identified by the Mass Spectral library.

Method of Analysis: EPA 8240 & "Open Scan"

NOTE: All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA/NIH library. Positive identification or specification between isomers cannot be made without retention time standards.

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Date Sampled: 06/17/88
Date Received: 06/17/88
Date Analyzed: 06/27/88
Date Reported: 07/07/88
Project: #JCO-104H

Sample Number: 8061495

Sample Description: Water, V-9

VOLATILE ORGANICS by MASS SPECTROMETRY

Analyte	Detection Limit, µg/L	Sample Results, µg/L	Scan #
Acetone	10	N.D.	
Benzene	2.0	N.D.	
Bromodichloromethane	2.0	N.D.	
Bromoform	2.0	N.D.	
Bromomethane	2.0	N.D.	
2-Butanone	10	N.D.	
Carbon disulfide	2.0	N.D.	
Carbon tetrachloride	2.0	N.D.	
Chlorobenzene	2.0	N.D.	
Chlorodibromomethane	2.0	N.D.	
Chloroethane	2.0	N.D.	
2-Chloroethyl vinyl ether	10	N.D.	
Chloroform	10	N.D.	
Chloromethane	2.0	N.D.	
1,1-Dichloroethane	2.0	3.1	141
1,2-Dichloroethane	2.0	N.D.	
1,1-Dichloroethene	2.0	N.D.	
Total-1,2-Dichloroethene	2.0	N.D.	
1,2-Dichloropropane	2.0	N.D.	
cis-1,3-Dichloropropene	2.0	N.D.	
trans-1,3-Dichloropropene	2.0	N.D.	
Ethylbenzene	2.0	N.D.	
2-Hexanone	10	N.D.	
Methylene chloride	10	N.D.	
4-Methyl-2-pentanone	10	N.D.	
Styrene	2.0	N.D.	
1,1,2,2-Tetrachloroethane	2.0	N.D.	
Tetrachloroethene	2.0	N.D.	
Toluene	2.0	N.D.	
1,1,1-Trichloroethane	2.0	N.D.	
1,1,2-Trichloroethane	2.0	N.D.	
Trichloroethene	2.0	N.D.	
Trichlorofluoromethane	2.0	N.D.	
Vinyl acetate	2.0	N.D.	
Vinyl chloride	2.0	N.D.	
Total Xylenes	2.0	N.D.	

Method of Analysis: EPA 5030/8240
Analytes reported as N.D. were not present above the stated limit of detection.

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Date Sampled: 06/16/88
Date Received: 06/16/88
Date Analyzed: 06/27/88
Date Reported: 07/07/88

Project: #JCO-104H

Sample Number	Sample Description
8061495	Water, V-9

VOLATILE ORGANICS by MASS SPECTROMETRY
Non-Calibrated Compounds

Analyte	Concentration µg/L

No additional peaks > 5 µg/L were identified by the Mass Spectral library.

Method of Analysis: EPA 8240 & "Open Scan"

NOTE: All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA/NIH library. Positive identification or specification between isomers cannot be made without retention time standards.

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Date Sampled: 06/17/88
Date Received: 06/17/88
Date Analyzed: 06/27/88
Date Reported: 07/07/88
Project: #JCO-104H

Sample Number: 8061496

Sample Description: Water, V-10

VOLATILE ORGANICS by MASS SPECTROMETRY

Analyte	Detection Limit, µg/L	Sample Results, µg/L	Scan #
Acetone	10	50	95
Benzene	2.0	N.D.	
Bromodichloromethane	2.0	N.D.	
Bromoform	2.0	N.D.	
Bromomethane	2.0	N.D.	
2-Butanone	10	N.D.	
Carbon disulfide	2.0	N.D.	
Carbon tetrachloride	2.0	N.D.	
Chlorobenzene	2.0	N.D.	
Chlorodibromomethane	2.0	N.D.	
Chloroethane	2.0	N.D.	
2-Chloroethyl vinyl ether	10	N.D.	
Chloroform	10	N.D.	
Chloromethane	2.0	N.D.	
1,1-Dichloroethane	2.0	N.D.	
1,2-Dichloroethane	2.0	N.D.	
1,1-Dichloroethene	2.0	N.D.	
Total-1,2-Dichloroethene	2.0	N.D.	
1,2-Dichloropropane	2.0	N.D.	
cis-1,3-Dichloropropene	2.0	N.D.	
trans-1,3-Dichloropropene	2.0	N.D.	
Ethylbenzene	2.0	N.D.	
2-Hexanone	10	N.D.	
Methylene chloride	10	N.D.	
4-Methyl-2-pentanone	10	N.D.	
Styrene	2.0	N.D.	
1,1,2,2-Tetrachloroethane	2.0	N.D.	
Tetrachloroethene	2.0	N.D.	
Toluene	2.0	N.D.	
1,1,1-Trichloroethane	2.0	N.D.	
1,1,2-Trichloroethane	2.0	N.D.	
Trichloroethene	2.0	N.D.	
Trichlorofluoromethane	2.0	N.D.	
Vinyl acetate	2.0	N.D.	
Vinyl chloride	2.0	N.D.	
Total Xylenes	2.0	N.D.	

Method of Analysis: EPA 5030/8240
Analytes reported as N.D. were not present above the stated limit of detection.

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Date Sampled: 06/16/88
Date Received: 06/16/88
Date Analyzed: 06/27/88
Date Reported: 07/07/88

Project: #JCO-104H

Sample Number	Sample Description
8061496	Water, V-10

VOLATILE ORGANICS by MASS SPECTROMETRY
Non-Calibrated Compounds

Analyte	Concentration µg/L

No additional peaks > 5 µg/L were identified by the Mass Spectral library.

Method of Analysis: EPA 8240 & "Open Scan"

NOTE: All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA/NIH library. Positive identification or specification between isomers cannot be made without retention time standards.

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Date Sampled: 06/17/88
Date Received: 06/17/88
Date Analyzed: 06/27/88
Date Reported: 07/07/88
Project: #JCO-104H

Sample Number: 8061497

Sample Description: Water, I-1

VOLATILE ORGANICS by MASS SPECTROMETRY

Analyte	Detection Limit, µg/L	Sample Results, µg/L	Scan #
Acetone	10	33	95
Benzene	2.0	N.D.	
Bromodichloromethane	2.0	N.D.	
Bromoform	2.0	N.D.	
Bromomethane	2.0	N.D.	
2-Butanone	10	N.D.	
Carbon disulfide	2.0	N.D.	
Carbon tetrachloride	2.0	N.D.	
Chlorobenzene	2.0	N.D.	
Chlorodibromomethane	2.0	N.D.	
Chloroethane	2.0	N.D.	
2-Chloroethyl vinyl ether	10	N.D.	
Chloroform	10	N.D.	
Chloromethane	2.0	N.D.	
1,1-Dichloroethane	2.0	N.D.	
1,2-Dichloroethane	2.0	N.D.	
1,1-Dichloroethene	2.0	N.D.	
Total-1,2-Dichloroethene	2.0	N.D.	
1,2-Dichloropropane	2.0	N.D.	
cis-1,3-Dichloropropene	2.0	N.D.	
trans-1,3-Dichloropropene	2.0	N.D.	
Ethylbenzene	2.0	N.D.	
2-Hexanone	10	N.D.	
Methylene chloride	10	N.D.	
4-Methyl-2-pentanone	10	N.D.	
Styrene	2.0	N.D.	
1,1,2,2-Tetrachloroethane	2.0	N.D.	
Tetrachloroethene	2.0	N.D.	
Toluene	2.0	N.D.	
1,1,1-Trichloroethane	2.0	N.D.	
1,1,2-Trichloroethane	2.0	N.D.	
Trichloroethene	2.0	N.D.	
Trichlorofluoromethane	2.0	N.D.	
Vinyl acetate	2.0	N.D.	
Vinyl chloride	2.0	N.D.	
Total Xylenes	2.0	N.D.	

Method of Analysis: EPA 5030/8240
Analytes reported as N.D. were not present above the stated limit of detection.

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Date Sampled: 06/16/88
Date Received: 06/16/88
Date Analyzed: 06/27/88
Date Reported: 07/07/88

Project: #JCO-104H

Sample Number	Sample Description
8061497	Water, I-1

VOLATILE ORGANICS by MASS SPECTROMETRY
Non-Calibrated Compounds

Analyte	Concentration µg/L

No additional peaks > 5 µg/L were identified by the Mass Spectral library.

Method of Analysis: EPA 8240 & "Open Scan"

NOTE: All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA/NIH library. Positive identification or specification between isomers cannot be made without retention time standards.

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Date Sampled: 06/17/88
Date Received: 06/17/88
Date Analyzed: 06/27/88
Date Reported: 07/07/88
Project: #JCO-104H

Sample Number: 8061498

Sample Description: Water, I-2

VOLATILE ORGANICS by MASS SPECTROMETRY

Analyte	Detection Limit, µg/L	Sample Results, µg/L	Scan #
Acetone	10	N.D.	
Benzene	2.0	N.D.	
Bromodichloromethane	2.0	N.D.	
Bromoform	2.0	N.D.	
Bromomethane	2.0	N.D.	
2-Butanone	10	N.D.	
Carbon disulfide	2.0	N.D.	
Carbon tetrachloride	2.0	N.D.	
Chlorobenzene	2.0	N.D.	
Chlorodibromomethane	2.0	N.D.	
Chloroethane	2.0	N.D.	
2-Chloroethyl vinyl ether	10	N.D.	
Chloroform	10	N.D.	
Chloromethane	2.0	N.D.	
1,1-Dichloroethane	2.0	5.1	141
1,2-Dichloroethane	2.0	N.D.	
1,1-Dichloroethene	2.0	2.9	123
Total-1,2-Dichloroethene	2.0	N.D.	
1,2-Dichloropropane	2.0	N.D.	
cis-1,3-Dichloropropene	2.0	N.D.	
trans-1,3-Dichloropropene	2.0	N.D.	
Ethylbenzene	2.0	N.D.	
2-Hexanone	10	N.D.	
Methylene chloride	10	N.D.	
4-Methyl-2-pentanone	10	N.D.	
Styrene	2.0	N.D.	
1,1,2,2-Tetrachloroethane	2.0	N.D.	
Tetrachloroethene	2.0	N.D.	
Toluene	2.0	N.D.	
1,1,1-Trichloroethane	2.0	3.9	190
1,1,2-Trichloroethane	2.0	N.D.	
Trichloroethene	2.0	N.D.	
Trichlorofluoromethane	2.0	N.D.	
Vinyl acetate	2.0	N.D.	
Vinyl chloride	2.0	N.D.	
Total Xylenes	2.0	N.D.	

Method of Analysis: EPA 5030/8240
Analytes reported as N.D. were not present above the stated limit of detection.

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Date Sampled: 06/16/88
Date Received: 06/16/88
Date Analyzed: 06/27/88
Date Reported: 07/07/88

Project: #JCO-104H

Sample Number	Sample Description
8061498	Water, I-2

VOLATILE ORGANICS by MASS SPECTROMETRY
Non-Calibrated Compounds

Analyte	Concentration µg/L

No additional peaks > 5 µg/L were identified by the Mass Spectral library.

Method of Analysis: EPA 8240 & "Open Scan"

NOTE: All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA/NIH library. Positive identification or specification between isomers cannot be made without retention time standards.

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Date Sampled: 06/17/88
Date Received: 06/17/88
Date Analyzed: 06/27/88
Date Reported: 07/07/88
Project: #JCO-104H

Sample Number: 8061499

Sample Description: Water, I-3

VOLATILE ORGANICS by MASS SPECTROMETRY

Analyte	Detection Limit, µg/L	Sample Results, µg/L	Scan #
Acetone	10	N.D.	
Benzene	2.0	N.D.	
Bromodichloromethane	2.0	N.D.	
Bromoform	2.0	N.D.	
Bromomethane	2.0	N.D.	
2-Butanone	10	N.D.	
Carbon disulfide	2.0	N.D.	
Carbon tetrachloride	2.0	N.D.	
Chlorobenzene	2.0	N.D.	
Chlorodibromomethane	2.0	N.D.	
Chloroethane	2.0	N.D.	
2-Chloroethyl vinyl ether	10	N.D.	
Chloroform	10	N.D.	
Chloromethane	2.0	N.D.	
1,1-Dichloroethane	2.0	N.D.	
1,2-Dichloroethane	2.0	N.D.	
1,1-Dichloroethene	2.0	N.D.	
Total-1,2-Dichloroethene	2.0	N.D.	
1,2-Dichloropropane	2.0	N.D.	
cis-1,3-Dichloropropene	2.0	N.D.	
trans-1,3-Dichloropropene	2.0	N.D.	
Ethylbenzene	2.0	N.D.	
2-Hexanone	10	N.D.	
Methylene chloride	10	N.D.	
4-Methyl-2-pentanone	10	N.D.	
Styrene	2.0	N.D.	
1,1,2,2-Tetrachloroethane	2.0	N.D.	
Tetrachloroethene	2.0	N.D.	
Toluene	2.0	N.D.	
1,1,1-Trichloroethane	2.0	N.D.	
1,1,2-Trichloroethane	2.0	N.D.	
Trichloroethene	2.0	N.D.	
Trichlorofluoromethane	2.0	N.D.	
Vinyl acetate	2.0	N.D.	
Vinyl chloride	2.0	N.D.	
Total Xylenes	2.0	N.D.	

Method of Analysis: EPA 5030/8240
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL LABORATORY

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Date Sampled: 06/16/88
Date Received: 06/16/88
Date Analyzed: 06/27/88
Date Reported: 07/07/88

Project: #JCO-104H

Sample Number	Sample Description
8061499	Water, I-3

VOLATILE ORGANICS by MASS SPECTROMETRY
Non-Calibrated Compounds

Analyte	Concentration µg/L

No additional peaks > 5 µg/L were identified by the Mass Spectral library.

Method of Analysis: EPA 8240 & "Open Scan"

NOTE: All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA/NIH library. Positive identification or specification between isomers cannot be made without retention time standards.

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Date Sampled: 06/16/88
Date Received: 06/17/88
Date Extracted: 06/24/88
Date Analyzed: 07/01/88
Date Reported: 07/07/88

Project: #JCO-104H

PHENOLS

Sample Number	Sample Description
8061491	Water, V-1

Analyte	Detection Limit µg/L	Sample Results µg/L
4-Chloro-3-methylphenol	5.0	N.D.
2-Chlorophenol	5.0	N.D.
2,4-Dichlorophenol	5.0	N.D.
2,4-Dimethylphenol	5.0	N.D.
2,4-Dinitrophenol	150	N.D.
2-Methyl-4,6-dinitrophenol	150	N.D.
2-Nitrophenol	5.0	N.D.
4-Nitrophenol	50	N.D.
Pentachlorophenol	50	N.D.
Phenol	2.0	N.D.
2,4,6-Trichlorophenol	5.0	N.D.

Method of Analysis: EPA 8040

Analytes reported as N.D. were not present above the stated limit of detection.

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Date Sampled: 06/16/88
Date Received: 06/17/88
Date Extracted: 06/24/88
Date Analyzed: 07/01/88
Date Reported: 07/07/88

Project: #JCO-104H

PHENOLS

Sample Number	Sample Description
8061500	Water, V-4

Analyte	Detection Limit µg/L	Sample Results µg/L
4-Chloro-3-methylphenol	5.0	N.D.
2-Chlorophenol	5.0	N.D.
2,4-Dichlorophenol	5.0	N.D.
2,4-Dimethylphenol	5.0	N.D.
2,4-Dinitrophenol	150	N.D.
2-Methyl-4,6-dinitrophenol	150	N.D.
2-Nitrophenol	5.0	N.D.
4-Nitrophenol	50	N.D.
Pentachlorophenol	50	N.D.
Phenol	2.0	N.D.
2,4,6-Trichlorophenol	5.0	N.D.

Method of Analysis: EPA 8040

Analytes reported as N.D. were not present above the stated limit of detection.

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Date Sampled: 06/16/88
Date Received: 06/17/88
Date Extracted: 06/24/88
Date Analyzed: 07/01/88
Date Reported: 07/07/88

Project: #JCO-104H

PHENOLS

Sample Number	Sample Description
8061492	Water, V-5

Analyte	Detection Limit µg/L	Sample Results µg/L
4-Chloro-3-methylphenol	5.0	N.D.
2-Chlorophenol	5.0	N.D.
2,4-Dichlorophenol	5.0	N.D.
2,4-Dimethylphenol	5.0	N.D.
2,4-Dinitrophenol	150	N.D.
2-Methyl-4,6-dinitrophenol	150	N.D.
2-Nitrophenol	5.0	N.D.
4-Nitrophenol	50	N.D.
Pentachlorophenol	50	N.D.
Phenol	2.0	N.D.
2,4,6-Trichlorophenol	5.0	N.D.

Method of Analysis: EPA 8040

Analytes reported as N.D. were not present above the stated limit of detection.

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Date Extracted: 06/24/88
Date Analyzed: 07/01/88
Date Reported: 07/07/88

Project: #JCO-104H

PHENOLS

Sample Number	Sample Description
8061493	Water, V-6

Analyte	Detection Limit µg/L	Sample Results µg/L
4-Chloro-3-methylphenol	5.0	N.D.
2-Chlorophenol	5.0	N.D.
2,4-Dichlorophenol	5.0	N.D.
2,4-Dimethylphenol	5.0	N.D.
2,4-Dinitrophenol	150	N.D.
2-Methyl-4,6-dinitrophenol	150	N.D.
2-Nitrophenol	5.0	N.D.
4-Nitrophenol	50	N.D.
Pentachlorophenol	50	N.D.
Phenol	2.0	N.D.
2,4,6-Trichlorophenol	5.0	N.D.

Method of Analysis: EPA 8040

Analytes reported as N.D. were not present above the stated limit of detection.

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Date Extracted: 06/24/88
Date Analyzed: 07/01/88
Date Reported: 07/07/88

Project: #JCO-104H

PHENOLS

Sample Number	Sample Description
8061622	Water, V-7

Analyte	Detection Limit µg/L	Sample Results µg/L
4-Chloro-3-methylphenol	5.0	N.D.
2-Chlorophenol	5.0	N.D.
2,4-Dichlorophenol	5.0	N.D.
2,4-Dimethylphenol	5.0	N.D.
2,4-Dinitrophenol	150	N.D.
2-Methyl-4,6-dinitrophenol	150	N.D.
2-Nitrophenol	5.0	N.D.
4-Nitrophenol	50	N.D.
Pentachlorophenol	50	N.D.
Phenol	2.0	N.D.
2,4,6-Trichlorophenol	5.0	N.D.

Method of Analysis: EPA 8040

Analytes reported as N.D. were not present above the stated limit of detection.

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Date Extracted: 06/24/88
Date Analyzed: 07/01/88
Date Reported: 07/07/88

Project: #JCO-104H

PHENOLS

Sample Number	Sample Description
8061494	Water, V-8

Analyte	Detection Limit µg/L	Sample Results µg/L
4-Chloro-3-methylphenol	5.0	N.D.
2-Chlorophenol	5.0	N.D.
2,4-Dichlorophenol	5.0	N.D.
2,4-Dimethylphenol	5.0	N.D.
2,4-Dinitrophenol	150	N.D.
2-Methyl-4,6-dinitrophenol	150	N.D.
2-Nitrophenol	5.0	N.D.
4-Nitrophenol	50	N.D.
Pentachlorophenol	50	N.D.
Phenol	2.0	N.D.
2,4,6-Trichlorophenol	5.0	N.D.

Method of Analysis: EPA 8040

Analytes reported as N.D. were not present above the stated limit of detection.

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Date Extracted: 06/24/88
Date Analyzed: 07/01/88
Date Reported: 07/07/88

Project: #JCO-104H

PHENOLS

Sample Number	Sample Description
8061495	Water, V-9

Analyte	Detection Limit µg/L	Sample Results µg/L
4-Chloro-3-methylphenol	5.0	N.D.
2-Chlorophenol	5.0	N.D.
2,4-Dichlorophenol	5.0	N.D.
2,4-Dimethylphenol	5.0	N.D.
2,4-Dinitrophenol	150	N.D.
2-Methyl-4,6-dinitrophenol	150	N.D.
2-Nitrophenol	5.0	N.D.
4-Nitrophenol	50	N.D.
Pentachlorophenol	50	N.D.
Phenol	2.0	N.D.
2,4,6-Trichlorophenol	5.0	N.D.

Method of Analysis: EPA 8040

Analytes reported as N.D. were not present above the stated limit of detection.

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Date Analyzed: 07/01/88
Date Reported: 07/07/88

Project: #JCO-104H

PHENOLS

Sample Number	Sample Description
8061496	Water, V-10

Analyte	Detection Limit µg/L	Sample Results µg/L
4-Chloro-3-methylphenol	5.0	N.D.
2-Chlorophenol	5.0	N.D.
2,4-Dichlorophenol	5.0	N.D.
2,4-Dimethylphenol	5.0	N.D.
2,4-Dinitrophenol	150	N.D.
2-Methyl-4,6-dinitrophenol	150	N.D.
2-Nitrophenol	5.0	N.D.
4-Nitrophenol	50	N.D.
Pentachlorophenol	50	N.D.
Phenol	2.0	N.D.
2,4,6-Trichlorophenol	5.0	N.D.

Method of Analysis: EPA 8040

Analytes reported as N.D. were not present above the stated limit of detection.

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Date Received: 06/17/88
Date Extracted: 06/24/88
Date Analyzed: 07/01/88
Date Reported: 07/07/88

Project: #JCO-104H

PHENOLS

Sample Number	Sample Description
8061497	Water, I-1

Analyte	Detection Limit µg/L	Sample Results µg/L
4-Chloro-3-methylphenol	5.0	N.D.
2-Chlorophenol	5.0	N.D.
2,4-Dichlorophenol	5.0	N.D.
2,4-Dimethylphenol	5.0	N.D.
2,4-Dinitrophenol	150	N.D.
2-Methyl-4,6-dinitrophenol	150	N.D.
2-Nitrophenol	5.0	N.D.
4-Nitrophenol	50	N.D.
Pentachlorophenol	50	N.D.
Phenol	2.0	N.D.
2,4,6-Trichlorophenol	5.0	N.D.

Method of Analysis: EPA 8040

Analytes reported as N.D. were not present above the stated limit of detection.

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Date Sampled: 06/16/88
Date Received: 06/17/88
Date Extracted: 06/24/88
Date Analyzed: 07/01/88
Date Reported: 07/07/88

Project: #JCO-104H

PHENOLS

Sample Number	Sample Description
8061498	Water, I-2

Analyte	Detection Limit µg/L	Sample Results µg/L
4-Chloro-3-methylphenol	5.0	N.D.
2-Chlorophenol	5.0	N.D.
2,4-Dichlorophenol	5.0	N.D.
2,4-Dimethylphenol	5.0	N.D.
2,4-Dinitrophenol	150	N.D.
2-Methyl-4,6-dinitrophenol	150	N.D.
2-Nitrophenol	5.0	N.D.
4-Nitrophenol	50	N.D.
Pentachlorophenol	50	N.D.
Phenol	2.0	N.D.
2,4,6-Trichlorophenol	5.0	N.D.

Method of Analysis: EPA 8040

Analytes reported as N.D. were not present above the stated limit of detection.

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Date Sampled: 06/16/88
Date Received: 06/17/88
Date Extracted: 06/24/88
Date Analyzed: 07/01/88
Date Reported: 07/07/88

Project: #JCO-104H

PHENOLS

Sample Number	Sample Description
8061499	Water, I-3

Analyte	Detection Limit µg/L	Sample Results µg/L
4-Chloro-3-methylphenol	5.0	N.D.
2-Chlorophenol	5.0	N.D.
2,4-Dichlorophenol	5.0	N.D.
2,4-Dimethylphenol	5.0	N.D.
2,4-Dinitrophenol	150	N.D.
2-Methyl-4,6-dinitrophenol	150	N.D.
2-Nitrophenol	5.0	N.D.
4-Nitrophenol	50	N.D.
Pentachlorophenol	50	N.D.
Phenol	2.0	N.D.
2,4,6-Trichlorophenol	5.0	N.D.

Method of Analysis: EPA 8040

Analytes reported as N.D. were not present above the stated limit of detection.

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Date Sampled: 06/16/88
Date Received: 06/17/88
Date Extracted: 06/29/88
Date Analyzed: 06/30/88
Date Reported: 07/07/88
Project: #JCO-104H

Sample Number	Sample Description
8061501	Water, V-3

SEMI-VOLATILE ORGANICS by MASS SPECTROMETRY

Analyte	Detection Limit µg/L	Sample Results µg/L
Acenaphthene	2.0	N.D.
Acenaphthylene	2.0	N.D.
Anthracene	2.0	N.D.
Benzidine	50	N.D.
Benzoic acid	2.0	N.D.
Benzo(a)anthracene	2.0	N.D.
Benzo(b)fluoranthene	2.0	N.D.
Benzo(k)fluoranthene	2.0	N.D.
Benzo(g,h,i)perylene	2.0	N.D.
Benzo(a)pyrene	2.0	N.D.
Benzyl alcohol	2.0	N.D.
Bis(2-chloroethoxy)methane	2.0	N.D.
Bis(2-chloroethyl)ether	2.0	N.D.
Bis(2-chloroisopropyl)ether	2.0	N.D.
Bis(2-ethylhexyl)phthalate	10	N.D.
4-Bromophenyl phenyl ether	2.0	N.D.
Butyl benzyl phthalate	2.0	N.D.
4-Chloroaniline	2.0	N.D.
2-Chloronaphthalene	2.0	N.D.
4-Chloro-3-methylphenol	2.0	N.D.
2-Chlorophenol	2.0	N.D.
4-Chlorophenyl phenyl ether	2.0	N.D.
Chrysene	2.0	N.D.
Dibenz(a,h)anthracene	2.0	N.D.
Dibenzofuran	2.0	N.D.
Di-N-butyl phthalate	10	N.D.
1,3-Dichlorobenzene	2.0	N.D.
1,4-Dichlorobenzene	2.0	N.D.
1,2-Dichlorobenzene	2.0	N.D.
3,3-Dichlorobenzidine	10	N.D.
2,4-Dichlorophenol	2.0	N.D.
Diethyl phthalate	2.0	N.D.
2,4-Dimethylphenol	2.0	N.D.
Dimethyl phthalate	2.0	N.D.
4,6-Dinitro-2-methylphenol	10	N.D.
2,4-Dinitrophenol	10	N.D.
2,4-Dinitrotoluene	2.0	N.D.
2,6-Dinitrotoluene	2.0	N.D.

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Wahler Associates
Sample Number
8061501

Sample Description
Water, V-3

SEMI-VOLATILE ORGANICS by MASS SPECTROMETRY

Analyte	Detection Limit µg/L	Sample Results µg/L
Di-N-octyl phthalate	2.0	N.D.
Fluoranthene	2.0	N.D.
Fluorene	2.0	N.D.
Hexachlorobenzene	2.0	N.D.
Hexachlorobutadiene	2.0	N.D.
Hexachlorocyclopentadiene	2.0	N.D.
Hexachloroethane	2.0	N.D.
Indeno(1,2,3-cd)pyrene	2.0	N.D.
Isophorone	2.0	N.D.
2-Methylnaphthalene	2.0	N.D.
2-Methylphenol	2.0	N.D.
4-Methylphenol	2.0	N.D.
Naphthalene	2.0	N.D.
2-Nitroaniline	2.0	N.D.
3-Nitroaniline	2.0	N.D.
4-Nitroaniline	2.0	N.D.
Nitrobenzene	2.0	N.D.
2-Nitrophenol	2.0	N.D.
4-Nitrophenol	10	N.D.
N-Nitrosodiphenylamine	2.0	N.D.
N-Nitroso-di-N-propylamine	2.0	N.D.
Pentachlorophenol	10	N.D.
Phenanthrene	2.0	N.D.
Phenol	2.0	N.D.
Pyrene	2.0	N.D.
1,2,4-Trichlorobenzene	2.0	N.D.
2,4,5-Trichlorophenol	2.0	N.D.
2,4,6-Trichlorophenol	2.0	N.D.

Method of Extraction: EPA 3510 Method of Analysis: EPA 8270
Analytes reported as N.D. were not present above the stated limit of detection.

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Date Sampled: 06/16/88
Date Received: 06/17/88
Date Extracted: 06/29/88
Date Analyzed: 06/30/88
Date Reported: 07/08/88

Project: #JCO-104H

Sample Number	Sample Description
8061501	Water, V-3

SEMI-VOLATILE ORGANICS by MASS SPECTROMETRY
Non-Calibrated Compounds

Analyte	Scan #	Concentration µg/L
Unknown	491	12
Unknown	609	43
Unknown	794	23
Unknown	805	280
Unknown	808	260
Unknown	821	53

Note: The above peaks did not generate acceptable sprectral EPA/NIH library comparisons for identification. Quantitation was based on a response factor of 1.0.

Method of Analysis: EPA 8270 & "Open Scan"

NOTE: All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA/NIH library. Positive identification or specification between isomers cannot be made without retention time standards.

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Date Sampled: 06/15-16/88
Date Received: 06/17/88
Date Analyzed: 06/28/88
Date Reported: 07/07/88
Project: #JCO-104H

High Boiling Point Hydrocarbons

Sample Number	Sample Description Water	Lacquer Thinner mg/L	Paint Thinner mg/L	Kerosene mg/L	Diesel mg/L
8061491	V-1	N.D.	N.D.	N.D.	N.D.
8061492	V-5	N.D.	N.D.	N.D.	N.D.
8061493	V-6	N.D.	N.D.	N.D.	N.D.
8061494	V-8	N.D.	N.D.	N.D.	N.D.
8061495	V-9	N.D.	N.D.	N.D.	N.D.
8061496	V-10	N.D.	N.D.	N.D.	N.D.
8061497	I-1	N.D.	N.D.	N.D.	N.D.
8061498	I-2	N.D.	N.D.	N.D.	N.D.
8061499	I-3	N.D.	N.D.	N.D.	N.D.
8061500	V-4	N.D.	N.D.	N.D.	N.D.
8061501	V-3	N.D.	N.D.	N.D.	3.9
8061622	V-7	N.D.	N.D.	N.D.	N.D.
Detection Limits: ,mg/L		1.0	1.0	1.0	1.0

Method of Analysis: EPA 3510/8015 Modified

Analytes reported as N.D. Were not present above the stated limit of detection.

Note: Sample 8061501 contained a single peak in the diesel range. The contamination does not appear to be diesel.

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Date Sampled: 06/15-16/88
Date Received: 06/17/88
Date Analyzed: 06/23/88
Date Reported: 07/07/88
Project: #JCO-104H

Sample Number	Sample Description	Methanol	Ethanol	Acetone	Isopropanol
	Water	mg/L	mg/L	mg/L	mg/L
8061491	V-1	1.4	0.55	0.98	0.44
8061492	V-5	N.D.	N.D.	0.12	N.D.
8061493	V-6	N.D.	N.D.	N.D.	N.D.
8061494	V-8	N.D.	N.D.	N.D.	N.D.
8061495	V-9	0.54	N.D.	N.D.	N.D.
8061496	V-10	N.D.	0.17	1.3	0.33
8061497	I-1	N.D.	N.D.	0.13	N.D.
8061498	I-2	N.D.	N.D.	N.D.	N.D.
8061499	I-3	N.D.	N.D.	N.D.	N.D.
8061500	V-4	N.D.	N.D.	N.D.	N.D.
8061501	V-3	N.D.	N.D.	N.D.	N.D.
8061622	V-7	N.D.	N.D.	N.D.	N.D.
Detection Limits: ,mg/L		0.01	0.01	0.01	0.01

Method of Analysis: EPA 3810/8015 Modified

Analytes reported as N.D. were not present above the stated limit of detection.

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Date Sampled: 06/15-16/88
Date Received: 06/17/88
Date Reported: 07/07/88

Project: #JCO-104H

Sample Number	Sample Description Water	Turbidity NTU
8061491	V-1	150
8061492	V-5	50
8061493	V-6	45
8061494	V-8	32
8061495	V-9	23
8061496	V-10	180
8061497	I-1	1.1
8061498	I-2	0.50
8061499	I-3	1.1
8061500	V-4	0.22
8061501	V-3	3.3
8061622	V-7	8.3

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Attn: Bob Breynaert

Date Sampled: 06/15-16/88
Date Received: 06/17/88
Date Reported: 07/08/88

Project: #JCO-104H

Q.C. DATA REPORT

Analyst: S. Fong
Date of Analysis: 06/27/88
Method of Analysis: EPA 8240
Detection Limit: 2.0 - 10
Units: µg/l

Sample Number	Analyte	Original Result	Duplicate Result	% Deviation
8061500	Chloroethane	13	13	0
	1,1-Dichloroethene	45	45	0
	1,1-Dichloroethane	250	270	4
	1,1-Trichloroethane	86	87	0

Sample Number	Analyte	Sample Contribution	Spike Added	Spike Result	% Recovery
8060952	1,1-Dichloroethene	< 2.0	50	50	100
	Trichloroethene	< 2.0	50	50	100
	Chlorobenzene	< 2.0	50	56	112
	Toluene	< 2.0	50	50	100
	Benzene	< 2.0	50	47	94

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

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Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 06/15-16/88
Date Received: 06/17/88
Date Reported: 07/08/88

Project: #JCO-1041

Q.C. DATA REPORT

Analyst: L. Saunders
Date of Analysis: 06/24/88
Method of Analysis: EPA 8040
Detection Limit: 2.0 - 150
Units: µg/L

Sample Number	Analyte	Original Result	Duplicate Result	% Deviation
Spike duplication	2,4 Dinitrophenol	112	104	3.7

Sample Number	Analyte	Sample Contribution	Spike Added	Spike Result	% Recovery
Spike	2,4 Dinitrophenol	< 150	180	112	62

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Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 06/15-16/88
Date Received: 06/17/88
Date Reported: 07/08/88

Project: #JCO-104H

Q.C. DATA REPORT

Analyst: B. Bjorkman
Date of Analysis: 06/23/88
Method of Analysis: Alcohols by GC/MS
Detection Limit: 0.01
Units: mg/L

Sample Number	Analyte	Result	Result	% Deviation
8061495 (Spike & Spike duplication)	Ethanol	10.06	10.01	0.6
	Acetone	9.90	9.79	0.7

Sample Number	Analyte	Sample Contribution	Spike Added	Spike Result	% Recovery
8061495	Ethanol	0.06	10	10.06	100
	Acetone	< 0.01	10	9.9	99

SEQUOIA ANALYTICAL LABORATORY

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Arthur G. Burton
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Attn: Bob Breynaert

Date Sampled: 06/15-16/88
Date Received: 06/17/88
Date Reported: 07/08/88

Project: #JCO-104H

Q.C. DATA REPORT

Analyst: J. Schwarz
Date of Analysis: 06/29/88
Method of Analysis: EPA 8270
Detection Limit: 2.0 - 50
Units: µg/L

Sample Number	Analyte	Original Result	Duplicate Result	% Deviation
6/30/88 Calibration Sample	1,2,4-Trichlorobenzene	27	21	13
	Acenaphthene	41	33	11

Sample Number	Analyte	Sample Contribution	Spike Added	Spike Result	% Recovery
6/30/88 Calibration Sample	Acenaphthene	N.D.	50	41	82
	2-Chlorophenol	N.D.	100	102	102

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1023 Corporation Way
Palo Alto, CA 94303
Attn: Bob Breynaert

Date Sampled: 06/15-16/88
Date Received: 06/17/88
Date Reported: 07/08/88

Project: #JCO-104H

Q.C. DATA REPORT

Analyst: G. Emory
Date of Analysis: 6/28/88
Method of Analysis: EPA 8015
Detection Limit: 1.0
Units: mg/L

Sample Number	Analyte	Original Result	Duplicate Result	% Deviation
8062660	TPH-Diesel	3.1	2.3	15

Sample Number	Analyte	Sample Contribution	Spike Added	Spike Result	% Recovery
8062669	TPH-Diesel	6.2	12	17	93

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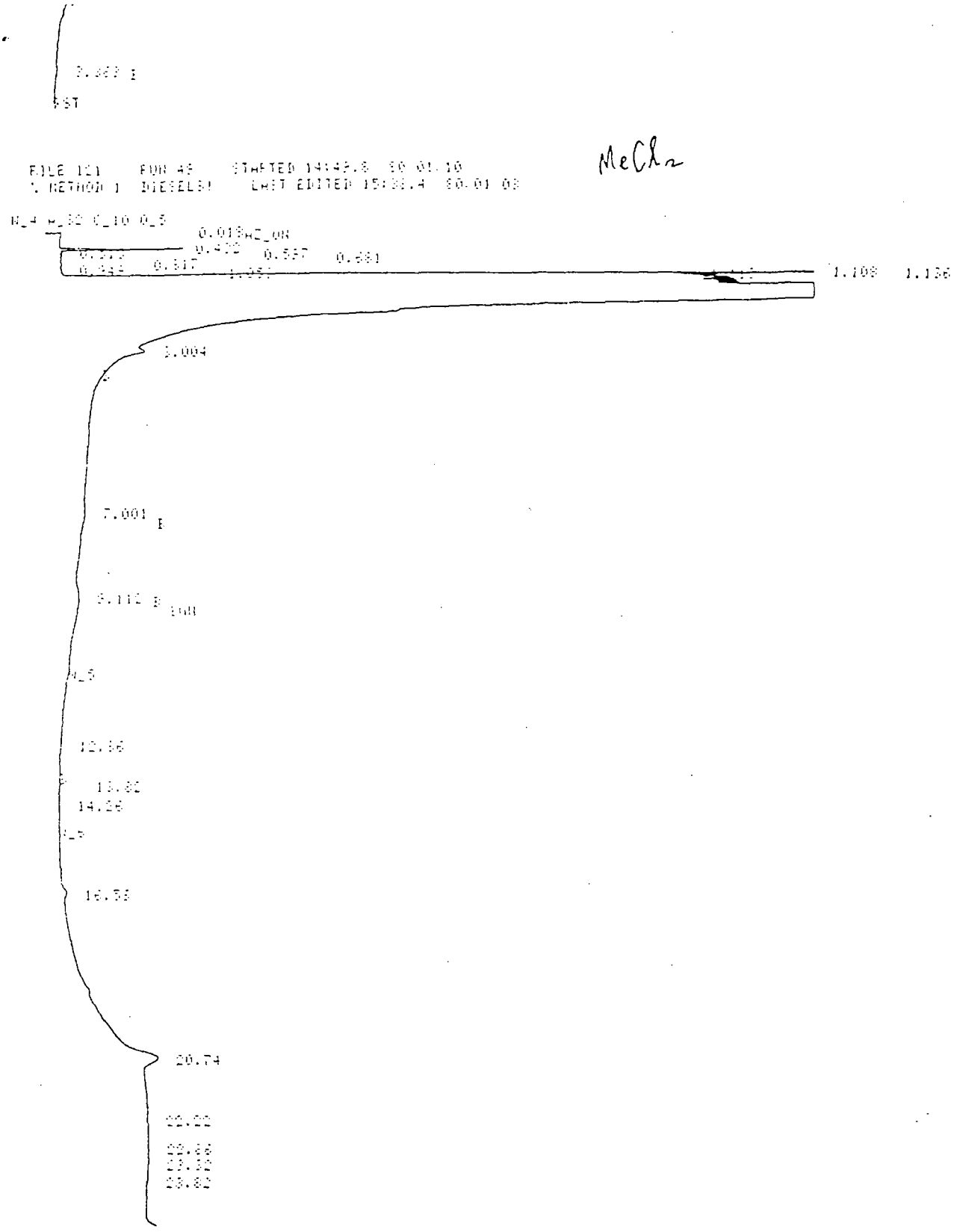
Laboratory Director

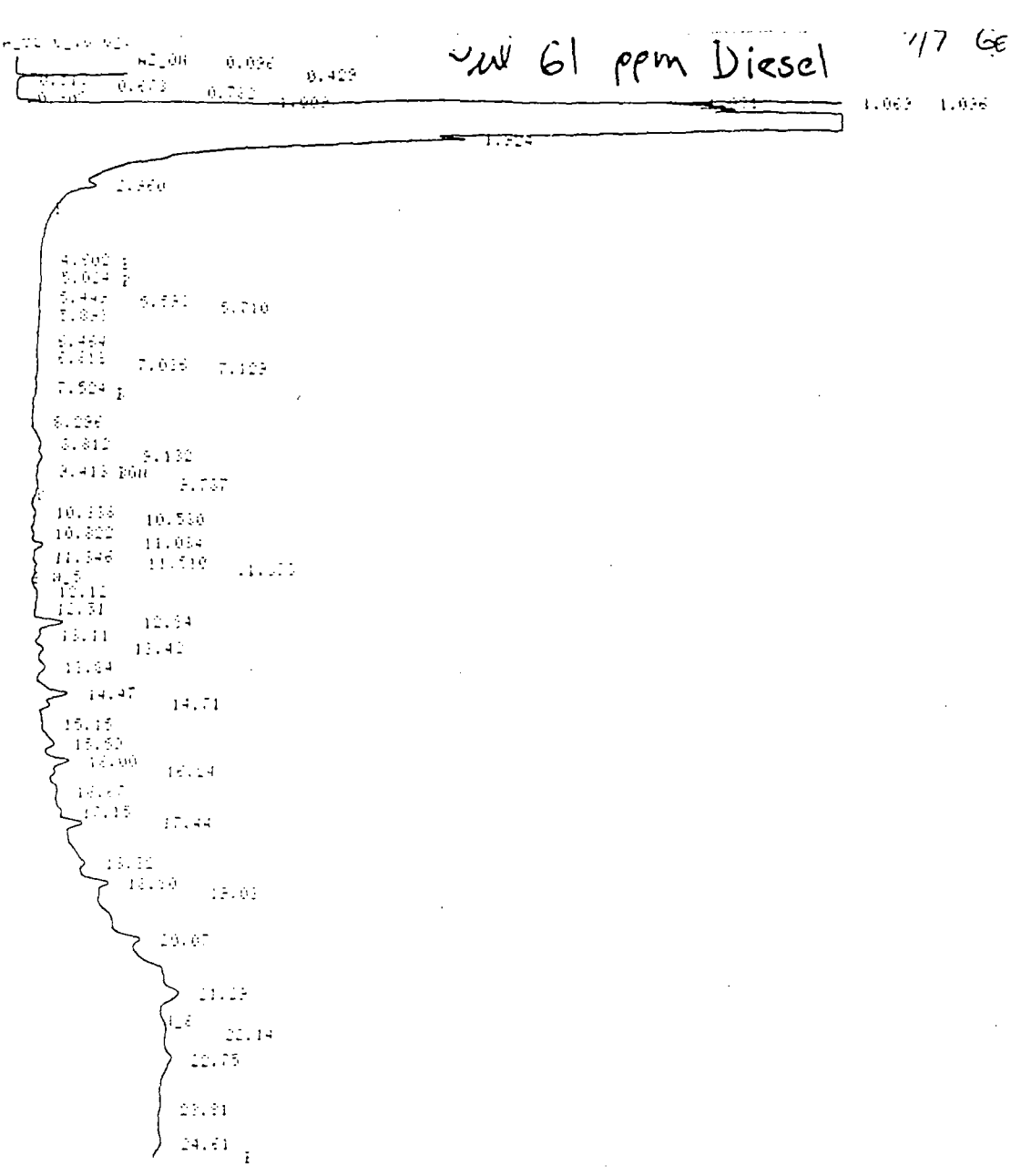


FILE 121 RUN 49 STARTED 14:49.8 80 01 10
% METHOD 1 DIESELS! LAST EDITED 15:38.4 80 01 08

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
12.86		0.0976			0.8355
13.82	2846	0.2639	V	5.1699	2.2582
14.26	582	0.0686	V	1.0754	0.5872
16.58	12593	1.4603	V	23.4206	12.4960
20.74		8.9033	V		76.1879
22.22	26459	0.2618	V	48.0632	2.2399
22.86	4015	0.2145	V	8.7312	1.8354
23.32	3645	0.2337	V	6.6213	2.0001
23.82	1710	0.1823	V	6.8665	1.5600

7 PEAKS AREA REJECT 55050 TOTAL AREA
9 PEAKS HEIGHT REJECT 11.6360 TOTAL HEIGHT

61 ppm Diesel



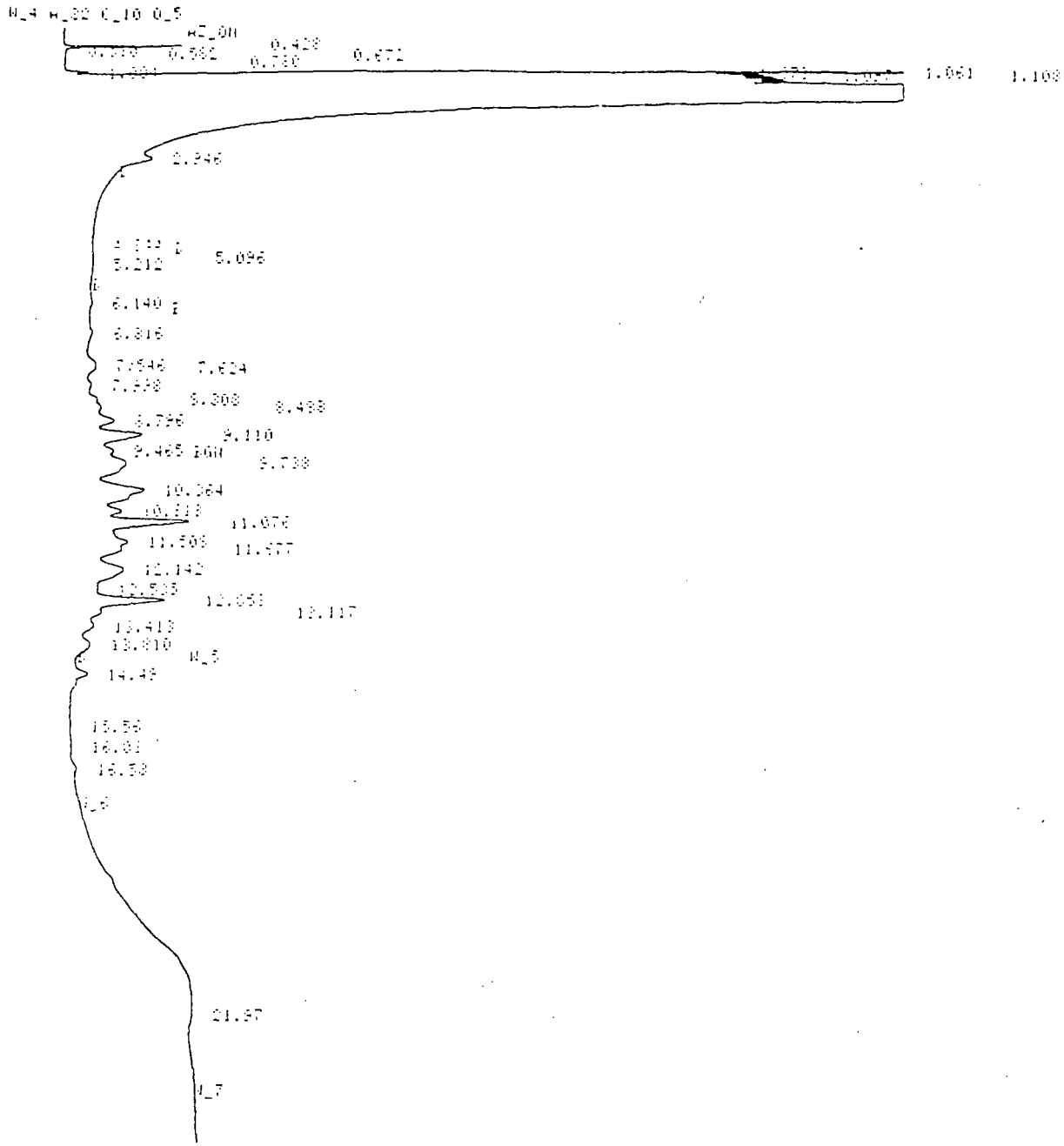
FILE 96 RUN 24 STARTED 14:52.3 80/01/08
% METHOD 1 DIESEL01 LAST EDITED 15:38.4 80/01 08

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
6.737	8658	0.6957		0.7083	0.7666
10.338	11050	1.1130	H	0.9052	1.2269
10.566	2171	0.3543	H	0.1777	0.3910
10.822	6578	0.9148	H	0.5385	1.0081
11.084	34036	3.9967	H	2.7863	4.4041
11.346	414	0.1135	H	0.0338	0.1254
11.510	7656	1.1267	H	0.6268	1.2415
11.693	2545	0.3947		0.2083	0.4350
12.12	24731	1.5769	H	2.0245	1.7377
12.51	[illegible]	0.4124	H	[illegible]	[illegible]
12.84	86158	9.6601	H	7.0524	10.6450
13.11	7142	1.0214	H	0.5846	1.1276
13.42	25742	2.4431	H	2.1072	2.6977
13.84	38281	3.6595	H	3.1335	3.8306
14.47	100373	5.0148	H	8.2145	5.5140
14.71	15714	1.4106	H	1.2863	2.6567
15.15	9246	0.7727	H	0.7251	0.8515
15.53	57215	3.7093	H	4.6836	4.0375
16.00	62365	7.0313	H	5.1052	7.7509
16.24	3527	1.1363	H	0.2886	1.1106
16.67	23726	1.3594	H	1.9422	1.4910
17.15	3174	1.1104	H	0.2650	1.2227
17.44	72852	7.4014	H	5.9651	8.1560
18.12	26631	2.7219	H	2.1800	3.0016
18.80	52413	6.2248	H	4.2901	6.8257
19.02	2110	0.4126	H	0.1727	0.4624
20.07		4.7369	H		5.2212
21.12	124122	9.3505	H	10.1609	10.1040
22.14	5113	0.5712	H	0.4184	0.6715
22.75	62130	1.1511	H	5.0817	1.4011
23.91	7124	0.6771	H	0.5829	0.7516
24.61	45313	2.1503		3.7504	2.1635

TOTAL AREA = 1221000 TOTAL AREA

3ul 59 ppm Pt. Thinner

FILE 97 RUN 25 STARTED 15:26.0 80/01/09
% METHOD 1 DIESELS! LAST EDITED 15:38.4 80/01/08



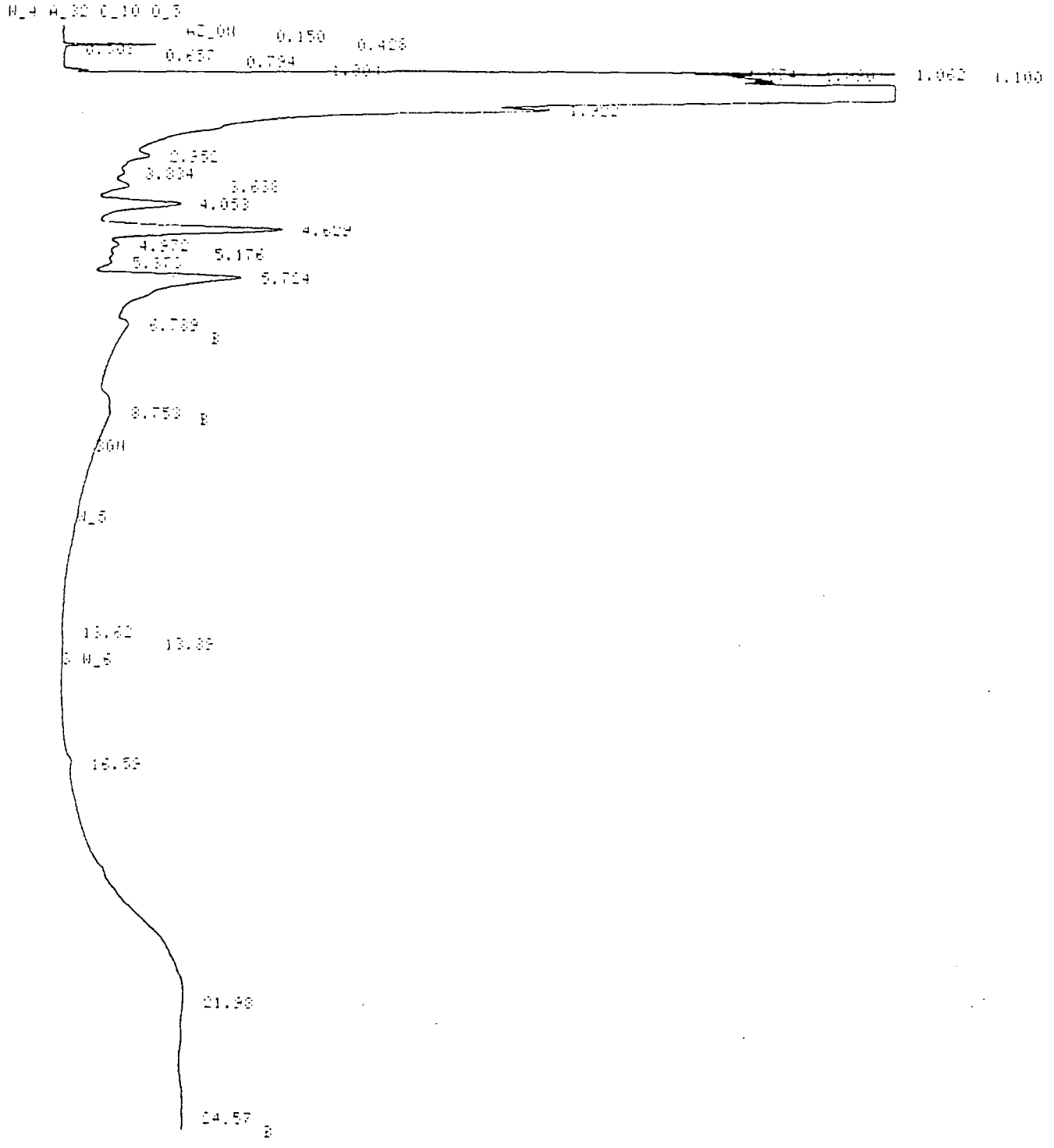
FILE 97 RUN 25 STARTED 15:26.0 80/01/09
% METHOD 1 DIESELS! LAST EDITED 15:38.4 80/01/08

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
9.738	146696	7.0919	V	6.0654	6.1487
10.364	259216	15.1403	V	10.7177	13.1268
10.818	35168	4.8762	V	1.4541	4.2277
11.076	247880	28.6230	V	10.2490	24.8164
11.508	27629	3.7249	V	1.1424	3.2295
11.677	20783	2.1143	V	0.8594	1.8332
12.142	159909	8.9517	V	6.6117	7.7612
12.585	1458	0.3048	V	0.0803	0.2643
12.853	222150	24.2660	V	9.1852	21.0338
13.117	11011	1.8114	V	0.4553	1.3971
13.413	24297	2.4361	V	1.0046	2.1122
13.810	57380	3.3321		2.3716	2.3890
14.49	67364	5.3165	V	2.8068	4.6095
15.56	4568	0.2614	V	0.1889	0.2266
16.01	3605	0.3248	V	0.1491	0.2816
16.58	9297	1.1663	V	0.3844	1.0112
21.97	1119668	5.7974	V	46.2945	5.0264

17 PEAKS AREA REJECT 2418577 TOTAL AREA
17 PEAKS HEIGHT REJECT 115.1192 TOTAL HEIGHT

FILE 98 RUN 26 STARTED 15:59.9 80/01/09
% METHOD 1 DIESELS! LAST EDITED 15:38.4 80/01/08

3ul 59 ppm Lacquer Th.



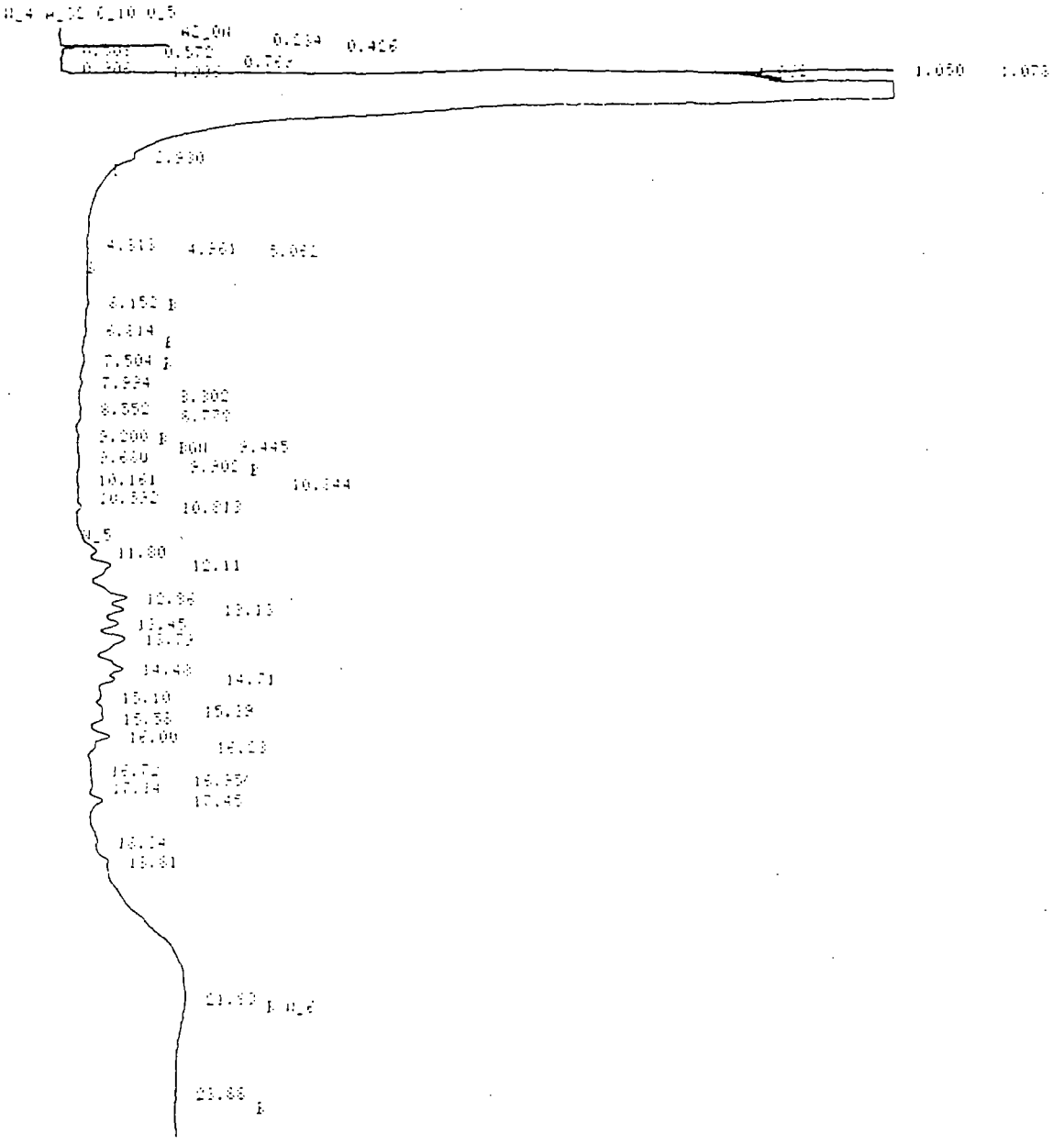
FILE 98 RUN 26 STARTED 15:59.9 80/01/09
% METHOD 1 DIESELS! LAST EDITED 15:38.4 80/01/08

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
13.62	851	0.0695	U	0.0549	0.5360
13.89	3193	0.2968		0.2059	2.2899
16.59	13324	1.2749	U	0.8594	9.8364
21.98	1497762	10.7679	U	96.6110	83.0769
24.57	35173	0.5523		2.2688	4.2608

5 PEAKS AREA REJECT 1550302 TOTAL AREA
5 PEAKS HEIGHT REJECT 12.9614 TOTAL HEIGHT

3ul 80ppm Kerosene

FILE 99 RUN 27 STARTED 16:30.1 80-01-09
% METHOD 1 DIESELS! LAST EDITED 15:38.4 80-01-08



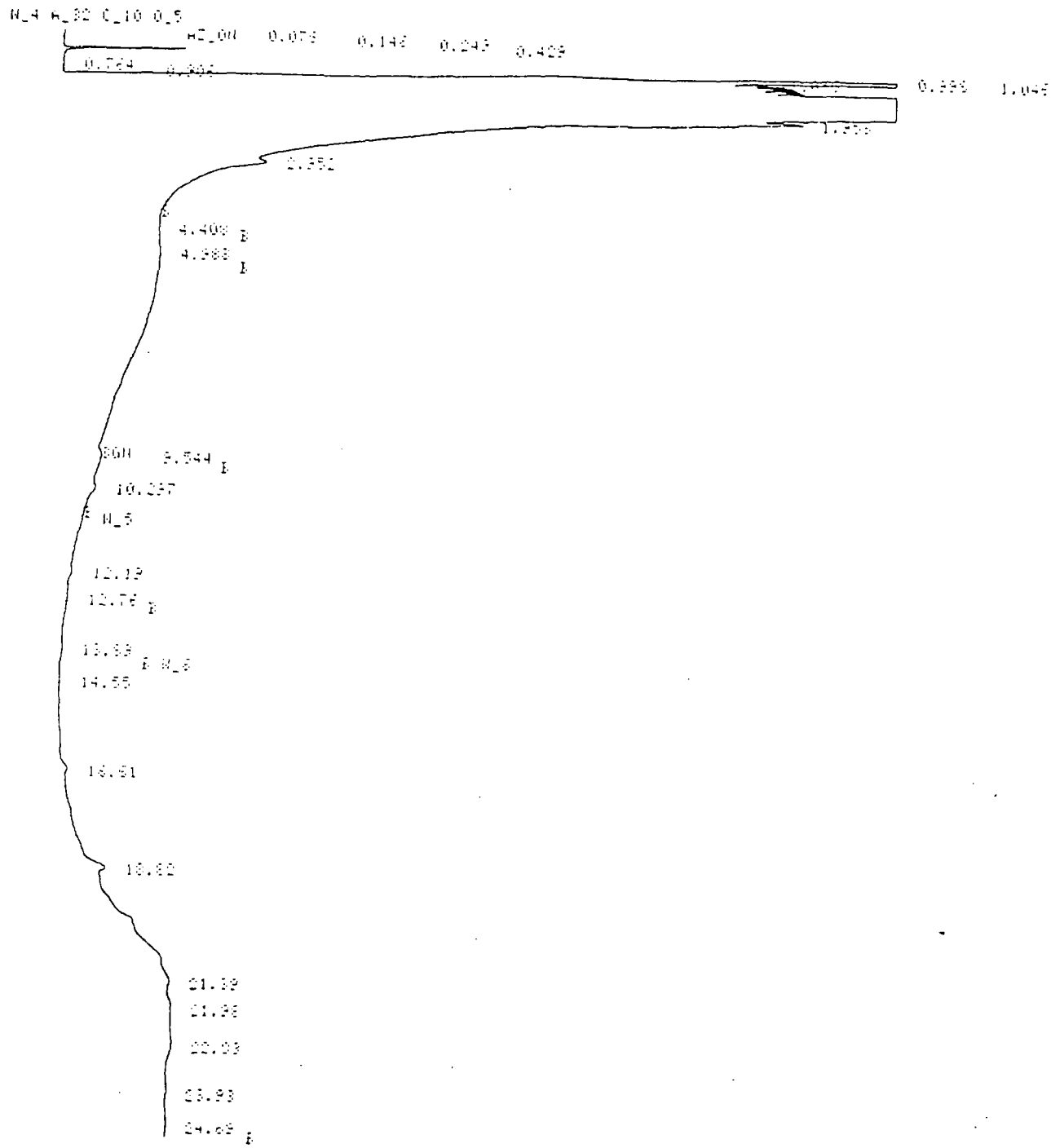
FILE 99 RUN 27 STARTED 16:30.1 80-01-09
% METHOD 1 DIESELS! LAST EDITED 15:38.4 80-01-08

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
9.630	5275	0.6026	V	0.2516	0.7845
9.902	2757	0.3608		0.1837	0.4698
10.161	863	0.1250	V	0.0575	0.1627
10.344	4935	0.7620	V	0.3322	0.9919
10.592	2426	0.4003	V	0.1617	0.5211
10.813	14591	1.6601	V	0.9725	2.1611
11.80	38342	3.1332	V	2.2222	4.0788
12.11	123696	7.6013	V	8.2443	9.8954
12.86	97449	7.8335	V	6.4949	10.2056
13.13	46350	5.6218	V	3.0892	7.3185
13.45	49357	5.4138	V	3.2896	7.0477
13.79	160876	9.3680	V	10.7223	12.1954
14.48	87495	6.4000	V	5.8315	8.3316
14.71	23794	3.8892	V	1.9191	5.0630
15.10	18769	1.6395	V	1.2509	2.1994
15.39	11775	1.1651	V	0.7848	1.5167
15.58	15424	1.7934	V	1.0280	2.3411
16.00	59668	6.1601	V	3.9768	8.0193
16.23	6368	0.7515	V	0.4244	0.9783
16.72	12113	0.5571	V	0.8073	0.7252
16.95	1425	0.2424	V	0.0950	0.3156
17.14	4555	0.6576	V	0.3036	0.8560
17.45	58597	5.0810	V	3.9721	6.6145
18.14	10431	0.9241	V	0.6952	1.0723
18.81	7321	1.6312	V	0.5213	2.1235
21.93	626569	2.7608		41.7605	3.5940
23.88	7617	0.3200		0.5077	0.4166

27 PEAKS AREA REJECT 1500338 TOTAL AREA
27 PEAKS HEIGHT REJECT [illegible]

3ul 8061491 1000:2.9

FILE 100 RUN 28 STARTED 17:08.9 80/01/09
% METHOD 1 DIESELS! LAST EDITED 15:38.4 80 01 08



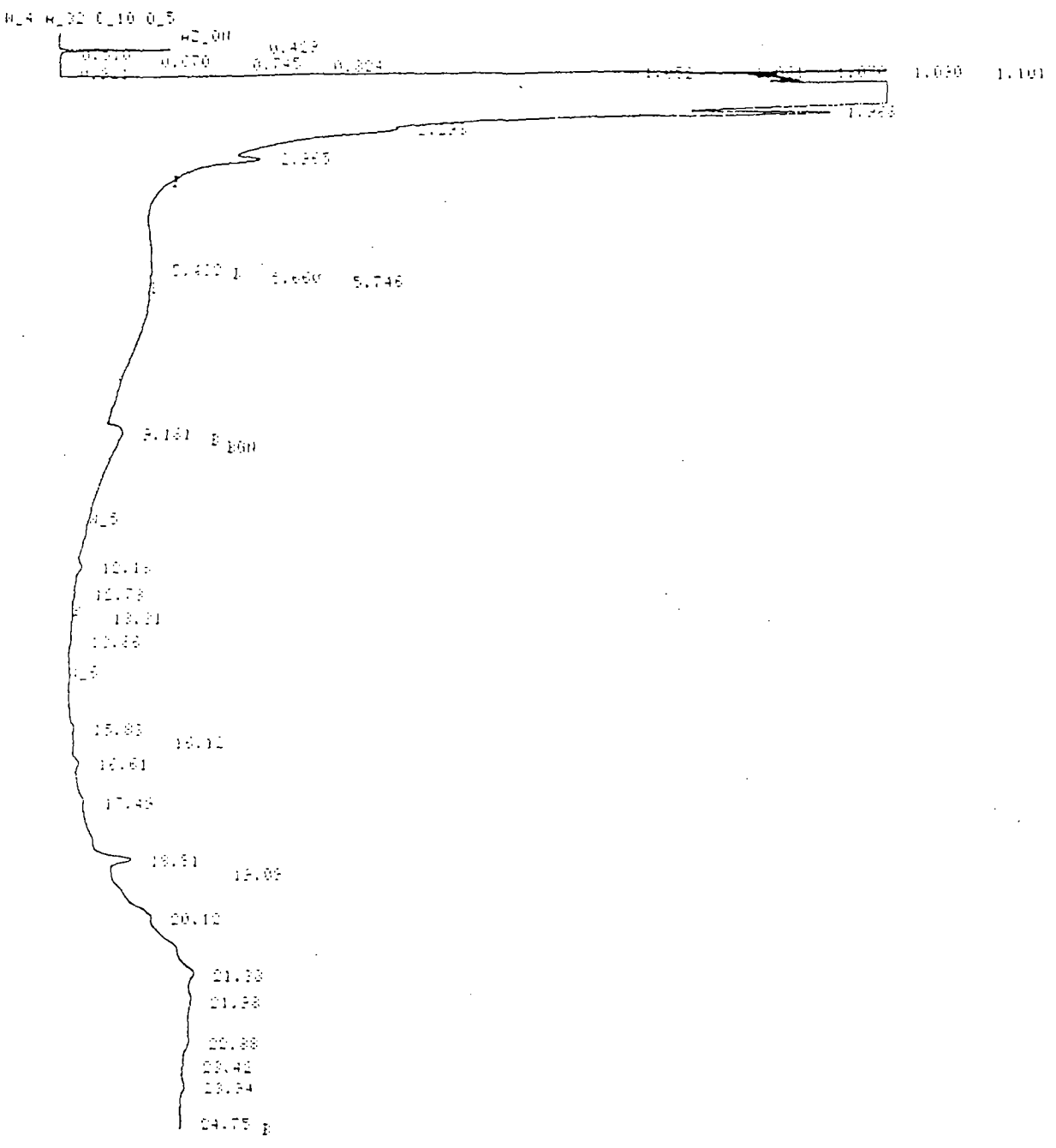
FILE 100 RUN 28 STARTED 17:08.9 80/01/09
% METHOD 1 DIESELS! LAST EDITED 15:38.4 80/01/08

PT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
9.544	16630	1.0585		3.5926	6.8996
10.297	17519	1.5817		3.7846	10.3102
12.19	8527	0.6973	U	1.8420	4.5451
12.76	2254	0.1884		0.4869	1.2280
13.89	7078	0.4947		1.5291	3.2248
14.55	2194	0.1510	U	0.4740	0.9843
16.61	10325	1.4708	U	2.2436	9.5874
18.82		3.3936	U		22.1209
21.39	323908	3.5058	U	69.9759	22.8524
21.98	11468	0.6350	U	2.4775	4.4648
22.03	46150	1.1339	U	9.9700	7.7822
23.93	8202	0.4956	U	1.7720	3.2307
24.69	8571	0.4249		1.8517	2.7694

12 PEAKS AREA REJECT 462334 TOTAL AREA
13 PEAKS HEIGHT REJECT 15.3411 TOTAL HEIGHT

FILE 101 RUN 29 STARTED 17:43.1 80 01 09
% METHOD 1 DIESELS! LAST EDITED 15:33.4 80 01 08

3ul 8061492 1000: 1.6



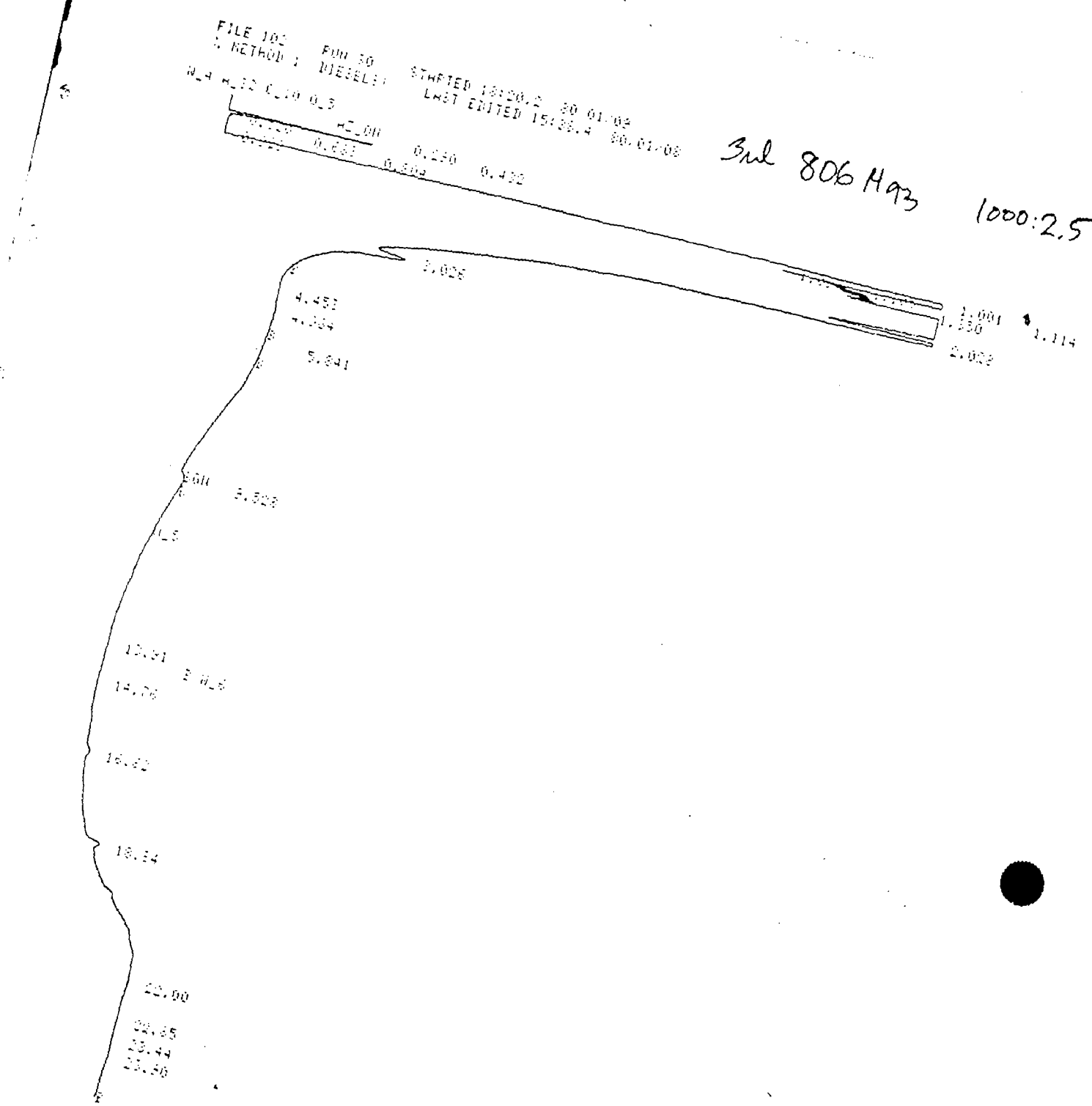
FILE 101 RUN 29 STARTED 17:43.1 80/01/09
% METHOD 1 DIESELS! LAST EDITED 15:33.4 80 01/08

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
12.18	18188	1.5750	V	4.6929	5.9478
12.78	2000	0.2918		0.5159	1.1019
13.31	1936	0.2141	V	0.4995	0.8084
13.86	5045	0.4297	V	1.3016	1.6225
15.83		0.4511	V		1.7034
16.12	3883	0.3194	V	1.0019	1.2060
16.61	16495	1.5870	V	4.2561	5.9931
17.49		0.6303	V		2.5710
18.81		9.0345	V		24.1175
19.09	1139	0.2006	V	0.3068	0.7575
20.12		1.9670	V		7.4281
21.38	265260	5.6357	V	68.4431	21.2826
21.98	22907	1.1312	V	5.9105	4.4603
22.88	21645	1.0436	V	5.5849	3.9410
23.42	2705	0.2436	V	0.6980	0.8333
23.94	21413	1.2804	V	5.5250	4.3351
24.75	4893	0.3401		1.2637	1.2845

12 PEAKS AREA REJECT 387562 TOTAL AREA
17 PEAKS HEIGHT REJECT 26.4305 TOTAL HEIGHT

FILE 102 RUN 30 STARTED 18:20.2 80/01/09
% METHOD 1 DIESEL1 LAST EDITED 15:38.4 80/01/08

3rd 806 Hg3 1000:2.5



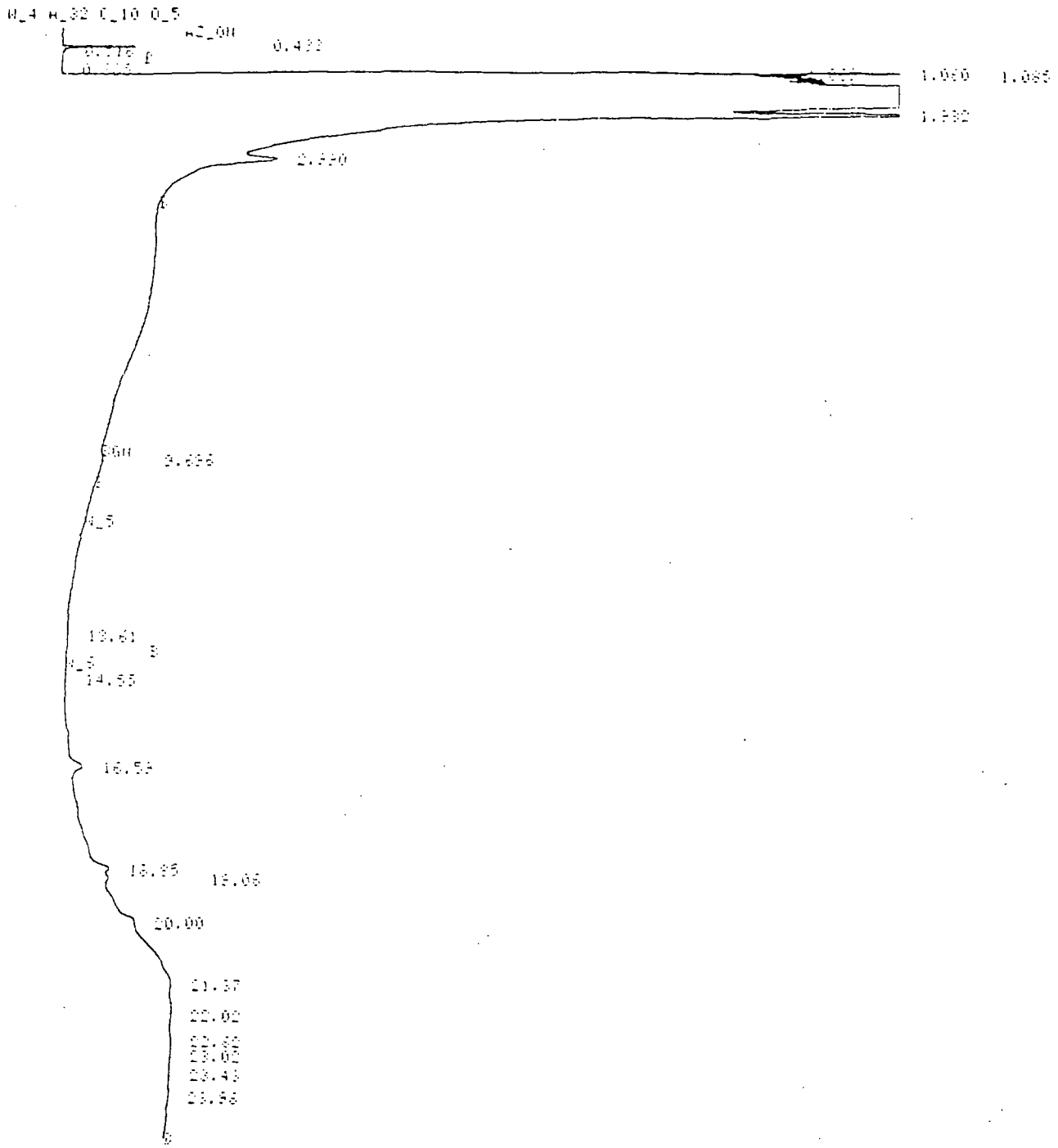
FILE 102 RUN 30 STARTED 18:20.2 80/01/09
% METHOD 1 DIESEL1 LAST EDITED 15:38.4 80/01/08

PT	AREA	HEIGHT BC	AREA PERCENT	HEIGHT PERCENT
9.528		1.7082	2.5469	12.9588
13.91	30944	0.3604	0.3421	2.7340
14.76	4159	0.1471 "	0.1175	1.1157
16.62	1428	1.5175 "	1.5038	12.0435
18.84	16344	2.7500 "		20.8627
22.00		9.1019 "		46.2906
22.85	1154055	0.1257 "	94.9872	0.3536
23.44	2331	0.1352 "	0.1959	1.4111
23.90	3648	0.2056	0.3003	1.5600

% PEAK 1 AREA REJECT 1214955 TOTAL AREA
% PEAK 2 HEIGHT REJECT 13.1616 TOTAL HEIGHT

FILE 103 RUN 31 STARTED 19:29.3 80/01/09
% METHOD 1 DIESELS! LAST EDITED 15:38.4 80/01/08

3ml 8061494 1000:2.4



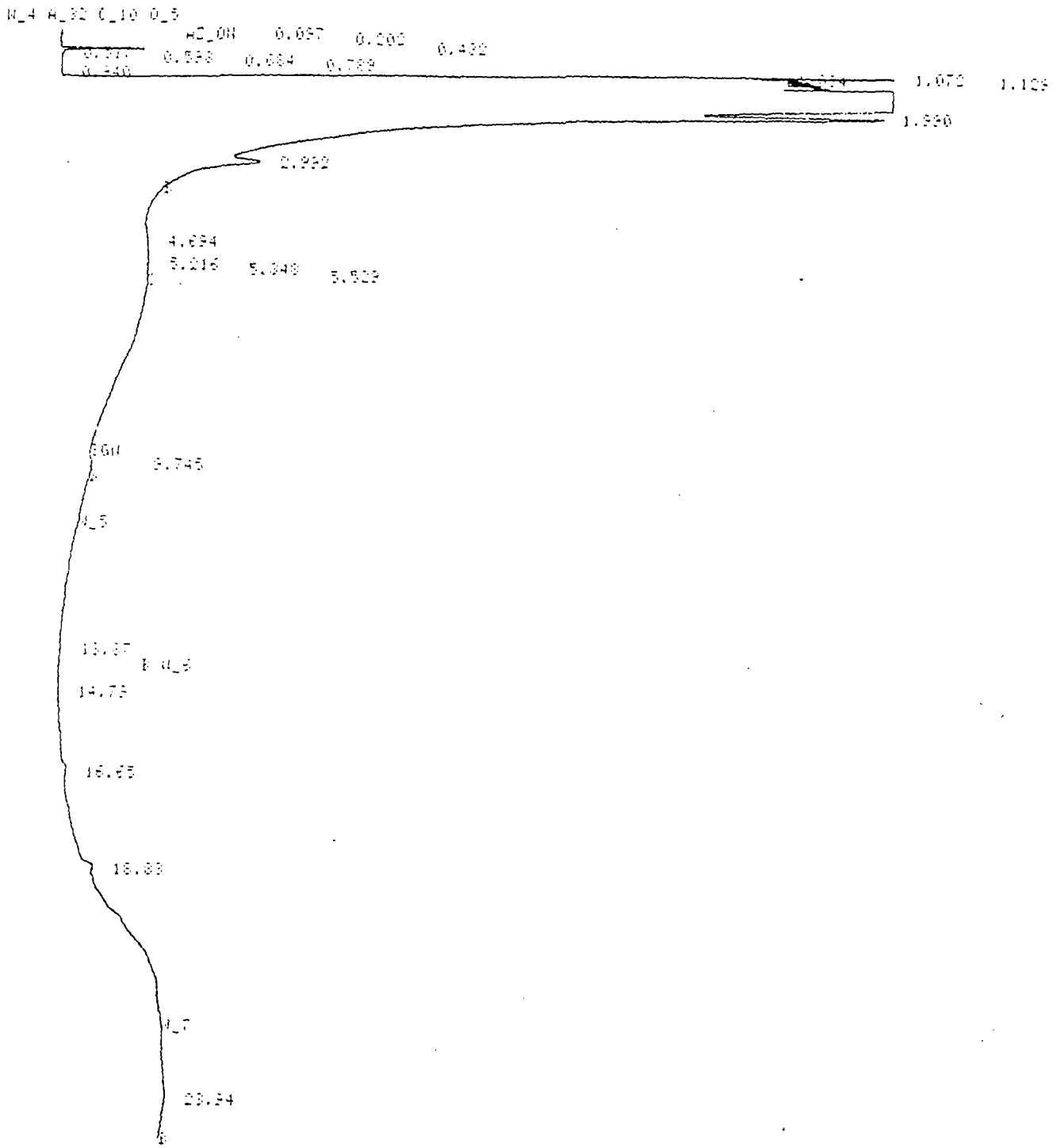
FILE 103 RUN 31 STARTED 19:29.3 80/01/09
% METHOD 1 DIESELS! LAST EDITED 15:38.4 80/01/08

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
9.696	5451	0.3050		2.4425	2.3148
13.61	4763	0.2154		2.1342	1.6349
14.55	2640	0.1658	H	1.1827	1.2583
16.59	27687	4.1762	H	12.4061	31.6959
18.85		2.0058	H		15.6790
19.06	10126	1.3410	H	4.5371	10.1777
20.00		1.0278	H		7.8004
21.37	137274	2.3110	H	61.5102	17.5397
22.02	13690	0.5422	H	6.1344	4.1150
22.62	1454	0.1393	H	0.6560	1.0576
23.02	3057	0.2194	H	1.3696	1.6641
23.43	2172	0.1595	H	0.9732	1.2103
23.96	14350	0.5014		6.6540	3.3510

11 PEAKS AREA REJECT 223173 TOTAL AREA
13 PEAKS HEIGHT REJECT 13.1757 TOTAL HEIGHT

3ul 8061495 1000:3,2

FILE 104 RUN 32 STARTED 20:02.7 80/01/09
% METHOD 1 DIESELS! LAST EDITED 15:38.4 80/01/08



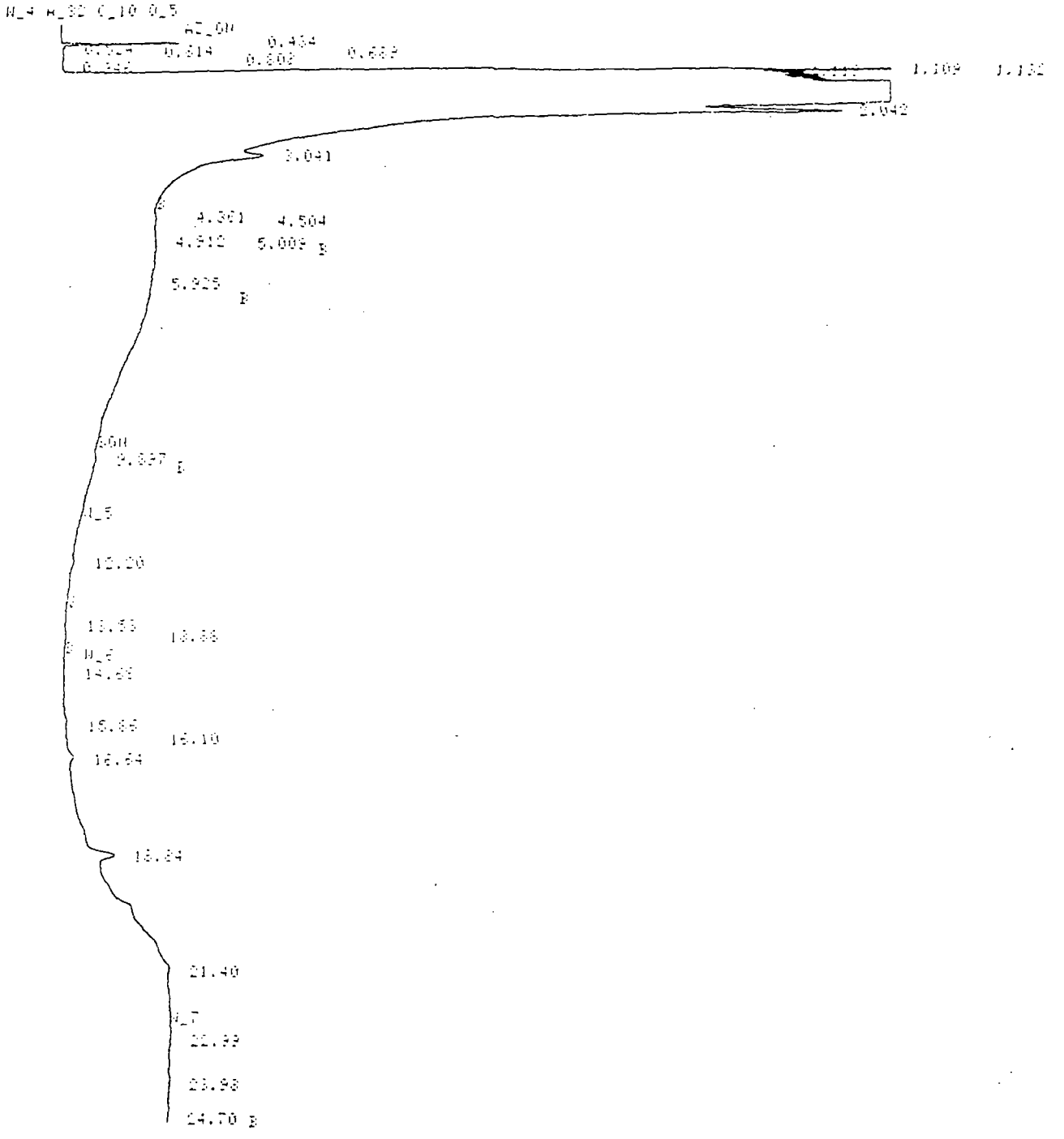
FILE 104 RUN 32 STARTED 20:02.7 80/01/09
% METHOD 1 DIESELS! LAST EDITED 15:38.4 80/01/08

PT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
9.745	15147	0.8914		8.5371	14.1111
13.87	3903	0.3046		2.2027	4.8224
14.73	1373	0.1121	U	0.7736	1.7750
16.65		1.1129	U		17.6171
18.83		1.7424	U		27.5812
23.94	[illegible]	2.1537		83.4366	34.0931

4 PEAKS AREA REJECT 177418 TOTAL AREA
6 PEAKS HEIGHT REJECT 6.3172 TOTAL HEIGHT

FILE 105 RUN 33 STARTED 20:34.8 80/01/09
% METHOD 1 DIESELS! LAST EDITED 15:38.4 80/01/08

3ml 8061496 1000 : 2.6



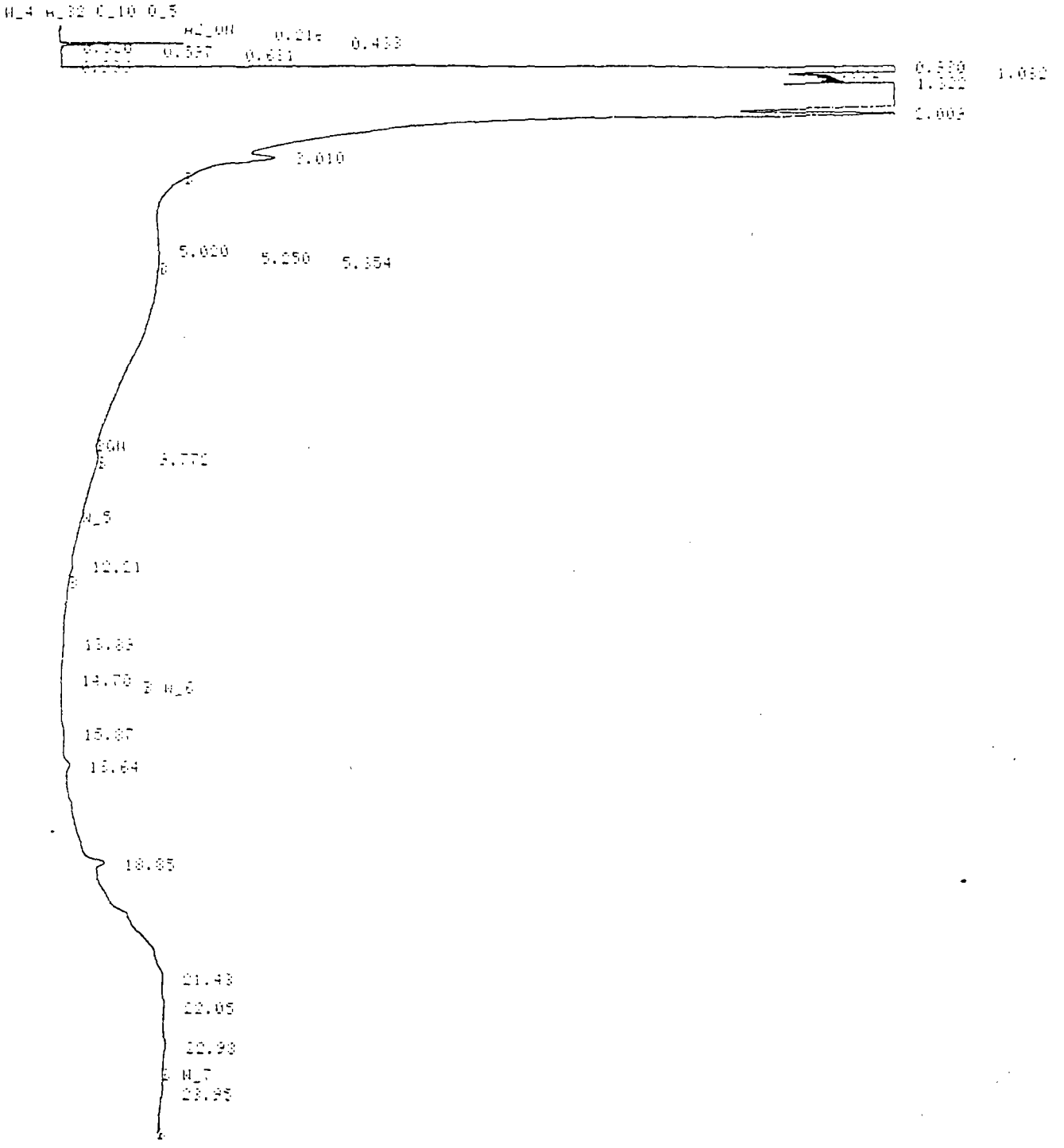
FILE 105 RUN 33 STARTED 20:34.8 80/01/09
% METHOD 1 DIESELS! LAST EDITED 15:38.4 80/01/08

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
9.897	4994	0.4467		2.5937	3.1011
12.20	2799	0.6880		1.4537	4.7761
13.53	827	0.0953	H	0.4293	0.6613
13.86	4930	0.4177		2.5602	2.8995
14.68	3922	0.2383	H	2.0367	1.6541
15.86		0.4471	H		3.1041
16.10	1520	0.1824	H	0.7894	1.2665
16.64	20703	1.7779	H	10.7522	12.3425
18.84		6.3896	H		44.3576
21.40	127163	2.3913	H	66.0439	16.60[illegible]
22.99	11720	0.5138	H	6.0869	3.6[illegible]
23.98	11115	0.6238	H	5.8769	4.3303
24.70	2653	0.1825		1.3776	1.[illegible]

11 PEAKS AREA REJECT 192541 TOTAL AREA
13 PEAKS HEIGHT REJECT 14.4049 TOTAL [illegible]

FILE 106 RUN 34 STARTED 21:08.6 80/01/09
% METHOD 1 DIESELS! LAST EDITED 15:38.4 80/01/08

3ml 8061497 1000:2.4



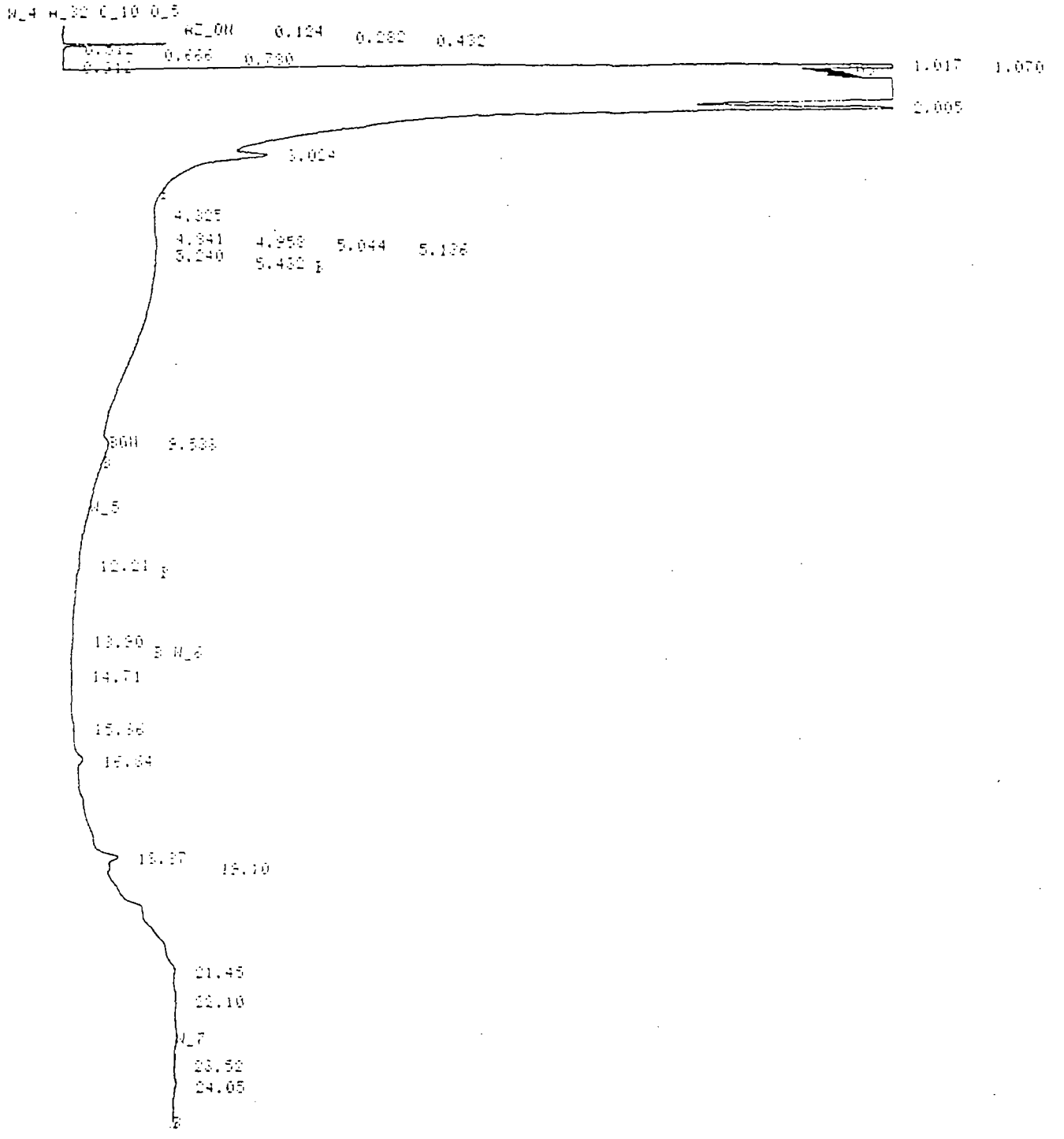
FILE 106 RUN 34 STARTED 21:08.6 80/01/09
% METHOD 1 DIESELS! LAST EDITED 15:38.4 80/01/08

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
9.772	5678	0.5124		1.5771	4.0438
12.21	5085	0.5372		1.4124	4.2393
13.89	4327	0.3397	V	1.2018	2.6808
14.70	2233	0.1871		0.6201	1.4766
15.87		0.3063	V		2.4214
16.64	12101	1.5333	V	3.3610	12.1007
18.85	9900	4.4634	V	2.7498	35.2258
21.43	263775	2.8566	V	74.6529	22.5449
22.05	10109	0.4937	V	2.8072	3.3964
22.98	25933	0.8063		7.2028	6.3631
23.95	15393	0.6345		4.4143	5.0073

10 PEAKS AREA REJECT 360032 TOTAL AREA
11 PEAKS HEIGHT REJECT 12.6705 TOTAL HEIGHT

Sul 80061448 1000:2

FILE 107 RUN 35 STARTED 21:52.3 80/01/03
% METHOD 1 DIESELS! LAST EDITED 15:38.4 80/01/08



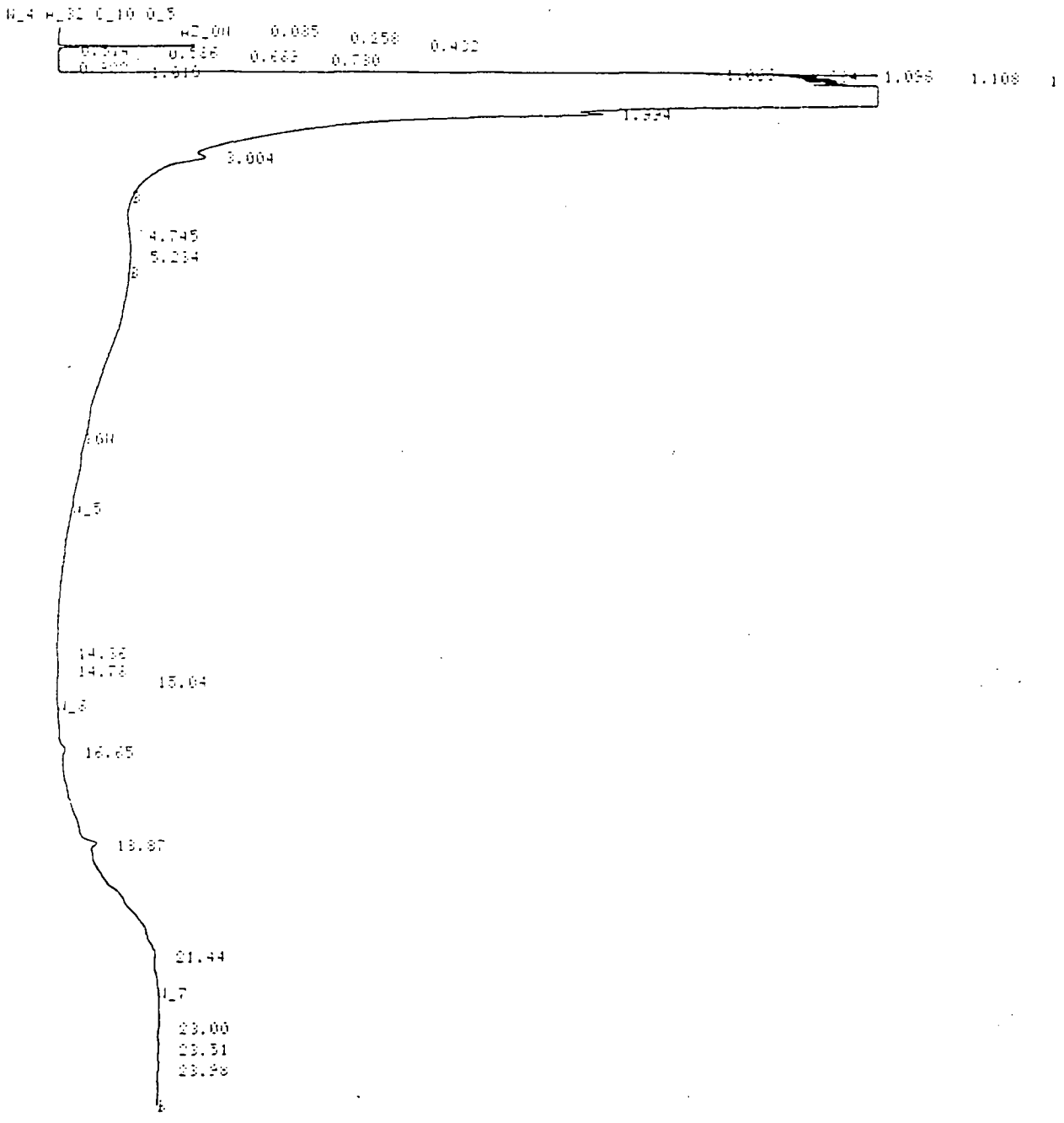
FILE 107 RUN 35 STARTED 21:52.3 80/01/03
% METHOD 1 DIESELS! LAST EDITED 15:38.4 80/01/08

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
9.538	35274	1.6073		7.3755	10.6644
12.21	7307	0.5302		1.5278	3.5176
13.60	5880	0.4370		1.2504	2.8994
14.71	4322	0.2510	H	0.9027	1.6651
15.86	2192	0.3663	H	0.4583	2.4302
16.64	22545	2.3405	H	4.7140	15.5290
18.37		4.3871	H		29.1084
19.10	3310	0.5099	H	0.6921	3.3830
21.45	364022	3.0019	H	76.5318	19.9172
22.10	14855	0.7024	H	3.1061	4.6603
23.52	3355	0.2219	H	0.7014	1.4729
24.05	18100	0.7162		3.7890	4.7521

11 PEAKS AREA REJECT 476261 TOTAL AREA
12 PEAKS HEIGHT REJECT 15.0716 TOTAL HEIGHT

FILE 108 RUN 36 STARTED 22:24.5 80/01/09
% METHOD 1 DIESELS! LAST EDITED 15:38.4 80/01/08

3,ul 8061499 1000: 2.2



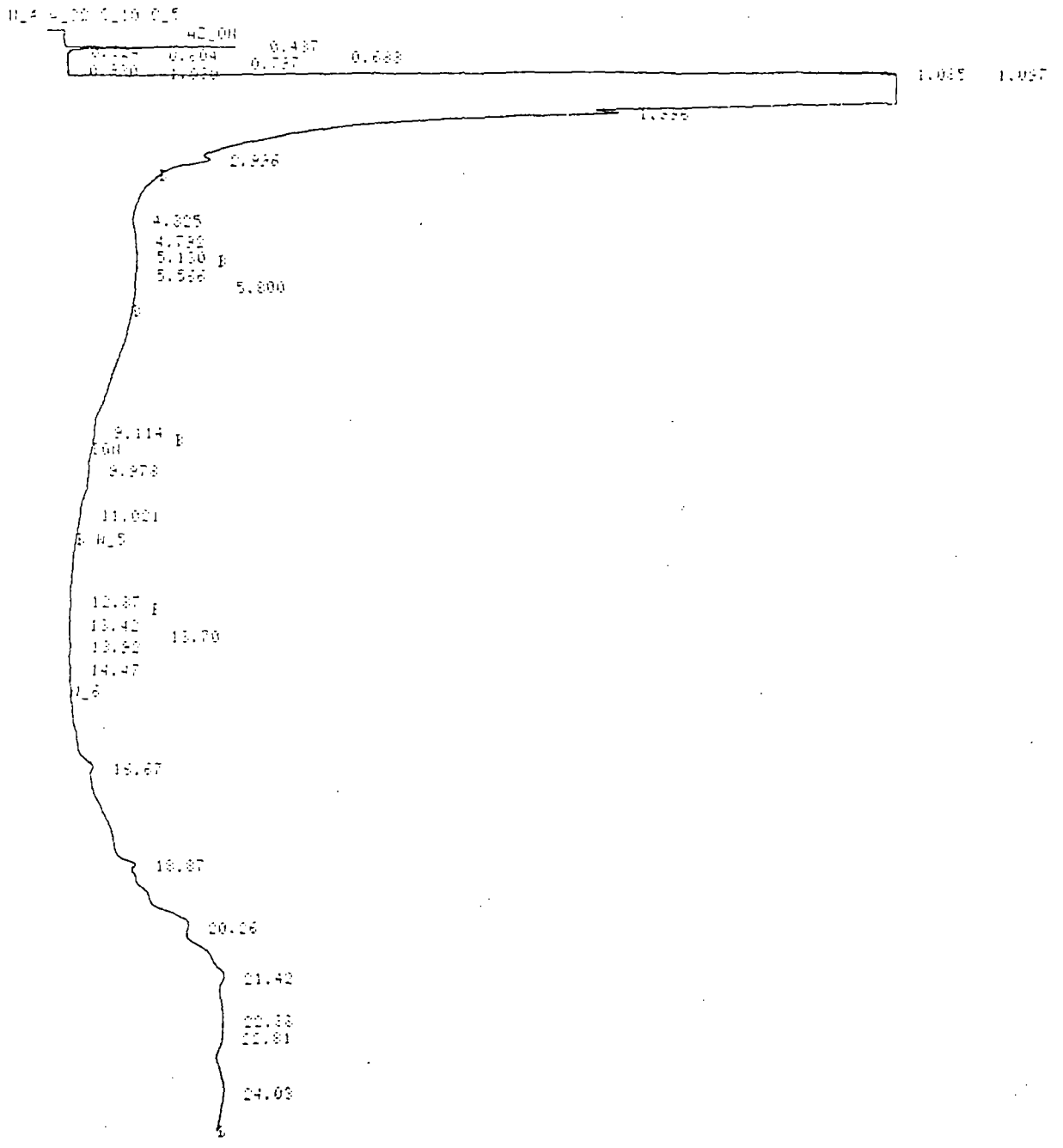
FILE 109 RUN 36 STARTED 22:24.5 80/01/09
% METHOD 1 DIESELS! LAST EDITED 15:38.4 80/01/08

FT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
14.36	627	0.1027	V	0.2892	1.2841
14.78	2285	0.1639	V	1.0539	2.0483
15.04	952	0.1318	V	0.4392	1.6490
16.65	3060	1.2990	V	1.4116	16.2475
18.87		2.8422	V		35.5507
21.44	181098	2.2866	V	83.5405	28.6009
23.00	12175	0.4552	V	5.6165	5.6932
23.51	3449	0.2656	V	1.5911	3.3225
23.98	13138	0.4480		6.0580	5.6033

8 PEAKS AREA REJECT 216778 TOTAL AREA
9 PEAKS HEIGHT REJECT 7.9948 TOTAL HEIGHT

3ul 8061500 1000:2.3

FILE 110 RUN 38 STARTED 23:39.6 80/01/09
% METHOD 1 DIESELS! LAST EDITED 15:38.4 80/01/08



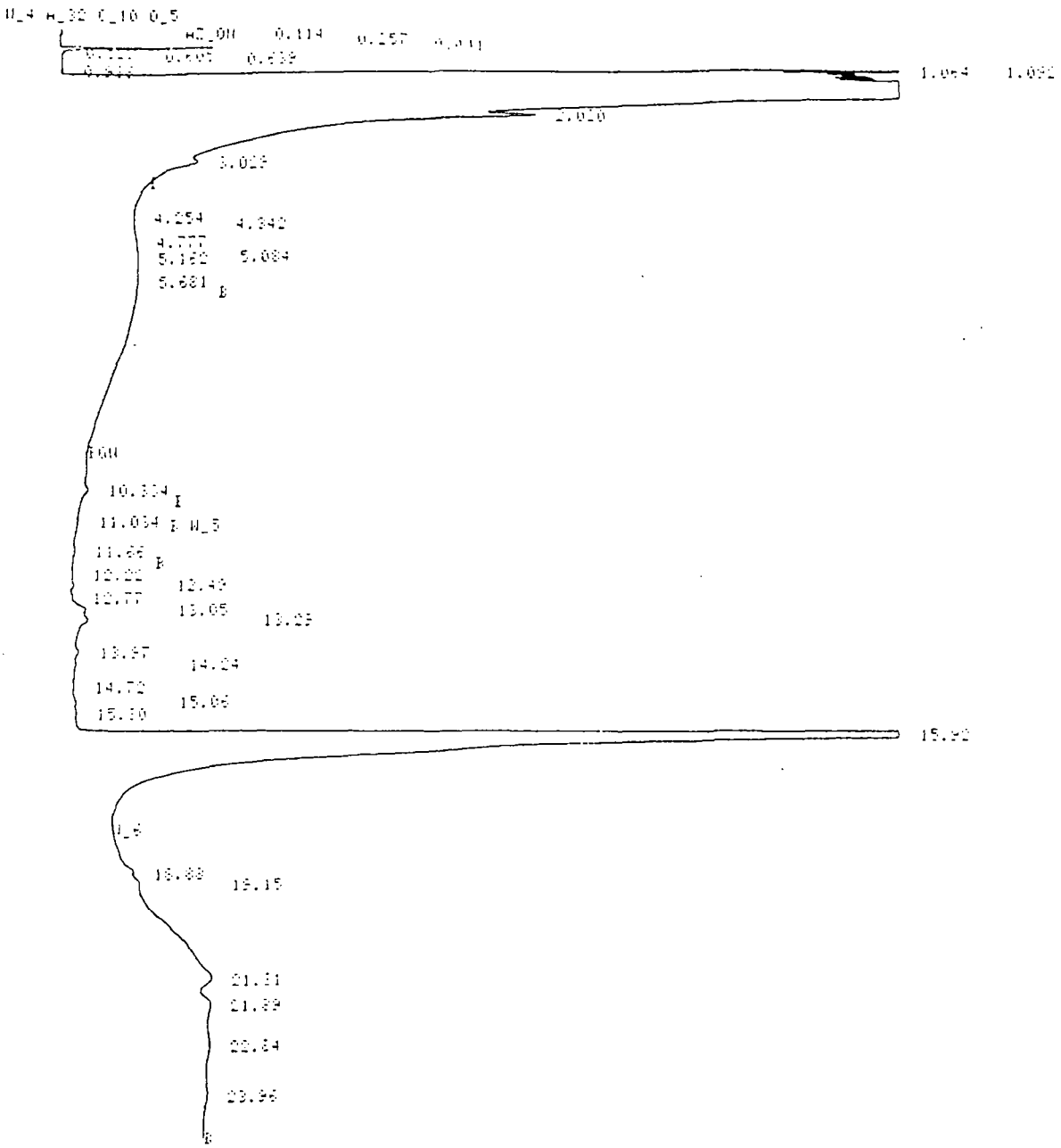
FILE 110 RUN 38 STARTED 23:39.6 80/01/09
% METHOD 1 DIESELS! LAST EDITED 15:38.4 80/01/08

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
9.978	2029	0.2193	U	0.4584	1.1365
11.021	5105	0.2766		1.1535	1.4331
12.87	1357	0.1509		0.3067	0.7821
13.42	1463	0.1551	U	0.3305	0.8036
13.70	739	0.1133	U	0.1670	0.5896
13.92	5720	0.3973	U	1.2926	2.0590
14.47	916	0.1651	U	0.2070	0.8553
16.67		1.9799	U		10.2596
18.87		2.6947	U		13.9634
20.26	25064	4.3768	U	5.6636	22.6795
21.42	235214	5.0328	U	53.1535	26.0790
22.38	20977	0.7395	U	4.7403	3.8321
22.81	12264	0.4628	U	2.7713	2.3979
24.03	131673	2.5137		29.7554	13.1293

12 PEAKS AREA REJECT 442518 TOTAL AREA
14 PEAKS HEIGHT REJECT 19.2934 TOTAL HEIGHT

1.20 ml 8061501 1000:2.2

FILE 111 RUN 39 STARTED 00:12.1 80/01/10
% METHOD 1 DIESELS1 LAST EDITED 15:38.4 80/01/08



FILE 111 RUN 39 STARTED 00:12.1 80/01/10
% METHOD 1 DIESELS1 LAST EDITED 15:38.4 80/01/08

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
10.334	20405	1.7385		0.2177	0.4162
11.034	1092	0.1648		0.0117	0.0395
11.66	4576	0.4402		0.0488	0.1054
12.22	3113	0.3431	V	0.0333	0.0821
12.49	8569	1.1143	V	0.0914	0.2668
12.77	2083	0.3847	V	0.0223	0.0921
13.05	17820	2.1308	V	0.1901	0.5101
13.29	22328	2.4658	V	0.2382	0.5904
13.97	12202	1.3472	V	0.1302	0.3225
14.24	4533	0.4703	V	0.0484	0.1126
14.72	1839	0.2611	V	0.0196	0.0625
15.06	4175	0.4913	V	0.0445	0.1176
15.30	2741	0.4156	V	0.0292	0.0995
15.92	8738935	392.9210	V	93.2355	94.0723
18.88		0.6873	V		0.1646
19.15	8133	0.8344	V	0.0868	0.2117
21.31	412054	6.9318	V	4.3962	1.6596
21.89	54176	2.5512	V	0.5780	0.6103
22.84	30408	1.0481	V	0.3244	0.2512
23.96	23770	0.8873		0.2536	0.2124

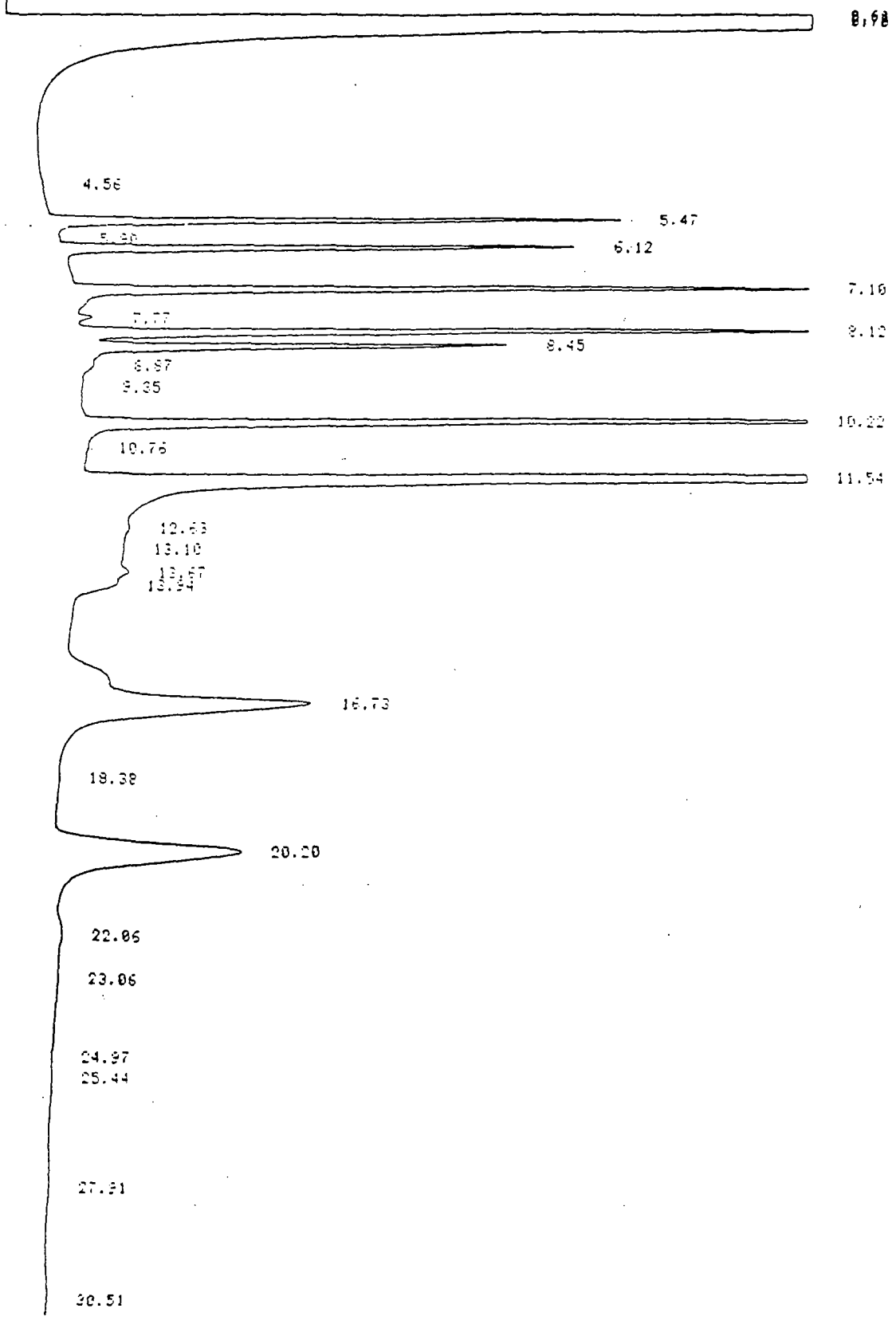
19 PEAKS AREA REJECT 9372966 TOTAL AREA
20 PEAKS HEIGHT REJECT 417.6795 TOTAL HEIGHT

285 5:10 A.M.

RUN 8 5:36 88/07/01 Phenol Mix 1:10 3.8X

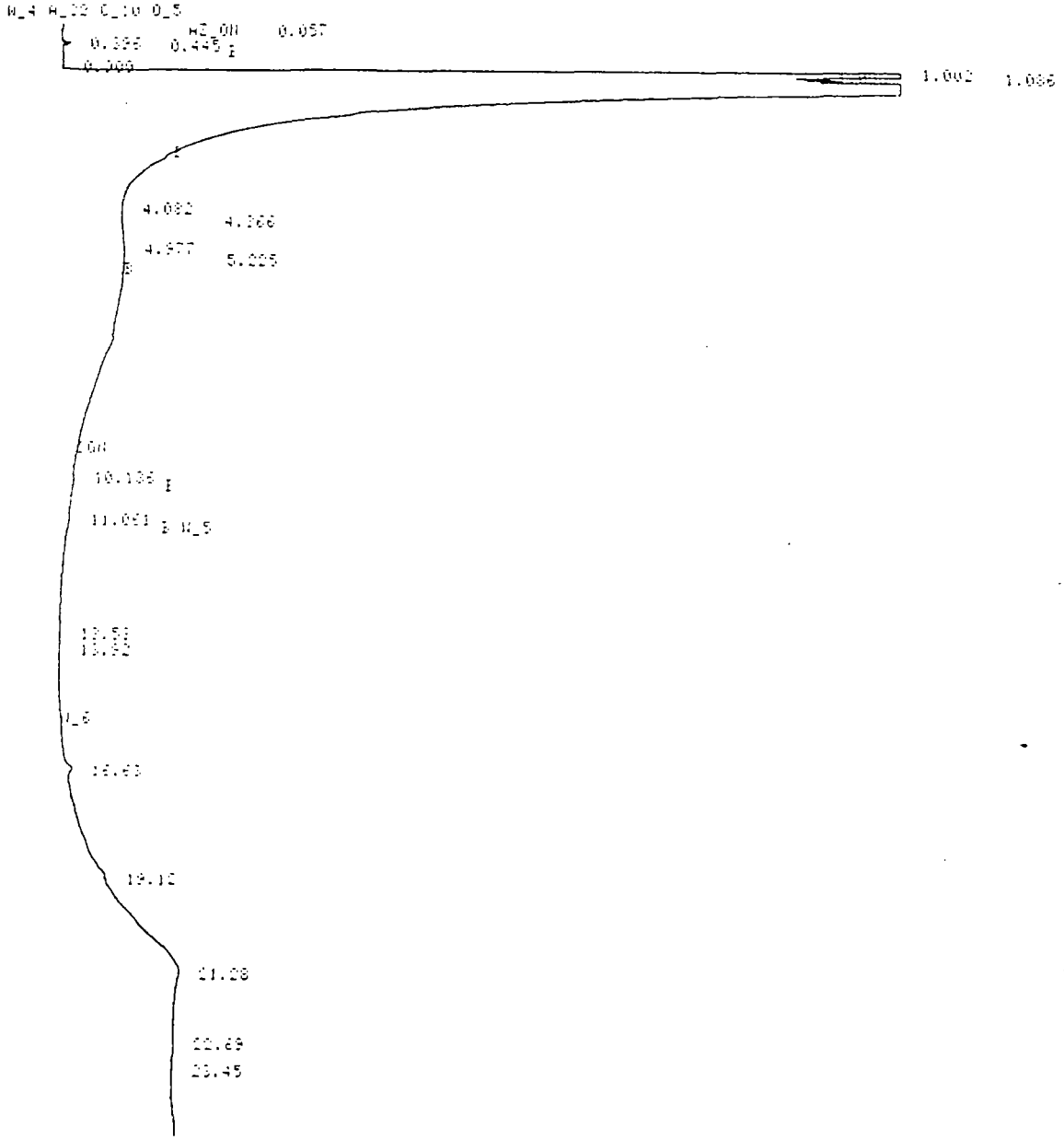
METHOD 3 PHENOLS 8040

64 C 10 EGN



8061622 1000:29

FILE 115 RUN 43 STARTED 02:54.5 80 01 10
% METHOD 1 DIESELS! LAST EDITED 15:38.4 80 01 08

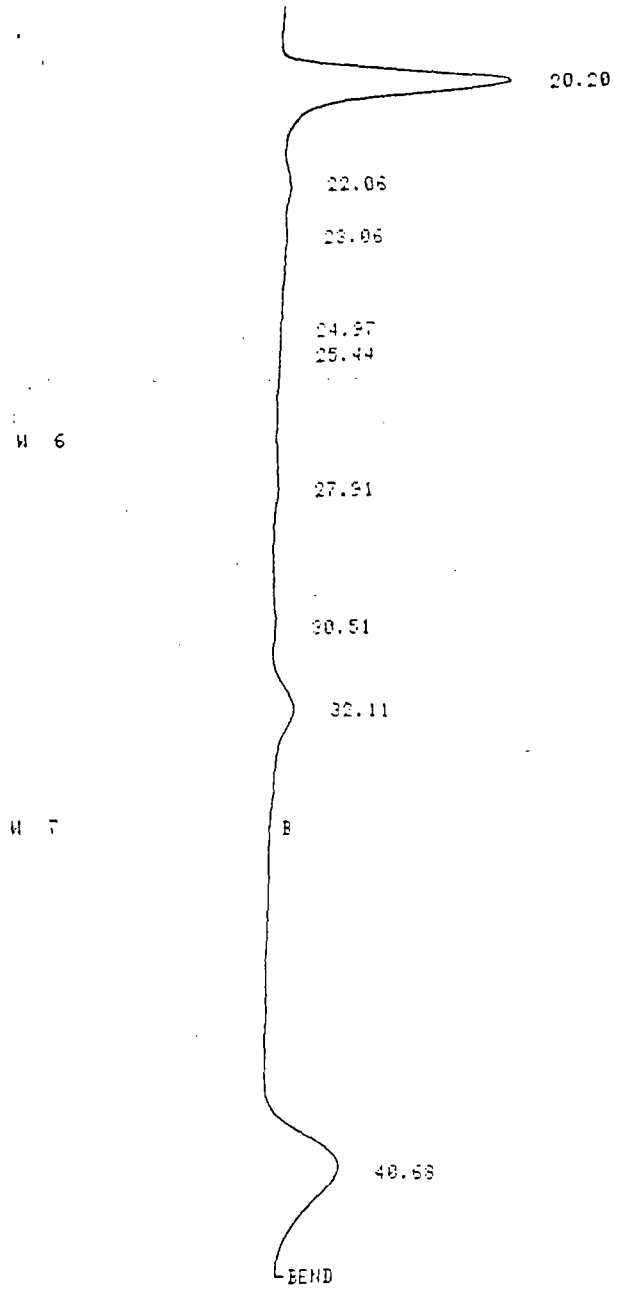


FILE 115 RUN 43 STARTED 02:54.5 80 01 10
% METHOD 1 DIESELS! LAST EDITED 15:38.4 80 01 08

FT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
10.136	1710	0.1846		0.1517	1.1775
11.061	3535	0.3593		0.3136	2.2919
13.53	902	0.0329	V	0.0327	0.5285
13.92	4103	0.3470	V	0.3640	2.2133
16.63	3242	1.7647	V	0.2876	11.2557
19.12		0.7622	V		4.2615
21.28	1102239	11.7373	V	97.7399	74.3656
22.69	8801	0.2399	V	0.7806	1.5203
23.45	2591	0.2000	V	0.2299	1.2757

1 PEAK AREA REJECT 1127201 TOTAL AREA
9 PEAK HEIGHT REJECT 15.7[illegible] TOTAL [illegible]

Phenol Mix p-2



RUN 8 5:36 88/07/01

METHOD 3 PHENOLS 8040 CALCULATION: %

RT	AREA	BC	AREA %
0.64	671.0942	V	39.3893
0.70	1.2700	V	0.0745
5.47	55.2923	V	3.2453
6.12	50.7170	V	2.9767
7.10	81.6119	V	4.7901
7.77	1.2920	V	0.0758
8.12	75.5098	V	4.4319
8.45	42.8048	V	2.5123
8.97	0.5500	V	0.0322
10.22	108.5359	V	6.3704
11.54	298.7261	V	17.5335
12.63	0.5112	V	0.0300
13.67	1.7204	V	0.1009
16.73	126.8274	V	7.4440
20.20	91.1803	V	5.3517
22.06	2.2339	V	0.1311
23.06	0.9053	V	0.0531
25.44	0.5255	V	0.0308
27.91	1.8064	V	0.1060
32.11	17.2099		1.0100
40.68	73.4206		4.3093

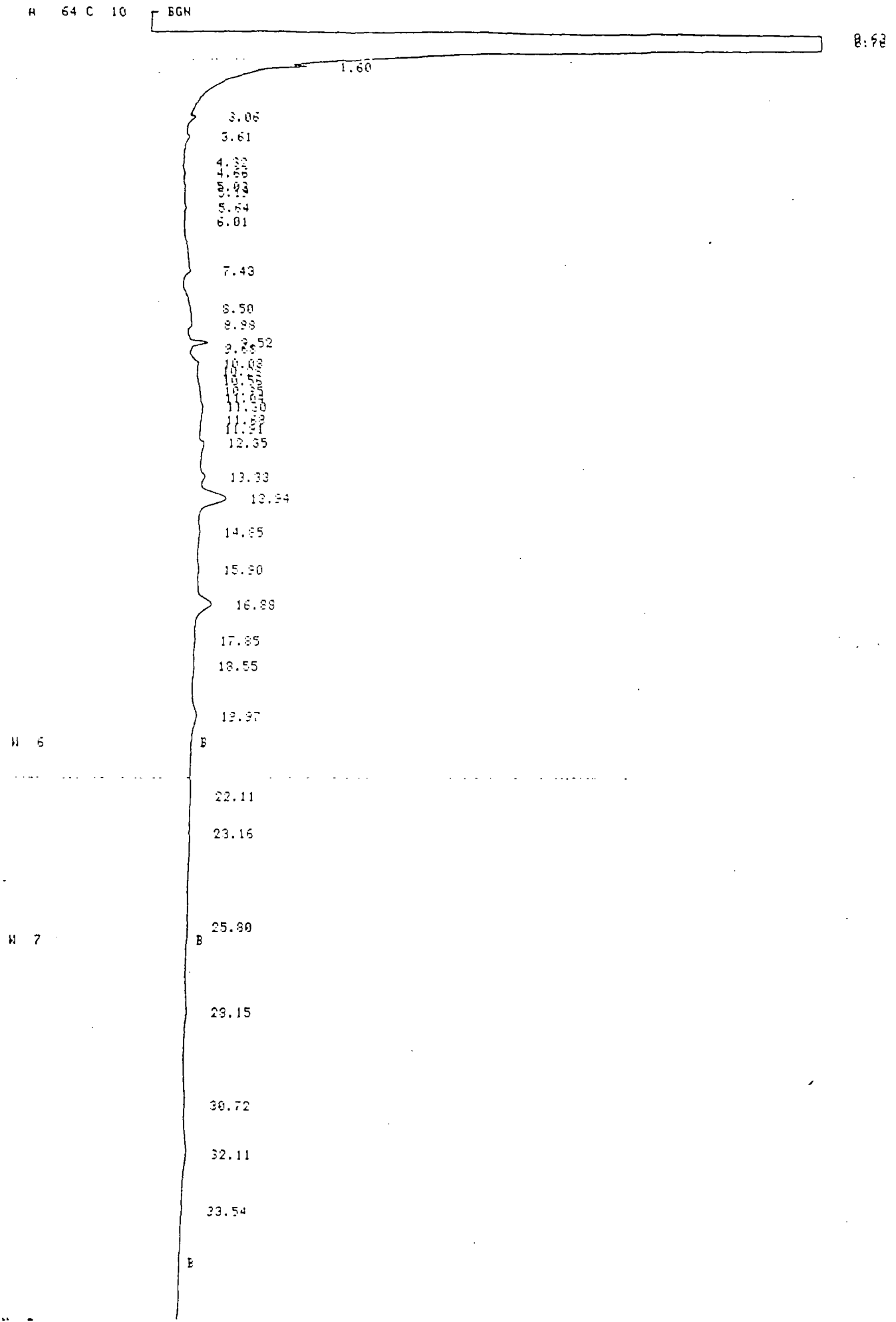
21 PEAKS > AREA/HT REJECT

RUN 3 17:26 88/06/30 8061441 9000

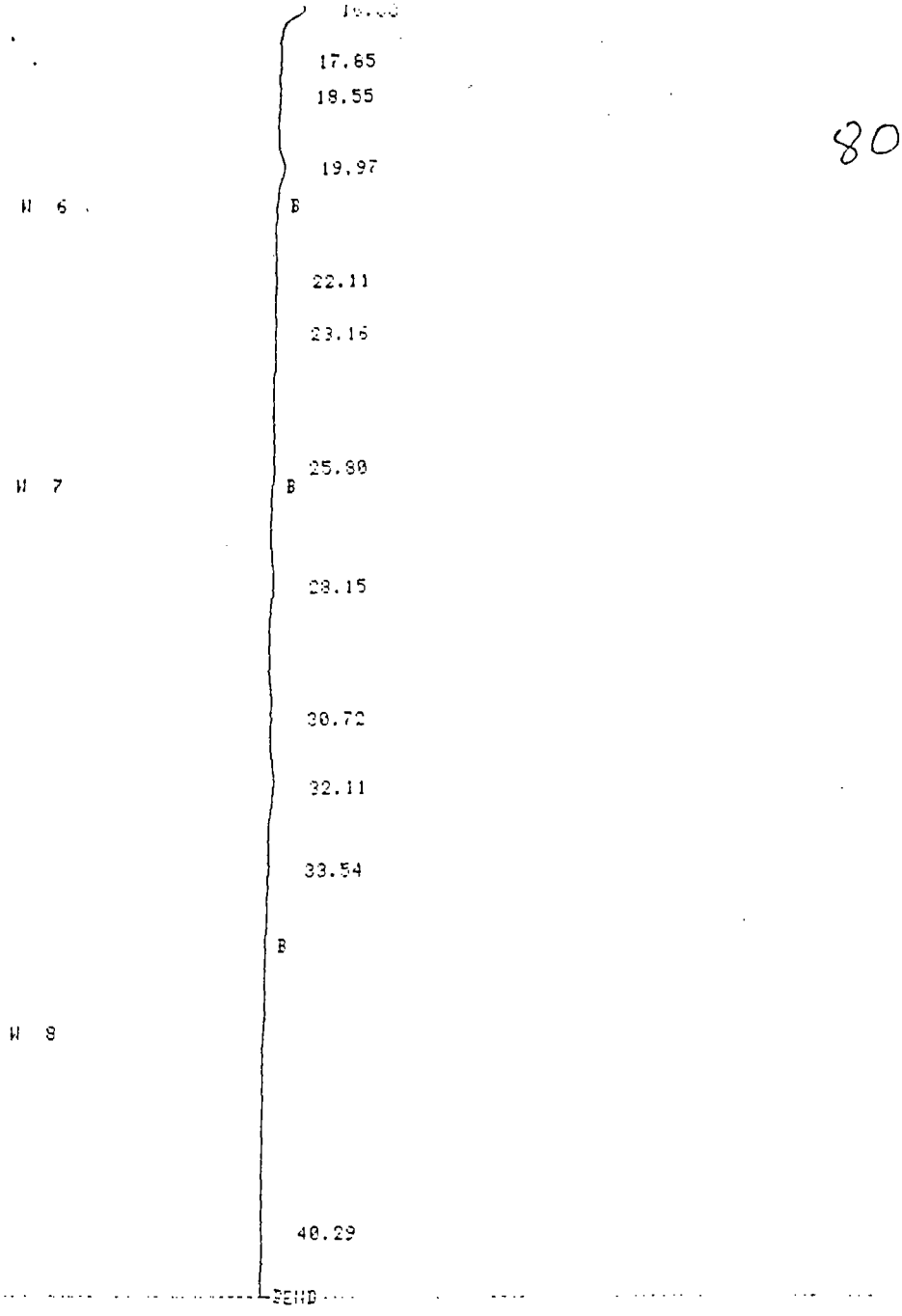
METHOD 3 PHENOLS 8040

3.8 X

A 64 C 10 BGN



8061491
pg. 2



RUN 3 17:26 88/06/30

METHOD 3 PHENOLS 8040 CALCULATION: %

RT	AREA	BC	AREA %
3.06	0.7552	V	1.8646
3.61	0.7060	V	1.7432
7.43	5.7332	V	14.1547
8.50	0.5406	V	1.3348
8.98	1.2850	V	3.1727
9.52	2.1275	V	5.2525
10.08	0.5677	V	1.4017
11.30	0.5959	V	1.4713
12.35	1.3782	V	3.4027
13.33	0.7830	V	1.9332
13.94	9.6491	V	23.8225
14.85	0.5714	V	1.4107
16.88	6.2918	V	15.5339
19.97	2.8563		7.0519
23.16	0.5820	V	1.4370
28.15	2.4791	V	6.1206
30.72	1.1355	V	2.8035
32.11	2.4657	V	6.0877

18 PEAKS > AREA/HT REJECT

RUN 4 18:17 88/06/30 8061492 900:1 4.9λ

METHOD 3 PHENOLS 8040

A 64 C 10 BGN

8:54

5.00

5.62

6.65

7.27

7.89

8.18

8.76

8.98

11.03

11.49

11.66

12.03

12.59

W 6

13.36

13.51

14.05

14.72

15.92

16.91

W 7 B

20.08

22.91

23.98

25.68

28.07

W 8 B

30.58

32.13

8061492
pg. 2

W 6

11.48
11.66
12.03
12.58
13.36
13.57
14.05
14.72
15.92
16.91

B

W 7

20.09
22.01
23.98
25.68
28.07

W 8

B

30.58
32.13

B

39.90

BEND

RUN 4 18:17 88/06/30

METHOD 3 PHENOLS 8040 CALCULATION: %

RT	AREA	BC	AREA %
7.27	4.4331	V	34.9014
8.98	0.6327	V	4.9811
11.03	2.1172	V	16.6682
14.05	2.0221	V	15.9197
16.91	1.9402		14.4881
32.13	1.6565		13.0412

6 PEAKS > AREA/HT REJECT

RUN 5 19:04 88/06/30 8061493 900:1 4.8λ

METHOD 3 PHENOLS 8040

A 64 C 10 BGN

0.00

1.74

2.88

3.69
3.92

4.92
5.15
5.50
5.85
6.22
6.70

7.40

7.89
8.16

8.99

11.00

13.26

14.04

14.77
15.15

15.86

16.87

W 6 B

20.11

W 7

23.40

25.69

B

27.95

B

30.61

32.00

W 8 E

8061493
pg. 2

	11.66
	13.26
	14.04
	14.77
	15.15
	15.86
	16.87
W 6	B
	20.11
W 7	
	23.40
	25.69
	B
	27.95
	B
	30.61
	32.00
W 8	B
	END

RUN 5 19:04 88/06/30

METHOD 3 PHENOLS 8040 CALCULATION: %

RT	AREA	BC	AREA %
2.89	12.0256	V	48.4911
7.40	2.9134	V	11.7382
8.99	0.6193	V	2.4953
11.66	4.5400	V	18.2915
13.26	0.8487	V	3.4194
14.04	1.6027	V	6.4574
16.87	1.3531		5.4517
32.00	0.9071		3.6548

8 PEAKS > AREA/HT REJECT

RUN 6 10:54 80-06-30 4061494 1000:1 5.2X

METHOD 3 PHENOLS 8040

A 64 C 10 BGN

8:00

1.74

2.75

3.69

5.00
5.14

5.85
6.29
6.69

7.34

7.88
8.16

8.97

11.66

12.66

13.26
13.56
14.03

15.82

16.88

W 6 B

W 7

25.58

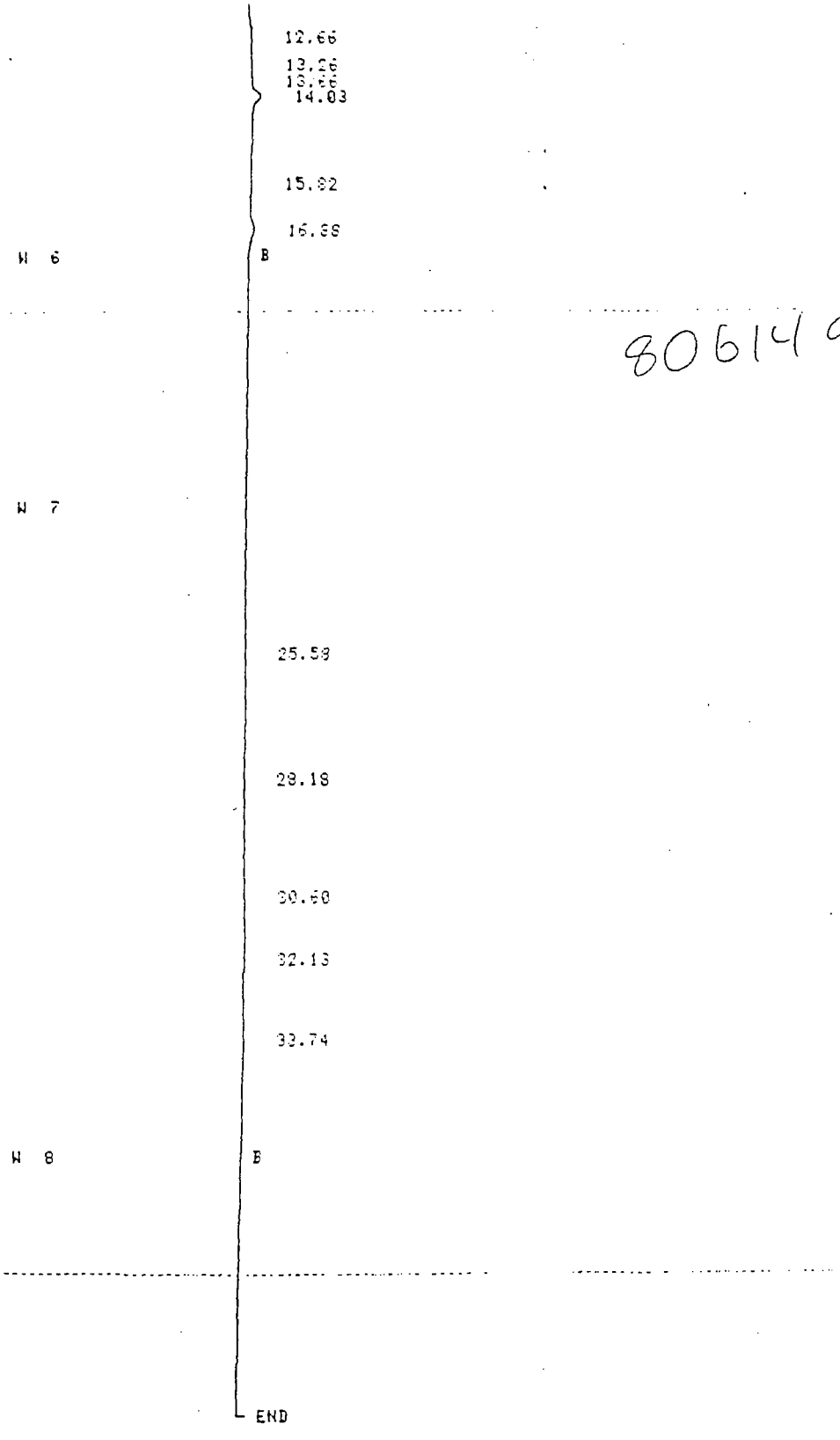
28.18

30.60

32.13

33.74

W 8 B



8061494 p. 2

RUN 6 13:54 88/06/30

METHOD 3 PHENOLS 8040 CALCULATION: %

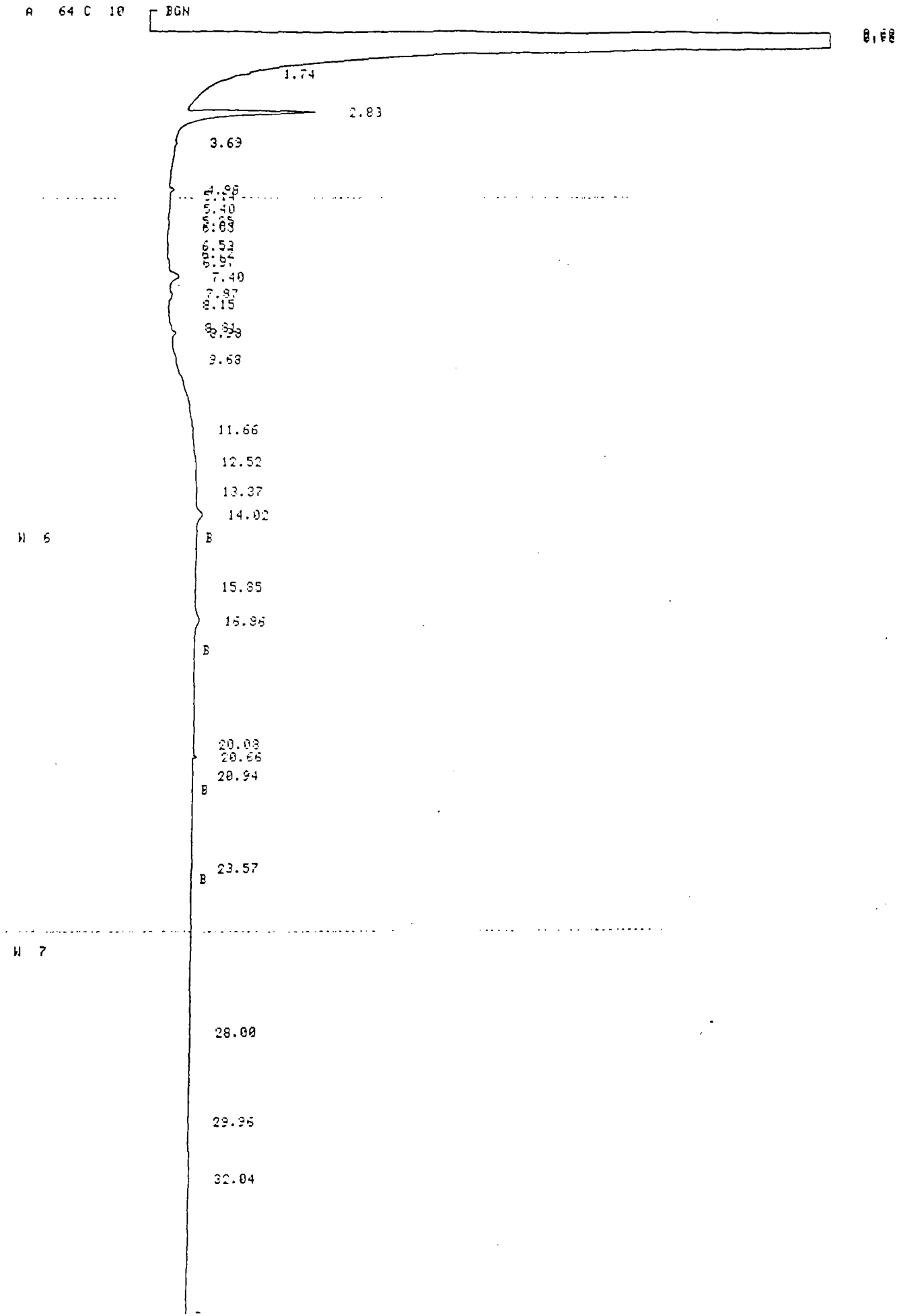
RT	AREA	BC	AREA %
2.75	66.4716	U	82.9825
7.34	3.8143	U	4.7572
8.97	0.9409	U	1.1735
11.68	3.6935	U	4.6064
14.03	2.4929	U	3.1091
16.88	1.2697		1.5835
32.13	0.8688	U	1.0836
33.74	0.6284		0.7837

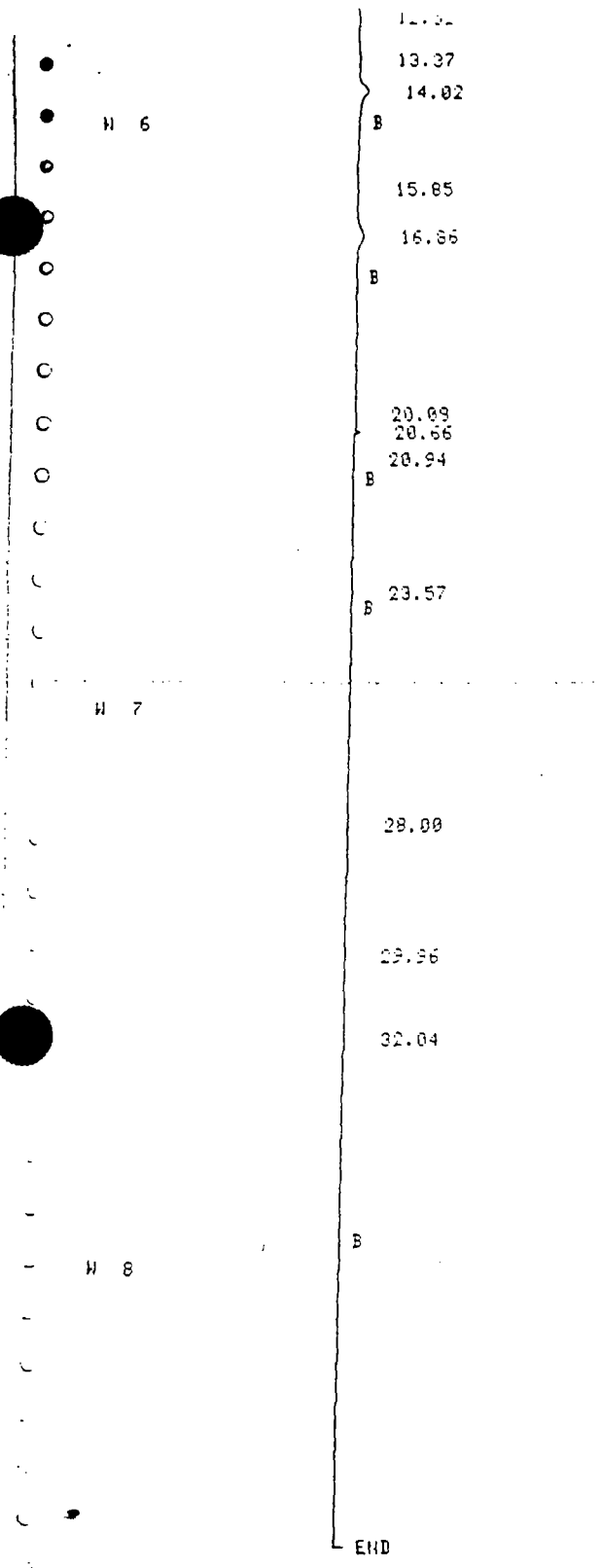
8 PEAKS > AREA/HT REJECT

RUN 7 20:41 93/06/30 8061495 1000:1 5λ

METHOD 3 PHENOLS 8040

A 64 C 10 BGN





8061495 p. 2

RUN 7 20:41 88/06/30

METHOD 3 PHENOLS 8040 CALCULATION: %

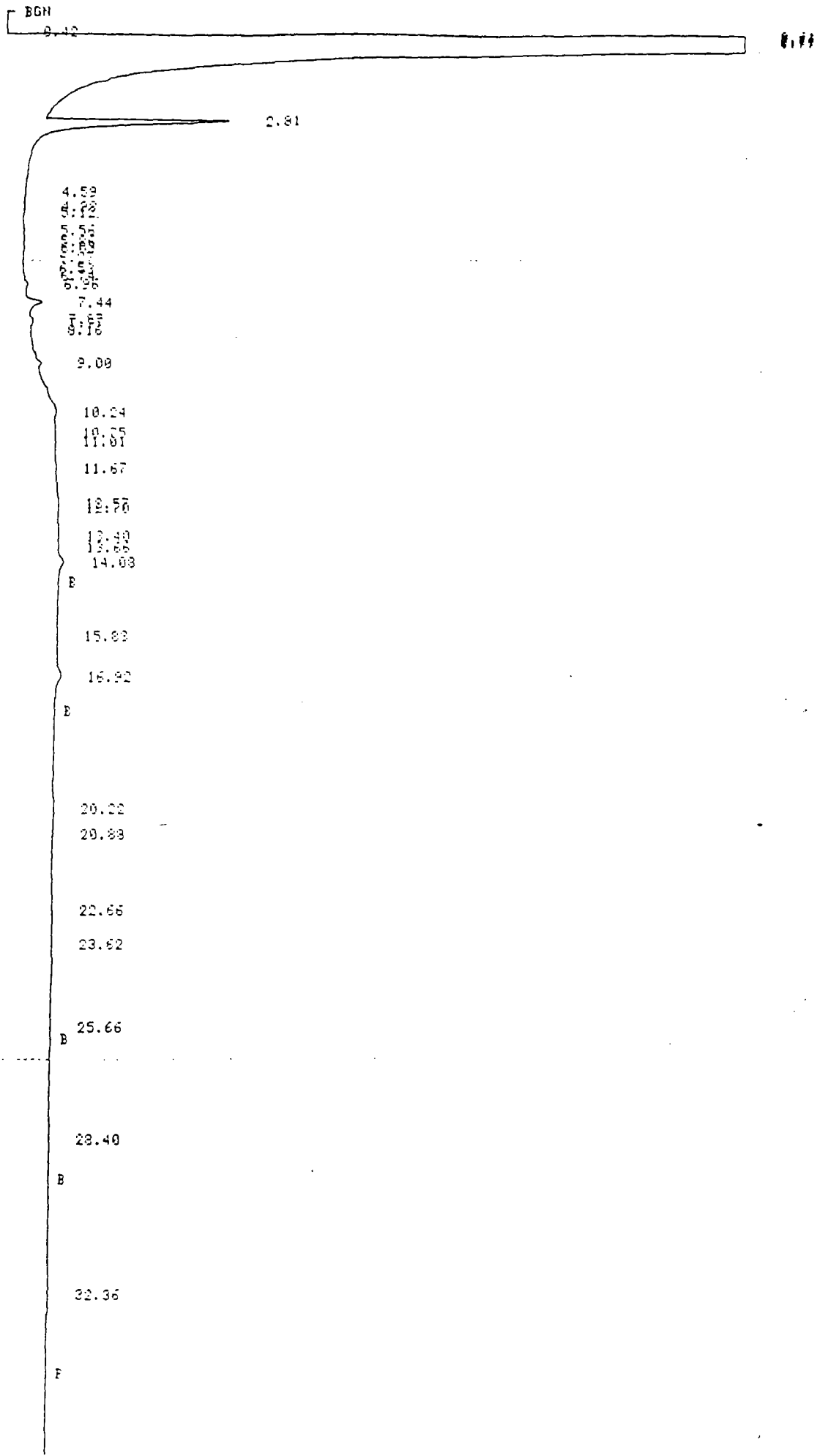
RT	AREA	BC	AREA %
0.69	1.4856	V	4.5886
2.83	19.7927	V	60.4684
7.40	2.4273	V	7.4158
7.67	0.5557	V	1.6978
8.98	0.5055	V	1.5445
11.66	3.8589	V	11.7893
14.02	1.7983		5.4942
16.86	1.5068		4.6034
32.04	0.8012		2.4477

9 PEAKS > AREA/HT REJECT

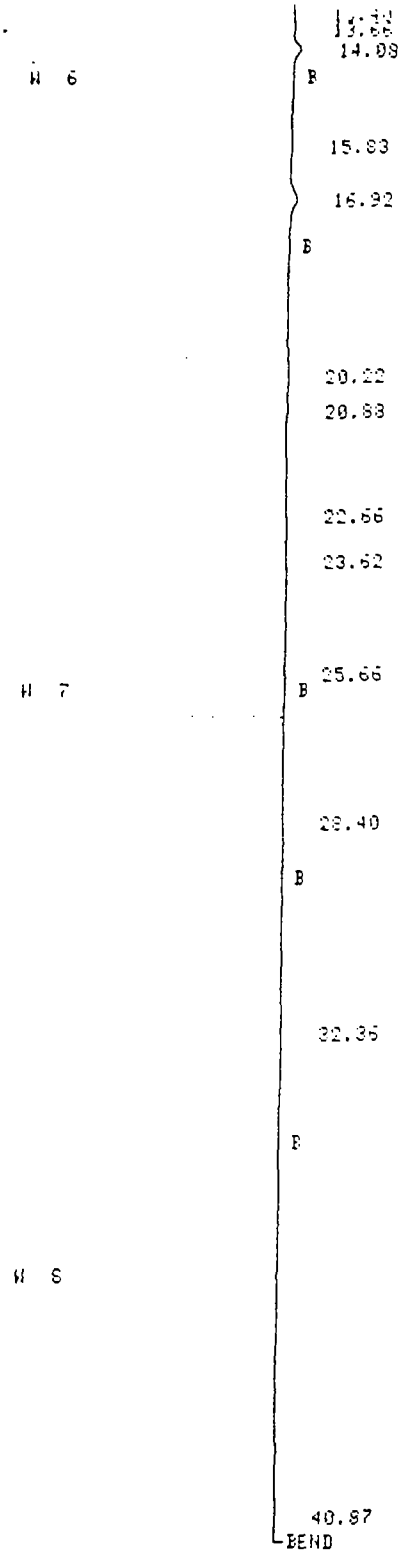
RUN 9 5:22 88/07/01 6061496 1000:1 5λ

METHOD 3 PHENOLS 8040

A 64 C 10 BGN



8061496 p. 2



RUN 9 6:22 88/07/01

METHOD 3 PHENOLS 8040 CALCULATION: %

RT	AREA	BC	AREA %
0.66	0.8188	V	2.3780
0.71	0.5416	V	1.5729
2.31	23.9747	V	69.3290
7.44	2.4275	V	7.0502
10.24	2.5686	V	7.4600
14.08	1.4613		4.2441
16.92	2.0803		6.0419
20.22	0.5590	V	1.6236

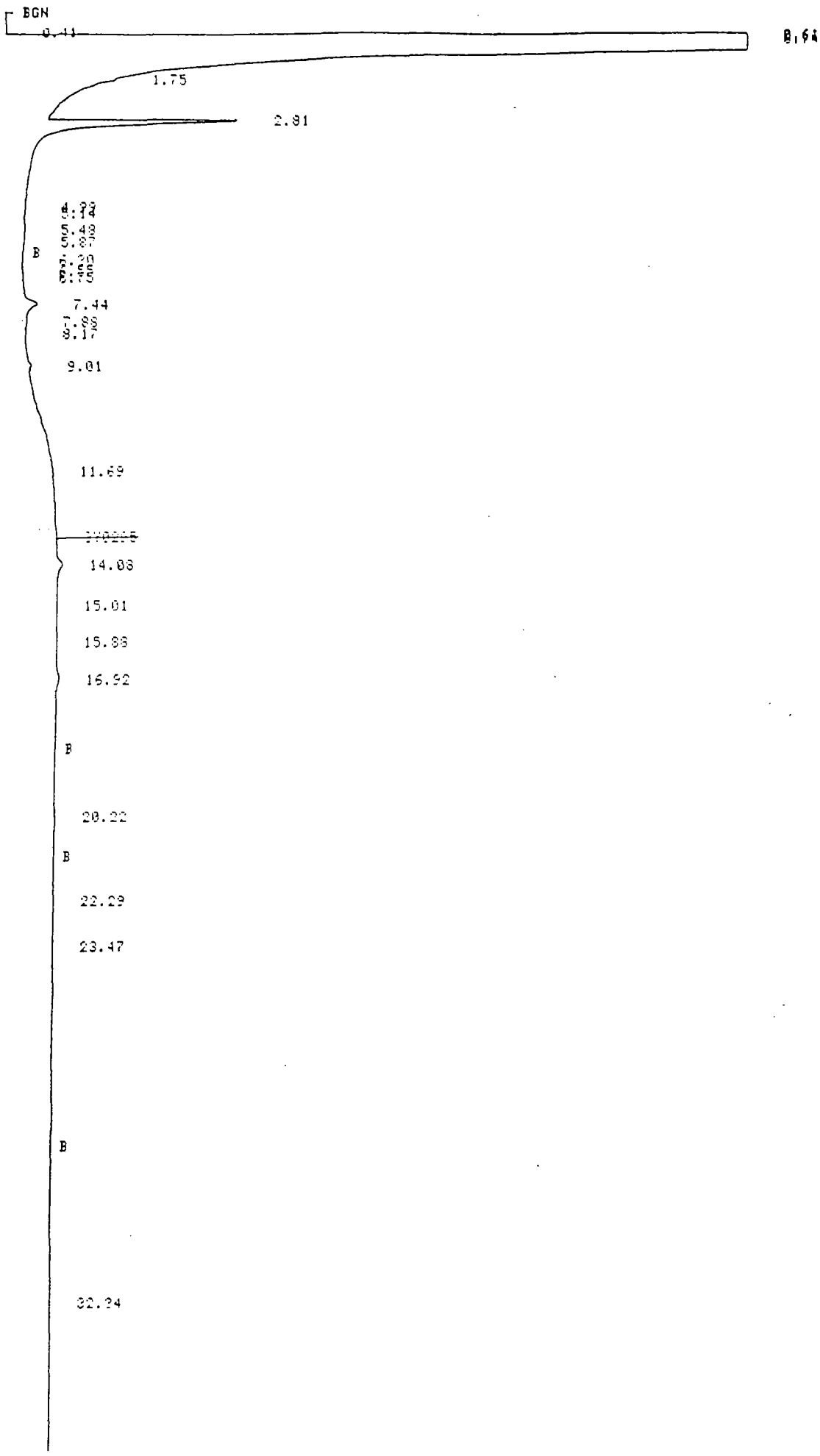
8 PEAKS > AREA/HT REJECT

[illegible] 4.8 λ

RUN 10 7:07 88/07/01 8061497 950:1 4.8 λ

METHOD 3 PHENOLS 8040

A 64 C 10 BGN



8061497 p. 2

	~~370295~~	
	14.08	
	15.01	
	15.88	
	16.92	
W 7	B	
	20.22	
	B	
	22.29	
	23.47	
	B	
W 8		
	32.34	
	B	
	END	

RUN 10 7:07 88/07/01

METHOD 3 PHENOLS 8040 CALCULATION: %

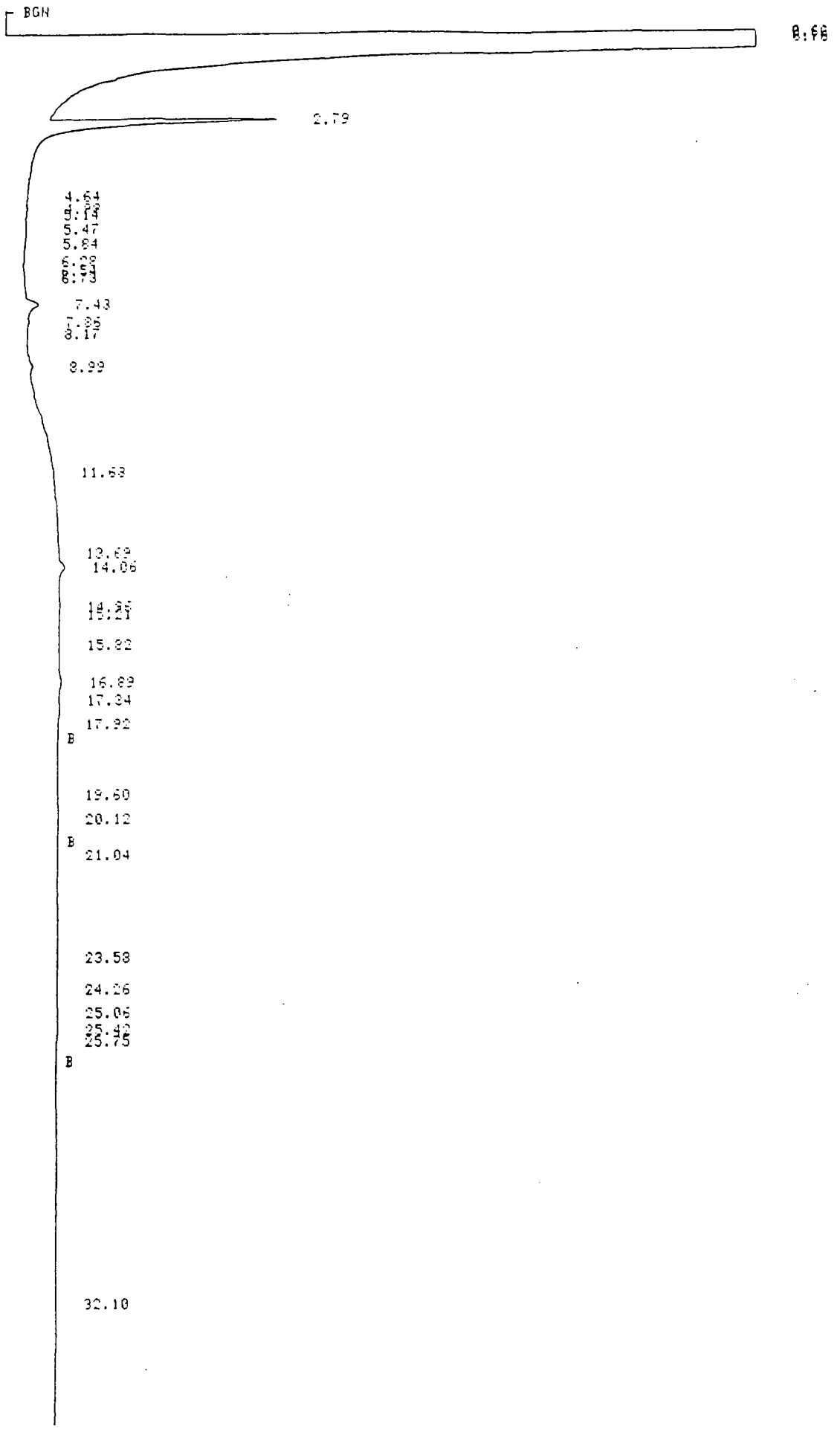
RT	AREA	BC	AREA %
2.81	20.8657	V	63.2545
7.44	2.5800	V	7.8214
11.69	2.7076	V	8.2083
13.36	0.8489	V	2.5737
14.08	1.5258	V	4.6255
16.92	1.5154		4.5941
23.47	0.5759		1.7456
32.34	2.3673		7.1764

8 PEAKS > AREA/HT REJECT

RUN 11 7:53 88/07/01 8061498 900:1 4.8λ

METHOD 3 PHENOLS 8040

A 64 C 10 BGN



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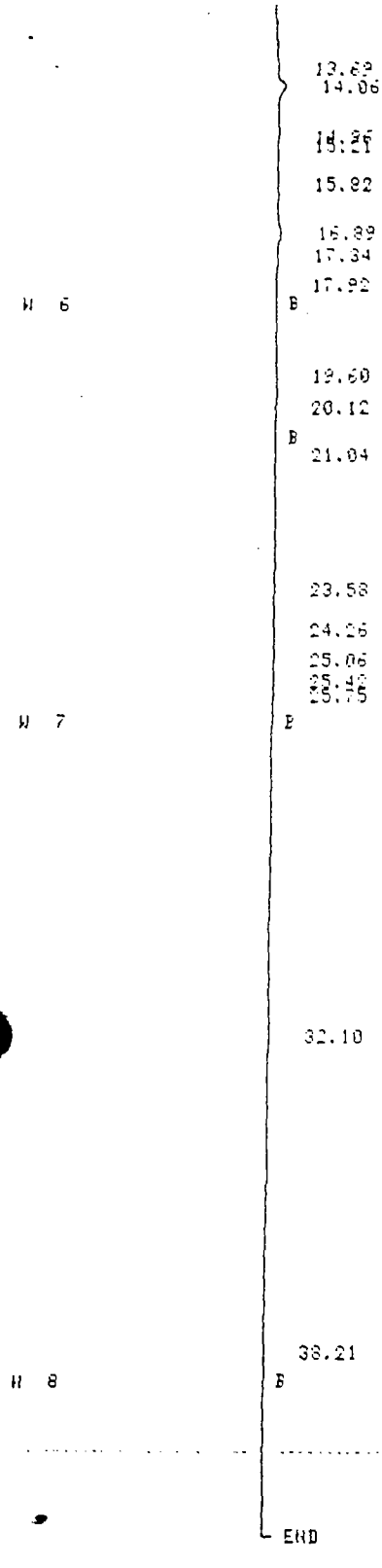


RUN 11 7:53 88/07/01

METHOD 3 PHENOLS 8040 CALCULATION: %

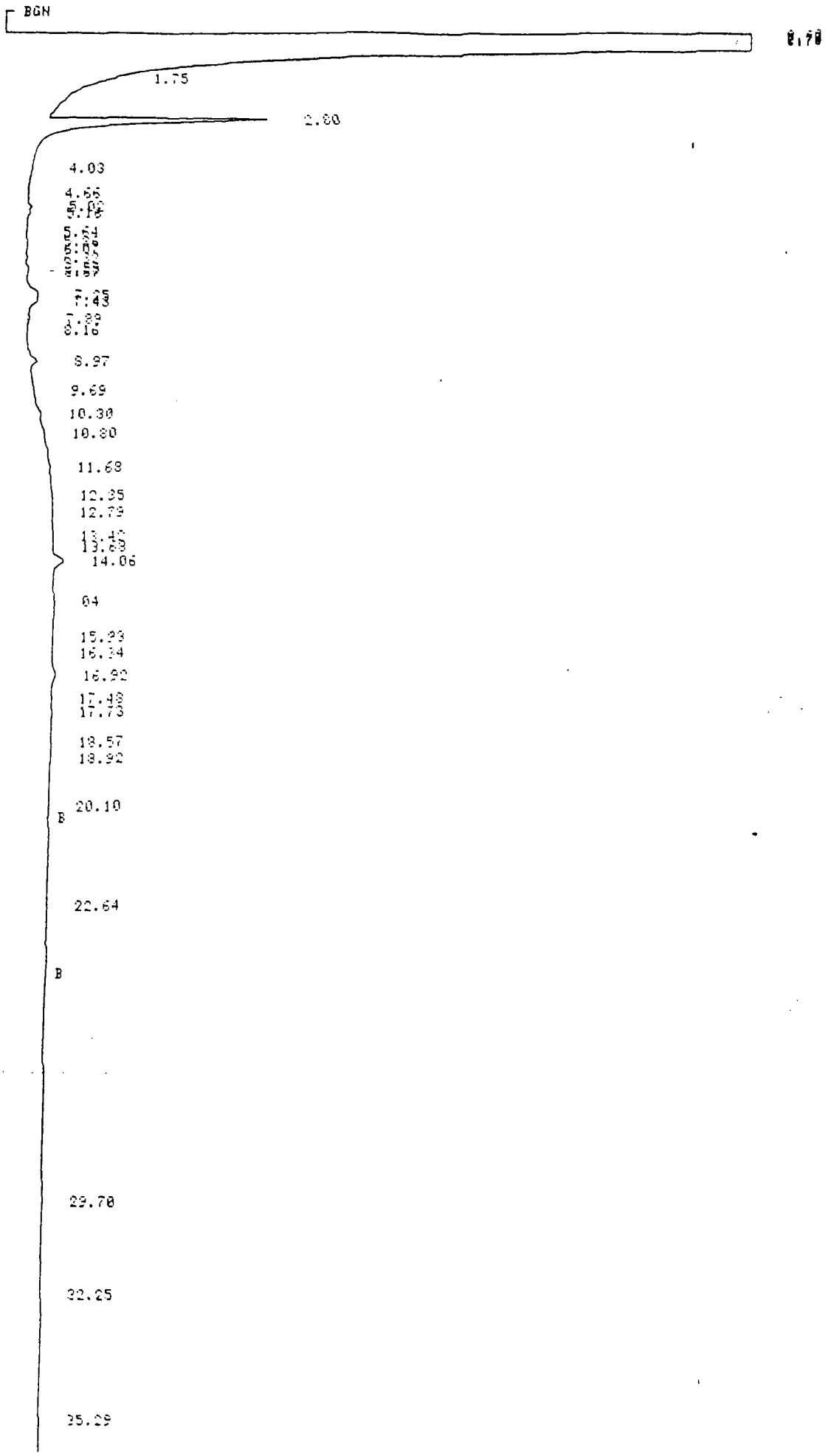
RT	AREA	BC	AREA %
2.79	27.4393	V	73.9974
7.43	2.4581	V	6.6287
8.99	0.5762	V	1.5539
11.68	2.1951	V	5.9195
13.69	1.2162	V	3.2797
14.06	1.6533	V	4.4586
16.89	0.9629	V	2.6504
32.10	0.5604	V	1.5114

8 PEAKS > AREA/HT REJECT

RUN 12 8:45 88/07/01 2061499 900:1 5λ

METHOD 3 PHENOLS 8040

A 64 C 10



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11.68
12.35
12.79
13.42
13.68
14.06
04
15.93
16.34
16.92
17.48
17.73
18.57
18.92
20.10
B
22.64
B
W 6
W 7
29.70
32.25
35.29
B
W 8
39.09
END

RUN 12 8:45 88/07/01

METHOD 3 PHENOLS 8040 CALCULATION: %

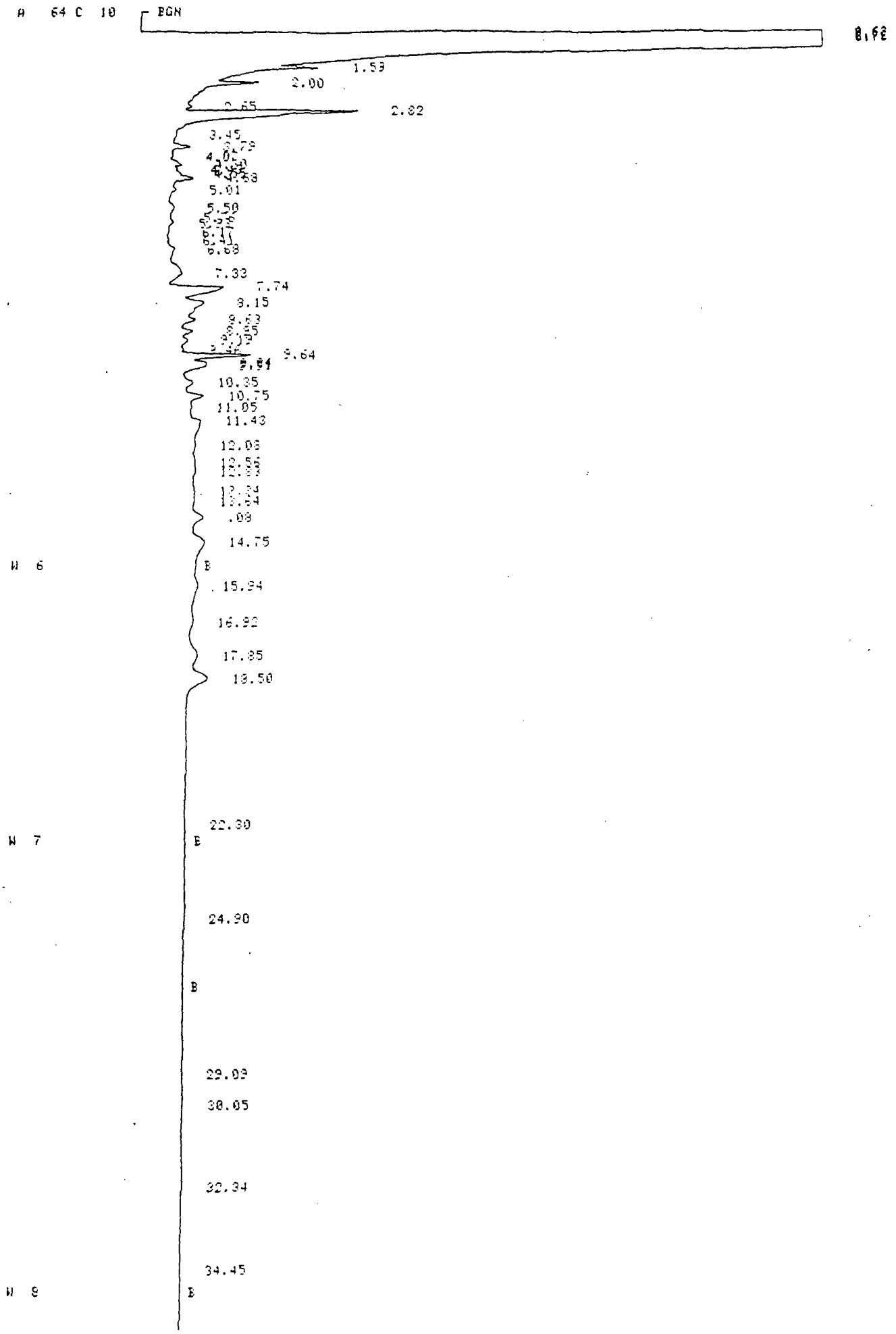
RT	AREA	BC	AREA %
0.70	1.5120	V	3.6932
2.80	31.6344	V	77.2710
7.25	0.5218	V	1.2747
8.97	1.4725	V	3.5969
11.68	0.7898	V	1.9292
14.06	2.7012	V	6.5981
16.92	1.3245	V	3.2354
32.25	0.9830	V	2.4012

8 PEAKS > AREA/HT REJECT

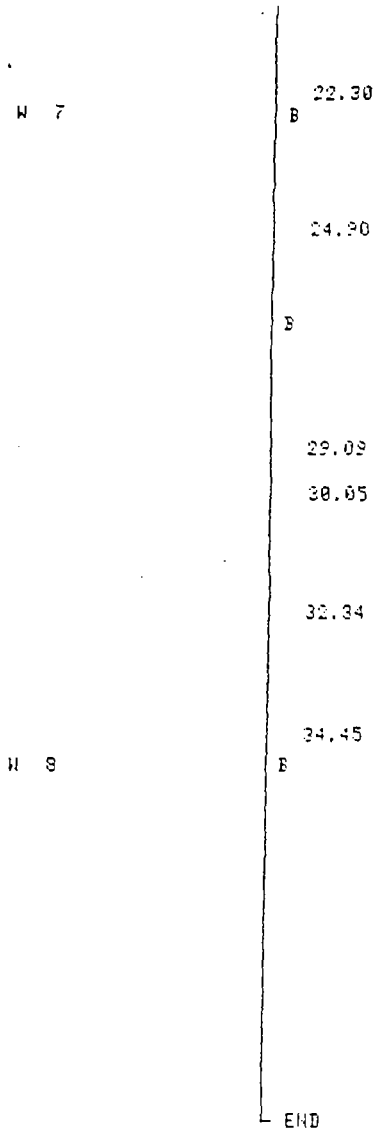
RUN 13 9:37 88/07/01 Z06 1500 950:1 4.71

METHOD 3 PHENOLS 8040

A 64 C 10 BGN



8061500 p.2



RUN 13 9:37 88/07/01

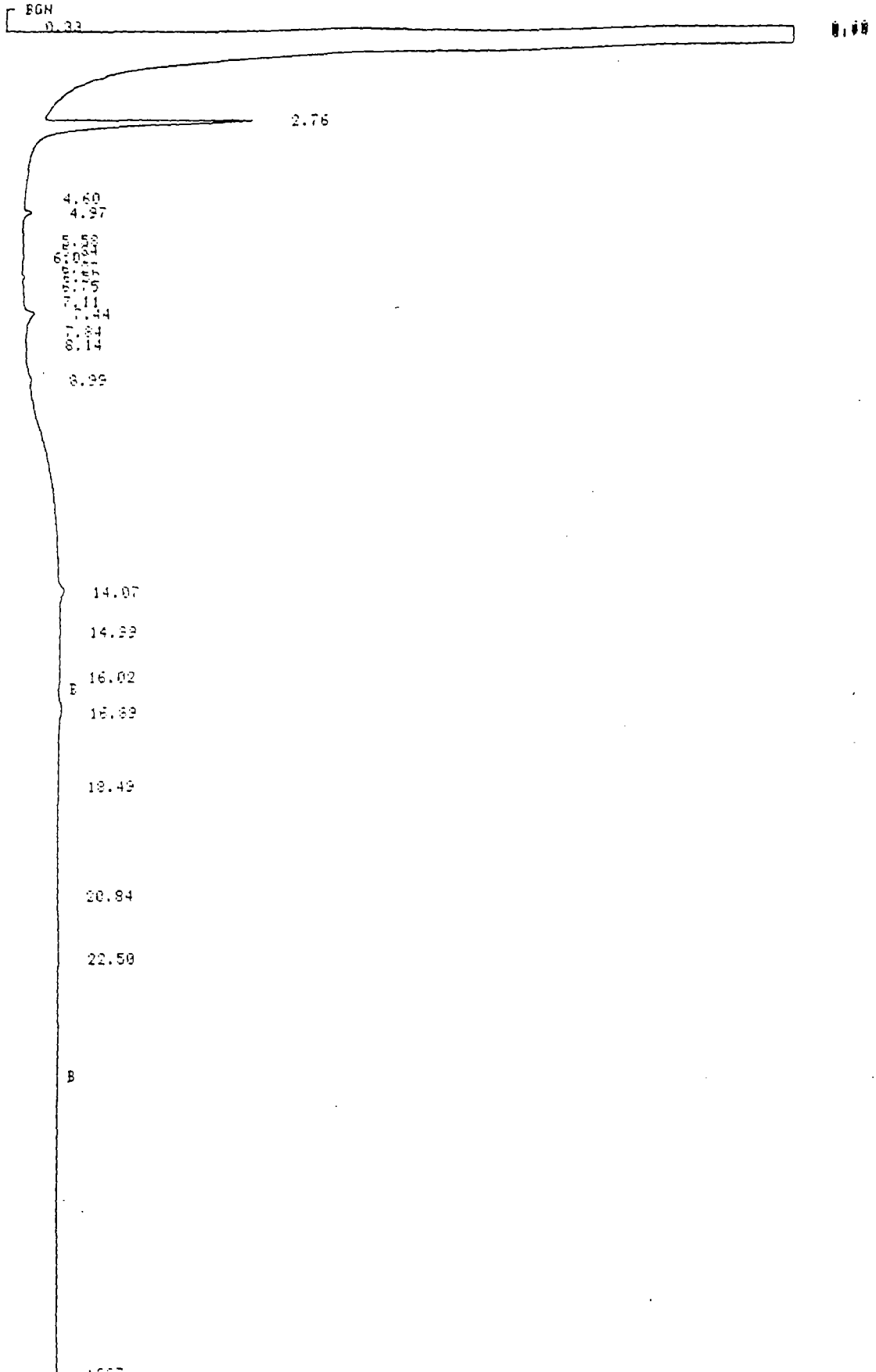
METHOD 3 PHENOLS 8040 CALCULATION: %

RT	AREA	BC	AREA %
0.67	0.6136	V	0.6405
1.59	2.2744	V	2.3744
2.00	2.1034	V	2.2021
2.82	32.2415	V	33.6597
3.79	1.9852	V	2.0725
4.30	1.0695	V	1.1166
4.68	1.5894	V	1.6593
5.50	1.1432	V	1.1935
5.93	0.5538	V	0.5781
6.68	1.3956	V	1.4570
7.33	4.4978	V	4.6956
7.74	10.0598	V	10.5023
8.15	4.7575	V	4.9667
8.63	1.1780	V	1.2298
8.95	1.4354	V	1.4985
9.19	0.9117	V	0.9518
9.64	6.6446	V	6.9369
10.35	1.4766	V	1.5415
10.75	2.2949	V	2.3959
11.42	3.2920	V	3.3749
14.08	2.6281	V	2.7437
14.75	4.9723		5.1910
15.94	1.9355	V	2.0206
16.92	0.8485	V	0.8858
17.85	2.3179	V	2.4198
24.90	0.8494		0.8868
32.34	0.7695	V	0.8034

27 PEAKS > APEAK/AT REJECT

METHOD 3 PHENOLS 8040

A 64 C 10

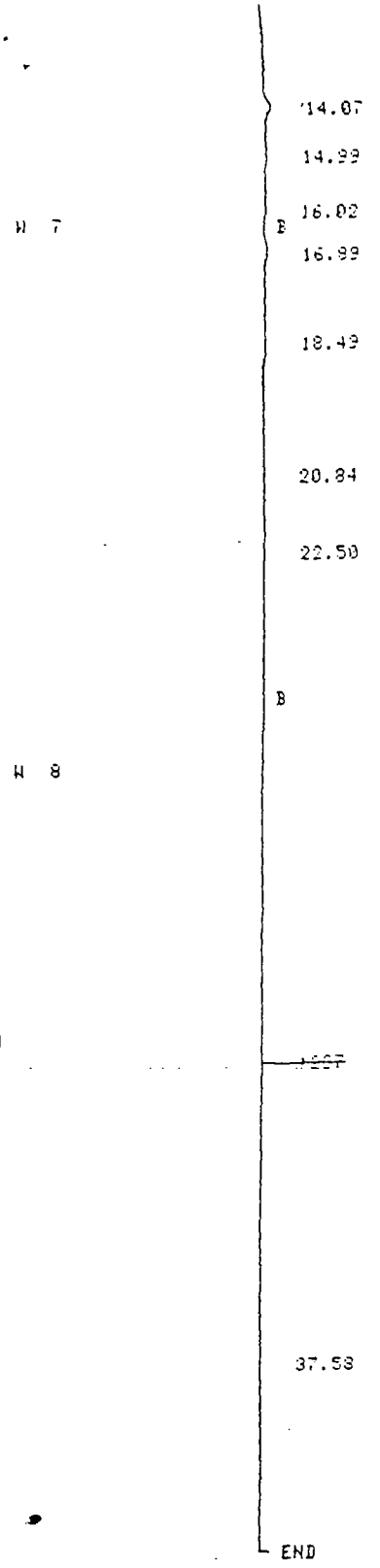


W 6

W 7

W 8

8061622 p.2



RUN 14 10:21 88/07/01

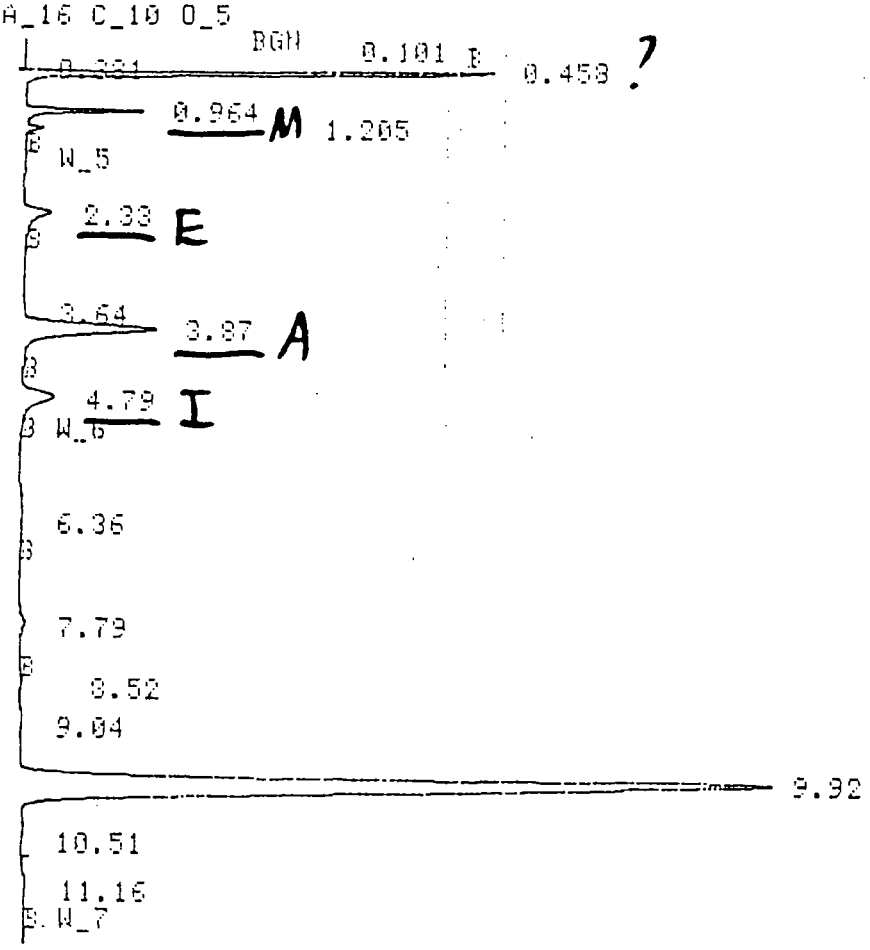
METHOD 3 PHENOLS 8040 CALCULATION: %

RT	AREA	BC	AREA %
0.66	1.0844	U	1.9026
2.76	23.7838	U	41.7299
4.97	0.9176	U	1.6100
7.44	1.8197	U	3.1928
14.07	27.5591	U	48.3539
16.89	0.9382	U	1.6461
22.50	0.8916		1.5644

7 PEAKS > AREA/RT REJECT

ILE 80 RUN 4 STARTED 08:28.4 80/01/10 WAHLER 6/23
METHOD 2 ALCOH./ACETONE LAST EDITED 06:18.4 80/01/10

A_16 C_10 O_5



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WAHLER
ALCOHOL/ACETONE
3061491-3061522
6/24/88
BB

ILE 80 RUN 4 STARTED 08:28.4 80/01/10 WAHLER 6/23
METHOD 2 ALCOH./ACETONE LAST EDITED 06:18.4 80/01/10

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
.101	463	0.0916		0.0342	0.0549
.381	1982	0.5229	V	0.1462	0.3138
.458	175436	50.3777	T	12.9419	30.2322
.964	42695	12.3734	T	3.1496	7.4254
.205	7168	1.8800		0.5288	1.1282
.33	24531	2.8002		1.8097	1.6804
.64	2133	0.2903	T	0.1574	0.1742
.87	132913	14.1390		9.8050	8.4850
.79	40061	3.4341		2.9553	2.0600
.36	6202	0.2862		0.4575	0.1717
.79	6935	0.5784		0.5116	0.3471
.52	1832	0.1711	V	0.1351	0.1027
.04	2859	0.2105	T	0.2109	0.1263
.92	904088	79.0516	T	66.6946	47.4397
.51	1441	0.1013	V	0.1063	0.0600
.16	4825	0.3277		0.3559	0.1966

16 PEAKS > AREA REJECT 1355564 TOTAL AREA
16 PEAKS > HEIGHT REJECT 166.6353 TOTAL HEIGHT

PEAKS > HEIGHT REJECT 100.0000 TOTAL HEIGHT

E 81 RUN 5 STARTED 08:47.1 80/01/10 WAHLER 6/23
ETHOD 2 ALCOH./ACETONE LAST EDITED 06:18.4 80/01/10

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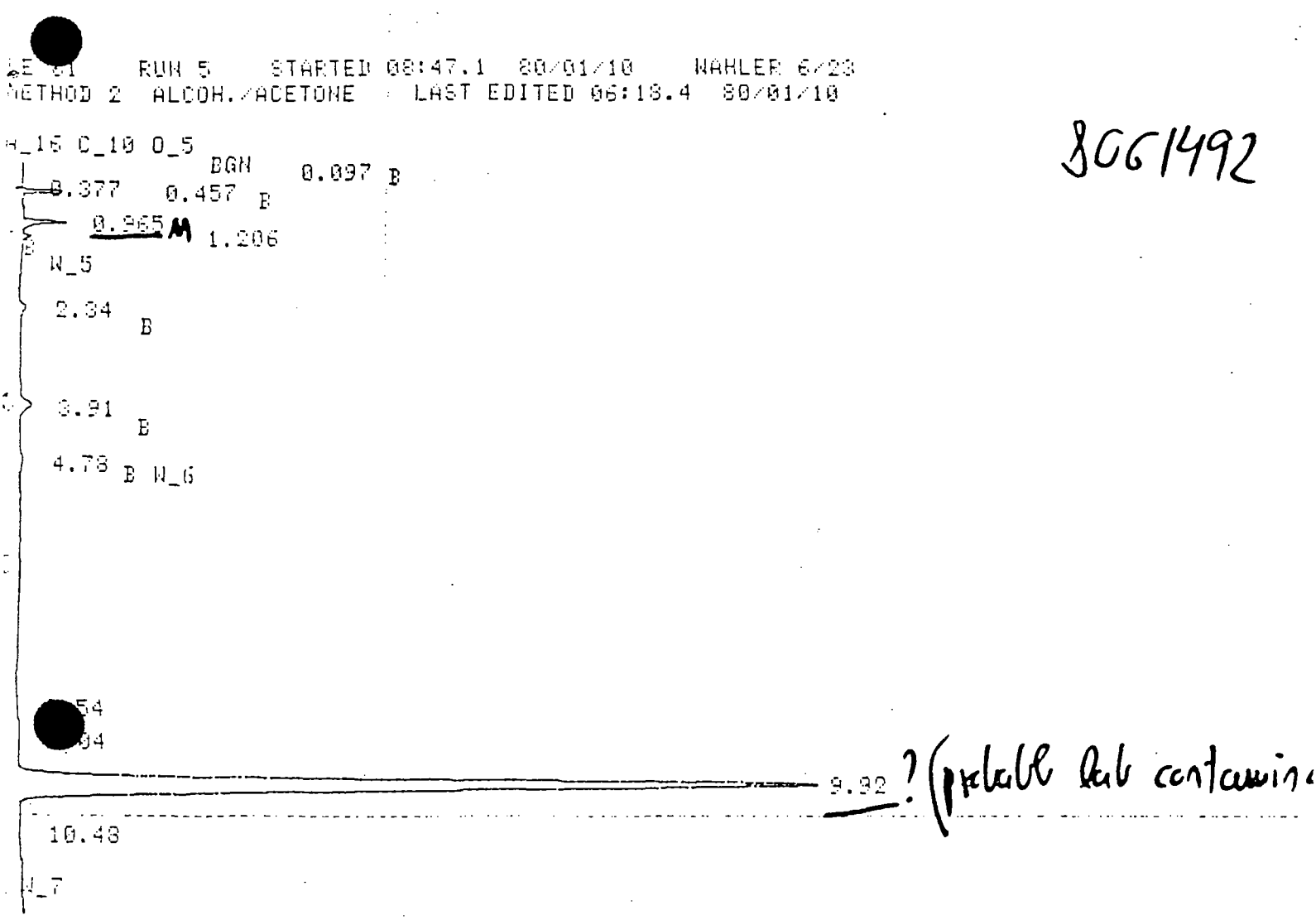

E 81 RUN 5 STARTED 08:47.1 80/01/10 WAHLER 6/23
ETHOD 2 ALCOH./ACETONE LAST EDITED 06:18.4 80/01/10

T	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
97	458	0.0963		0.0371	0.0823
77	2064	0.5056	V	0.1673	0.4322
57	21352	5.8662		1.7304	5.0147
55	21370	5.5223	T	1.7319	4.7208
06	4233	1.1525		0.3431	0.9852
4	7015	0.8055		0.5685	0.6886
1	16913	1.3946		1.3707	1.1922
3	4207	0.4035		0.3409	0.3449
4	1117	0.1045	V	0.0905	0.0894
4	2401	0.1445	T	0.1946	0.1235
2	1151996	100.9092	T	93.3601	86.2628
	803	0.0742	V	0.0651	0.0634

PEAKS > AREA REJECT 1233927 TOTAL AREA
PEAKS > HEIGHT REJECT 116.9738 TOTAL HEIGHT

ILE 83 RUN 7 STARTED 09:24.7 80/01/10 WAHLER 6/23
METHOD 2 ALCOH./ACETONE LAST EDITED 06:18.4 80/01/10

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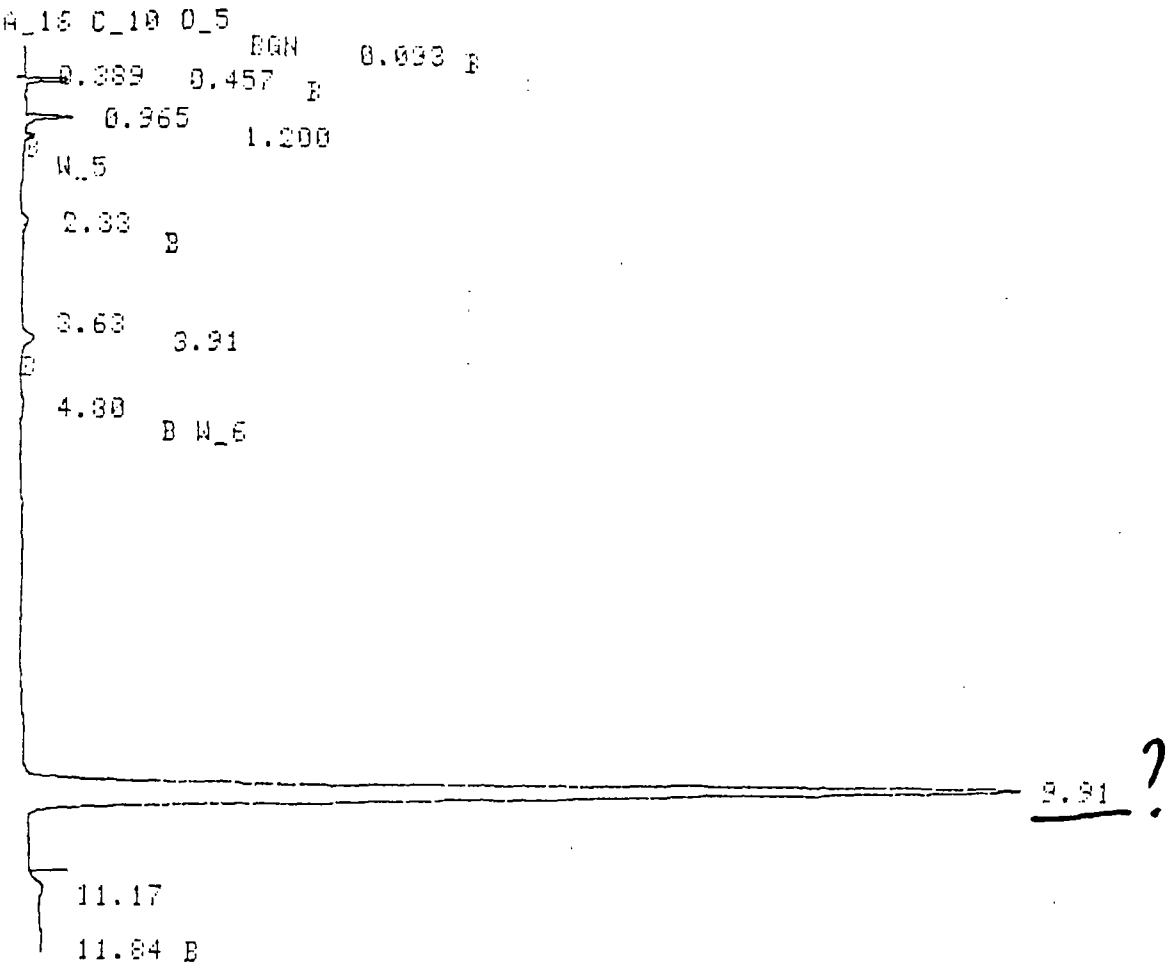

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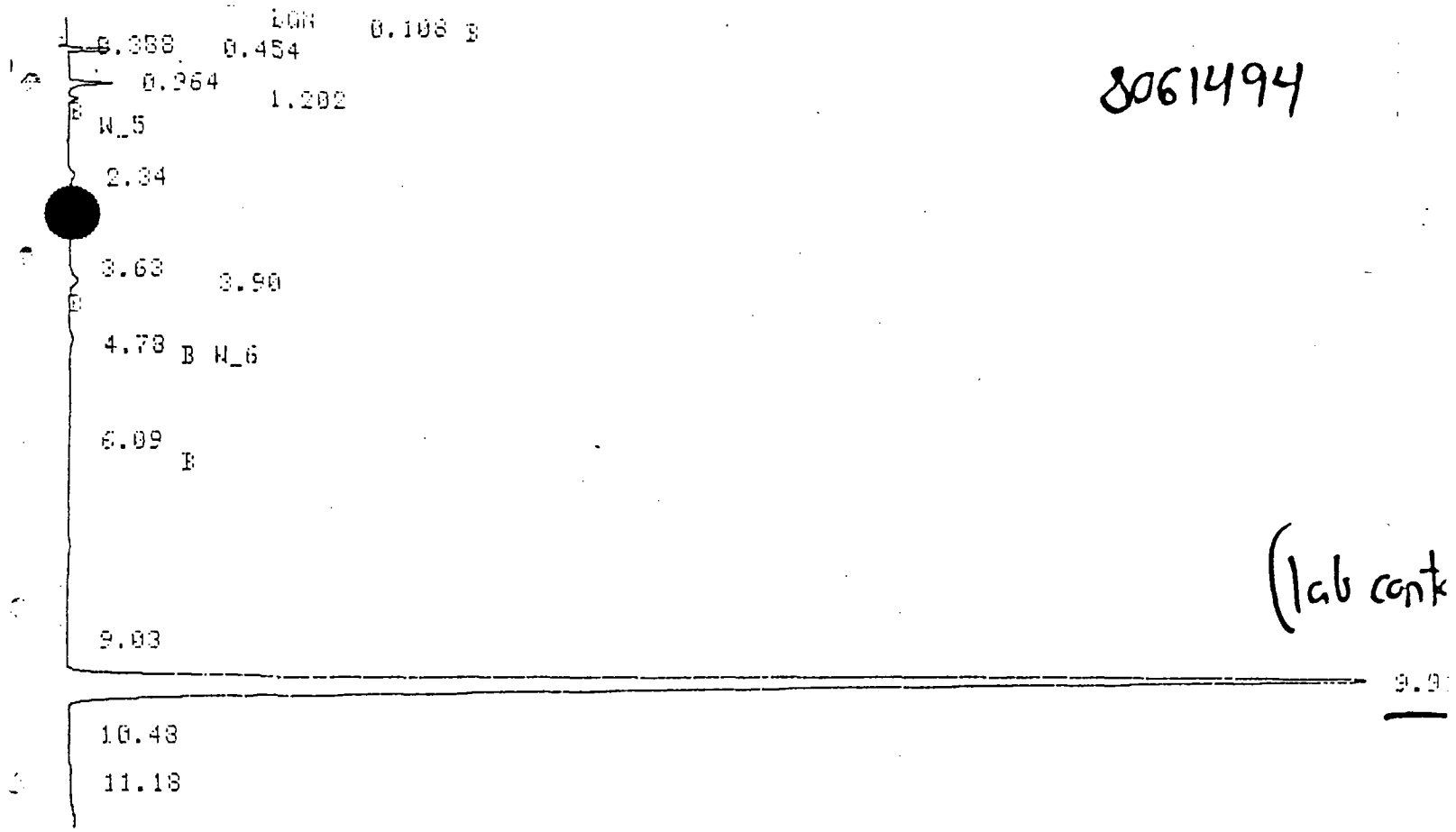
ILE 83 RUN 7 STARTED 09:24.7 80/01/10 WAHLER 6/23
METHOD 2 ALCOH./ACETONE LAST EDITED 06:18.4 80/01/10

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
093	610	0.1275		0.0471	0.1054
389	2066	0.6114	V	0.1595	0.5054
457	19240	5.1949		1.4853	4.2937
965	18542	5.1175	T	1.4314	4.2298
200	4270	1.1740		0.3297	0.9703
33	6961	0.7933		0.5374	0.6557
63	1459	0.1845	T	0.1126	0.1525
91	14987	1.3572		1.1570	1.1217
30	4462	0.4190		0.3445	0.3463
91	1193205	104.5479	T	92.1122	86.4115
47	19970	1.1488	T	1.5416	0.9495
84	9610	0.3124		0.7419	0.2582

12 PEAKS > AREA REJECT 1295383 TOTAL AREA
12 PEAKS > HEIGHT REJECT 120.9884 TOTAL HEIGHT

ILE 85 RUN 3 STARTED 10:02.1 80/01/10 WAHLER 6/23
METHOD 2 ALCOH./ACETONE LAST EDITED 06:18.4 80/01/10

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
.104	432	0.0884		0.4373	0.4356
	1828	0.5354		1.8416	2.7950



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FILE 84 RUN 8 STARTED 09:43.4 80/01/10 WAHLER 6/23
METHOD 2 ALCOH./ACETONE LAST EDITED 06:18.4 80/01/10

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
0.108	491	0.1022		0.0268	0.0601
0.388	1887	0.5721	V	0.1029	0.3367
0.454	20500	5.8788	T	1.1183	3.4597
0.964	19028	5.1735	T	1.0380	3.0446
1.202	3785	1.1158		0.2065	0.6567
2.34	7807	0.8095		0.4259	0.4764
3.68	1687	0.1952	T	0.0920	0.1149
3.90	11877	1.0492		0.6479	0.6175
4.78	4110	0.3819		0.2242	0.2248
6.09	1770	0.1147		0.0966	0.0675
9.03	1191	0.0980	T	0.0649	0.0577
9.91	1757081	154.1614	T	95.8489	90.7243
10.48	1547	0.1207	V	0.0844	0.0710
11.18	417	0.1499	V	0.0227	0.0882

14 PEAKS > AREA REJECT 1833177 TOTAL AREA
14 PEAKS > HEIGHT REJECT 169.9230 TOTAL HEIGHT

FILE 85 RUN 9 STARTED 10:02.1 80/01/10 WAHLER 6/23
METHOD 2 ALCOH./ACETONE LAST EDITED 06:18.4 80/01/10

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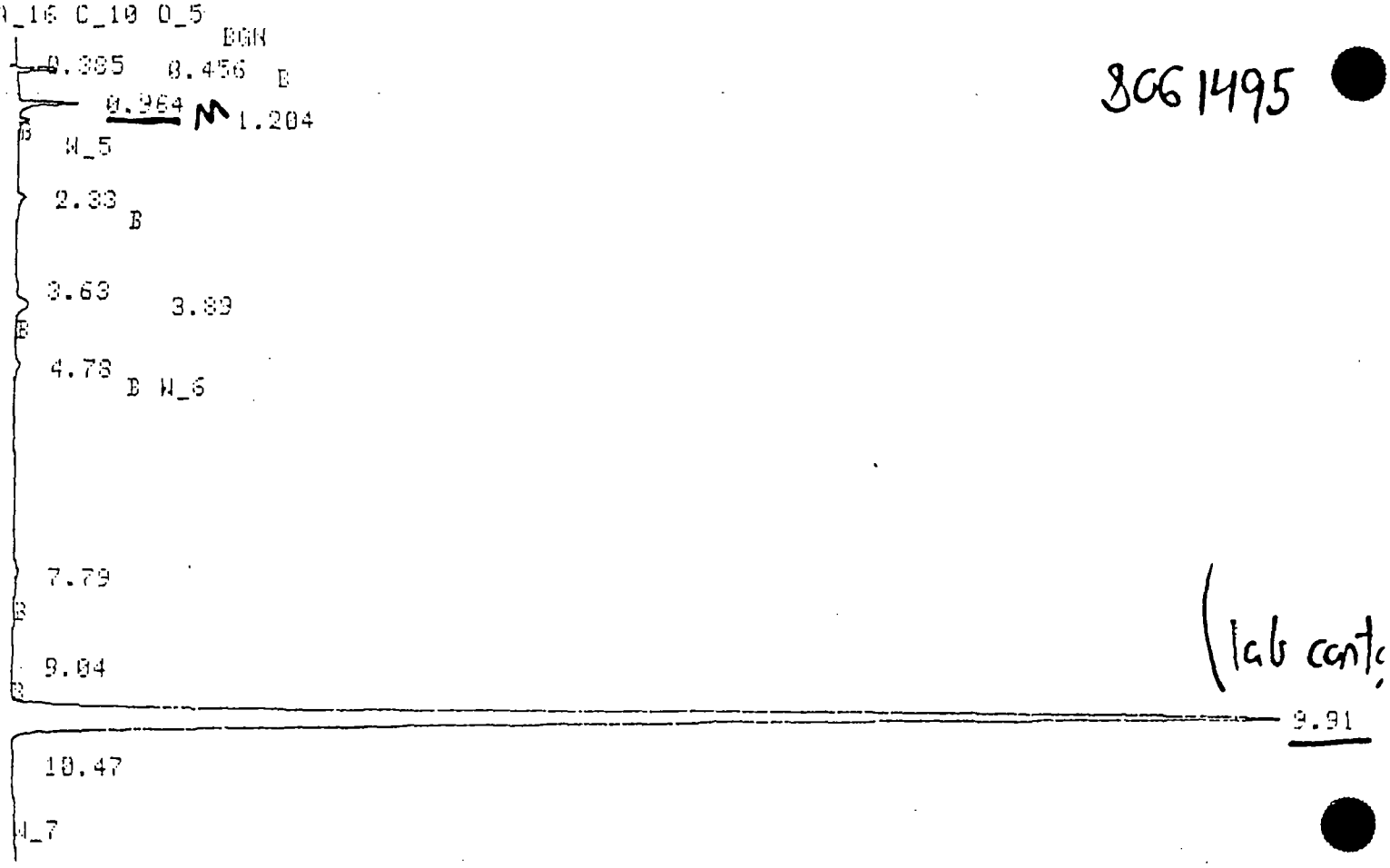
FILE 86 RUN 10 STARTED 10:20.9 80/01/10 WAHLER 6/23
METHOD 2 ALCOH./ACETONE LAST EDITED 06:18.4 80/01/10

4 A_16 C_10 O_5



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FILE 86 RUN 10 STARTED 10:20.9 80/01/10 WAHLER 6/23
METHOD 2 ALCOH./ACETONE LAST EDITED 06:18.4 80/01/10

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
0.385	2560	0.6282	V	0.1450	0.3814
0.456	19854	5.3574		1.1246	3.2525
0.964	25853	7.0214	T	1.4644	4.2627
1.204	4590	1.2411		0.2600	0.7535
2.33	8915	1.0096		0.5050	0.6129
3.63	1079	0.1536	T	0.0611	0.0933
3.89	16953	1.6007		0.9603	0.9718
4.78	6016	0.5499		0.3407	0.3338
7.79	7554	0.4383		0.4279	0.2661
9.04	775	0.0730		0.0439	0.0443
9.91	1669651	146.5095	T	94.5752	88.9467
10.47	1622	0.1334	V	0.0919	0.0810

12 PEAKS > AREA REJECT 1765422 TOTAL AREA
12 PEAKS > HEIGHT REJECT 164.7161 TOTAL HEIGHT

FILE 87 RUN 11 STARTED 10:39.6 80/01/10 WAHLER 6/23
METHOD 2 ALCOH./ACETONE LAST EDITED 06:18.4 80/01/10

88 RUN 12 STARTED 10:58.4 80/01/10 WAHLER 6/23
THOD 2 ALCOH./ACETONE LAST EDITED 06:18.4 80/01/10

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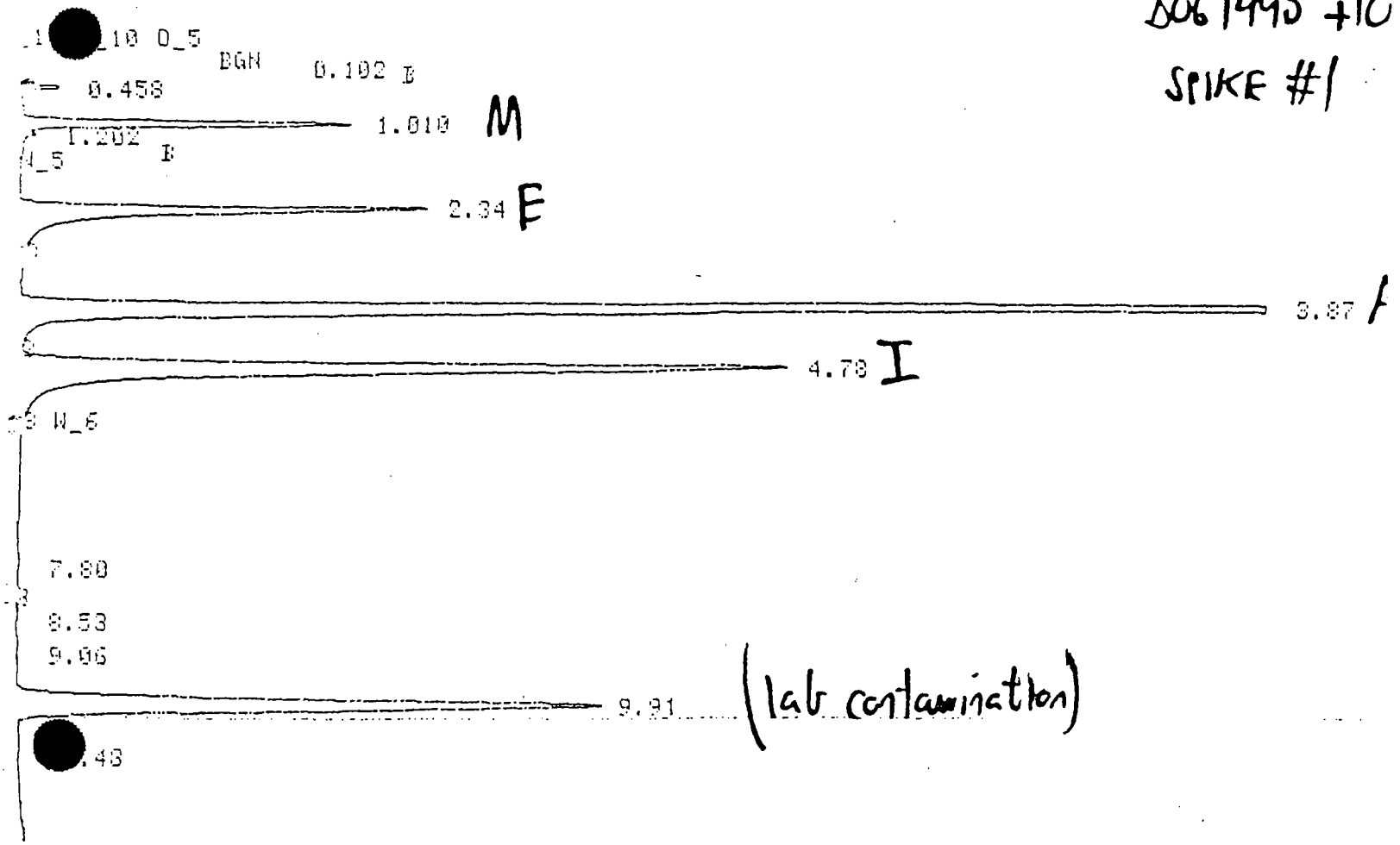
SPIKE #1



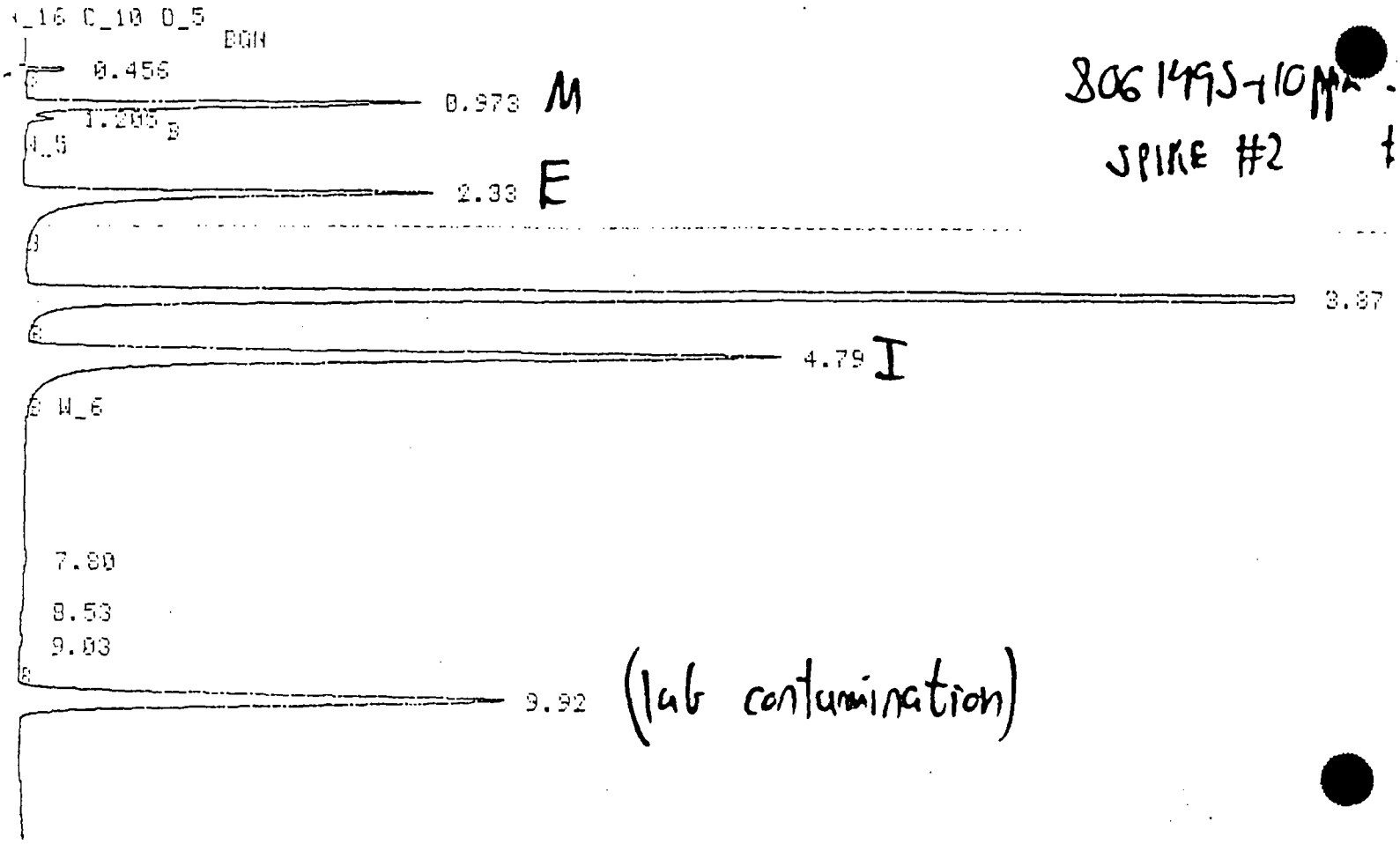
E 88 RUN 12 STARTED 10:58.4 80/01/10 WAHLER 6/23
ETHOD 2 ALCOH./ACETONE LAST EDITED 06:18.4 80/01/10

T	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
.02	537	0.1115		0.0122	0.0235
58	21481	5.2762	T	0.4896	1.1104
10	237761	40.0231	T	5.4190	8.4229
02	8056	1.6653		0.1836	0.3505
84	433206	49.6754		9.8736	10.4542
7	1779492	213.7756		40.5581	44.9892
78	1087478	92.9730		24.7858	19.5662
0	4216	0.3248		0.0961	0.0684
3	1263	0.1067	V	0.0288	0.0224
6	1555	0.1168	T	0.0355	0.0246
1	811086	71.0295	T	18.4862	14.9482
8	1381	0.0929	V	0.0315	0.0195

2 PEAKS > AREA REJECT 4387511 TOTAL AREA
2 KS > HEIGHT REJECT 475.1707 TOTAL HEIGHT

80/01/10 WAHLER 6/23

LE 90 RUN 14 STARTED 11:35.9 80/01/10 WAHLER 6/23
METHOD 2 ALCOH./ACETONE LAST EDITED 06:18.4 80/01/10

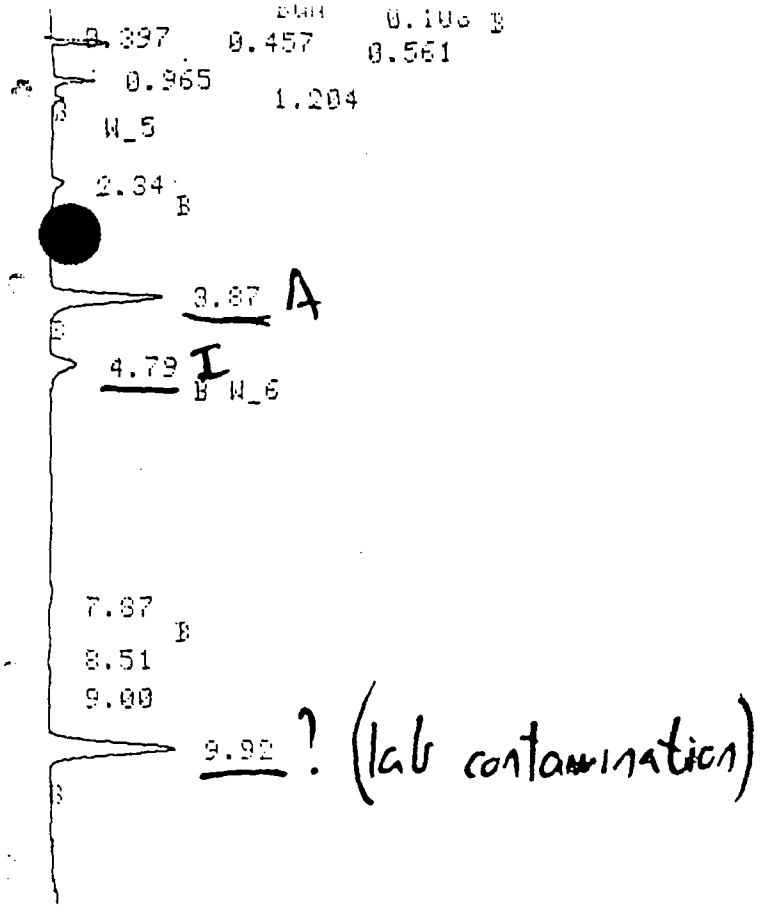


ILE 90 RUN 14 STARTED 11:35.9 80/01/10 WAHLER 6/23
METHOD 2 ALCOH./ACETONE LAST EDITED 06:18.4 80/01/10

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
.456	19605	5.3149		0.4592	1.1360
.973	283098	47.1312	T	6.6314	10.0740
.205	15185	3.4317		0.3557	0.7335
.33	438430	48.9724		10.2700	10.4675
.87	1786499	214.3454		41.8478	45.8148
.79	1050918	89.8894		24.6172	19.2132
.80	9936	0.4585	T	0.2327	0.0980
.53	2590	0.2005	V	0.0607	0.0429
.03	3289	0.2465		0.0770	0.0527
.92	659487	57.8610	T	15.4481	12.3674

10 PEAKS > AREA REJECT 4269035 TOTAL AREA
10 PEAKS > HEIGHT REJECT 467.8515 TOTAL HEIGHT

ILE 91 RUN 15 STARTED 11:54.6 80/01/10 WAHLER 6/23
METHOD 2 ALCOH./ACETONE LAST EDITED 06:18.4 80/01/10



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ILE 91 RUN 15 STARTED 11:54.6 80/01/10 WAHLER 6/23
METHOD 2 ALCOH./ACETONE LAST EDITED 06:18.4 80/01/10

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
.108	520	0.0986		0.1485	0.2038
.397	1705	0.6302	V	0.4868	1.4943
.457	21933	6.5371	T	6.2622	15.4990
.561	2752	0.5344	T	0.7858	1.2671
.965	15234	4.3288	T	4.3495	10.2633
.204	3869	1.1163		1.1047	2.6467
.34	11714	1.3551		3.3446	3.2129
.87	133154	11.6240		38.0708	27.5598
.79	31068	2.7184		8.8705	6.4453
.87	2101	0.1290		0.5999	0.3059
.51	913	0.0769	V	0.2607	0.1824
.00	1390	0.1006	T	0.3967	0.2384
.92	148889	12.9278		42.5104	30.6511

13 PEAKS > AREA REJECT 350242 TOTAL AREA
13 PEAKS > HEIGHT REJECT 42.1772 TOTAL HEIGHT

LE RUN 16 STARTED 12:13.4 80/01/10 WAHLER 6/23
METHOD 2 ALCOH./ACETONE LAST EDITED 06:18.4 80/01/10

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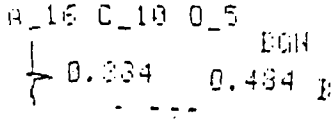

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ILE 93 RUN 17 STARTED 12:32.1 80/01/10 WAHLER 6/23
METHOD 2 ALCOH./ACETONE LAST EDITED 06:18.4 80/01/10

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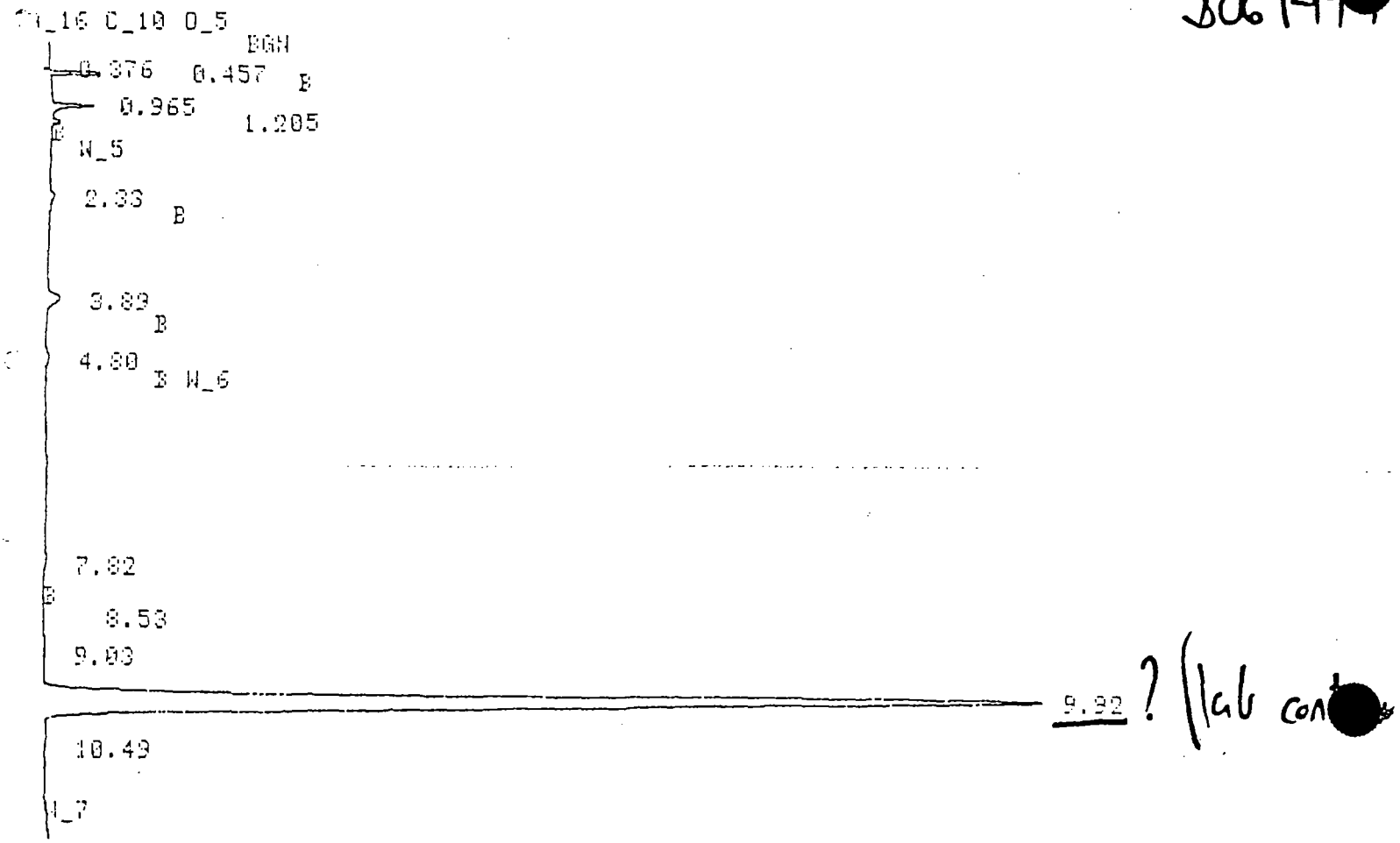

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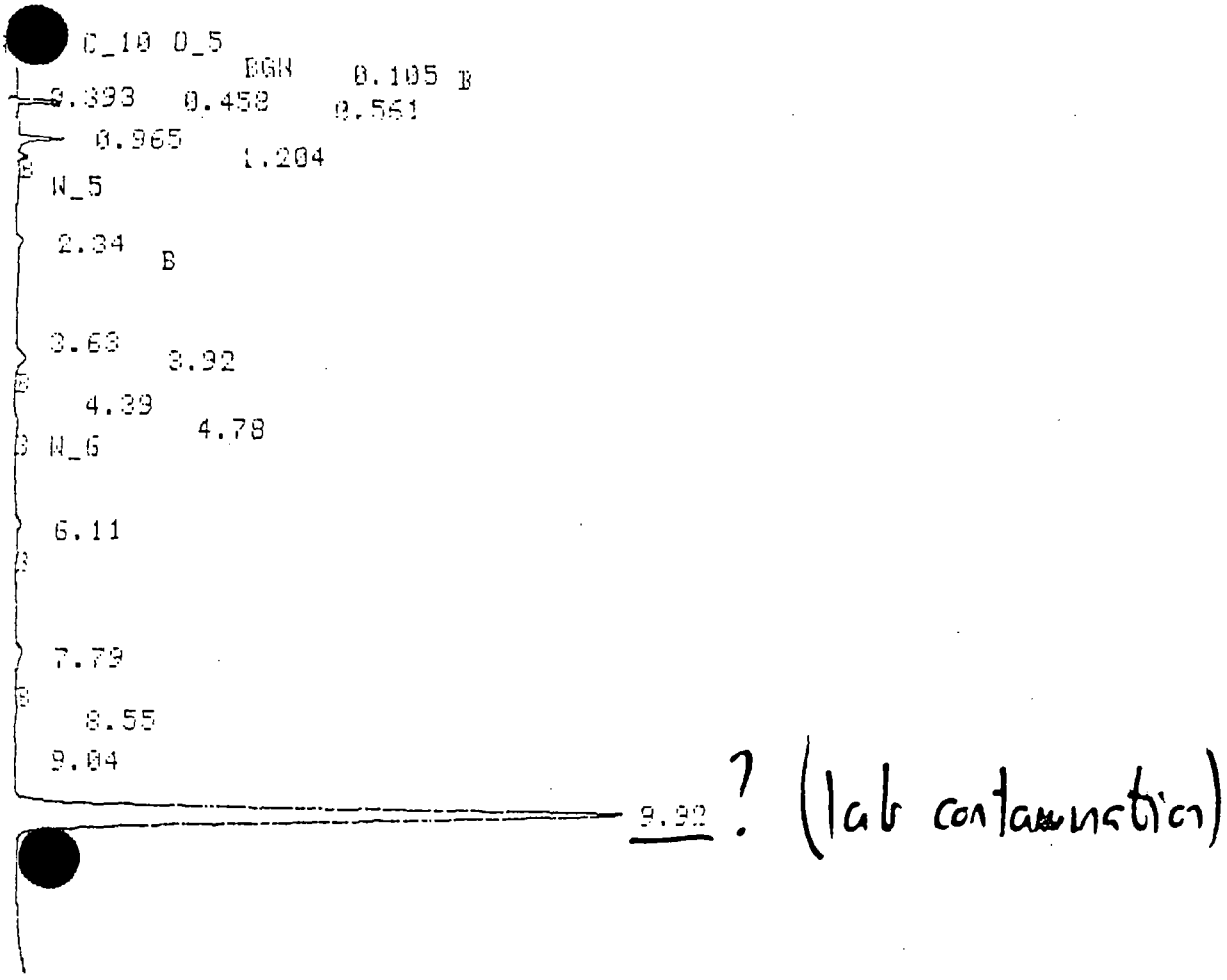
ILE 93 RUN 17 STARTED 12:32.1 80/01/10 WAHLER 6/23
METHOD 2 ALCOH./ACETONE LAST EDITED 06:18.4 80/01/10

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
.376	2302	0.5317	V	0.1595	0.3913
.457	24272	6.6325		1.6822	4.8813
.965	17910	4.9431	T	1.2413	3.6380
.205	3987	1.1120		0.2764	0.8184
.33	6303	0.7448		0.4368	0.5481
.89	19171	1.6856		1.3287	1.2405
.80	4846	0.4438		0.3358	0.3266
.82	3143	0.2007		0.2178	0.1477
.53	835	0.0827	V	0.0579	0.0609
.03	1463	0.1065	T	0.1014	0.0784
.92	1357289	119.2805	T	94.0718	87.7869
.49	1304	0.1112	V	0.0904	0.0818

12 PEAKS > AREA REJECT 1442822 TOTAL AREA
12 PEAKS > HEIGHT REJECT 135.8750 TOTAL HEIGHT

ILE 94 RUN 18 STARTED 12:50.9 80/01/10 WAHLER 6/23
METHOD 2 ALCOH./ACETONE LAST EDITED 06:18.4 80/01/10

2061498



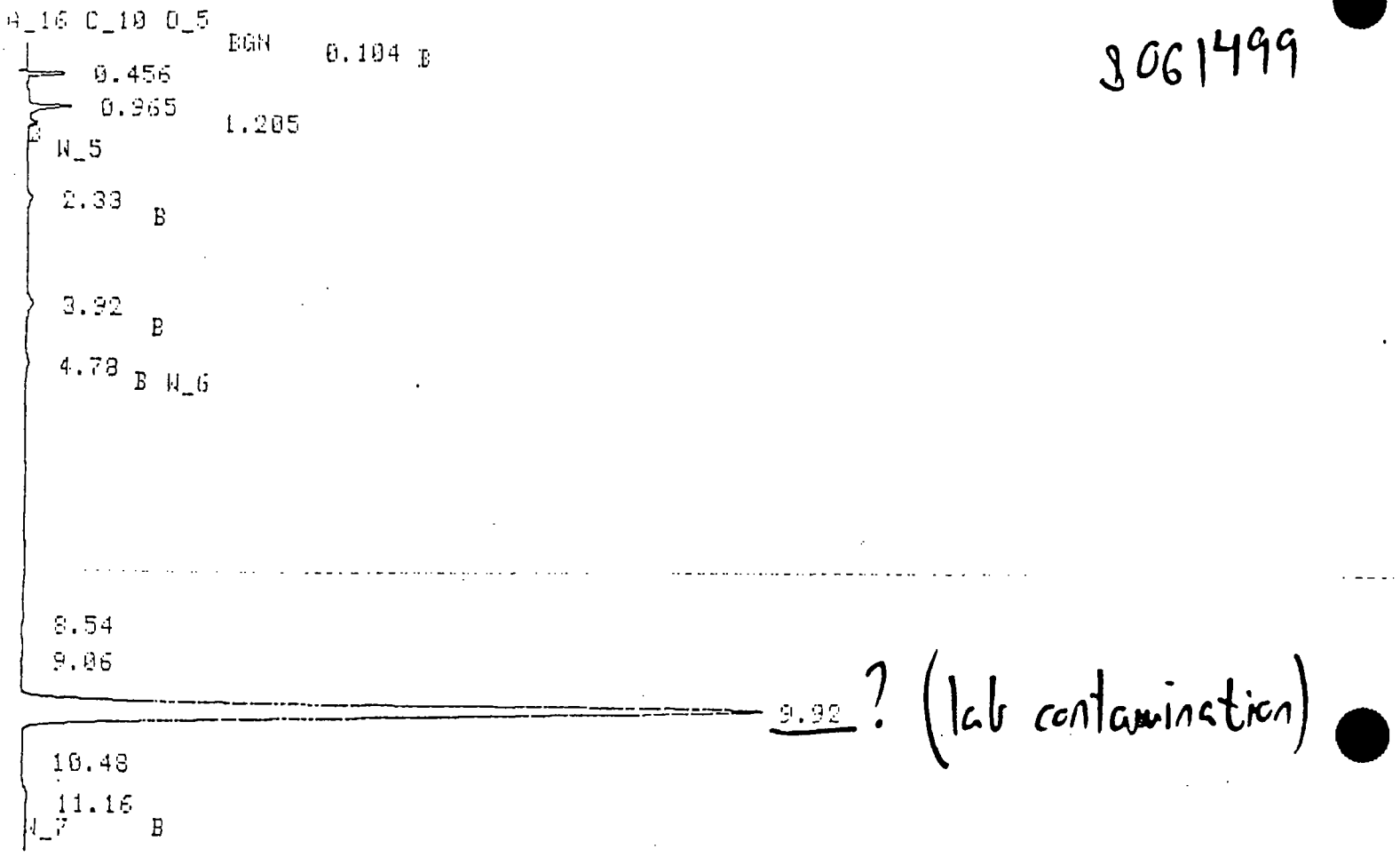
E 94 RUN 18 STARTED 12:50.9 80/01/10 WAHLER 6/23
ETHOD 2 ALCOH./ACETONE LAST EDITED 06:18.4 80/01/10

T	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
.05	535	0.1069		0.0658	0.1334
93	2109	0.6265	V	0.2593	0.7823
58	18748	5.3456	T	2.3049	6.6745
61	3506	0.5211	T	0.4311	0.6507
65	18290	4.9325	T	2.2487	6.1586
04	4234	1.1428		0.5205	1.4269
4	6134	0.7161		0.7541	0.8942
3	1299	0.1788	T	0.1597	0.2232
2	11930	1.0899		1.4667	1.3609
9	191	0.0350	V	0.0234	0.0437
8	3746	0.3515		0.4605	0.4388
1	6100	0.5632		0.7500	0.7032
3	8967	0.6388		1.1024	0.7976
5	938	0.0882	V	0.1153	0.1102
4	1193	0.0965	V	0.1467	0.1205
2	725457	63.6566	T	89.1308	79.4813

T PEAKS > AREA REJECT 813376 TOTAL AREA
T PEAKS > HEIGHT REJECT 80.0901 TOTAL HEIGHT

LE 96 RUN 20 STARTED 13:28.4 80/01/10 WAHLER 6/23
METHOD 2 ALCOH./ACETONE LAST EDITED 06:18.4 80/01/10

3061499



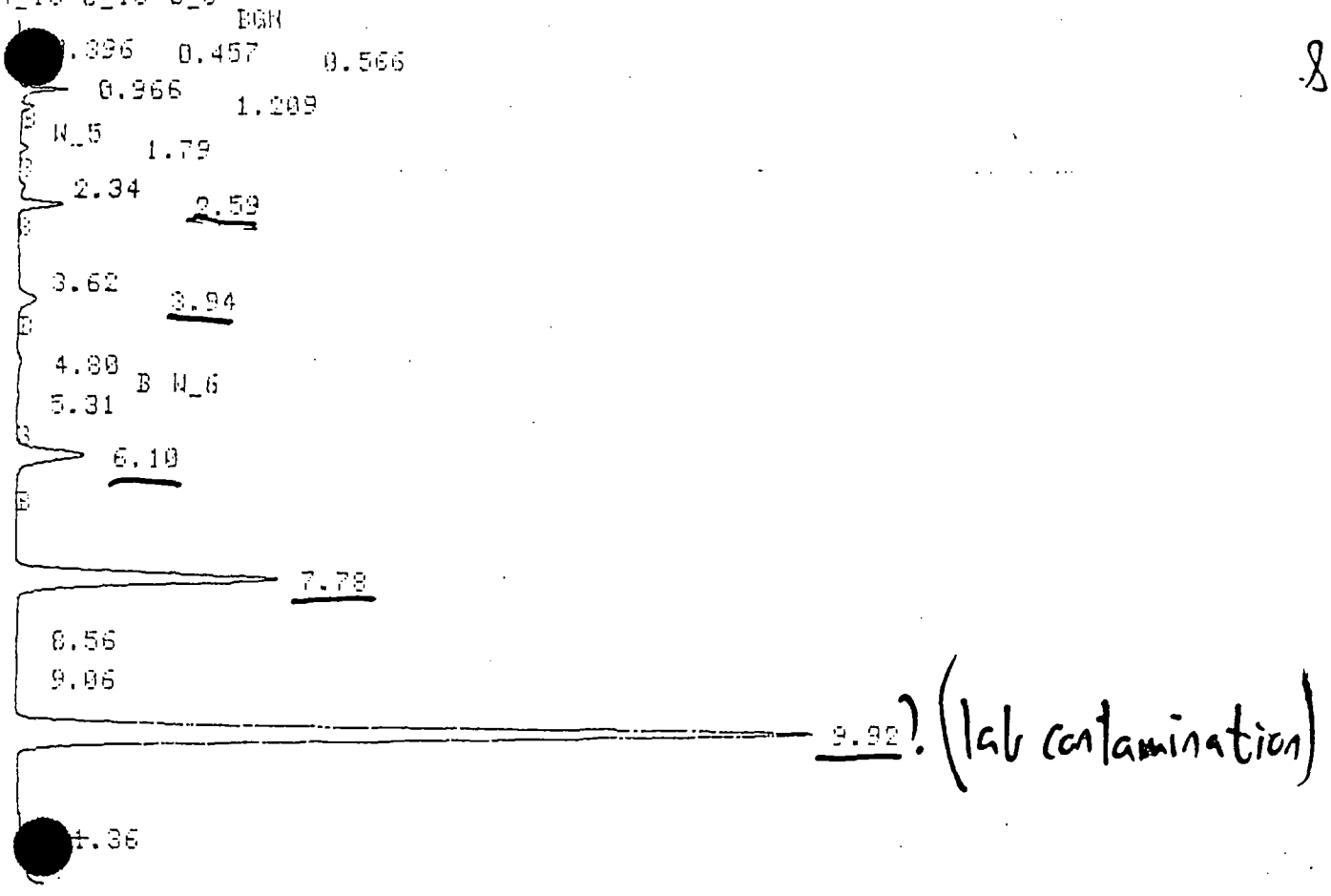
LE 96 RUN 20 STARTED 13:28.4 80/01/10 WAHLER 6/23
METHOD 2 ALCOH./ACETONE LAST EDITED 06:18.4 80/01/10

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
104	381	0.0874		0.0354	0.0857
456	21163	5.2209	T	1.9686	5.1166
965	19534	5.1818	T	1.8170	5.0783
205	3812	1.1302		0.3546	1.1076
33	6587	0.7639		0.6127	0.7486
92	11606	0.8862		1.0795	0.8685
78	4321	0.3881		0.4019	0.3803
54	1350	0.1080	V	0.1256	0.1059
06	1273	0.0945	V	0.1184	0.0926
92	998305	87.6831	T	92.8604	85.9310
48	1094	0.0872	V	0.1017	0.0854
16	5634	0.4076		0.5241	0.3995

12 PEAKS > AREA REJECT 1075060 TOTAL AREA
12 PEAKS > HEIGHT REJECT 102.0389 TOTAL HEIGHT

ALE 97 RUN 21 STARTED 13:47.1 80/01/10 WAHLER 6/23
METHOD 2 ALCOH./ACETONE LAST EDITED 06:18.4 80/01/10

A_16 C_10 D_5



806150

9.92? (lab contamination)

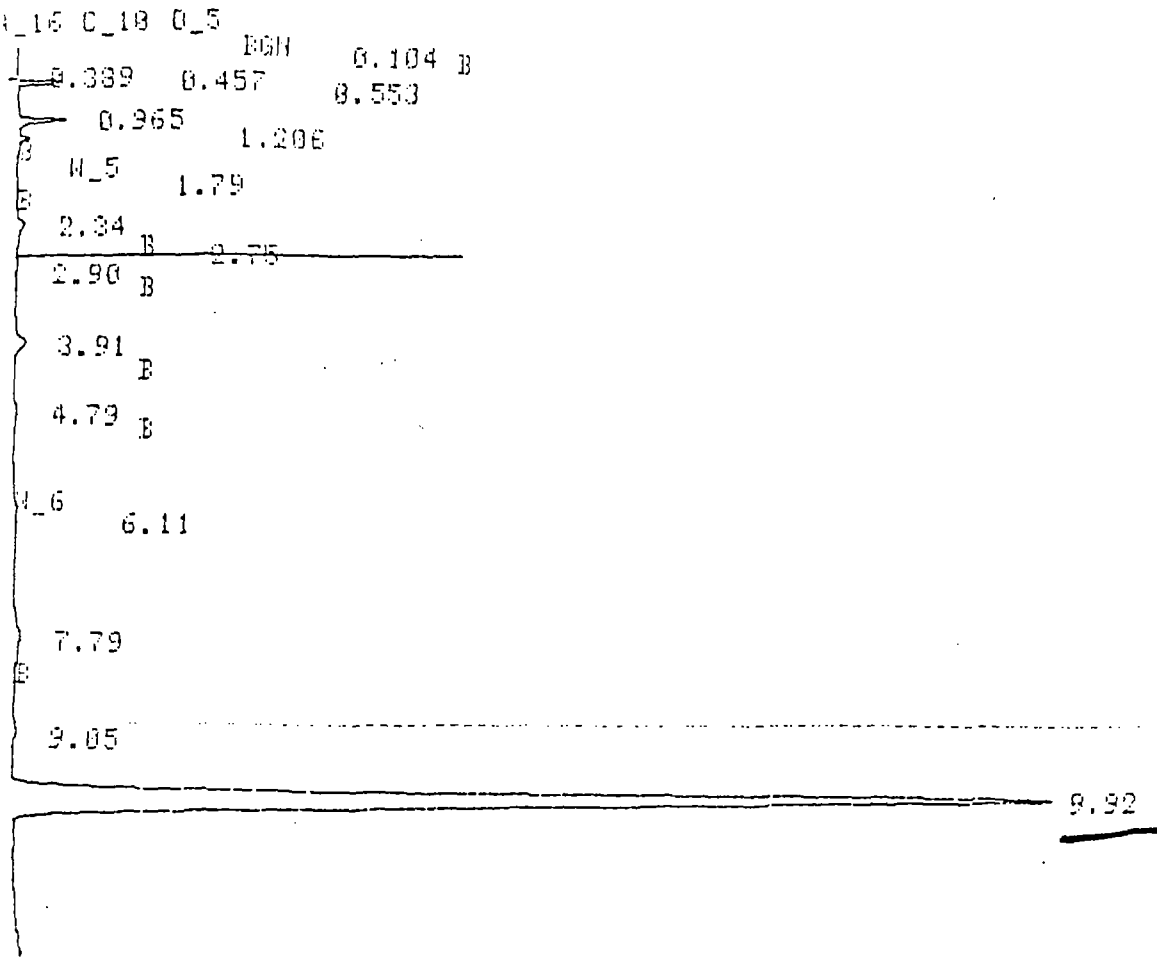
LE 97 RUN 21 STARTED 13:47.1 80/01/10 WAHLER 6/23
METHOD 2 ALCOH./ACETONE LAST EDITED 06:18.4 80/01/10

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
396	2166	0.6571	V	0.1422	0.4409
457	17370	4.9747	T	1.1405	3.3383
566	3547	0.5077	T	0.2329	0.3407
966	19536	5.1125	T	1.2827	3.4307
209	5232	1.3500		0.3435	0.9059
79	4881	1.0094		0.3205	0.6773
34	6234	0.7851	T	0.4093	0.5268
39	32397	5.0833		2.1271	3.4111
52	1581	0.1928	T	0.1038	0.1294
94	20598	2.0140		1.3524	1.3515
30	5476	0.4884		0.3595	0.3277
11	1556	0.2044		0.1021	0.1371
0	76575	7.3594		5.0277	4.9385
8	320472	28.5842	T	21.0414	19.1814
6	1728	0.1502	V	0.1135	0.1008
6	1848	0.1282	V	0.1213	0.0860
[illegible]	995593	87.2917	T	65.3684	58.5769
[illegible]	6261	3.1278	V	0.4111	2.0989

8 PEAKS > AREA REJECT 1523050 TOTAL AREA
8 PEAKS > HEIGHT REJECT 149.0208 TOTAL HEIGHT

LE 99 RUN 23 STARTED 14:24.6 80/01/10 WAHLER 6/23
METHOD 2 ALCOH./ACETONE LAST EDITED 06:18.4 80/01/10

3061501



?(lab contamination

LE 99 RUN 23 STARTED 14:24.6 80/01/10 WAHLER 6/23
METHOD 2 ALCOH./ACETONE LAST EDITED 06:18.4 80/01/10

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
104	560	0.1237		0.0418	0.0839
389	2192	0.6144	V	0.1636	0.4167
457	17478	5.1163	T	1.3048	3.4701
553	2878	0.5369	T	0.2148	0.3642
965	18872	5.1312	T	1.4088	3.4802
206	3919	1.1551		0.2925	0.7834
79	280	0.0918		0.0209	0.0623
34	6643	0.8034		0.4959	0.5449
75	13425	22.1371	T	1.0022	15.0143
90	353	0.0558		0.0264	0.0379
91	13102	1.0766		0.9781	0.7302
79	4242	0.3843		0.3167	0.2606
11	20	0.1192	T	0.0015	0.0800
79	10072	0.6345		0.7519	0.4304
05	4302	0.3360	V	0.3211	0.2279
92	1241250	109.1239	V	92.6592	74.0122

16 PEAKS > AREA REJECT 1339587 TOTAL AREA
16 PEAKS > HEIGHT REJECT 147.4405 TOTAL HEIGHT

RUN 24 STARTED 14:45.2 80/01/10 WAHLER 6/23
METHOD 2 ALCOH./ACETONE LAST EDITED 06:18.4 80/01/10

16 C_10 0_5

BGN 0.109 B

0.456 0.574

0.964 1.205

W_5

2.33 B

3.61 3.91

4.79 B W_6

6.11

7.72

9.92 ? lab contaminati

10.46

8061622

100 RUN 24 STARTED 14:45.2 80/01/10 WAHLER 6/23
METHOD 2 ALCOH./ACETONE LAST EDITED 06:18.4 80/01/10

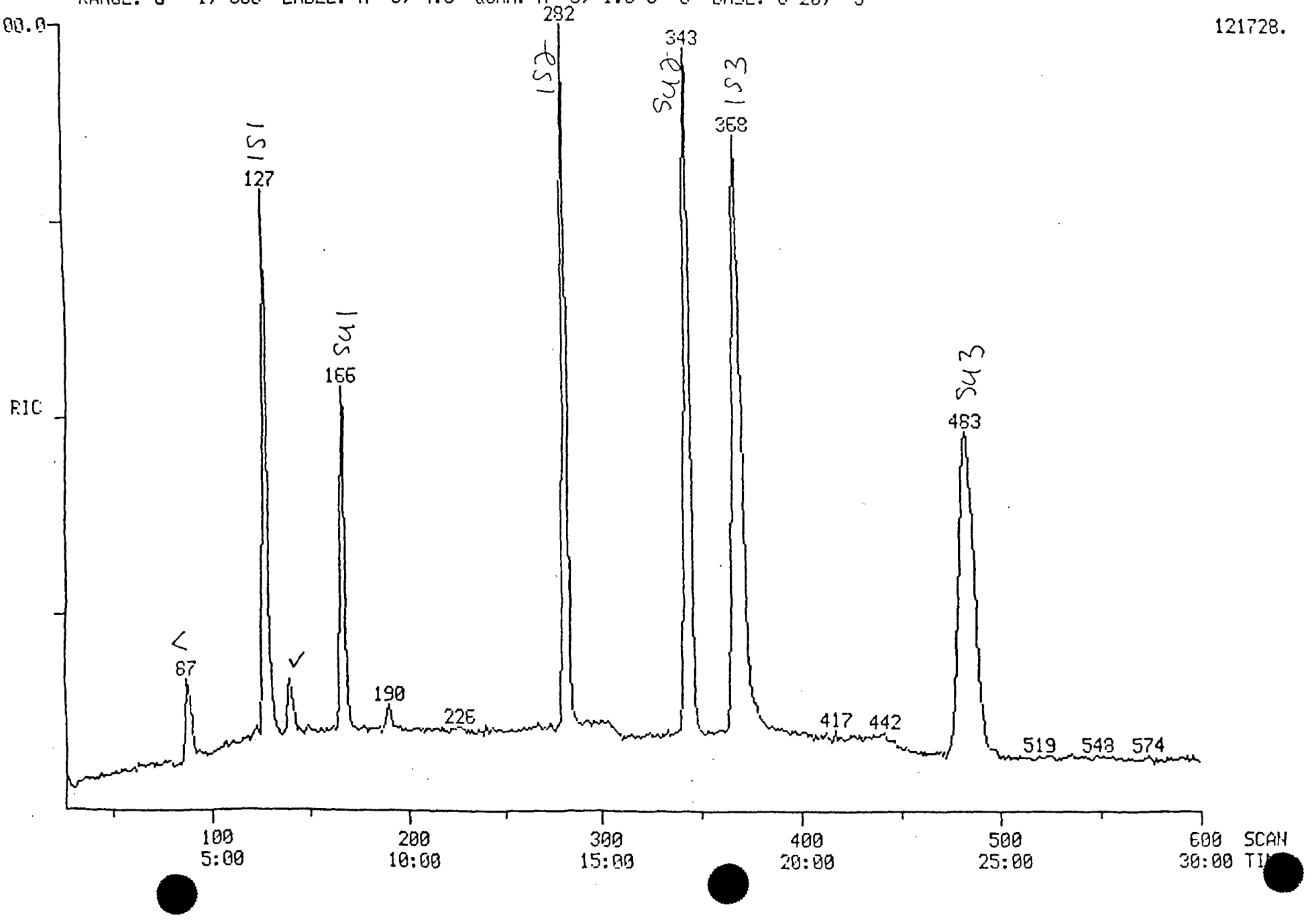
	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
9	634	0.1157		0.0452	0.0875
6	19098	5.5088	T	1.3630	4.2263
4	3462	0.4886	T	0.2471	0.3695
4	20341	5.5023	T	1.4517	4.1609
5	4610	1.2859		0.3290	0.9724
	6623	0.7889		0.4727	0.5966
	1278	0.1819	T	0.0909	0.1376
	13797	1.2465		0.9847	0.9426
	4232	0.3762		0.3020	0.2845
	11193	1.0445		0.7988	0.7899
	32005	2.7507		2.2842	2.0801
	1846	0.1391	V	0.1317	0.1052
	1280921	112.6242	T	91.4190	85.1673
	1119	0.1055	V	0.0799	0.0798

PEAKS > AREA REJECT 1401154 TOTAL AREA
PEAKS > HEIGHT REJECT 132.2338 TOTAL HEIGHT

RIC
06/30/88 11:39:00
SAMPLE: V-1 (5ML)
CONDS.: VOLATILE METHOD
RANGE: G 1, 600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: V8061491 #1
CALI: V8061491 #2

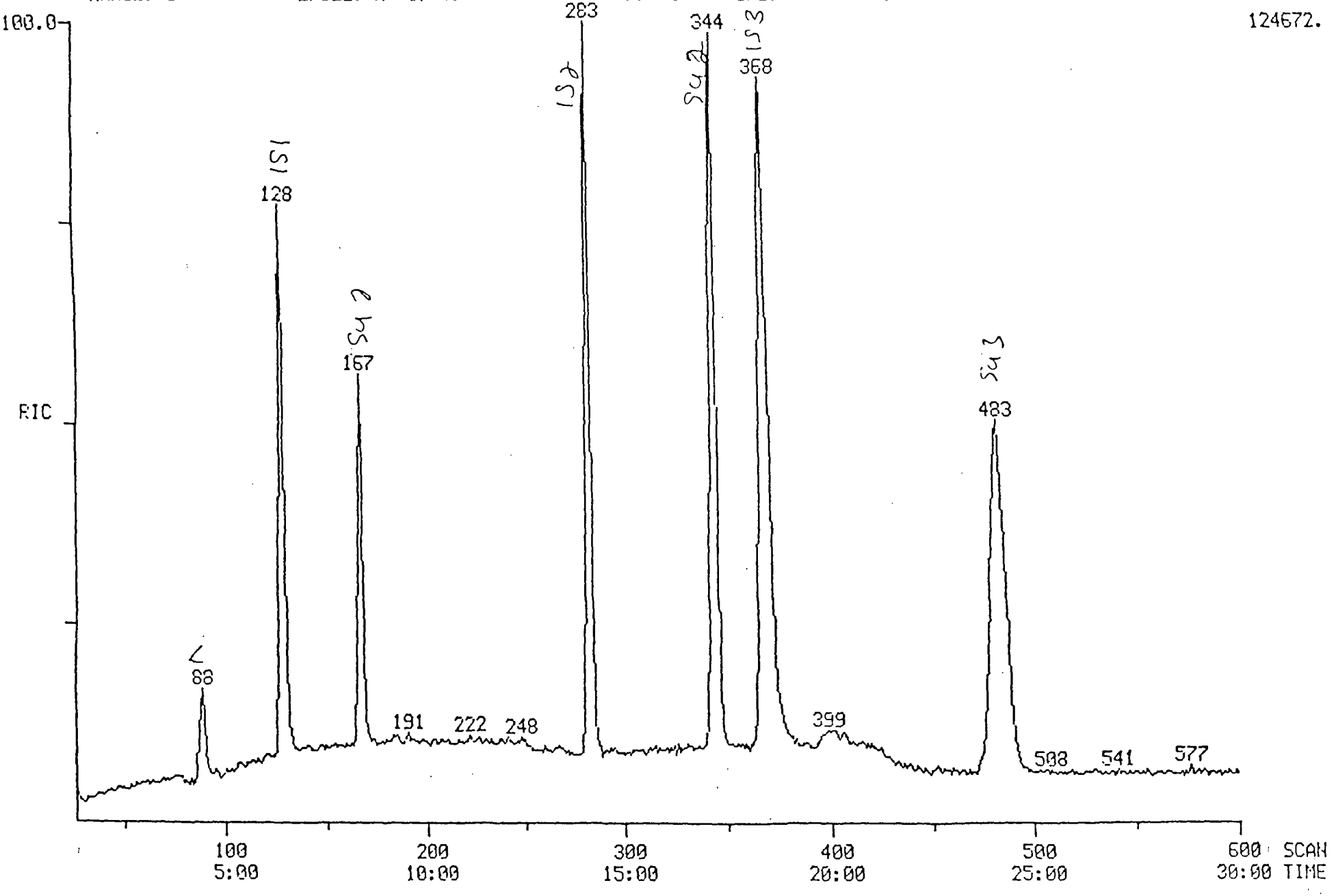
SCANS 25 TO 600



RIC
06/30/88 13:05:00
SAMPLE: V-5 (5ML)
CONDS.: VOLATILE METHOD
RANGE: G 1, 600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: V8061492 #1
CALI: V8061492 #2

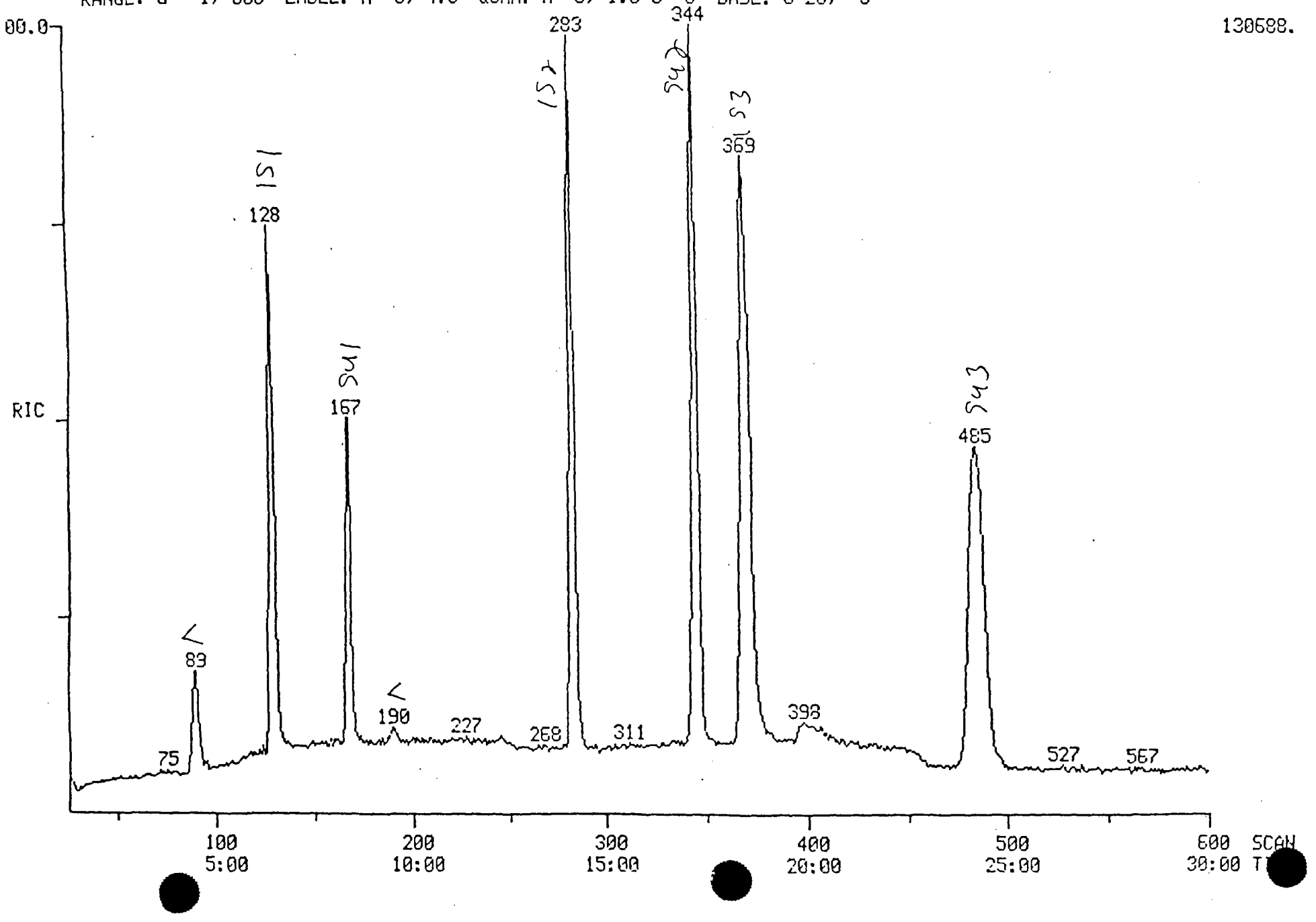
SCANS 25 TO 600



RIC
06/30/88 14:01:00
SAMPLE: V-6 (5ML)
CONDS.: VOLATILE METHOD
RANGE: G 1, 600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: V8061493 #1
CALI: V8061493 #2

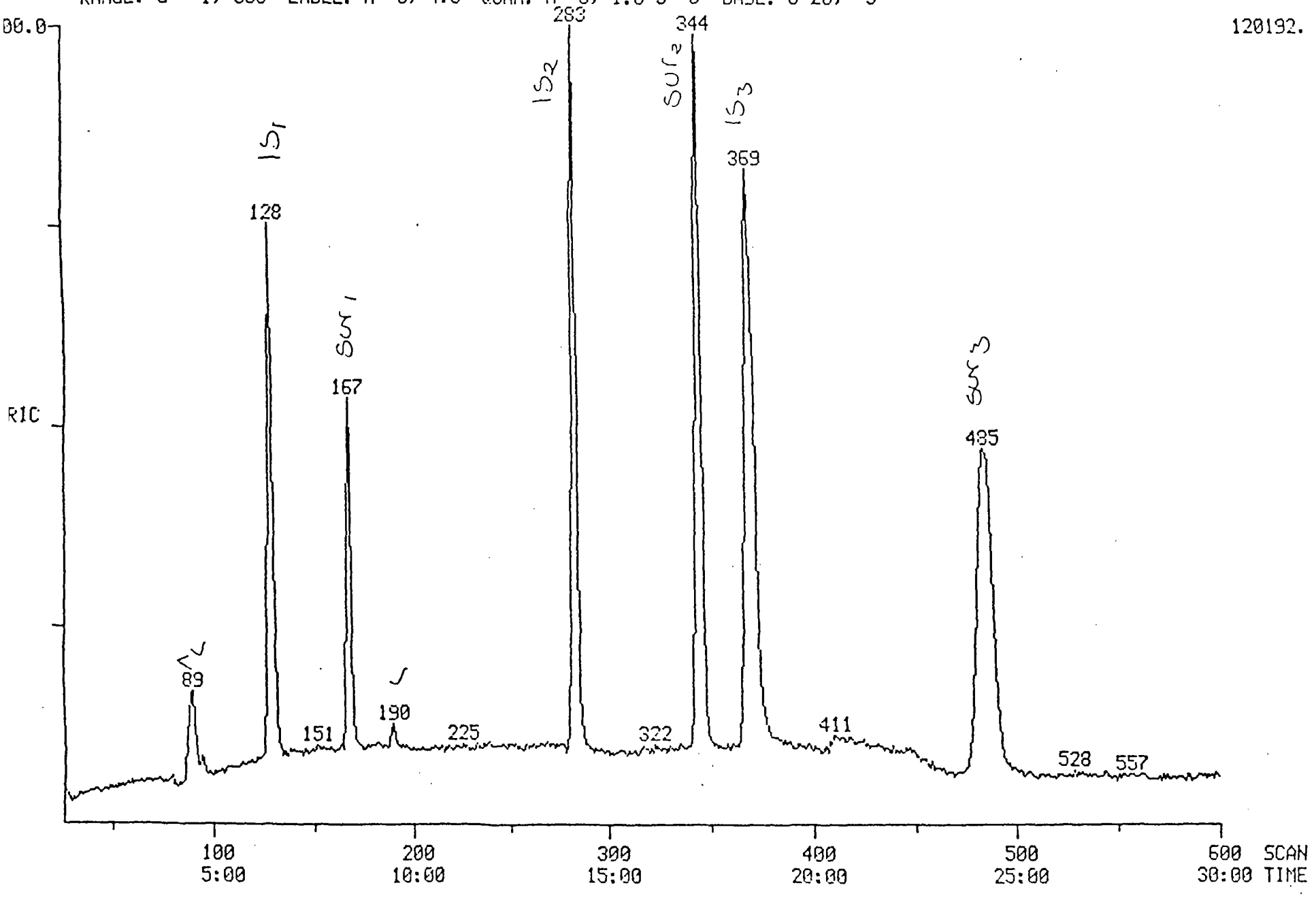
SCANS 25 TO 600



RIC
06/30/88 14:47:00
SAMPLE: V-8 (5ML)
CONDS.: VOLATILE METHOD
RANGE: G 1, 600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: V8061494 #1
CALI: V8061494 #2

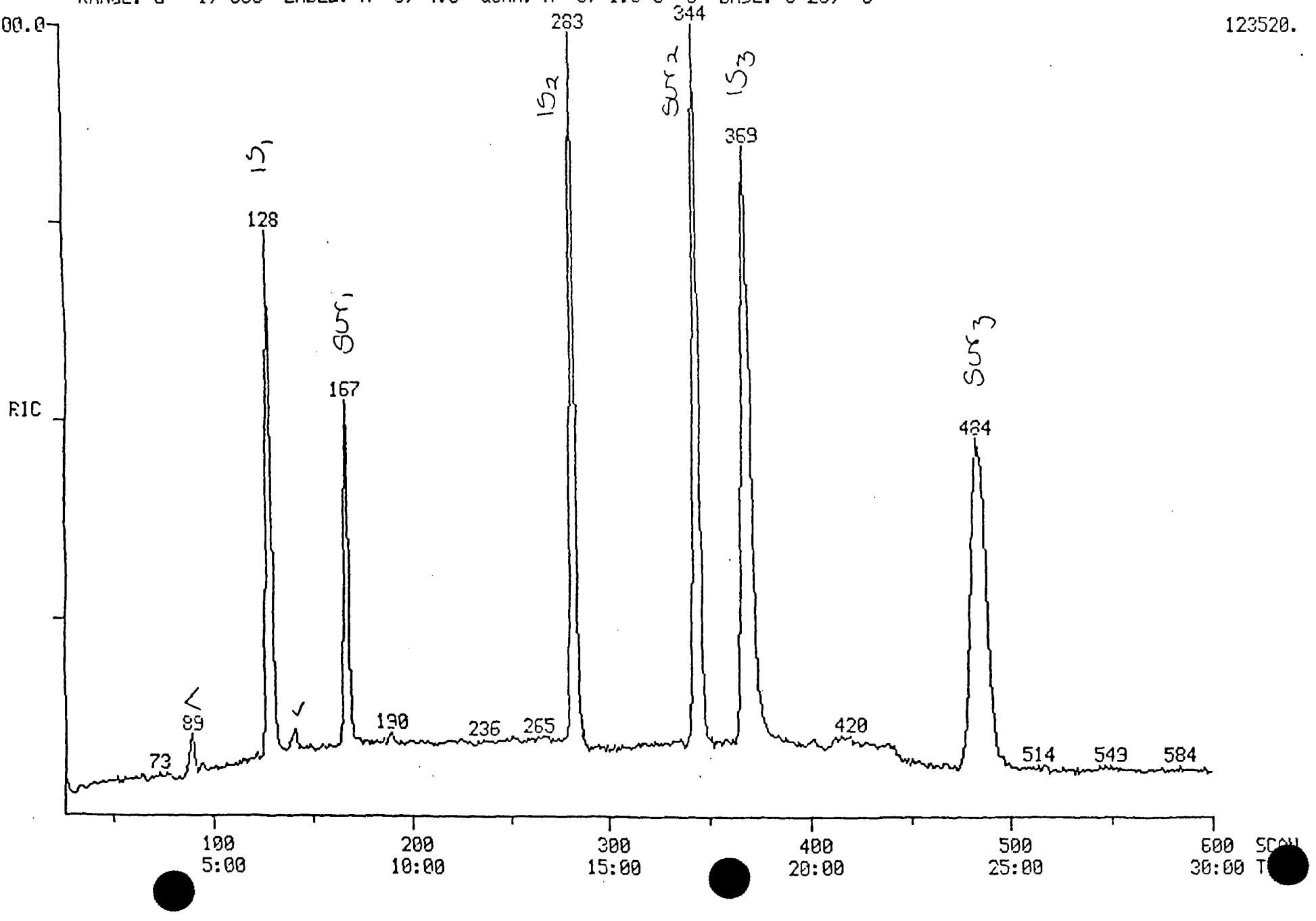
SCANS 25 TO 600



RIC
06/30/88 15:44:00
SAMPLE: V-9 (5ML)
CONDS.: VOLATILE METHOD
RANGE: G 1, 600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: V8061495 #1
CALI: V8061495 #2

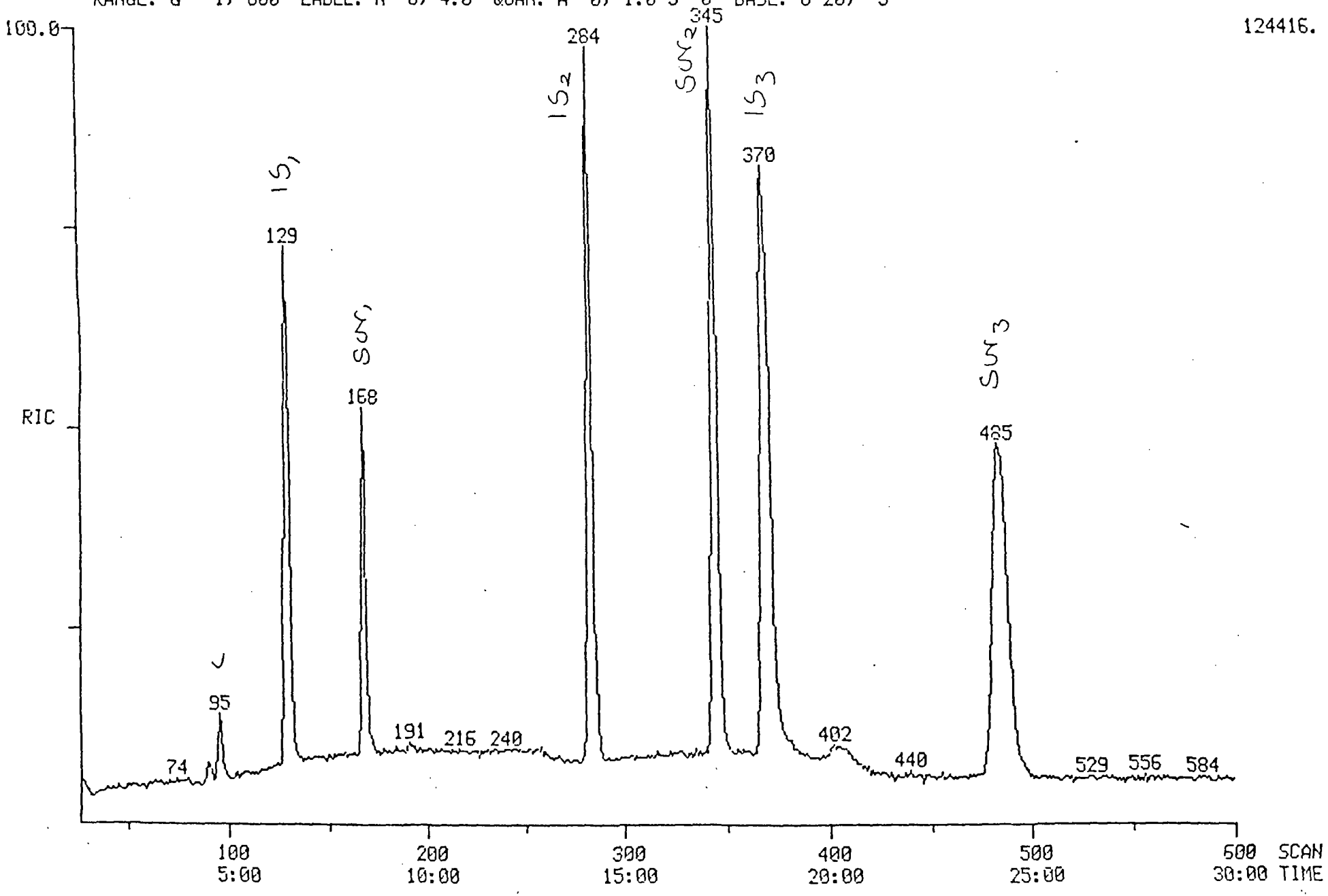
SCANS 25 TO 600



RIC
06/30/88 16:56:00
SAMPLE: V-10 (5ML)
CONDS.: VOLATILE METHOD
RANGE: G 1, 600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: V8061496 #1
CALI: V8061496 #2

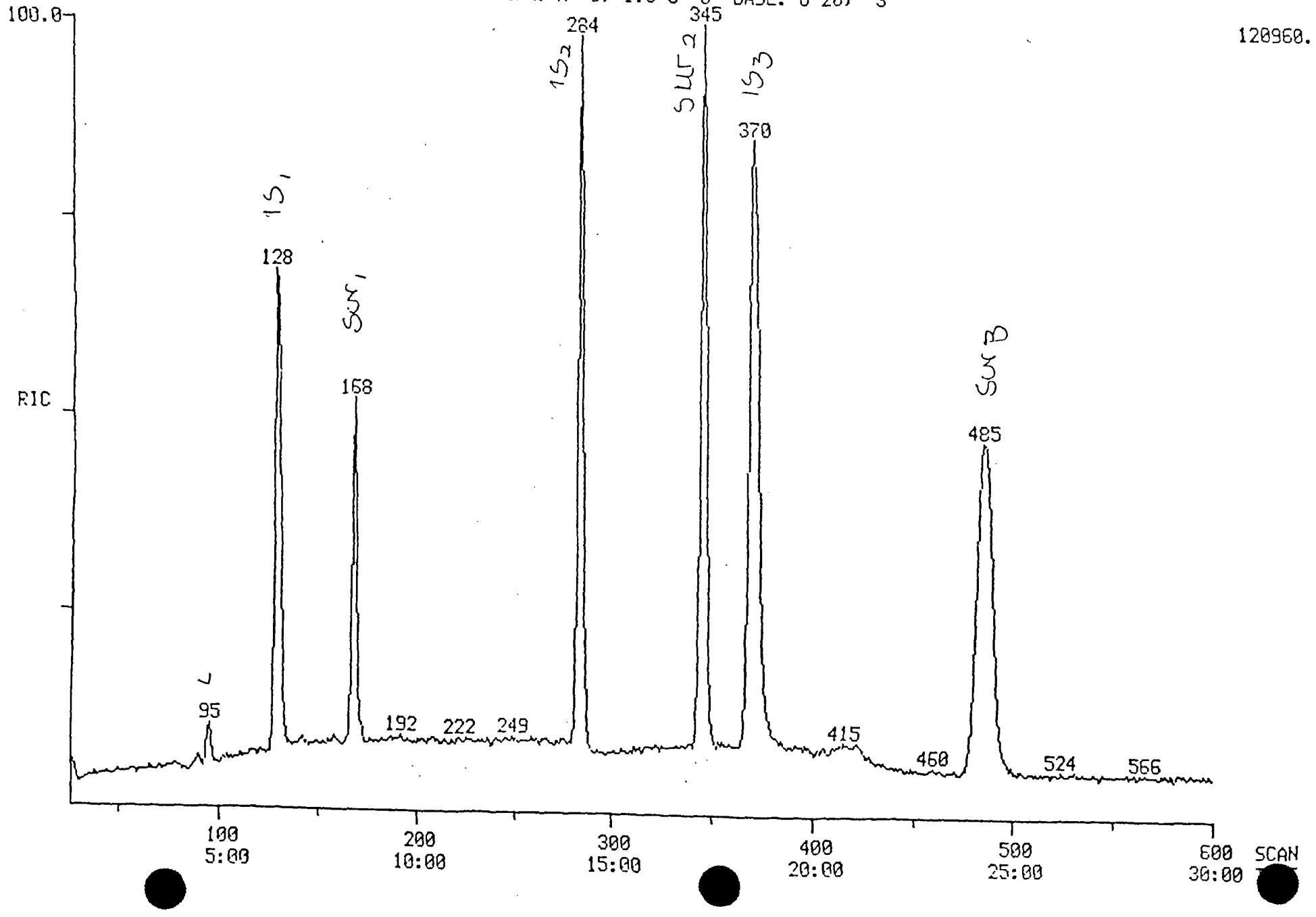
SCANS 25 TO 600



RIC
06/30/88 17:46:00
SAMPLE: I-1 (5ML)
CONDS.: VOLATILE METHOD
RANGE: G 1, 600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: V8061497 #1
CALI: V8061497 #2

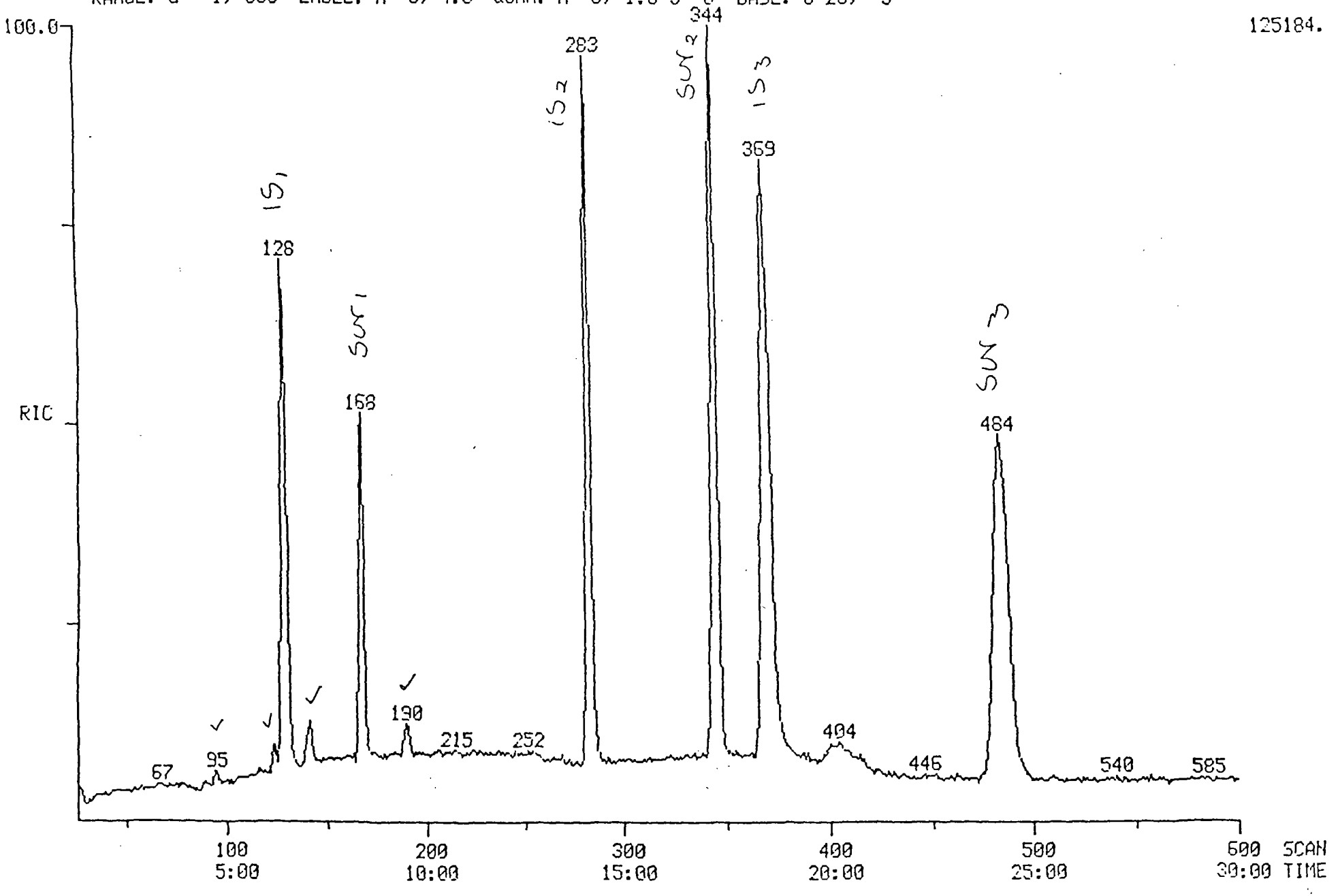
SCANS 25 TO 600



RIC
06/30/88 18:42:00
SAMPLE: I-2 (5ML)
CONDS.: VOLATILE METHOD
RANGE: G 1, 600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: V8061498 #1
CALI: V8061498 #2

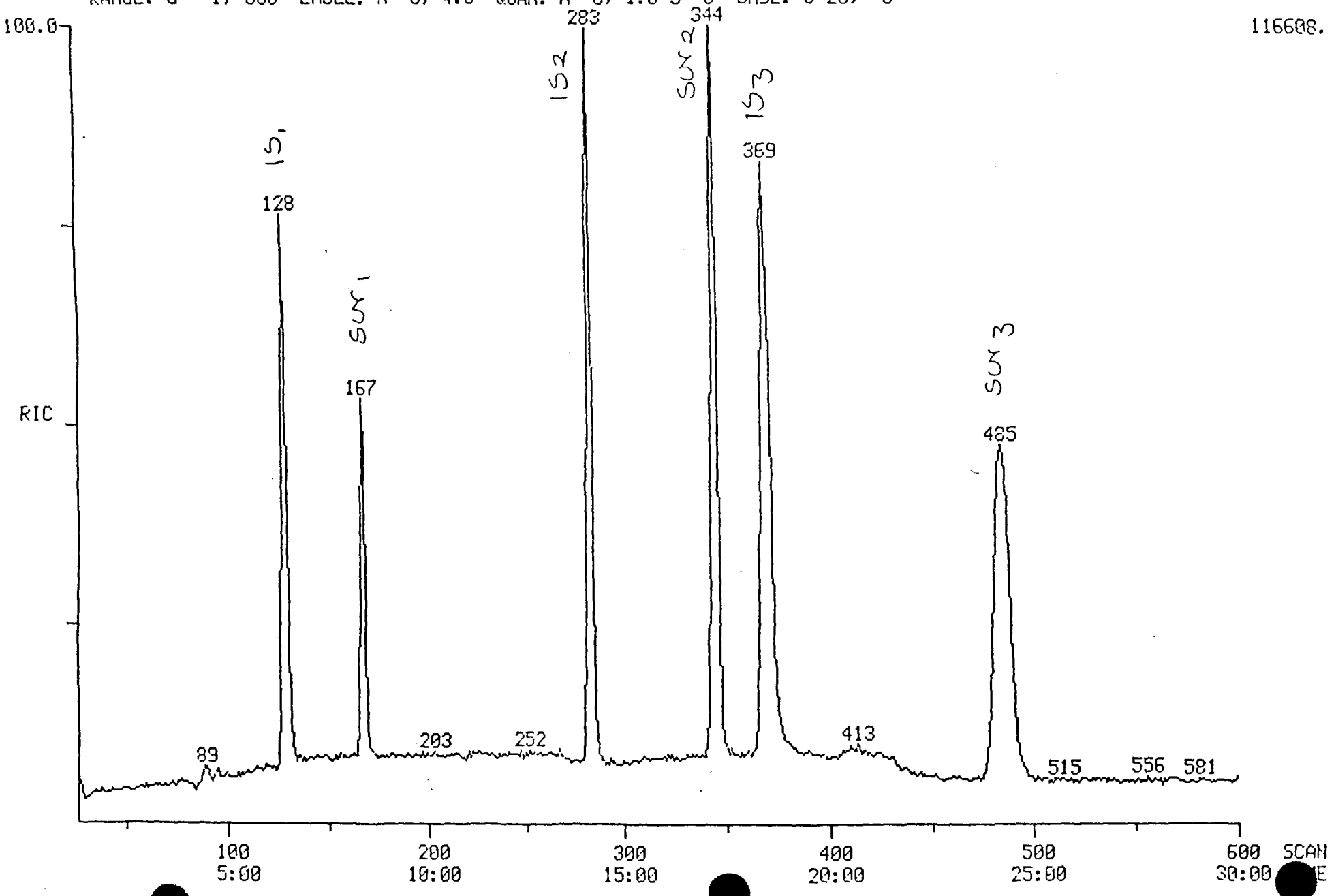
SCANS 25 TO 600



RIC
06/30/88 19:31:00
SAMPLE: I-3 (5ML)
CONDS.: VOLATILE METHOD
RANGE: G 1, 600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: V8061499 #1
CALI: V8061499 #2

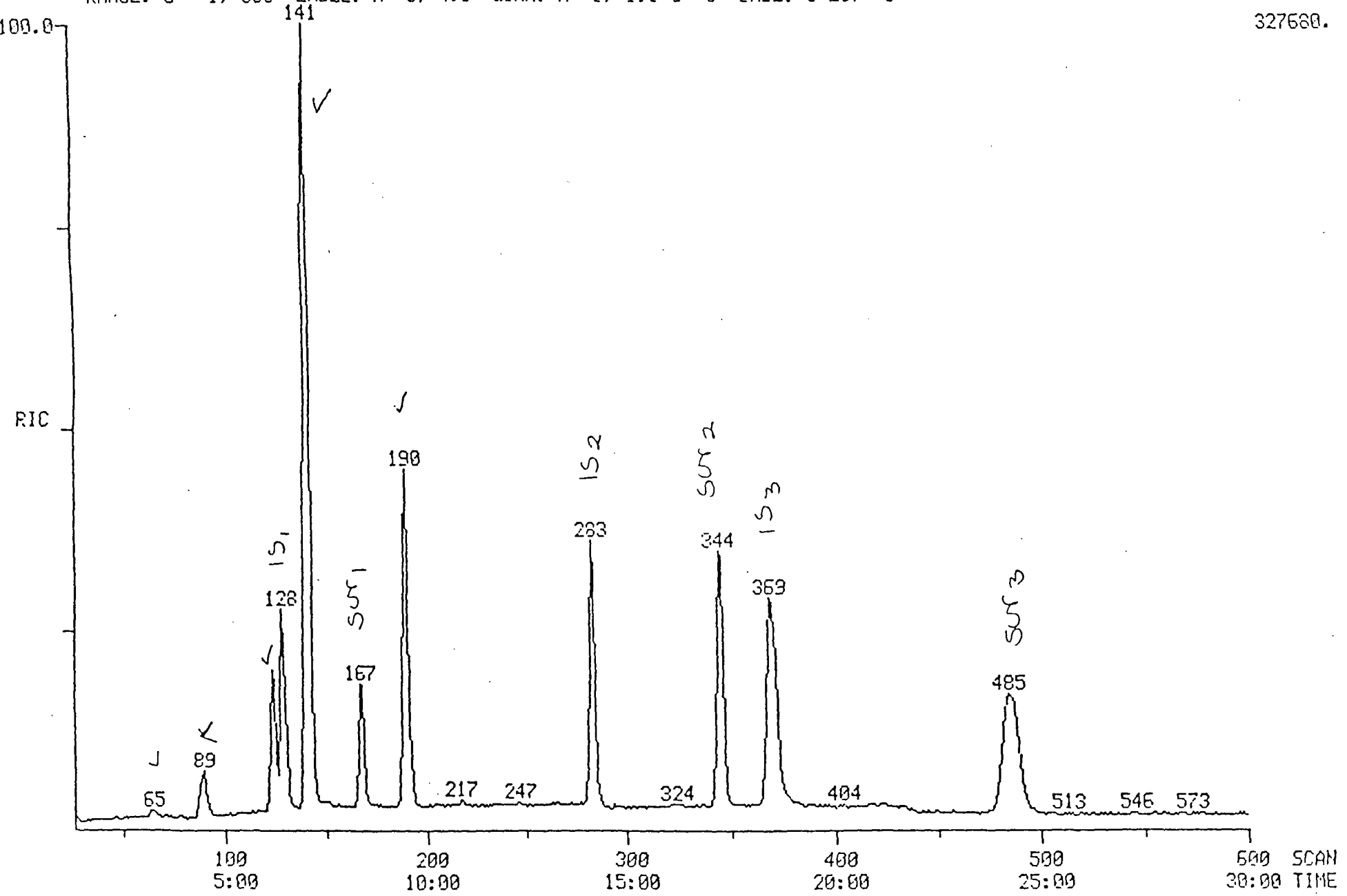
SCANS 25 TO 600



RIC
06/30/88 20:21:00
SAMPLE: V-4 (5ML)
CONDS.: VOLATILE METHOD
RANGE: G 1, 600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

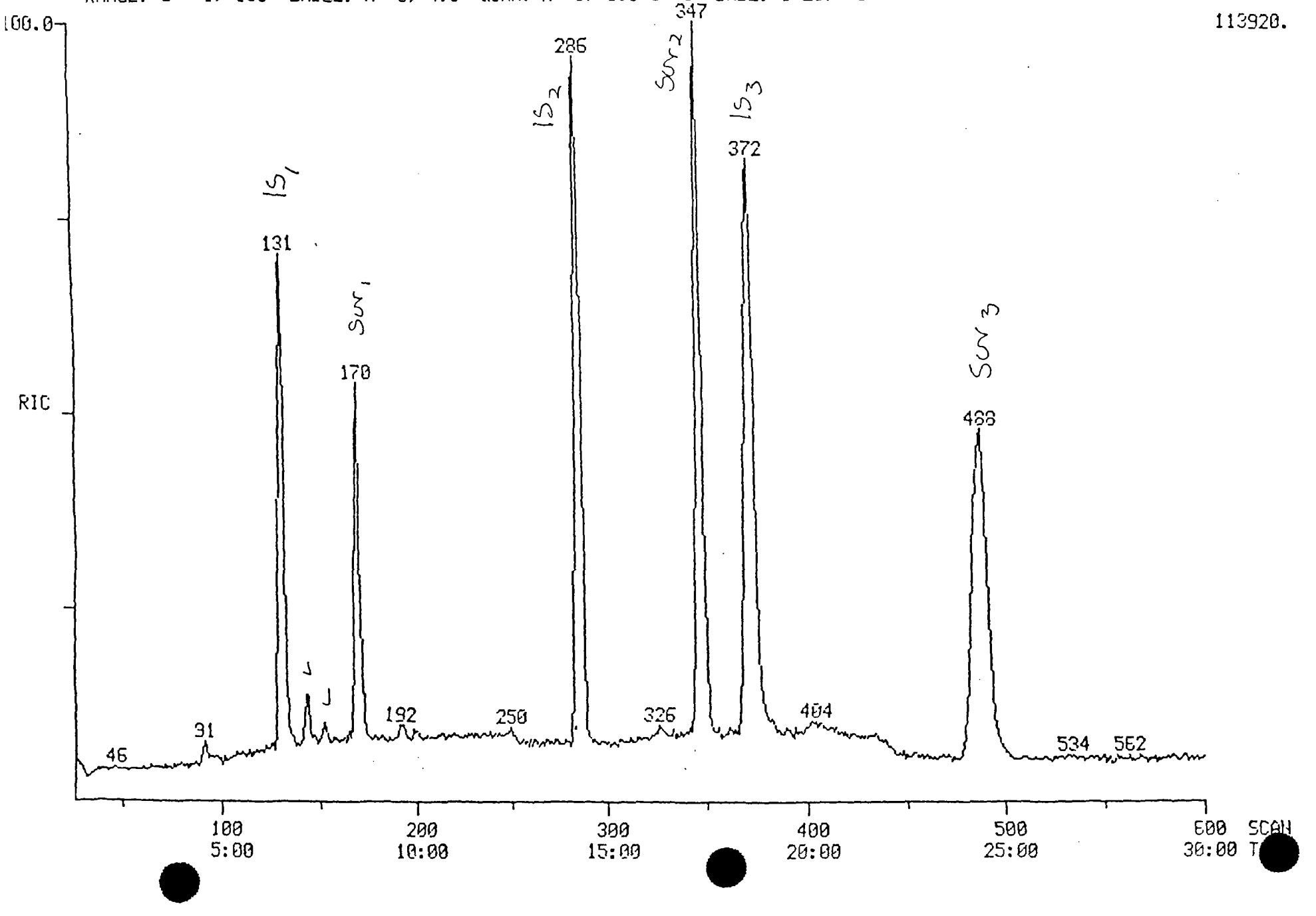
DATA: V8061500 #1
CALI: V8061500 #2

SCANS 25 TO 600



RIC
06/30/88 21:08:00
SAMPLE: V-3 (5ML)
CONDS.: VOLATILE METHOD
RANGE: G 1, 600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

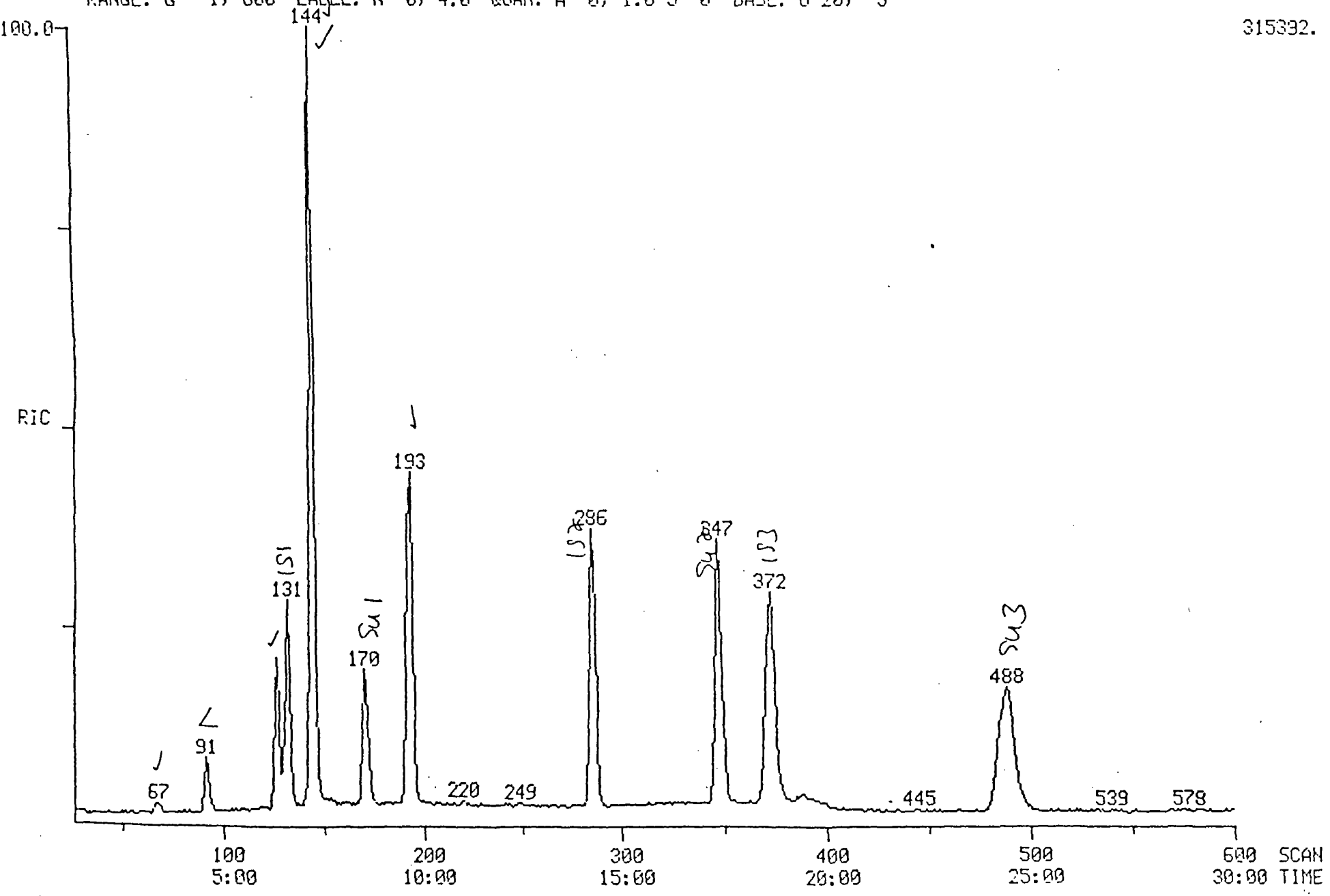
DATA: V8061501 #1 SCANS 25 TO 600
CALI: V8061501 #2



RIC
06/30/88 22:13:00
SAMPLE: V-4 (5ML)
CONDS.: VOLATILE METHOD
RANGE: G 1, 600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: V8061578 #1
CALI: V8061578 #2

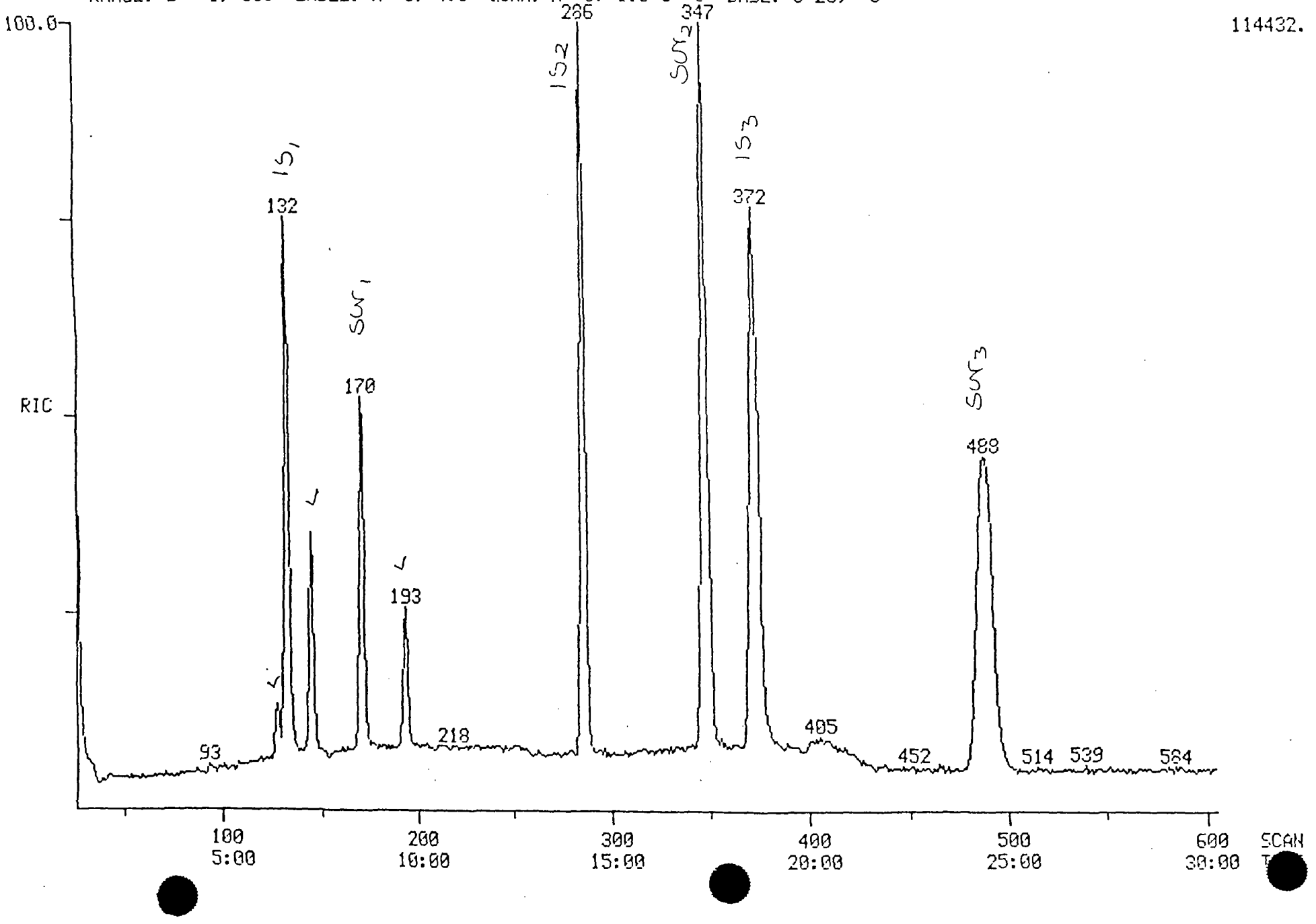
SCANS 25 TO 600



RIC
06/30/88 22:55:00
SAMPLE: V-7 (5ML)
CONDS.: VOLATILE METHOD
RANGE: G 1, 605 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: V8061622 #1
CALI: V8061622 #2

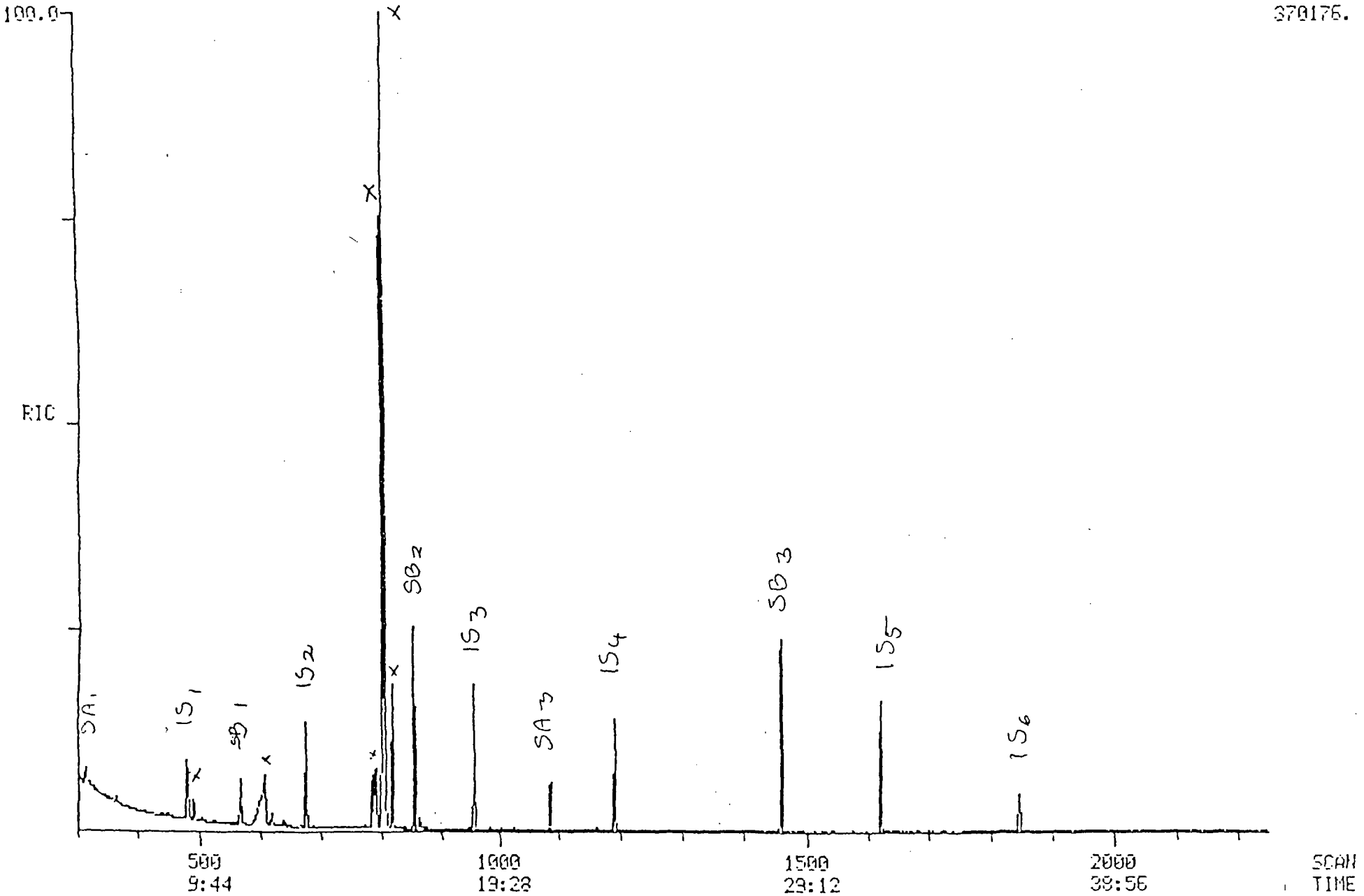
SCANS 25 TO 605



MID[illegible]
06/[illegible]8 13:36:00
SAMPLE: U-3 (1000ML/2ML)
CONDS.: SEMIVOLATILE
RANGE: G 1.2250 LABEL: N 0. 4.0 QUAN: A 0. 1.0 J 0 BASE: U 20. 3

DATA: SV8061501 #1
CALI: SV8061501 #3

SCANS 300 TO 2250



APPENDIX B

ANAMETRIX, INC.
LABORATORY SERVICES
ENVIRONMENTAL • ANALYTICAL CHEMISTRY
1961 CONCOURSE DRIVE, SUITE E • SAN JOSE, CA 95131 • (408) 432-8192

Bob Breynaert
Wahler & Associates
1023 Corporation Way
Palo Alto, CA 94303

July 6, 1988
Work Order Number 8806109
Date Received 06/20/88
PO No. 098

Dear Mr. Breynaert:

Five water samples were received for analysis of volatiles by GC/MS, using the following EPA method(s):

ANAMETRIX I.D.	SAMPLE I.D.	METHOD(S)
8806109-01	JCO-1041F V-4	8240
-02	" V-3	"
-03	" MB-1-15	"
-04	" MB-1-16	"
-05	" TB-1-15	"

RESULTS

See enclosed data sheets, Pages 2 thru 6.

EXTRA COMPOUNDS

See enclosed data sheet, Page 7.

QUALITY ASSURANCE REPORTS

See enclosed data sheets, Pages 8 thru 10.

NOTE: P-Bromofluorobenzene surrogate recovery outside of quality limits for samples-01, and method blank 6/28/88. 1,2-dichlorobenzene recovery from matrix spike/duplicate is outside of control limit.

If there is any more that we can do, please give us a call. Thank you for using ANAMETRIX, INC.

Sincerely,

Burt Sutherland

Burt Sutherland
Laboratory Director

BWS/lm

ANALYSIS DATA SHEET - EPA METHOD 624/8240
ANAMETRIX, INC. (408) 432-8192

Sample I.D.	: JCO-1041F V-4	Anametrix I.D.	: 8806109-01
Matrix	: WATER	Analyst	: TC
Date sampled	: 06-16-88	Supervisor	: BWS
Date analyzed	: 06-28-88	Date released	: 07-05-88
Dilut. factor	: NONE	Instrument ID	: F1

CAS #	Compound Name	Reporting Limit (ug/l)	Amount Found (ug/l)
74-87-3	* Chloromethane	10	BRL
75-01-4	* Vinyl Chloride	10	BRL
74-83-9	* Bromomethane	10	BRL
75-00-3	* Chloroethane	10	20
75-69-4	* Trichlorofluoromethane	5	BRL
75-35-4	* 1,1-Dichloroethene	5	50
76-13-1	# Trichlorotrifluoroethane	5	BRL
67-64-1	**Acetone	20	BRL
75-15-0	**Carbondisulfide	5	BRL
75-09-2	* Methylene Chloride	5	18
156-60-5	* Trans-1,2-Dichloroethene	5	BRL
75-34-3	* 1,1-Dichloroethane	5	350
78-93-3	**2-Butanone	20	BRL
156-59-2	* Cis-1,2-Dichloroethene	5	BRL
67-66-3	* Chloroform	5	BRL
71-55-6	* 1,1,1-Trichloroethane	5	150
56-23-5	* Carbon Tetrachloride	5	BRL
71-43-2	* Benzene	5	BRL
107-06-2	* 1,2-Dichloroethane	5	BRL
79-01-6	* Trichloroethene	5	BRL
78-87-5	* 1,2-Dichloropropane	5	BRL
75-27-4	* Bromodichloromethane	5	BRL
110-75-8	* 2-Chloroethylvinylether	5	BRL
108-05-4	**Vinyl Acetate	10	BRL
10061-02-6	* Trans-1,3-Dichloropropene	5	BRL
108-10-1	**4-Methyl-2-Pentanone	10	BRL
108-88-3	* Toluene	5	BRL
10061-01-5	* cis-1,3-Dichloropropene	5	BRL
79-00-5	* 1,1,2-Trichloroethane	5	BRL
127-18-4	* Tetrachloroethene	5	BRL
591-78-6	**2-Hexanone	10	BRL
124-48-1	* Dibromochloromethane	5	BRL
108-90-7	* Chlorobenzene	5	BRL
100-41-4	* Ethylbenzene	5	BRL
1330-20-7	**Total Xylenes	5	BRL
100-42-5	**Styrene	5	BRL
75-25-2	* Bromoform	5	BRL
79-34-5	* 1,1,2,2-Tetrachloroethane	5	BRL
541-73-1	* 1,3-Dichlorobenzene	5	BRL
106-46-7	* 1,4-Dichlorobenzene	5	BRL
95-50-1	* 1,2-Dichlorobenzene	5	BRL

CAS #	Surrogate Compounds	Limits	% Recovery
17060-07-0	1,2-Dichloroethane-d4	84-132%	117%
2037-26-5	Toluene-d8	85-124%	101%
460-00-4	p-Bromofluorobenzene	74-116%	70%

* A Method 624 priority pollutant compound (Federal Register, 10/26/84)
** A compound on the U.S. EPA CLP Hazardous Substance List (HSL)
\# A compound added by Anametrix, Inc. BRL : Below reporting limit.

Sample I.D. : JC0-1041F V-3
Matrix : WATER
Date sampled : 06-16-88
Date analyzed: 06-28-88
Dilut. factor: NONE

Anametrix I.D. : 8806109-02
Analyst : JC
Supervisor : BWS
Date released : 07-05-88
Instrument ID : F1

CAS #	Compound Name	Reporting Limit (ug/l)	Amount Found (ug/l)
74-87-3	* Chloromethane	10	BRL
75-01-4	* Vinyl Chloride	10	BRL
74-83-9	* Bromomethane	10	BRL
75-00-3	* Chloroethane	10	BRL
75-69-4	* Trichlorofluoromethane	5	BRL
75-35-4	* 1,1-Dichloroethene	5	BRL
76-13-1	# Trichlorotrifluoroethane	5	BRL
67-64-1	**Acetone	20	BRL
75-15-0	**Carbondisulfide	5	BRL
75-09-2	* Methylene Chloride	5	BRL
156-60-5	* Trans-1,2-Dichloroethene	5	BRL
75-34-3	* 1,1-Dichloroethane	5	8
78-93-3	**2-Butanone	20	BRL
156-59-2	* Cis-1,2-Dichloroethene	5	BRL
67-66-3	* Chloroform	5	BRL
71-55-6	* 1,1,1-Trichloroethane	5	BRL
56-23-5	* Carbon Tetrachloride	5	BRL
71-43-2	* Benzene	5	BRL
107-06-2	* 1,2-Dichloroethane	5	BRL
79-01-6	* Trichloroethene	5	BRL
78-87-5	* 1,2-Dichloropropane	5	BRL
75-27-4	* Bromodichloromethane	5	BRL
110-75-8	* 2-Chloroethylvinylether	5	BRL
108-05-4	**Vinyl Acetate	10	BRL
10061-02-6	* Trans-1,3-Dichloropropene	5	BRL
108-10-1	**4-Methyl-2-Pentanone	10	BRL
108-88-3	* Toluene	5	BRL
10061-01-5	* cis-1,3-Dichloropropene	5	BRL
79-00-5	* 1,1,2-Trichloroethane	5	BRL
127-18-4	* Tetrachloroethene	5	BRL
591-78-6	**2-Hexanone	10	BRL
124-48-1	* Dibromochloromethane	5	BRL
108-90-7	* Chlorobenzene	5	BRL
100-41-4	* Ethylbenzene	5	BRL
1330-20-7	**Total Xylenes	5	BRL
100-42-5	**Styrene	5	BRL
75-25-2	* Bromoform	5	BRL
79-34-5	* 1,1,2,2-Tetrachloroethane	5	BRL
541-73-1	* 1,3-Dichlorobenzene	5	BRL
106-46-7	* 1,4-Dichlorobenzene	5	BRL
95-50-1	* 1,2-Dichlorobenzene	5	BRL

CAS #	Surrogate Compounds	Limits	% Recovery
17060-07-0	1,2-Dichloroethane-d4	84-132%	113%
2037-26-5	Toluene-d8	85-124%	100%
460-00-4	p-Bromofluorobenzene	74-116%	83%

* A Method 624 priority pollutant compound (Federal Register, 10/26/84)
** A compound on the U.S. EPA CLP Hazardous Substance List (HSL)
\# A compound added by Anametrix, Inc. BRL : Below reporting limit.

ORGANIC ANALYSIS DATA SHEET - EPA METHOD 624/8240
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : JC0-1041F-MB 1-15
Matrix : WATER
Date sampled : 06-15-88
Date analyzed: 06-28-88
Dilut. factor: NONE

Anametrix I.D. : 8806109-03
Analyst : TC
Supervisor : BDS
Date released : 07-05-88
Instrument ID : F1

CAS #	Compound Name	Reporting Limit (ug/l)	Amount Found (ug/l)
74-87-3	* Chloromethane	10	BRL
75-01-4	* Vinyl Chloride	10	BRL
74-83-9	* Bromomethane	10	BRL
75-00-3	* Chloroethane	10	BRL
75-69-4	* Trichlorofluoromethane	5	BRL
75-35-4	* 1,1-Dichloroethene	5	BRL
76-13-1	# Trichlorotrifluoroethane	5	BRL
67-64-1	**Acetone	20	BRL
75-15-0	**Carbondisulfide	5	BRL
75-09-2	* Methylene Chloride	5	BRL
156-60-5	* Trans-1,2-Dichloroethene	5	BRL
75-34-3	* 1,1-Dichloroethane	5	BRL
78-93-3	**2-Butanone	20	BRL
156-59-2	* Cis-1,2-Dichloroethene	5	BRL
67-66-3	* Chloroform	5	BRL
71-55-6	* 1,1,1-Trichloroethane	5	BRL
56-23-5	* Carbon Tetrachloride	5	BRL
71-43-2	* Benzene	5	BRL
107-06-2	* 1,2-Dichloroethane	5	BRL
79-01-6	* Trichloroethene	5	BRL
78-87-5	* 1,2-Dichloropropane	5	BRL
75-27-4	* Bromodichloromethane	5	BRL
110-75-8	* 2-Chloroethylvinylether	5	BRL
108-05-4	**Vinyl Acetate	10	BRL
10061-02-6	* Trans-1,3-Dichloropropene	5	BRL
108-10-1	**4-Methyl-2-Pentanone	10	BRL
108-88-3	* Toluene	5	BRL
10061-01-5	* cis-1,3-Dichloropropene	5	BRL
79-00-5	* 1,1,2-Trichloroethane	5	BRL
127-18-4	* Tetrachloroethene	5	BRL
591-78-6	**2-Hexanone	10	BRL
124-48-1	* Dibromochloromethane	5	BRL
108-90-7	* Chlorobenzene	5	BRL
100-41-4	* Ethylbenzene	5	BRL
1330-20-7	**Total Xylenes	5	BRL
100-42-5	**Styrene	5	BRL
75-25-2	* Bromoform	5	BRL
79-34-5	* 1,1,2,2-Tetrachloroethane	5	BRL
541-73-1	* 1,3-Dichlorobenzene	5	BRL
106-46-7	* 1,4-Dichlorobenzene	5	BRL
95-50-1	* 1,2-Dichlorobenzene	5	BRL

CAS #	Surrogate Compounds	Limits	% Recovery
17060-07-0	1,2-Dichloroethane-d4	84-132%	105%
2037-26-5	Toluene-d8	85-124%	95%
460-00-4	p-Bromofluorobenzene	74-116%	85%

* A Method 624 priority pollutant compound (Federal Register, 10/26/84)
** A compound on the U.S. EPA CLP Hazardous Substance List (HSL)
\# A compound added by Anametrix, Inc. BRL : Below reporting limit.

ANAMETRIX, INC. (408) 432-8192

Sample I.D. : JCO-1041F-MB 1-16
Matrix : WATER
Date sampled : 06-16-88
Date analyzed: 06-30-88
Dilut. factor: NONE

Anametrix I.D. : 8806109-04
Analyst : TC
Supervisor : BDS
Date released : 07-05-88
Instrument ID : F1

CAS #	Compound Name	Reporting Limit (ug/l)	Amount Found (ug/l)
74-87-3	* Chloromethane	10	BRL
75-01-4	* Vinyl Chloride	10	BRL
74-83-9	* Bromomethane	10	BRL
75-00-3	* Chloroethane	10	BRL
75-69-4	* Trichlorofluoromethane	5	BRL
75-35-4	* 1,1-Dichloroethene	5	BRL
76-13-1	# Trichlorotrifluoroethane	5	BRL
67-64-1	**Acetone	20	BRL
75-15-0	**Carbondisulfide	5	BRL
75-09-2	* Methylene Chloride	5	BRL
156-60-5	* Trans-1,2-Dichloroethene	5	BRL
75-34-3	* 1,1-Dichloroethane	5	BRL
78-93-3	**2-Butanone	20	BRL
156-59-2	* Cis-1,2-Dichloroethene	5	BRL
67-66-3	* Chloroform	5	BRL
71-55-6	* 1,1,1-Trichloroethane	5	BRL
56-23-5	* Carbon Tetrachloride	5	BRL
71-43-2	* Benzene	5	BRL
107-06-2	* 1,2-Dichloroethane	5	BRL
79-01-6	* Trichloroethene	5	BRL
78-87-5	* 1,2-Dichloropropane	5	BRL
75-27-4	* Bromodichloromethane	5	BRL
110-75-8	* 2-Chloroethylvinylether	5	BRL
108-05-4	**Vinyl Acetate	10	BRL
10061-02-6	* Trans-1,3-Dichloropropene	5	BRL
108-10-1	**4-Methyl-2-Pentanone	10	BRL
108-88-3	* Toluene	5	BRL
10061-01-5	* cis-1,3-Dichloropropene	5	BRL
79-00-5	* 1,1,2-Trichloroethane	5	BRL
127-18-4	* Tetrachloroethene	5	BRL
591-78-6	**2-Hexanone	10	BRL
124-48-1	* Dibromochloromethane	5	BRL
108-90-7	* Chlorobenzene	5	BRL
100-41-4	* Ethylbenzene	5	BRL
1330-20-7	**Total Xylenes	5	BRL
100-42-5	**Styrene	5	BRL
75-25-2	* Bromoform	5	BRL
79-34-5	* 1,1,2,2-Tetrachloroethane	5	BRL
541-73-1	* 1,3-Dichlorobenzene	5	BRL
106-46-7	* 1,4-Dichlorobenzene	5	BRL
95-50-1	* 1,2-Dichlorobenzene	5	BRL

CAS #	Surrogate Compounds	Limits	% Recovery
17060-07-0	1,2-Dichloroethane-d4	84-132%	90%
2037-26-5	Toluene-d8	85-124%	98%
460-00-4	p-Bromofluorobenzene	74-116%	97%

* A Method 624 priority pollutant compound (Federal Register, 10/26/84)
** A compound on the U.S. EPA CLP Hazardous Substance List (HSL)
\# A compound added by Anametrix, Inc. BRL : Below reporting limit.

ORGANIC ANALYSIS DATA SHEET - EPA METHOD 624/8240
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : JCO-1041F-TB 1-15
Matrix : WATER
Date sampled : 06-15-88
Date analyzed: 06-28-88
Dilut. factor: NONE

Anametrix I.D. : 8806109-05
Analyst : TC
Supervisor : BWS
Date released : 07-05-88
Instrument ID : F1

CAS #	Compound Name	Reporting Limit (ug/l)	Amount Found (ug/l)
74-87-3	* Chloromethane	10	BRL
75-01-4	* Vinyl Chloride	10	BRL
74-83-9	* Bromomethane	10	BRL
75-00-3	* Chloroethane	10	BRL
75-69-4	* Trichlorofluoromethane	5	BRL
75-35-4	* 1,1-Dichloroethene	5	BRL
76-13-1	# Trichlorotrifluoroethane	5	BRL
67-64-1	**Acetone	20	BRL
75-15-0	**Carbondisulfide	5	BRL
75-09-2	* Methylene Chloride	5	BRL
156-60-5	* Trans-1,2-Dichloroethene	5	BRL
75-34-3	* 1,1-Dichloroethane	5	BRL
78-93-3	**2-Butanone	20	BRL
156-59-2	* Cis-1,2-Dichloroethene	5	BRL
67-66-3	* Chloroform	5	BRL
71-55-6	* 1,1,1-Trichloroethane	5	BRL
56-23-5	* Carbon Tetrachloride	5	BRL
71-43-2	* Benzene	5	BRL
107-06-2	* 1,2-Dichloroethane	5	BRL
79-01-6	* Trichloroethene	5	BRL
78-87-5	* 1,2-Dichloropropane	5	BRL
75-27-4	* Bromodichloromethane	5	BRL
110-75-8	* 2-Chloroethylvinylether	5	BRL
108-05-4	**Vinyl Acetate	10	BRL
10061-02-6	* Trans-1,3-Dichloropropene	5	BRL
108-10-1	**4-Methyl-2-Pentanone	10	BRL
108-88-3	* Toluene	5	BRL
10061-01-5	* cis-1,3-Dichloropropene	5	BRL
79-00-5	* 1,1,2-Trichloroethane	5	BRL
127-18-4	* Tetrachloroethene	5	BRL
591-78-6	**2-Hexanone	10	BRL
124-48-1	* Dibromochloromethane	5	BRL
108-90-7	* Chlorobenzene	5	BRL
100-41-4	* Ethylbenzene	5	BRL
1330-20-7	**Total Xylenes	5	BRL
100-42-5	**Styrene	5	BRL
75-25-2	* Bromoform	5	BRL
79-34-5	* 1,1,2,2-Tetrachloroethane	5	BRL
541-73-1	* 1,3-Dichlorobenzene	5	BRL
106-46-7	* 1,4-Dichlorobenzene	5	BRL
95-50-1	* 1,2-Dichlorobenzene	5	BRL

CAS #	Surrogate Compounds	Limits	% Recovery
17060-07-0	1,2-Dichloroethane-d4	84-132%	109%
2037-26-5	Toluene-d8	85-124%	100%
460-00-4	p-Bromofluorobenzene	74-116%	84%

* A Method 624 priority pollutant compound (Federal Register, 10/26/84)
** A compound on the U.S. EPA CLP Hazardous Substance List (HSL)
\# A compound added by Anametrix, Inc. BRL : Below reporting limit.

ORGANICS ANALYSIS DATA SHEET - TENTATIVELY IDENTIFIED COMPOUNDS
ANAMETRIX, INC. (408) 432-8192

Sample I.D.	: JCO-1041F V-3	Anametrix I.D.	: 8806109-02
Matrix	: WATER	Analyst	: ARL
Date Sampled	: 06-16-88	Supervisor	: BWS
Analyzed VOA	: 06-28-88	Date Released	: 07-05-88
Dilution VOA	: NONE		
Analyzed SV	: NA		
Dilution SV	: NA		

	CAS #	Scan#	Volatile Fraction Compound Name	Det. Limit ppb	Amt. Found ppb
1	3638-35-5	495	(1-methylethyl)-cyclopropane	5	<5
2				5	
3				5	
4				5	
5				5	
6				5	
7				5	
8				5	
9				5	
10				5	

	CAS #	Scan#	Semivolatile Fraction Compound Name	Det. Limit ppb	Amt. Found ppb
1				10	
2				10	
3				10	
4				10	
5				10	
6				10	
7				10	
8				10	
9				10	
10				10	
11				10	
12				10	
13				10	
14				10	
15				10	
16				10	
17				10	
18				10	
19				10	
20				10	

Tentatively identified compounds are significant chromatographic peaks (TICs) other than priority pollutants. TIC spectra are compared with entries in the National Bureau of Standards mass spectral library. Identification is made by following US EPA guidelines and acceptance criteria. TICs are quantitated by using the area of the nearest internal standard and assuming a response factor of one (1). Values calculated are ESTIMATES ONLY.

ANAMETRIX DATA SHEET - EPA METHOD 624/8240
ANAMETRIX, INC. (408) 432-8192

Sample I.D.	: METHOD BLANK	Anametrix I.D.	: 8806109-05
Matrix	: WATER	Analyst	: TC
Date sampled	: NA	Supervisor	: BWS
Date analyzed	: 06-28-88	Date released	: 07-05-88
Dilut. factor	: NONE	Instrument ID	: F1

CAS #	Compound Name	Reporting Limit (ug/l)	Amount Found (ug/l)
74-87-3	* Chloromethane	10	BRL
75-01-4	* Vinyl Chloride	10	BRL
74-83-9	* Bromomethane	10	BRL
75-00-3	* Chloroethane	10	BRL
75-69-4	* Trichlorofluoromethane	5	BRL
75-35-4	* 1,1-Dichloroethene	5	BRL
76-13-1	# Trichlorotrifluoroethane	5	BRL
67-64-1	**Acetone	20	BRL
75-15-0	**Carbondisulfide	5	BRL
75-09-2	* Methylene Chloride	5	BRL
156-60-5	* Trans-1,2-Dichloroethene	5	BRL
75-34-3	* 1,1-Dichloroethane	5	BRL
78-93-3	**2-Butanone	20	BRL
156-59-2	* Cis-1,2-Dichloroethene	5	BRL
67-66-3	* Chloroform	5	BRL
71-55-6	* 1,1,1-Trichloroethane	5	BRL
56-23-5	* Carbon Tetrachloride	5	BRL
71-43-2	* Benzene	5	BRL
107-06-2	* 1,2-Dichloroethane	5	BRL
79-01-6	* Trichloroethene	5	BRL
78-87-5	* 1,2-Dichloropropane	5	BRL
75-27-4	* Bromodichloromethane	5	BRL
110-75-8	* 2-Chloroethylvinylether	5	BRL
108-05-4	**Vinyl Acetate	10	BRL
10061-02-6	* Trans-1,3-Dichloropropene	5	BRL
108-10-1	**4-Methyl-2-Pentanone	10	BRL
108-88-3	* Toluene	5	BRL
10061-01-5	* cis-1,3-Dichloropropene	5	BRL
79-00-5	* 1,1,2-Trichloroethane	5	BRL
127-18-4	* Tetrachloroethene	5	BRL
591-78-6	**2-Hexanone	10	BRL
124-48-1	* Dibromochloromethane	5	BRL
108-90-7	* Chlorobenzene	5	BRL
100-41-4	* Ethylbenzene	5	BRL
1330-20-7	**Total Xylenes	5	BRL
100-42-5	**Styrene	5	BRL
75-25-2	* Bromoform	5	BRL
79-34-5	* 1,1,2,2-Tetrachloroethane	5	BRL
541-73-1	* 1,3-Dichlorobenzene	5	BRL
106-46-7	* 1,4-Dichlorobenzene	5	BRL
95-50-1	* 1,2-Dichlorobenzene	5	BRL

CAS #	Surrogate Compounds	Limits	% Recovery
17060-07-0	1,2-Dichloroethane-d4	84-132%	108%
2037-26-5	Toluene-d8	85-124%	102%
460-00-4	p-Bromofluorobenzene	74-116%	49%

* A Method 624 priority pollutant compound (Federal Register, 10/26/84)
** A compound on the U.S. EPA CLP Hazardous Substance List (HSL)
\# A compound added by Anametrix, Inc. BRL : Below reporting limit.

ANAMETRIX, INC. (408) 432-8192

Sample I.D.	: METHOD BLANK	Anametrix I.D.	: 1CB0630V002
Matrix	: WATER	Analyst	: TC
Date sampled	: NA	Supervisor	: BWS
Date analyzed	: 06-30-88	Date released	: 07-05-88
Dilut. factor	: NONE	Instrument ID	: F1

CAS #	Compound Name	Reporting Limit (ug/l)	Amount Found (ug/l)
74-87-3	* Chloromethane	10	BRL
75-01-4	* Vinyl Chloride	10	BRL
74-83-9	* Bromomethane	10	BRL
75-00-3	* Chloroethane	10	BRL
75-69-4	* Trichlorofluoromethane	5	BRL
75-35-4	* 1,1-Dichloroethene	5	BRL
76-13-1	# Trichlorotrifluoroethane	5	BRL
67-64-1	**Acetone	20	BRL
75-15-0	**Carbondisulfide	5	BRL
75-09-2	* Methylene Chloride	5	BRL
156-60-5	* Trans-1,2-Dichloroethene	5	BRL
75-34-3	* 1,1-Dichloroethane	5	BRL
78-93-3	**2-Butanone	20	BRL
156-59-2	* Cis-1,2-Dichloroethene	5	BRL
67-66-3	* Chloroform	5	BRL
71-55-6	* 1,1,1-Trichloroethane	5	BRL
56-23-5	* Carbon Tetrachloride	5	BRL
71-43-2	* Benzene	5	BRL
107-06-2	* 1,2-Dichloroethane	5	BRL
79-01-6	* Trichloroethene	5	BRL
78-87-5	* 1,2-Dichloropropane	5	BRL
75-27-4	* Bromodichloromethane	5	BRL
110-75-8	* 2-Chloroethylvinylether	5	BRL
108-05-4	**Vinyl Acetate	10	BRL
10061-02-6	* Trans-1,3-Dichloropropene	5	BRL
108-10-1	**4-Methyl-2-Pentanone	10	BRL
108-88-3	* Toluene	5	BRL
10061-01-5	* cis-1,3-Dichloropropene	5	BRL
79-00-5	* 1,1,2-Trichloroethane	5	BRL
127-18-4	* Tetrachloroethene	5	BRL
591-78-6	**2-Hexanone	10	BRL
124-48-1	* Dibromochloromethane	5	BRL
108-90-7	* Chlorobenzene	5	BRL
100-41-4	* Ethylbenzene	5	BRL
1330-20-7	**Total Xylenes	5	BRL
100-42-5	**Styrene	5	BRL
75-25-2	* Bromoform	5	BRL
79-34-5	* 1,1,2,2-Tetrachloroethane	5	BRL
541-73-1	* 1,3-Dichlorobenzene	5	BRL
106-46-7	* 1,4-Dichlorobenzene	5	BRL
95-50-1	* 1,2-Dichlorobenzene	5	BRL

CAS #	Surrogate Compounds	Limits	% Recovery
17060-07-0	1,2-Dichloroethane-d4	84-132%	93%
2037-26-5	Toluene-d8	85-124%	99%
460-00-4	p-Bromofluorobenzene	74-116%	111%

* A Method 624 priority pollutant compound (Federal Register, 10/26/84)
** A compound on the U.S. EPA CLP Hazardous Substance List (HSL)
\# A compound added by Anametrix, Inc. BRL : Below reporting limit.

ANAMETRIX, INC. (408) 629-1132

Sample I.D. : JCO-1041F V-3
Matrix : WATER
Date Sampled : 06-16-88
Date analyzed : 06-28-88

Anametrix I.D.: 8806109-02
Analyst : TC
Supervisor : BDS
Date released : 07-05-

COMPOUND	SPIKE AMT. (UG/KG)	8806109 MS (UG/KG)	%REC MS	8806109 MSD (UG/KG)	%REC MSD	RPD	%REC LIMITS*
1,1-DICHLOROETHENE	50	44	88%	44	88%	0%	37-155%
FREON 113	50	53	106%	57	114%	7%	48-161%
METHYLENE CHLORIDE	50	48	96%	51	102%	6%	46-141%
CHLOROFORM	50	50	100%	54	108%	8%	68-126%
1,1,1-TRICHLOROETHANE	50	58	116%	58	116%	0%	57-149%
BENZENE	50	53	106%	53	106%	0%	64-134%
1,2-DICHLOROETHANE	50	54	108%	54	108%	0%	49-128%
TRICHLOROETHENE	50	45	90%	43	86%	-5%	60-110%
4-METHYL-2-PENTANONE	50	55	110%	55	110%	0%	35-147%
TOLUENE	50	59	118%	55	110%	-7%	67-134%
CHLOROBENZENE	50	53	106%	55	110%	4%	70-131%
1,2-DICHLOROBENZENE	50	21	42%	20	40%	-5%	63-130%

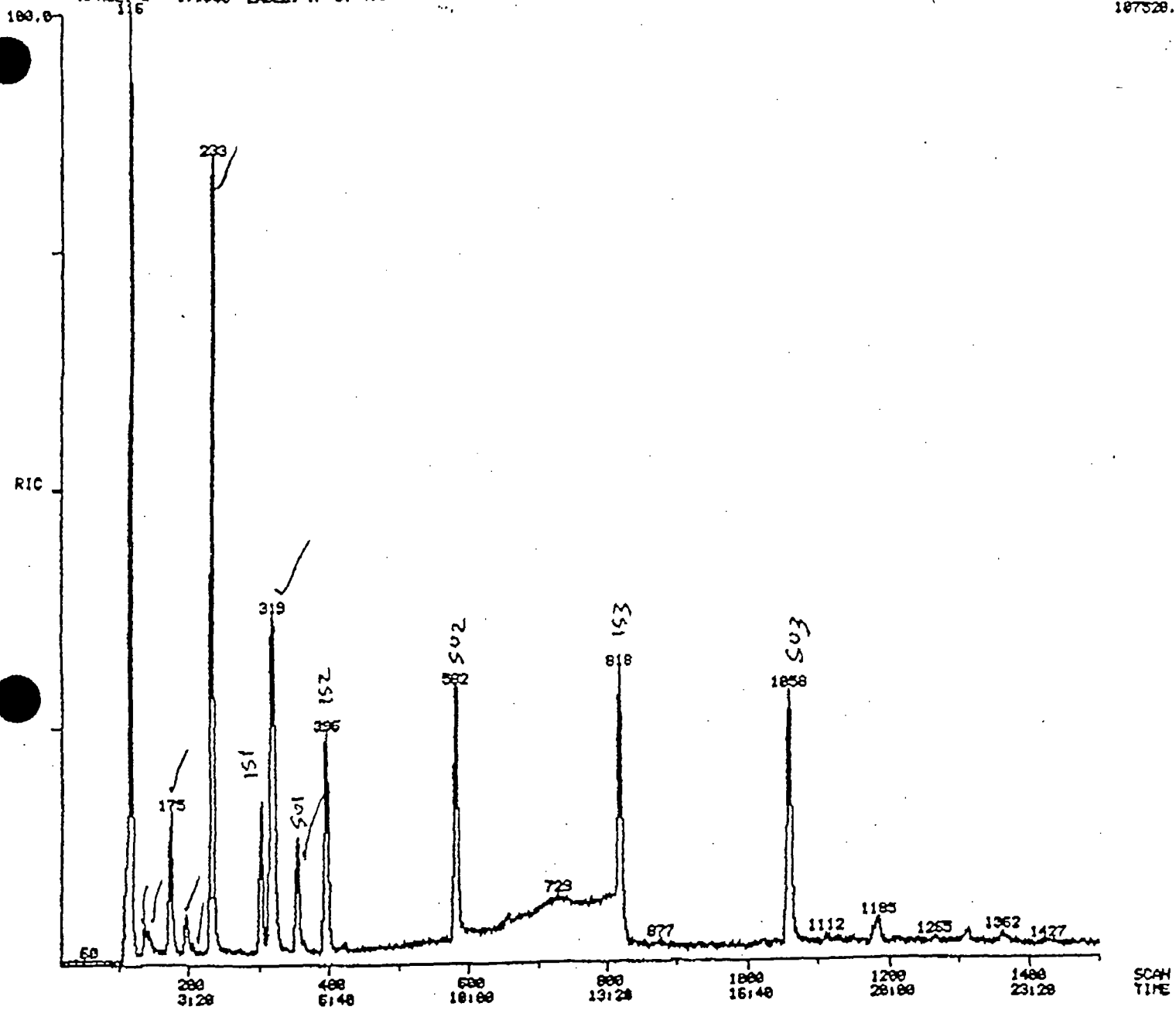
* Limits established by Anametrix, Inc.

#1

RIC
06/28/88 28:51:00
SAMPLE: JCO-1041F U-4
CONDS.: M624/8240.35-120@4DEG/MIN,UOCOL,INSTRUMENT F1
RANGE: G 1.1500 LABEL: H 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 1CU06109U01 #1 SCANS 20 TO 1500
CALI: CALTAB #2

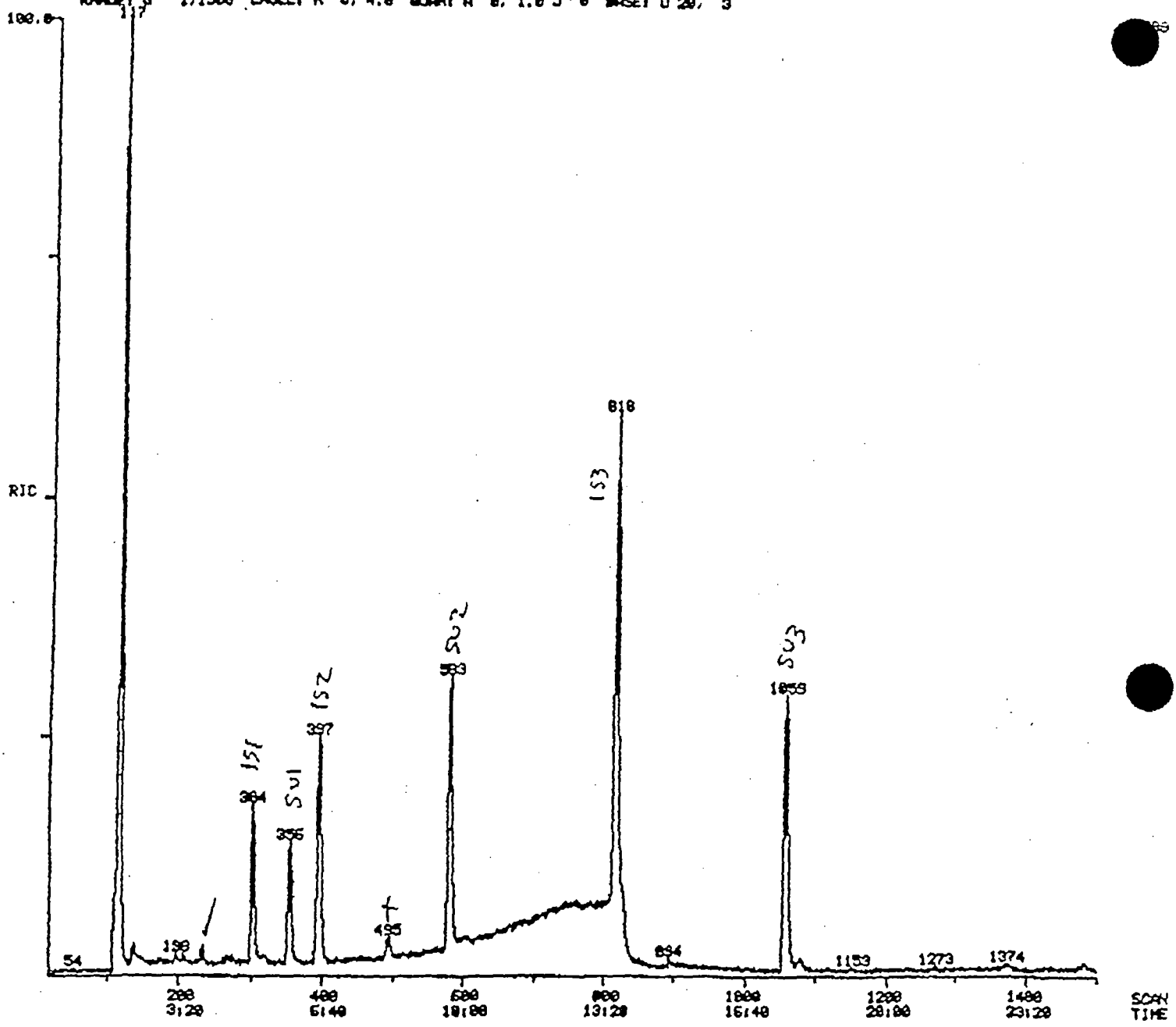
107520.



#2

RIC
05/28/89 19:22:00
SAMPLE: JCO-1041F U-9
CONDS.: M624/8240,35-120@4DEG/MIN,UOCOL,INSTRUMENT F1
RANGE: G 1,1500 LABEL: K 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 1CU05189U02 #1 SCANS 20 TO 1500
CALI: CALTAB #2

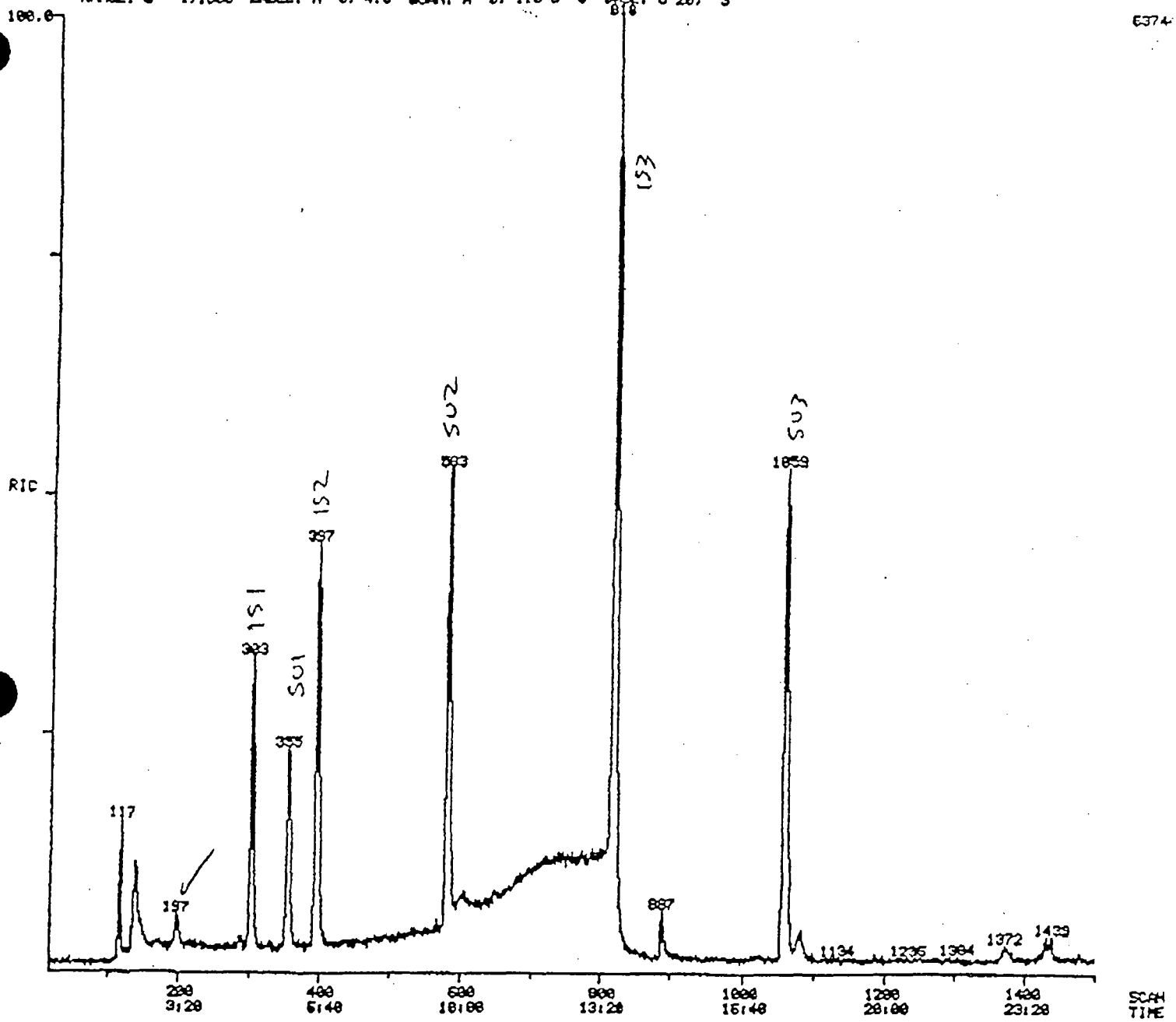


#3

RIC
06/28/88 15:48:00
SAMPLE: JCO-141F-MB I-15
CONDS.: M624/8240,35-120@4DEG/MIN,VOCOL,INSTRUMENT F1
RANGE: C 1,1500 LABEL: H 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 1CU86109U03 01 SCANS 20 TO 1500
CALI: CALTAB 02

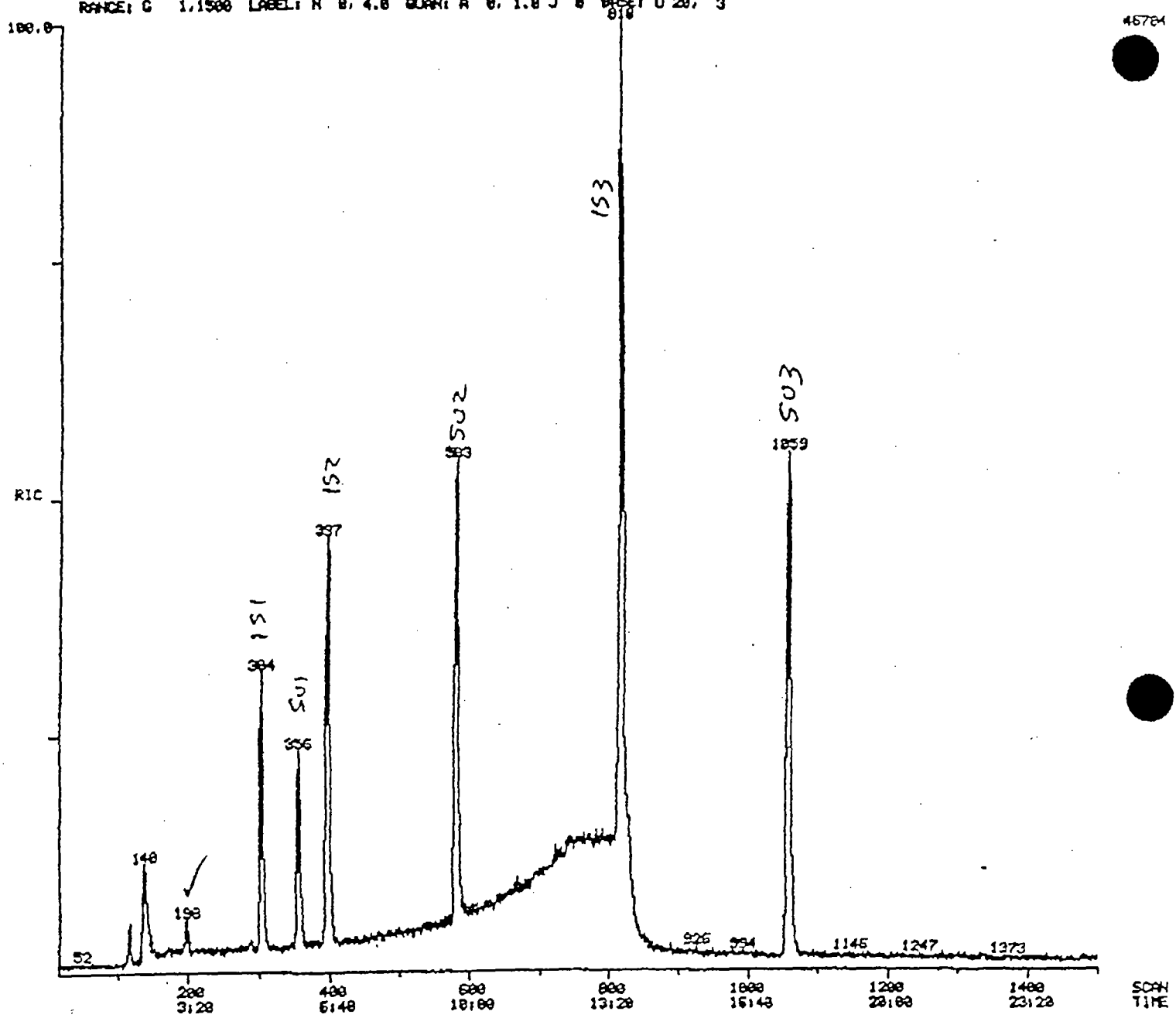
E374



#4

RIC
06/30/88 22:03:00
SAMPLE: JCO-1041F MB 1-16
CONDS.: M624/8240,35-120@4DEG/MIN,VOCOL,INSTRUMENT F1
RANGE: G 1,1500 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

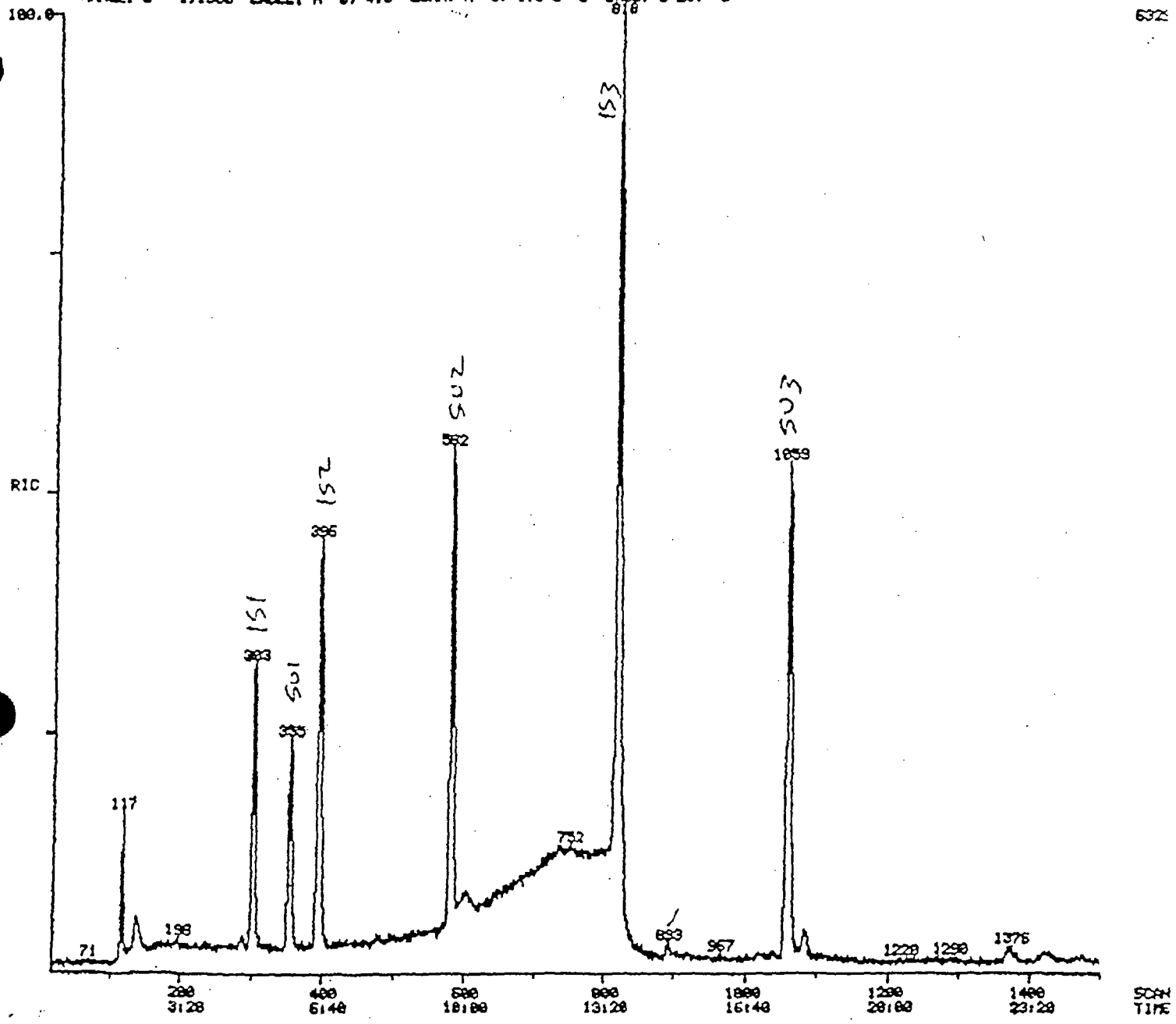
DATA: 1CV06109V04 #1 SCANS 20 TO 1500
CALI: CALTAB #2



#5

RIC
06/20/88 16:18:00
SAMPLE: JCO-1041F-TB1-15
CONDS.: M624/8240,35-120@4DEG/MIN,VOCOL,INSTRUMENT F1
RANGE: G 1,1500 LABEL: H 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

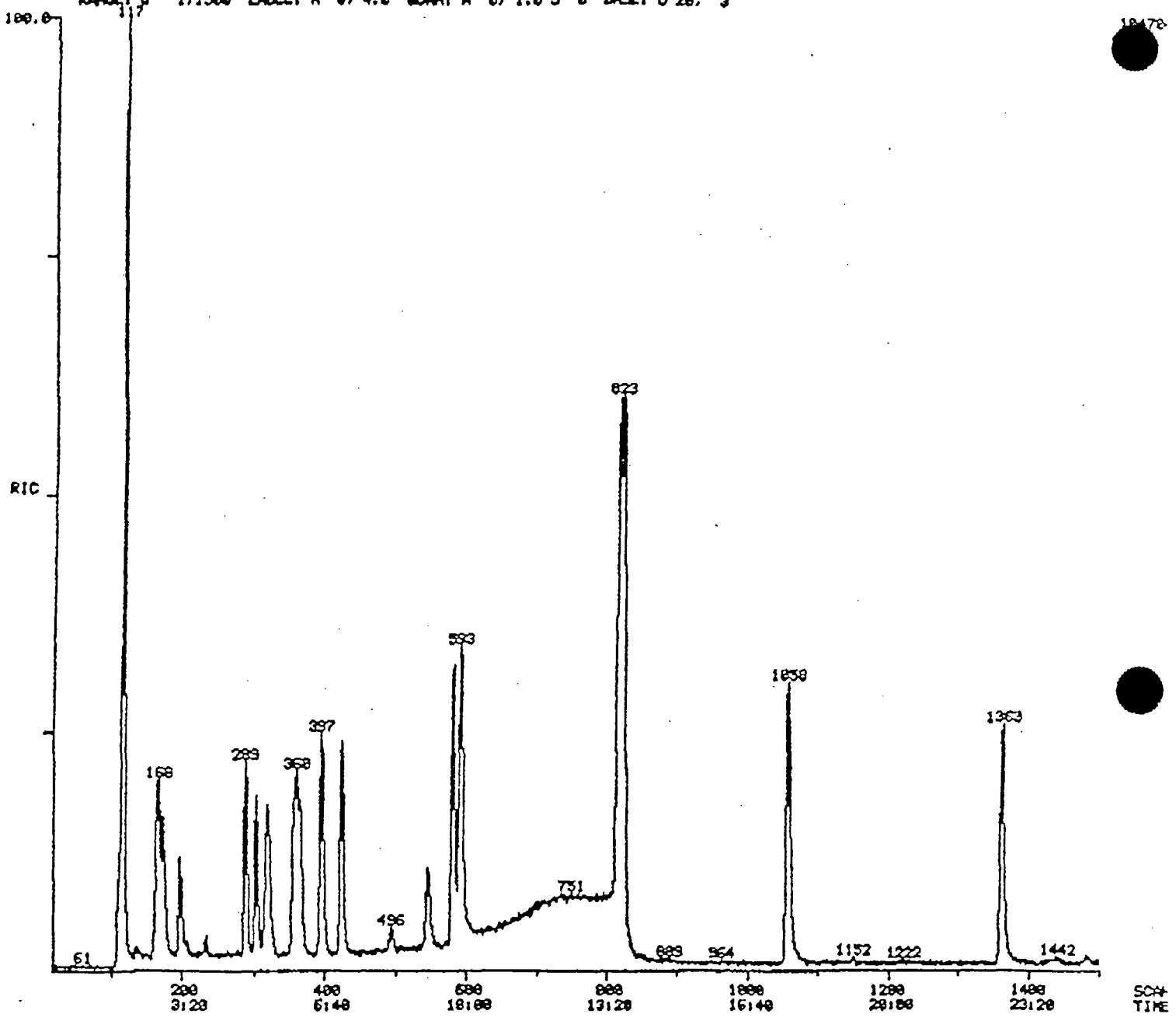
DATA: 1CU06109V05 #1 SCANS 20 TO 1500
CALI: CALTAB #2



Matrix Spike

RIC
06/28/88 19:52:00
SAMPLE: JCO-1841F V-3 MS
CONDS.: M524/8240,35-120@4DEG/MIN,VOCOL,INSTRUMENT F1
RANGE: C 1,1500 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: ICM06180V02 01 SCANS 20 TO 1500
CALI: CALTAB 02

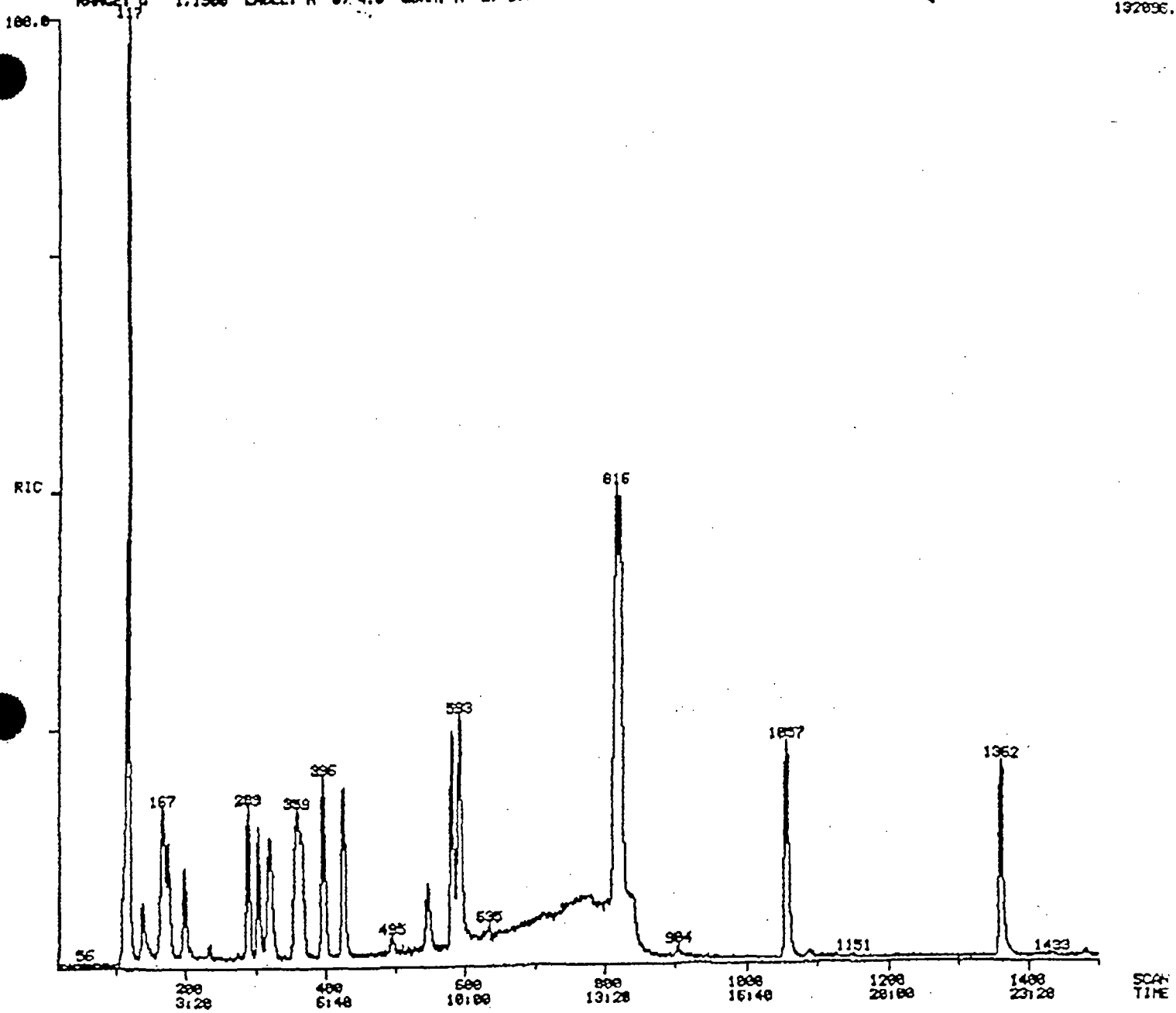


Matrix Spike Duplicate

RIC
06/20/88 20:22:00
SAMPLE: JCO-1841F V-3 MSD
CONDS.: MG24/8240,35-120@4DEG/MIN,VOCOL,INSTRUMENT F1
RANGE: C 1.1500 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 1CD06109U02 01 SCANS 20 TO 1500
CALI: CALTA0 02

192096.



WATER SAMPLING PARAMETERS

DATE: 6/16/88

PROJECT NO.: JCO-164A

LOCATION: Mountain View

SAMPLERS: Peter T., Mike C.

SAMPLE ID: V-1

3BY:

WATER LEVEL	GALLONS REMOVED	TIME	TEMP. C°	pH	Eh (mV)	COND. (micromhos)	DO mg/l	Q GPM	BOH
24.59	0	2:40		6.9					
	2	2:50		6.95					
	5	3:00		6.8					
	10	3:10		6.81					
	15	3:20		6.81					
	20	3:35		6.8					

TIME SAMPLED: 3:35

COMMENTS:

SAMPLES TAKEN	
	EPA 624
	EPA 625
	EPA 608
	METALS
	CYANIDE

Wahler Associates

WATER SAMPLING PARAMETERS

DATE: 6/16/88

PROJECT NO.: JCC 1044

LOCATION: Jasco Mountain View

SAMPLERS: Peter T, Mike C.

SAMPLE ID: V-3

Well V-3

3BY:

WATER LEVEL	GALLONS REMOVED	TIME	TEMP. C°	pH	Eh (mV)	COND. (micromhos)	DO mg/l	Q GPM	BOH
~~25~~	~~0~~								
24.89	0	3:30		6.7					
	15	4:05		6.75					
	30	4:20		6.9					
	40	4:40		6.9					

TIME SAMPLED: 4:40

COMMENTS:

SAMPLES TAKEN	
	EPA 624
	EPA 625
	EPA 608
	METALS
	CYANIDE

Wahler Associates

WATER SAMPLING PARAMETERS

DATE: 6-16-88

PROJECT NO.: JCO-1044

LOCATION: MH. V.S.W

SAMPLERS: M C. PT

SAMPLE ID: V-5

3BV: 10

WATER LEVEL	GALLONS REMOVED	TIME	TEMP. C°	pH	Eh (mV)	COND. (micromhos)	DO mg/l	Q GPM	BOH
26.90'	~~0~~	0945		6.95					
	3	1000		6.90					
	6	1010		6.90					
	10	1020		6.87					

TIME SAMPLED:

COMMENTS: Conductivity / Temp. meter quit at 0945 AM
1st well of the day!!

SAMPLES TAKEN	
	EPA 624
	EPA 625
	EPA 608
	METALS
	CYANIDE

Wahler Associates

WATER SAMPLING PARAMETERS

DATE: 6-16-88

PROJECT NO.: J00-1044

LOCATION: Mt. View

SAMPLERS: MC. PT

SAMPLE ID: V-6

3BV: 15

WATER LEVEL	GALLONS REMOVED	TIME	TEMP. C°	pH	Eh (mV)	COND. (micromhos)	DO mg/l	Q GPM	BOH
25.54	~~0~~	16:40		6.50					
	5	11:05		5.62					
	10	11:8		6.7					
	5	11:20		6.7					

TIME SAMPLED:

COMMENTS:

SAMPLES TAKEN	
	EPA 624
	EPA 625
	EPA 608
	METALS
	CYANIDE

Wahler Associates

WATER SAMPLING PARAMETERS

DATE: 6-15-88

PROJECT NO.: JCO-104H

LOCATION: MH. VIEW

SAMPLERS: MC. PT

SAMPLE ID: V-7

3BV: 10

WATER LEVEL	GALLONS REMOVED	TIME	TEMP. C°	pH	Eh (mV)	COND. (micromhos)	DO mg/l	Q GPM	BOH
24.16	~~5~~	3:50	25	7		850			
	3	4:02	23	7		1600			
	6	4:10	20	6.95		1700			
	10	4:20	20	6.95		2300			

TIME SAMPLED: 4:20

COMMENTS:

SAMPLES TAKEN	
	EPA 624
	EPA 625
	EPA 608
	METALS
	CYANIDE

Wahler Associates

WATER SAMPLING PARAMETERS

DATE: 6-15-88

PROJECT NO.: JCU-1044

LOCATION: Mt. View

SAMPLERS: MC. PT

SAMPLE ID: V-8

3BY: //

WATER LEVEL	GALLONS REMOVED	TIME	TEMP. C°	pH	Eh (mV)	COND. (micromhos)	DO mg/l	Q GPM	BOH
24.77	0	12:40	20	6.8		2500			
	4	12:55	20	6.9		2000			
	8	1301	20	6.9		2000			
	11	1311	20	6.8		1950			

TIME SAMPLED: 13:11

COMMENTS:

SAMPLES TAKEN	
	EPA 624
	EPA 625
	EPA 608
	METALS
	CYANIDE

Wahler Associates

WATER SAMPLING PARAMETERS

DATE: [illegible]

PROJECT NO.: [illegible]

LOCATION: [illegible]

SAMPLERS: [illegible]

SAMPLE ID: V-9

3BV: 5

WATER LEVEL	GALLONS REMOVED	TIME	TEMP. C°	pH	Eh (mV)	COND. (micromhos)	DO mg/l	Q GPM	BOH
24.13	~~0~~	11:18	20	6.9		1200			
	1	11:25	19	6.9		1400			
	3	11:35	19	6.8		1300			
	5	11:45	19.5	6.6		1300			

TIME SAMPLED: 11:45

COMMENTS:

SAMPLES TAKEN	
	EPA 624
	EPA 625
	EPA 608
	METALS
	CYANIDE

Wahler Associates

WATER SAMPLING PARAMETERS

DATE: 6-16-88

PROJECT NO.: JCO-10LH

LOCATION: Mt. View

SAMPLERS: MC. PT

SAMPLE ID: V-10

3BY:

WATER LEVEL	GALLONS REMOVED	TIME	TEMP. C°	pH	Eh (mV)	COND. (micromhos)	DO mg/l	Q GPM	BOH
25.52	~~0~~	11:40		6.8					
	2	11:52		6.8					
	4	11:57		6.8					
	6	12:05		6.8					
	7	12:10							

TIME SAMPLED:

COMMENTS:

SAMPLES TAKEN	
	EPA 624
	EPA 625
	EPA 608
	METALS
	CYANIDE

Wahler Associates

WATER SAMPLING PARAMETERS

DATE: 6-16-88

PROJECT NO.: JCO-104H

LOCATION: Mt. View

SAMPLERS: MC. PT

SAMPLE ID: I-1

3BY: 27

WATER LEVEL	GALLONS REMOVED	TIME	TEMP. C°	pH	Eh (mV)	COND. (micromhos)	DO mg/l	Q GPM	BOH
26.09	~~0~~	1:05		6.8					
	10	1130		6.8					
	20	[illegible]		6.95					
	27			6.9					

TIME SAMPLED:

COMMENTS:

SAMPLES TAKEN	
	EPA 624
	EPA 625
	EPA 608
	METALS
	CYANIDE

Wahler Associates

WATER SAMPLING PARAMETERS

DATE: 6-[illegible]-88

PROJECT NO.: [illegible]

LOCATION: [illegible] Vi[illegible]

SAMPLERS: [illegible]

SAMPLE ID: T-2

BY: [illegible]6

WATER LEVEL	GALLONS REMOVED	TIME	TEMP. C°	pH	Eh (mV)	COND. (micromhos)	DO mg/l	Q GPM	BOH
24.24	0	[illegible]	[illegible]	7.05		1200			
	10	2:41	21	7.05		1200			
	[illegible]	3:[illegible]	19.5	7.02		1180			
	26	3:18	21	7.05		1190			

TIME SAMPLED: 3:18

COMMENTS:

SAMPLES TAKEN	
	EPA 624
	EPA 625
	EPA 608
	METALS
	CYANIDE

Wahler Associates

WATER SAMPLING PARAMETERS

DATE: 6-15-88

PROJECT NO.: [illegible]

LOCATION: MT VIEW

SAMPLERS: MC PT

SAMPLE ID: I-3

BBY: 26

WATER LEVEL	GALLONS REMOVED	TIME	TEMP. C°	pH	Eh (mV)	COND. (micromhos)	DO mg/l	Q GPM	BOH
1:58	~~0~~	1:35	20	7		1100			
	10	1:50	20	7		1100			
	25	2:05	20	7		1100			
	26	2:20	19.5	7.05		1120			

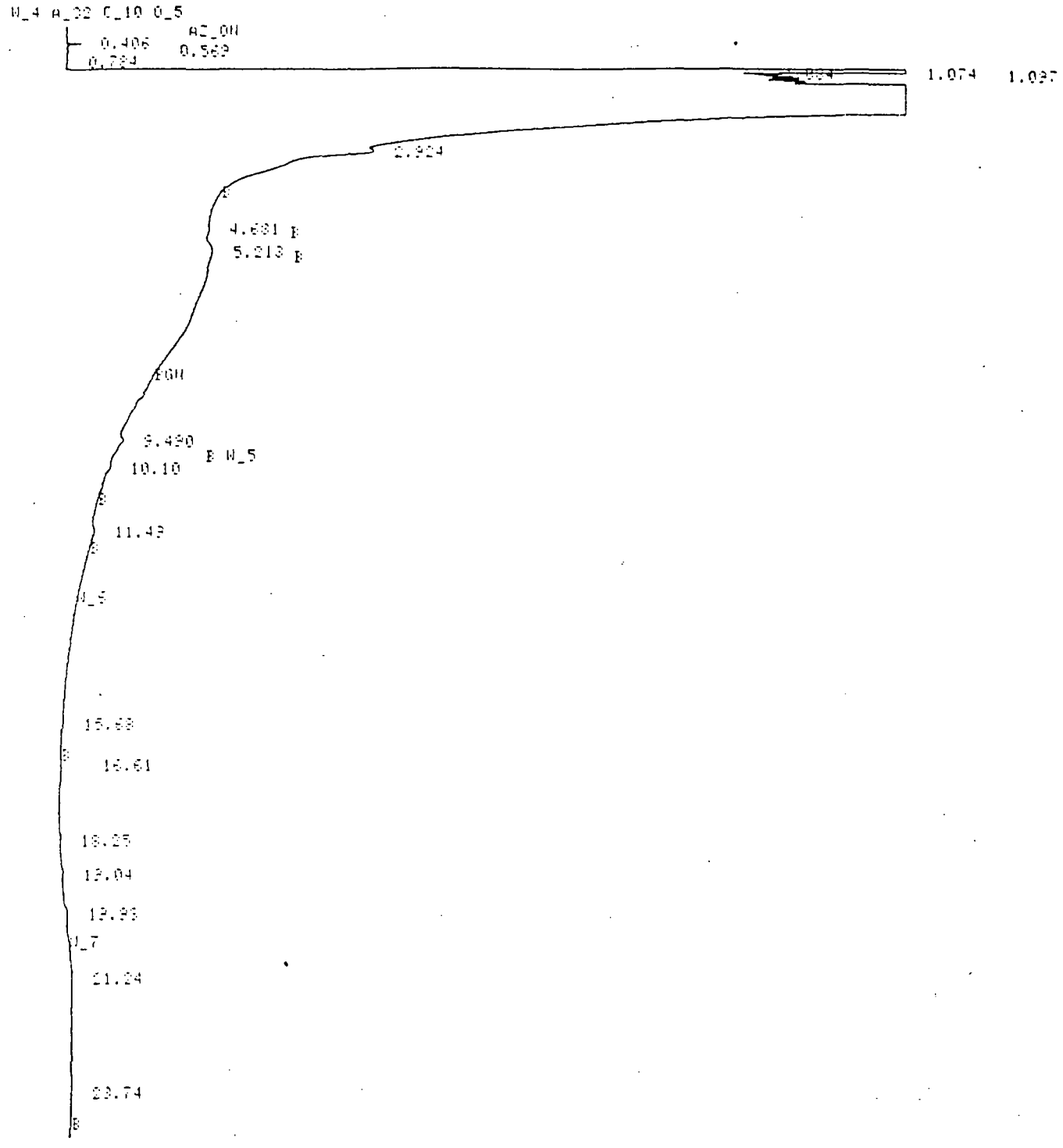
TIME SAMPLED: 2:27

COMMENTS:

SAMPLES TAKEN	
	EPA 624
	EPA 625
	EPA 608
	METALS
	CYANIDE

Wahler Associates

FILE 4 RUN 4 STARTED 02:40.2 80/01/01
% METHOD 1 DIESELS LAST EDITED 00:05.8 80/01/01 3.15 ml 8100246 900:2.3 10/20



FILE 4 RUN 4 STARTED 02:40.2 80/01/01
% METHOD 1 DIESELS LAST EDITED 00:05.8 80/01/01

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
9.490	24637	1.2519		29.7011	29.5040
10.10		0.6802			10.2912
11.49	17217	0.9442		20.7557	14.2722
15.68	3436	0.2056		4.1423	3.1077
16.61	6124	0.3616	V	7.3829	5.4652
18.25	4443	0.4695	V	5.3564	6.9628
19.04	5948	0.6204	V	7.1708	9.3772
19.93		0.5808	V		8.7794
21.24	15901	0.6452	V	19.1699	9.7532
23.74	5243	0.1652		6.3203	2.4972

8 PEAKS > AREA REJECT 82948 TOTAL AREA
10 PEAKS > HEIGHT REJECT 6.6157 TOTAL HEIGHT

SEQUOIA ANALYTICAL
680 Chesapeake Drive · Redwood City, CA 94063
(415) 364-9222 · FAX (415) 364-9233

RECEIVED

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Peter Lyon

Date Sampled: 10/3-4/88
Date Received: 10/06/88
Date Reported: 11/03/88
Project: #JCO-111H

LABORATORY ANALYSIS

Analyte: Turbidity, NTU

Sample Number	Sample Description	Detection Limit	Sample Result
	Water		
8100241	V-1	0.10	0.90
8100242	V-3	0.10	320
8100243	V-4	0.10	0.38
8100244	V-5	0.10	1.1
8100245	V-6	0.10	10
8100246	V-7	0.10	65
8100247	V-8	0.10	12
8100248	V-9	0.10	88
8100249	V-10	0.10	40
8100250	I-1	0.10	15
8100251	I-2	0.10	0.90
8100252	I-3	0.10	21

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL LABORATORY

Scott Cocan

Arthur G. Burton
Laboratory Director

SEQUOIA ANALYTICAL
680 Chesapeake Drive · Redwood City, CA 94063
(415) 364-9222 · FAX (415) 364-9233

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Peter Lyon

Date Sampled: 10/3,4/88
Date Received: 10/06/88
Date Analyzed: 10/21/88
Date Reported: 11/03/88
Project: #JCO-111H

High Boiling Point Hydrocarbons

Sample Number	Sample Description	Lacquer Thinner mg/L	Paint Thinner mg/L	Kerosene mg/L	Diesel mg/L
	Water				
8100241	V-1	N.D.	N.D.	N.D.	N.D.
8100242	V-3	N.D.	N.D.	N.D.	5.8 *
8100243	V-4	N.D.	N.D.	N.D.	N.D.
8100244	V-5	N.D.	N.D.	N.D.	N.D.
8100245	V-6	N.D.	N.D.	N.D.	N.D.
8100246	V-7	N.D.	N.D.	N.D.	N.D.
8100247	V-8	N.D.	N.D.	N.D.	N.D.
8100248	V-9	N.D.	N.D.	N.D.	N.D.
8100249	V-10	N.D.	N.D.	N.D.	N.D.
8100250	I-1	N.D.	N.D.	N.D.	N.D.
8100251	I-2	N.D.	N.D.	N.D.	N.D.
8100252	I-3	N.D.	N.D.	N.D.	N.D.
Detection Limits:		1.0	1.0	1.0	1.0

Method of Analysis: EPA 3810/8015 Modified

Analytes reported as N.D. Were not present above the stated limit of detection.

*- This value is due to a single peak component in the diesel chromatographic range. It does not appear to be diesel fuel.

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

SEQUOIA ANALYTICAL

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Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Peter Lyon

Date Sampled: 10/04/88
Date Received: 10/06/88
Date Analyzed: 10/17/88
Date Reported: 11/03/88
Project: #JCO-111H

Sample Number: 8100241

Sample Description: Water, V-1

VOLATILE ORGANICS by MASS SPECTROMETRY

Analyte	Detection Limit, µg/L	Sample Results, µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	10	N.D.
Chloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	4.3
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
Total-1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis-1,3-Dichloropropene	2.0	N.D.
trans-1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	10	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Method of Analysis: EPA 5030/8240
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

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Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Peter Lyon

Date Sampled: 10/04/88
Date Received: 10/06/88
Date Analyzed: 10/17/88
Date Reported: 11/03/88
Project: #JCO-111H

Sample Number	Sample Description
8100241	Water, V-1

VOLATILE ORGANICS by MASS SPECTROMETRY
Non-Calibrated Compounds

Analyte	Concentration µg/L

No additional peaks > 5 µg/L were identified by the Mass Spectral library.

Method of Analysis: EPA 8240 & "Open Scan"

NOTE: All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA/NIH library. Positive identification or specification between isomers cannot be made without retention time standards.

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Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Peter Lyon

Date Sampled: 10/04/88
Date Received: 10/06/88
Date Extracted: 10/11/88
Date Analyzed: 10/17/88
Date Reported: 11/03/88
Project: #JCO-111H

PHENOLS

Sample Number	Sample Description
8100241	Water, V-1

Analyte	Detection Limit µg/L	Sample Results µg/L
4-Chloro-3-methylphenol	10	N.D.
2-Chlorophenol	3	N.D.
2,4-Dichlorophenol	3	N.D.
2,4-Dimethylphenol	3	N.D.
2,4-Dinitrophenol	100	N.D.
2-Methyl-4,6-dinitrophenol	100	N.D.
2-Nitrophenol	3	N.D.
4-Nitrophenol	10	N.D.
Pentachlorophenol	25	N.D.
Phenol	3	N.D.
2,4,6-Trichlorophenol	3	N.D.

Method of Analysis: EPA 8040

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

SEQUOIA ANALYTICAL

680 Chesapeake Drive · Redwood City, CA 94063
(415) 364-9222 · FAX (415) 364-9233

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Peter Lyon

Date Sampled: 10/04/88
Date Received: 10/06/88
Date Analyzed: 10/17/88
Date Reported: 11/03/88
Project: #JCO-111H

Sample Number: 8100242

Sample Description: Water, V-3

VOLATILE ORGANICS by MASS SPECTROMETRY

Analyte	Detection Limit, µg/L	Sample Results, µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	10	N.D.
Chloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	3.0
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
Total-1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis-1,3-Dichloropropene	2.0	N.D.
trans-1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	10	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Method of Analysis: EPA 5030/8240
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

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Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Peter Lyon

Date Sampled: 10/04/88
Date Received: 10/06/88
Date Analyzed: 10/17/88
Date Reported: 11/03/88
Project: #JCO-111H

Sample Number	Sample Description
8100242	Water, V-3

VOLATILE ORGANICS by MASS SPECTROMETRY
Non-Calibrated Compounds

Analyte	Concentration µg/L

No additional peaks > 5 µg/L were identified by the Mass Spectral library.

Method of Analysis: EPA 8240 & "Open Scan"

NOTE: All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA/NIH library. Positive identification or specification between isomers cannot be made without retention time standards.

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Laboratory Director

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Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Peter Lyon

Date Sampled: 10/05/88
Date Received: 10/06/88
Date Extracted: 10/14/88
Date Analyzed: 10/18/88
Date Reported: 11/03/88
Project: #JCO-111H

Sample Number	Sample Description
8100254	Water, V-3

SEMI-VOLATILE ORGANICS by MASS SPECTROMETRY

Analyte	Detection Limit µg/L	Sample Results µg/L
Acenaphthene	2.0	N.D.
Acenaphthylene	2.0	N.D.
Anthracene	2.0	N.D.
Benzidine	50	N.D.
Benzoic acid	2.0	N.D.
Benzo(a)anthracene	2.0	N.D.
Benzo(b)fluoranthene	2.0	N.D.
Benzo(k)fluoranthene	2.0	N.D.
Benzo(g,h,i)perylene	2.0	N.D.
Benzo(a)pyrene	2.0	N.D.
Benzyl alcohol	2.0	N.D.
Bis(2-chloroethoxy)methane	2.0	N.D.
Bis(2-chloroethyl)ether	2.0	N.D.
Bis(2-chloroisopropyl)ether	2.0	N.D.
Bis(2-ethylhexyl)phthalate	10	N.D.
4-Bromophenyl phenyl ether	2.0	N.D.
Butyl benzyl phthalate	2.0	N.D.
4-Chloroaniline	2.0	N.D.
2-Chloronaphthalene	2.0	N.D.
4-Chloro-3-methylphenol	2.0	N.D.
2-Chlorophenol	2.0	N.D.
4-Chlorophenyl phenyl ether	2.0	N.D.
Chrysene	2.0	N.D.
Dibenz(a,h)anthracene	2.0	N.D.
Dibenzofuran	2.0	N.D.
Di-N-butyl phthalate	10	N.D.
1,3-Dichlorobenzene	2.0	N.D.
1,4-Dichlorobenzene	2.0	N.D.
1,2-Dichlorobenzene	2.0	N.D.
3,3-Dichlorobenzidine	10	N.D.
2,4-Dichlorophenol	2.0	N.D.
Diethyl phthalate	2.0	N.D.
2,4-Dimethylphenol	2.0	N.D.
Dimethyl phthalate	2.0	N.D.
4,6-Dinitro-2-methylphenol	10	N.D.
2,4-Dinitrophenol	10	N.D.
2,4-Dinitrotoluene	2.0	N.D.
2,6-Dinitrotoluene	2.0	N.D.

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Wahler Associates

Date Reported: 11/03/88
Project: #JCO-111H

Sample Number	Sample Description
8100254	Water, V-3

SEMI-VOLATILE ORGANICS by MASS SPECTROMETRY

Analyte	Detection Limit µg/L	Sample Results µg/L
Di-N-octyl phthalate	2.0	N.D.
Fluoranthene	2.0	N.D.
Fluorene	2.0	N.D.
Hexachlorobenzene	2.0	N.D.
Hexachlorobutadiene	2.0	N.D.
Hexachlorocyclopentadiene	2.0	N.D.
Hexachloroethane	2.0	N.D.
Indeno(1,2,3-cd)pyrene	2.0	N.D.
Isophorone	2.0	N.D.
2-Methylnaphthalene	2.0	N.D.
2-Methylphenol	2.0	N.D.
4-Methylphenol	2.0	N.D.
Naphthalene	2.0	N.D.
2-Nitroaniline	2.0	N.D.
3-Nitroaniline	2.0	N.D.
4-Nitroaniline	2.0	N.D.
Nitrobenzene	2.0	N.D.
2-Nitrophenol	2.0	N.D.
4-Nitrophenol	10	N.D.
N-Nitrosodiphenylamine	2.0	N.D.
N-Nitroso-di-N-propylamine	2.0	N.D.
Pentachlorophenol	10	N.D.
Phenanthrene	2.0	N.D.
Phenol	2.0	N.D.
Pyrene	2.0	N.D.
1,2,4-Trichlorobenzene	2.0	N.D.
2,4,5-Trichlorophenol	2.0	N.D.
2,4,6-Trichlorophenol	2.0	N.D.

Method of Extraction: EPA 3510 Method of Analysis: EPA 8270
Analytes reported as N.D. were not present above the stated limit of detection.

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Date Received: 10/06/88
Date Extracted: 10/14/88
Date Analyzed: 10/18/88
Date Reported: 11/03/88
Project: #JCO-111H

Sample Number	Sample Description
8100254	Water, V-3

SEMI-VOLATILE ORGANICS by MASS SPECTROMETRY
Non-Calibrated Compounds

Analyte	Concentration µg/L
2-Propanol, 1-[2-(2-Methoxy-1-Methylethoxy)-1-Methylethoxy]-	160

Method of Analysis: EPA 8270 & "Open Scan"

NOTE: All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA/NIH library. Positive identification or specification between isomers cannot be made without retention time standards.

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Date Sampled: 10/04/88
Date Received: 10/06/88
Date Analyzed: 10/17/88
Date Reported: 11/03/88
Project: #JCO-111H

Sample Number: 8100243

Sample Description: Water, V-4

VOLATILE ORGANICS by MASS SPECTROMETRY

Analyte	Detection Limit, µg/L	Sample Results, µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	16
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	10	N.D.
Chloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	230
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	42
Total-1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis-1,3-Dichloropropene	2.0	N.D.
trans-1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	10	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	54
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Method of Analysis: EPA 5030/8240
Analytes reported as N.D. were not present above the stated limit of detection.

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Date Received: 10/06/88
Date Analyzed: 10/17/88
Date Reported: 11/03/88
Project: #JCO-111H

Sample Number	Sample Description
8100243	Water, V-4

VOLATILE ORGANICS by MASS SPECTROMETRY
Non-Calibrated Compounds

Analyte	Concentration µg/L

No additional peaks > 5 µg/L were identified by the Mass Spectral library.

Method of Analysis: EPA 8240 & "Open Scan"

NOTE: All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA/NIH library. Positive identification or specification between isomers cannot be made without retention time standards.

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Date Analyzed: 10/18/88
Date Reported: 11/03/88
Project: #JCO-111H

PHENOLS

Sample Number	Sample Description
8100243	Water, V-4

Analyte	Detection Limit µg/L	Sample Results µg/L
4-Chloro-3-methylphenol	10	N.D.
2-Chlorophenol	3	N.D.
2,4-Dichlorophenol	3	N.D.
2,4-Dimethylphenol	3	N.D.
2,4-Dinitrophenol	100	N.D.
2-Methyl-4,6-dinitrophenol	100	N.D.
2-Nitrophenol	3	N.D.
4-Nitrophenol	10	N.D.
Pentachlorophenol	25	N.D.
Phenol	3	3.2
2,4,6-Trichlorophenol	3	N.D.

Method of Analysis: EPA 8040

Analytes reported as N.D. were not present above the stated limit of detection.

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Date Sampled: 10/04/88
Date Received: 10/06/88
Date Analyzed: 10/17/88
Date Reported: 11/03/88
Project: #JCO-111H

Sample Number: 8100253

Sample Description: Water, V-4, Duplicate

VOLATILE ORGANICS by MASS SPECTROMETRY

Analyte	Detection Limit, µg/L	Sample Results, µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	16
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	10	N.D.
Chloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	230
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	38
Total-1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis-1,3-Dichloropropene	2.0	N.D.
trans-1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	10	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	52
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Method of Analysis: EPA 5030/8240
Analytes reported as N.D. were not present above the stated limit of detection.

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Date Received: 10/06/88
Date Analyzed: 10/17/88
Date Reported: 11/03/88
Project: #JCO-111H

Sample Number	Sample Description
8100253	Water, V-4, Duplicate

VOLATILE ORGANICS by MASS SPECTROMETRY
Non-Calibrated Compounds

Analyte	Concentration µg/L

No additional peaks > 5 µg/L were identified by the Mass Spectral library.

Method of Analysis: EPA 8240 & "Open Scan"

NOTE: All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA/NIH library. Positive identification or specification between isomers cannot be made without retention time standards.

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Date Sampled: 10/04/88
Date Received: 10/06/88
Date Analyzed: 10/17/88
Date Reported: 11/03/88
Project: #JCO-111H

Sample Number: 8100244
Sample Description: Water, V-5

VOLATILE ORGANICS by MASS SPECTROMETRY

Analyte	Detection Limit, µg/L	Sample Results, µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	10	N.D.
Chloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
Total-1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis-1,3-Dichloropropene	2.0	N.D.
trans-1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	10	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Method of Analysis: EPA 5030/8240
Analytes reported as N.D. were not present above the stated limit of detection.

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Date Analyzed: 10/17/88
Date Reported: 11/03/88
Project: #JCO-111H

Sample Number	Sample Description
8100244	Water, V-5

VOLATILE ORGANICS by MASS SPECTROMETRY
Non-Calibrated Compounds

Analyte	Concentration µg/L

No additional peaks > 5 µg/L were identified by the Mass Spectral library.

Method of Analysis: EPA 8240 & "Open Scan"

NOTE: All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA/NIH library. Positive identification or specification between isomers cannot be made without retention time standards.

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Date Sampled: 10/04/88
Date Received: 10/06/88
Date Extracted: 10/13/88
Date Analyzed: 10/18/88
Date Reported: 11/03/88
Project: #JCO-111H

PHENOLS

Sample Number	Sample Description
8100244	Water, V-5

Analyte	Detection Limit µg/L	Sample Results µg/L
4-Chloro-3-methylphenol	10	N.D.
2-Chlorophenol	3	N.D.
2,4-Dichlorophenol	3	N.D.
2,4-Dimethylphenol	3	N.D.
2,4-Dinitrophenol	100	N.D.
2-Methyl-4,6-dinitrophenol	100	N.D.
2-Nitrophenol	3	N.D.
4-Nitrophenol	10	N.D.
Pentachlorophenol	25	N.D.
Phenol	3	N.D.
2,4,6-Trichlorophenol	3	N.D.

Method of Analysis: EPA 8040

Analytes reported as N.D. were not present above the stated limit of detection.

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Date Received: 10/06/88
Date Analyzed: 10/17/88
Date Reported: 11/03/88
Project: #JCO-111H

Sample Number: 8100245

Sample Description: Water, V-6

VOLATILE ORGANICS by MASS SPECTROMETRY

Analyte	Detection Limit, µg/L	Sample Results, µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	10	N.D.
Chloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
Total-1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis-1,3-Dichloropropene	2.0	N.D.
trans-1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	10	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Method of Analysis: EPA 5030/8240
Analytes reported as N.D. were not present above the stated limit of detection.

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Attn: Peter Lyon

Date Sampled: 10/04/88
Date Received: 10/06/88
Date Analyzed: 10/17/88
Date Reported: 11/03/88
Project: #JCO-111H

Sample Number	Sample Description
8100245	Water, V-6

VOLATILE ORGANICS by MASS SPECTROMETRY
Non-Calibrated Compounds

Analyte	Concentration µg/L

No additional peaks > 5 µg/L were identified by the Mass Spectral library.

Method of Analysis: EPA 8240 & "Open Scan"

NOTE: All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA/NIH library. Positive identification or specification between isomers cannot be made without retention time standards.

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Date Received: 10/06/88
Date Extracted: 10/13/88
Date Analyzed: 10/18/88
Date Reported: 11/03/88
Project: #JCO-111H

PHENOLS

Sample Number	Sample Description
8100245	Water, V-6

Analyte	Detection Limit µg/L	Sample Results µg/L
4-Chloro-3-methylphenol	10	N.D.
2-Chlorophenol	3	N.D.
2,4-Dichlorophenol	3	N.D.
2,4-Dimethylphenol	3	N.D.
2,4-Dinitrophenol	100	N.D.
2-Methyl-4,6-dinitrophenol	100	N.D.
2-Nitrophenol	3	N.D.
4-Nitrophenol	10	N.D.
Pentachlorophenol	25	N.D.
Phenol	3	N.D.
2,4,6-Trichlorophenol	3	N.D.

Method of Analysis: EPA 8040

Analytes reported as N.D. were not present above the stated limit of detection.

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Attn: Peter Lyon

Date Sampled: 10/03/88
Date Received: 10/06/88
Date Analyzed: 10/17/88
Date Reported: 11/03/88
Project: #JCO-111H

Sample Number: 8100246

Sample Description: Water, V-7

VOLATILE ORGANICS by MASS SPECTROMETRY

Analyte	Detection Limit, µg/L	Sample Results, µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	10	N.D.
Chloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	10
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	2.9
Total-1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis-1,3-Dichloropropene	2.0	N.D.
trans-1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	10	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	31
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Method of Analysis: EPA 5030/8240
Analytes reported as N.D. were not present above the stated limit of detection.

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Attn: Peter Lyon

Date Sampled: 10/03/88
Date Received: 10/06/88
Date Analyzed: 10/17/88
Date Reported: 11/03/88
Project: #JCO-111H

Sample Number	Sample Description
8100246	Water, V-7

VOLATILE ORGANICS by MASS SPECTROMETRY
Non-Calibrated Compounds

Analyte	Concentration µg/L

No additional peaks > 5 µg/L were identified by the Mass Spectral library.

Method of Analysis: EPA 8240 & "Open Scan"

NOTE: All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA/NIH library. Positive identification or specification between isomers cannot be made without retention time standards.

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Date Sampled: 10/03/88
Date Received: 10/06/88
Date Extracted: 10/13/88
Date Analyzed: 10/18/88
Date Reported: 11/03/88
Project: #JCO-111H

PHENOLS

Sample Number	Sample Description
8100246	Water, V-7

Analyte	Detection Limit µg/L	Sample Results µg/L
4-Chloro-3-methylphenol	10	N.D.
2-Chlorophenol	3	N.D.
2,4-Dichlorophenol	3	N.D.
2,4-Dimethylphenol	3	N.D.
2,4-Dinitrophenol	100	N.D.
2-Methyl-4,6-dinitrophenol	100	N.D.
2-Nitrophenol	3	N.D.
4-Nitrophenol	10	N.D.
Pentachlorophenol	25	N.D.
Phenol	3	N.D.
2,4,6-Trichlorophenol	3	N.D.

Method of Analysis: EPA 8040

Analytes reported as N.D. were not present above the stated limit of detection.

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Date Received: 10/06/88
Date Analyzed: 10/17/88
Date Reported: 11/03/88
Project: #JCO-111H

Sample Number: 8100247

Sample Description: Water, V-8

VOLATILE ORGANICS by MASS SPECTROMETRY

Analyte	Detection Limit, µg/L	Sample Results, µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	10	N.D.
Chloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
Total-1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis-1,3-Dichloropropene	2.0	N.D.
trans-1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	10	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	2.4
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Method of Analysis: EPA 5030/8240
Analytes reported as N.D. were not present above the stated limit of detection.

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Date Received: 10/06/88
Date Analyzed: 10/17/88
Date Reported: 11/03/88
Project: #JCO-111H

Sample Number	Sample Description
8100247	Water, V-8

VOLATILE ORGANICS by MASS SPECTROMETRY
Non-Calibrated Compounds

Analyte	Concentration µg/L

No additional peaks > 5 µg/L were identified by the Mass Spectral library.

Method of Analysis: EPA 8240 & "Open Scan"

NOTE: All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA/NIH library. Positive identification or specification between isomers cannot be made without retention time standards.

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Date Received: 10/06/88
Date Extracted: 10/13/88
Date Analyzed: 10/19/88
Date Reported: 11/03/88
Project: #JCO-111H

PHENOLS

Sample Number	Sample Description
8100247	Water, V-8

Analyte	Detection Limit µg/L	Sample Results µg/L
4-Chloro-3-methylphenol	10	N.D.
2-Chlorophenol	3	N.D.
2,4-Dichlorophenol	3	N.D.
2,4-Dimethylphenol	3	N.D.
2,4-Dinitrophenol	100	N.D.
2-Methyl-4,6-dinitrophenol	100	N.D.
2-Nitrophenol	3	N.D.
4-Nitrophenol	10	N.D.
Pentachlorophenol	25	N.D.
Phenol	3	N.D.
2,4,6-Trichlorophenol	3	N.D.

Method of Analysis: EPA 8040

Analytes reported as N.D. were not present above the stated limit of detection.

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Date Analyzed: 10/17/88
Date Reported: 11/03/88
Project: #JCO-111H

Sample Number: 8100248

Sample Description: Water, V-9

VOLATILE ORGANICS by MASS SPECTROMETRY

Analyte	Detection Limit, µg/L	Sample Results, µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	10	N.D.
Chloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	3.9
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
Total-1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis-1,3-Dichloropropene	2.0	N.D.
trans-1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	10	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Method of Analysis: EPA 5030/8240
Analytes reported as N.D. were not present above the stated limit of detection.

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Date Received: 10/06/88
Date Analyzed: 10/17/88
Date Reported: 11/03/88
Project: #JCO-111H

Sample Number	Sample Description
8100248	Water, V-9

VOLATILE ORGANICS by MASS SPECTROMETRY
Non-Calibrated Compounds

Analyte	Concentration µg/L

No additional peaks > 5 µg/L were identified by the Mass Spectral library.

Method of Analysis: EPA 8240 & "Open Scan"

NOTE: All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA/NIH library. Positive identification or specification between isomers cannot be made without retention time standards.

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Date Received: 10/06/88
Date Extracted: 10/17/88
Date Analyzed: 10/19/88
Date Reported: 11/03/88
Project: #JCO-111H

PHENOLS

Sample Number	Sample Description
8100248	Water, V-9

Analyte	Detection Limit µg/L	Sample Results µg/L
4-Chloro-3-methylphenol	10	N.D.
2-Chlorophenol	3	N.D.
2,4-Dichlorophenol	3	N.D.
2,4-Dimethylphenol	3	N.D.
2,4-Dinitrophenol	100	N.D.
2-Methyl-4,6-dinitrophenol	100	N.D.
2-Nitrophenol	3	N.D.
4-Nitrophenol	10	N.D.
Pentachlorophenol	25	N.D.
Phenol	3	N.D.
2,4,6-Trichlorophenol	3	N.D.

Method of Analysis: EPA 8040

Analytes reported as N.D. were not present above the stated limit of detection.

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Date Analyzed: 10/17/88
Date Reported: 11/03/88
Project: #JCO-111H

Sample Number: 8100249

Sample Description: Water, V-10

VOLATILE ORGANICS by MASS SPECTROMETRY

Analyte	Detection Limit, µg/L	Sample Results, µg/L
Acetone	10	23
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	10	N.D.
Chloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
Total-1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis-1,3-Dichloropropene	2.0	N.D.
trans-1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	10	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Method of Analysis: EPA 5030/8240
Analytes reported as N.D. were not present above the stated limit of detection.

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Date Received: 10/06/88
Date Analyzed: 10/17/88
Date Reported: 11/03/88
Project: #JCO-111H

Sample Number	Sample Description
8100249	Water, V-10

VOLATILE ORGANICS by MASS SPECTROMETRY
Non-Calibrated Compounds

Analyte	Concentration µg/L

No additional peaks > 5 µg/L were identified by the Mass Spectral library.

Method of Analysis: EPA 8240 & "Open Scan"

NOTE: All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA/NIH library. Positive identification or specification between isomers cannot be made without retention time standards.

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Date Received: 10/06/88
Date Extracted: 10/17/88
Date Analyzed: 10/19/88
Date Reported: 11/03/88
Project: #JCO-111H

PHENOLS

Sample Number	Sample Description
8100249	Water, V-10

Analyte	Detection Limit µg/L	Sample Results µg/L
4-Chloro-3-methylphenol	10	N.D.
2-Chlorophenol	3	N.D.
2,4-Dichlorophenol	3	N.D.
2,4-Dimethylphenol	3	N.D.
2,4-Dinitrophenol	100	N.D.
2-Methyl-4,6-dinitrophenol	100	N.D.
2-Nitrophenol	3	N.D.
4-Nitrophenol	10	N.D.
Pentachlorophenol	25	N.D.
Phenol	3	N.D.
2,4,6-Trichlorophenol	3	N.D.

Method of Analysis: EPA 8040

Analytes reported as N.D. were not present above the stated limit of detection.

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Date Sampled: 10/04/88
Date Received: 10/06/88
Date Analyzed: 10/17/88
Date Reported: 11/03/88
Project: #JCO-111H

Sample Number: 8100250
Sample Description: Water, I-1

VOLATILE ORGANICS by MASS SPECTROMETRY

Analyte	Detection Limit, µg/L	Sample Results, µg/L
Acetone	10	24
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	10	N.D.
Chloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
Total-1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis-1,3-Dichloropropene	2.0	N.D.
trans-1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	10	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	2.1
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Method of Analysis: EPA 5030/8240
Analytes reported as N.D. were not present above the stated limit of detection.

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Date Analyzed: 10/17/88
Date Reported: 11/03/88
Project: #JCO-111H

Sample Number	Sample Description
8100250	Water, I-1

VOLATILE ORGANICS by MASS SPECTROMETRY
Non-Calibrated Compounds

Analyte	Concentration µg/L

No additional peaks > 5 µg/L were identified by the Mass Spectral library.

Method of Analysis: EPA 8240 & "Open Scan"

NOTE: All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA/NIH library. Positive identification or specification between isomers cannot be made without retention time standards.

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Date Received: 10/06/88
Date Extracted: 10/17/88
Date Analyzed: 10/19/88
Date Reported: 11/03/88
Project: #JCO-111H

PHENOLS

Sample Number	Sample Description
8100250	Water, I-1

Analyte	Detection Limit µg/L	Sample Results µg/L
4-Chloro-3-methylphenol	10	N.D.
2-Chlorophenol	3	N.D.
2,4-Dichlorophenol	3	N.D.
2,4-Dimethylphenol	3	N.D.
2,4-Dinitrophenol	100	N.D.
2-Methyl-4,6-dinitrophenol	100	N.D.
2-Nitrophenol	3	N.D.
4-Nitrophenol	10	N.D.
Pentachlorophenol	25	N.D.
Phenol	3	N.D.
2,4,6-Trichlorophenol	3	N.D.

Method of Analysis: EPA 8040

Analytes reported as N.D. were not present above the stated limit of detection.

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Date Sampled: 10/03/88
Date Received: 10/06/88
Date Analyzed: 10/17/88
Date Reported: 11/03/88
Project: #JCO-111H

Sample Number: 8100251
Sample Description: Water, I-2

VOLATILE ORGANICS by MASS SPECTROMETRY

Analyte	Detection Limit, µg/L	Sample Results, µg/L
Acetone	10	19
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	10	N.D.
Chloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	3.7
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
Total-1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis-1,3-Dichloropropene	2.0	N.D.
trans-1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	10	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	3.8
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Method of Analysis: EPA 5030/8240
Analytes reported as N.D. were not present above the stated limit of detection.

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Laboratory Director

SEQUOIA ANALYTICAL
680 Chesapeake Drive · Redwood City, CA 94063
(415) 364-9222 · FAX (415) 364-9233

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Peter Lyon

Date Sampled: 10/03/88
Date Received: 10/06/88
Date Analyzed: 10/17/88
Date Reported: 11/03/88
Project: #JCO-111H

Sample Number	Sample Description
8100251	Water, I-2

VOLATILE ORGANICS by MASS SPECTROMETRY
Non-Calibrated Compounds

Analyte	Concentration µg/L

No additional peaks > 5 µg/L were identified by the Mass Spectral library.

Method of Analysis: EPA 8240 & "Open Scan"

NOTE: All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA/NIH library. Positive identification or specification between isomers cannot be made without retention time standards.

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Date Sampled: 10/03/88
Date Received: 10/06/88
Date Extracted: 10/17/88
Date Analyzed: 10/19/88
Date Reported: 11/03/88
Project: #JCO-111H

PHENOLS

Sample Number	Sample Description
8100251	Water, I-2

Analyte	Detection Limit µg/L	Sample Results µg/L
4-Chloro-3-methylphenol	10	N.D.
2-Chlorophenol	3	N.D.
2,4-Dichlorophenol	3	N.D.
2,4-Dimethylphenol	3	N.D.
2,4-Dinitrophenol	100	N.D.
2-Methyl-4,6-dinitrophenol	100	N.D.
2-Nitrophenol	3	N.D.
4-Nitrophenol	10	N.D.
Pentachlorophenol	25	N.D.
Phenol	3	N.D.
2,4,6-Trichlorophenol	3	N.D.

Method of Analysis: EPA 8040

Analytes reported as N.D. were not present above the stated limit of detection.

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Date Analyzed: 10/17/88
Date Reported: 11/03/88
Project: #JCO-111H

Sample Number: 8100252

Sample Description: Water, I-3

VOLATILE ORGANICS by MASS SPECTROMETRY

Analyte	Detection Limit, µg/L	Sample Results, µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	10	N.D.
Chloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
Total-1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis-1,3-Dichloropropene	2.0	N.D.
trans-1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	10	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Method of Analysis: EPA 5030/8240
Analytes reported as N.D. were not present above the stated limit of detection.

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Date Sampled: 10/03/88
Date Received: 10/06/88
Date Analyzed: 10/17/88
Date Reported: 11/03/88
Project: #JCO-111H

Sample Number	Sample Description
8100252	Water, I-3

VOLATILE ORGANICS by MASS SPECTROMETRY
Non-Calibrated Compounds

Analyte	Concentration µg/L

No additional peaks > 5 µg/L were identified by the Mass Spectral library.

Method of Analysis: EPA 8240 & "Open Scan"

NOTE: All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA/NIH library. Positive identification or specification between isomers cannot be made without retention time standards.

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Date Sampled: 10/03/88
Date Received: 10/06/88
Date Extracted: 10/17/88
Date Analyzed: 10/19/88
Date Reported: 11/03/88
Project: #JCO-111H

PHENOLS

Sample Number	Sample Description
8100252	Water, I-3

Analyte	Detection Limit µg/L	Sample Results µg/L
4-Chloro-3-methylphenol	10	N.D.
2-Chlorophenol	3	N.D.
2,4-Dichlorophenol	3	N.D.
2,4-Dimethylphenol	3	N.D.
2,4-Dinitrophenol	100	N.D.
2-Methyl-4,6-dinitrophenol	100	N.D.
2-Nitrophenol	3	N.D.
4-Nitrophenol	10	N.D.
Pentachlorophenol	25	N.D.
Phenol	3	N.D.
2,4,6-Trichlorophenol	3	N.D.

Method of Analysis: EPA 8040

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

ANAMETRIX INC

RECEIVED

Peter Lyon
Wahler & Associates
1023 Corporation Way
Palo Alto, CA 94303

October 19, 1988
Work Order Number 8810026
Date Received 10/05/88
Project No. JCO-111H

Dear Mr. Lyon:

Four water samples were received for analysis of volatiles by gas chromatography, using the following EPA method(s):

ANAMETRIX I.D.	SAMPLE I.D.	METHOD(S)
8810026-01	JCO-111H V-4	8240
-02	" V-7	"
-03	JCO-111H Travel Blank	"
-04	JCO-111H Method Blank	"

RESULTS

See enclosed data sheets, Pages 2-5.

QUALITY ASSURANCE

See enclosed data sheets, Pages 6-7.

If there is any more that we can do, please give us a call. Thank you for using ANAMETRIX, INC.

Sincerely,

Burt Sutherland

Burt Sutherland
Laboratory Director

BWS/dm

ORGANIC ANALYSIS DATA SHEET - EPA METHOD 624/8240
ANAMETRIX, INC. (408) 432-8192

Sample I.D.	: JCO-111H V-4	Anametrix I.D.	: co10026-01
Matrix	: WATER	Analyst	: PG
Date sampled	: 10-04-88	Supervisor	: BWS
Date analyzed	: 10-13-88	Date released	: 10-19-88
Dilut. factor	: NONE	Instrument ID	: F3

CAS #	Compound Name	Reporting Limit (ug/l)	Amount Found (ug/l)
74-87-3	* Chloromethane	10	BRL
75-01-4	* Vinyl Chloride	10	BRL
74-83-9	* Bromomethane	10	BRL
75-00-3	* Chloroethane	10	16
75-69-4	* Trichlorofluoromethane	5	BRL
75-35-4	* 1,1-Dichloroethene	5	50
76-13-1	# Trichlorotrifluoroethane	5	BRL
67-64-1	**Acetone	20	BRL
75-15-0	**Carbondisulfide	5	BRL
75-09-2	* Methylene Chloride	5	7
156-60-5	* Trans-1,2-Dichloroethene	5	BRL
75-34-3	* 1,1-Dichloroethane	5	250
78-93-3	**2-Butanone	20	BRL
156-59-2	* Cis-1,2-Dichloroethene	5	BRL
67-66-3	* Chloroform	5	BRL
71-55-6	* 1,1,1-Trichloroethane	5	62
56-23-5	* Carbon Tetrachloride	5	BRL
71-43-2	* Benzene	5	BRL
107-06-2	* 1,2-Dichloroethane	5	BRL
79-01-6	* Trichloroethene	5	BRL
78-87-5	* 1,2-Dichloropropane	5	BRL
75-27-4	* Bromodichloromethane	5	BRL
110-75-8	* 2-Chloroethylvinylether	5	BRL
108-05-4	**Vinyl Acetate	10	BRL
10061-02-6	* Trans-1,3-Dichloropropene	5	BRL
108-10-1	**4-Methyl-2-Pentanone	10	BRL
108-88-3	* Toluene	5	BRL
10061-01-5	* cis-1,3-Dichloropropene	5	BRL
79-00-5	* 1,1,2-Trichloroethane	5	BRL
127-18-4	* Tetrachloroethene	5	BRL
591-78-6	**2-Hexanone	10	BRL
124-48-1	* Dibromochloromethane	5	BRL
108-90-7	* Chlorobenzene	5	BRL
100-41-4	* Ethylbenzene	5	BRL
1330-20-7	**Total Xylenes	5	BRL
100-42-5	**Styrene	5	BRL
75-25-2	* Bromoform	5	BRL
79-34-5	* 1,1,2,2-Tetrachloroethane	5	BRL
541-73-1	* 1,3-Dichlorobenzene	5	BRL
106-46-7	* 1,4-Dichlorobenzene	5	BRL
95-50-1	* 1,2-Dichlorobenzene	5	BRL

CAS #	Surrogate Compounds	Limits	% Recovery
17060-07-0	1,2-Dichloroethane-d4	64-132%	95%
2037-26-5	Toluene-d8	85-124%	105%
460-00-4	p-Bromofluorobenzene	74-116%	103%

* A Method 624 priority pollutant compound (Federal Register, 10/26/64)
** A compound on the U.S. EPA CLP Hazardous Substance List (HSL)
\# A compound added by Anametrix, Inc. BRL : Below reporting limit.

ORGANIC ANALYSIS DATA SHEET - EPA METHOD 624/8240

ANAMETRIX, INC. (408) 432-8192

Sample I.D.	: JCO-111H V-7	Anametrix I.D.	: 8810026-02
Matrix	: WATER	Analyst	: PG
Date sampled	: 10-03-88	Supervisor	: BJOS
Date analyzed	: 10-16-88	Date released	: 10-19-88
Dilut. factor	: NONE	Instrument ID	: F3

CAS #	Compound Name	Reporting Limit (ug/l)	Amount Found (ug/l)
74-87-3	* Chloromethane	10	BRL
75-01-4	* Vinyl Chloride	10	BRL
74-83-9	* Bromomethane	10	BRL
75-00-3	* Chloroethane	10	BRL
75-69-4	* Trichlorofluoromethane	5	BRL
75-35-4	* 1,1-Dichloroethene	5	BRL
76-13-1	# Trichlorotrifluoroethane	5	BRL
67-64-1	**Acetone	20	BRL
75-15-0	**Carbondisulfide	5	BRL
75-09-2	* Methylene Chloride	5	BRL
156-60-5	* Trans-1,2-Dichloroethene	5	BRL
75-34-3	* 1,1-Dichloroethane	5	12
78-93-3	**2-Butanone	20	BRL
156-59-2	* Cis-1,2-Dichloroethene	5	BRL
67-66-3	* Chloroform	5	BRL
71-55-6	* 1,1,1-Trichloroethane	5	68
56-23-5	* Carbon Tetrachloride	5	BRL
71-43-2	* Benzene	5	BRL
107-06-2	* 1,2-Dichloroethane	5	BRL
79-01-6	* Trichloroethene	5	BRL
78-87-5	* 1,2-Dichloropropane	5	BRL
75-27-4	* Bromodichloromethane	5	BRL
110-75-8	* 2-Chloroethylvinylether	5	BRL
108-05-4	**Vinyl Acetate	10	BRL
10061-02-6	* Trans-1,3-Dichloropropene	5	BRL
108-10-1	**4-Methyl-2-Pentanone	10	BRL
108-88-3	* Toluene	5	BRL
10061-01-5	* cis-1,3-Dichloropropene	5	BRL
79-00-5	* 1,1,2-Trichloroethane	5	BRL
127-18-4	* Tetrachloroethene	5	BRL
591-78-6	**2-Hexanone	10	BRL
124-48-1	* Dibromochloromethane	5	BRL
108-90-7	* Chlorobenzene	5	BRL
100-41-4	* Ethylbenzene	5	BRL
1330-20-7	**Total Xylenes	5	BRL
100-42-5	**Styrene	5	BRL
75-25-2	* Bromoform	5	BRL
79-34-5	* 1,1,2,2-Tetrachloroethane	5	BRL
541-73-1	* 1,3-Dichlorobenzene	5	BRL
106-46-7	* 1,4-Dichlorobenzene	5	BRL
95-50-1	* 1,2-Dichlorobenzene	5	BRL

CAS #	Surrogate Compounds	Limits	% Recovery
17060-07-0	1,2-Dichloroethane-d4	64-132%	96%
2037-26-5	Toluene-d8	85-124%	111%
460-00-4	p-Bromofluorobenzene	74-116%	108%

* A Method 624 priority pollutant compound (Federal Register, 10/26/84)
** A compound on the U.S. EPA CLP Hazardous Substance List (HSL)
\# A compound added by Anametrix, Inc. BRL : Below reporting limit.

ORGANIC ANALYSIS DATA SHEET - EPA METHOD 624/8240

ANAMETRIX, INC. (408) 432-8192

Sample I.D.	: JCO-111H Travel Blank	Anametrix I.D.	: 8810026-03
Matrix	: WATER	Analyst	: LM
Date sampled	: 10-04-88	Supervisor	: PG
Date analyzed	: 10-13-88	Date released	: 10-19-88
Dilut. factor	: NONE	Instrument ID	: F3

CAS #	Compound Name	Reporting Limit (ug/l)	Amount Found (ug/l)
74-87-3	* Chloromethane	10	BRL
75-01-4	* Vinyl Chloride	10	BRL
74-83-9	* Bromomethane	10	BRL
75-00-3	* Chloroethane	10	BRL
75-69-4	* Trichlorofluoromethane	5	BRL
75-35-4	* 1,1-Dichloroethene	5	BRL
76-13-1	# Trichlorotrifluoroethane	5	BRL
67-64-1	**Acetone	20	BRL
75-15-0	**Carbondisulfide	5	BRL
75-09-2	* Methylene Chloride	5	BRL
156-60-5	* Trans-1,2-Dichloroethene	5	BRL
75-34-3	* 1,1-Dichloroethane	5	BRL
78-93-3	**2-Butanone	20	BRL
156-59-2	* Cis-1,2-Dichloroethene	5	BRL
67-66-3	* Chloroform	5	BRL
71-55-6	* 1,1,1-Trichloroethane	5	BRL
56-23-5	* Carbon Tetrachloride	5	BRL
71-43-2	* Benzene	5	BRL
107-06-2	* 1,2-Dichloroethane	5	BRL
79-01-6	* Trichloroethene	5	BRL
78-87-5	* 1,2-Dichloropropane	5	BRL
75-27-4	* Bromodichloromethane	5	BRL
110-75-8	* 2-Chloroethylvinylether	5	BRL
108-05-4	**Vinyl Acetate	10	BRL
10061-02-6	* Trans-1,3-Dichloropropene	5	BRL
108-10-1	**4-Methyl-2-Pentanone	10	BRL
108-88-3	* Toluene	5	BRL
10061-01-5	* cis-1,3-Dichloropropene	5	BRL
79-00-5	* 1,1,2-Trichloroethane	5	BRL
127-18-4	* Tetrachloroethene	5	BRL
591-78-6	**2-Hexanone	10	BRL
124-48-1	* Dibromochloromethane	5	BRL
108-90-7	* Chlorobenzene	5	BRL
100-41-4	* Ethylbenzene	5	BRL
1330-20-7	**Total Xylenes	5	BRL
100-42-5	**Styrene	5	BRL
75-25-2	* Bromoform	5	BRL
79-34-5	* 1,1,2,2-Tetrachloroethane	5	BRL
541-73-1	* 1,3-Dichlorobenzene	5	BRL
106-46-7	* 1,4-Dichlorobenzene	5	BRL
95-50-1	* 1,2-Dichlorobenzene	5	BRL

CAS #	Surrogate Compounds	Limits	% Recovery
17060-07-0	1,2-Dichloroethane-d4	84-132%	94%
2037-26-5	Toluene-d8	85-124%	107%
460-00-4	p-Bromofluorobenzene	74-116%	104%

* A Method 624 priority pollutant compound (Federal Register, 10/26/84)
** A compound on the U.S. EPA CLP Hazardous Substance List (HSL)
\# A compound added by Anametrix, Inc. BRL : Below reporting limit.

ORGANIC ANALYSIS DATA SHEET - EPA METHOD 624/8240
ANAMETRIX, INC. (408) 432-8192

Sample I.D.	: JCO-111H Method Blank	Anametrix I.D.	: 8610026-04
Matrix	: WATER	Analyst	: PG
Date sampled	: 10-03-86	Supervisor	: BCS
Date analyzed	: 10-13-86	Date released	: 10-19-86
Dilut. factor	: NONE	Instrument ID	: F3

CAS #	Compound Name	Reporting Limit (ug/l)	Amount Found (ug/l)
74-87-3	* Chloromethane	10	BRL
75-01-4	* Vinyl Chloride	10	BRL
74-83-9	* Bromomethane	10	BRL
75-00-3	* Chloroethane	10	BRL
75-69-4	* Trichlorofluoromethane	5	BRL
75-35-4	* 1,1-Dichloroethene	5	BRL
76-13-1	# Trichlorotrifluoroethane	5	BRL
67-64-1	**Acetone	20	BRL
75-15-0	**Carbondisulfide	5	BRL
75-09-2	* Methylene Chloride	5	BRL
156-60-5	* Trans-1,2-Dichloroethene	5	BRL
75-34-3	* 1,1-Dichloroethane	5	BRL
78-93-3	**2-Butanone	20	BRL
156-59-2	* Cis-1,2-Dichloroethene	5	BRL
67-66-3	* Chloroform	5	BRL
71-55-6	* 1,1,1-Trichloroethane	5	BRL
56-23-5	* Carbon Tetrachloride	5	BRL
71-43-2	* Benzene	5	BRL
107-06-2	* 1,2-Dichloroethane	5	BRL
79-01-6	* Trichloroethene	5	BRL
78-87-5	* 1,2-Dichloropropane	5	BRL
75-27-4	* Bromodichloromethane	5	BRL
110-75-8	* 2-Chloroethylvinylether	5	BRL
108-05-4	**Vinyl Acetate	10	BRL
10061-02-6	* Trans-1,3-Dichloropropene	5	BRL
108-10-1	**4-Methyl-2-Pentanone	10	BRL
108-88-3	* Toluene	5	BRL
10061-01-5	* cis-1,3-Dichloropropene	5	BRL
79-00-5	* 1,1,2-Trichloroethane	5	BRL
127-18-4	* Tetrachloroethene	5	BRL
591-78-6	**2-Hexanone	10	BRL
124-48-1	* Dibromochloromethane	5	BRL
108-90-7	* Chlorobenzene	5	BRL
100-41-4	* Ethylbenzene	5	BRL
1330-20-7	**Total Xylenes	5	BRL
100-42-5	**Styrene	5	BRL
75-25-2	* Bromoform	5	BRL
79-34-5	* 1,1,2,2-Tetrachloroethane	5	BRL
541-73-1	* 1,3-Dichlorobenzene	5	BRL
106-46-7	* 1,4-Dichlorobenzene	5	BRL
95-50-1	* 1,2-Dichlorobenzene	5	BRL

CAS #	Surrogate Compounds	Limits	% Recovery
17060-07-0	1,2-Dichloroethane-d4	84-132%	97%
2037-26-5	Toluene-d8	85-124%	112%
460-00-4	p-Bromofluorobenzene	74-116%	109%

* A Method 624 priority pollutant compound (Federal Register, 10/26/84)
** A compound on the U.S. EPA CLP Hazardous Substance List (HSL)
\# A compound added by Anametrix, Inc. BRL : Below reporting limit.

ORGANIC ANALYSIS DATA SHEET - EPA METHOD 624/8240
ANAMETRIX, INC. (408) 432-8192

Sample I.D.	: METHOD BLANK	Anametrix I.D.	: 3CB1013V000
Matrix	: WATER	Analyst	: PG
Date sampled	: NA	Supervisor	: BWS
Date analyzed	: 10-13-86	Date released	: 10-19-86
Dilut. factor	: NONE	Instrument ID	: F8

CAS #	Compound Name	Reporting Limit (ug/l)	Amount Found (ug/l)
74-87-3	* Chloromethane	10	BRL
75-01-4	* Vinyl Chloride	10	BRL
74-83-9	* Bromomethane	10	BRL
75-00-3	* Chloroethane	10	BRL
75-69-4	* Trichlorofluoromethane	5	BRL
75-35-4	* 1,1-Dichloroethene	5	BRL
76-13-1	# Trichlorotrifluoroethane	5	BRL
67-64-1	**Acetone	20	BRL
75-15-0	**Carbondisulfide	5	BRL
75-09-2	* Methylene Chloride	5	BRL
156-60-5	* Trans-1,2-Dichloroethene	5	BRL
75-34-3	* 1,1-Dichloroethane	5	BRL
78-93-3	**2-Butanone	20	BRL
156-59-2	* Cis-1,2-Dichloroethene	5	BRL
67-66-3	* Chloroform	5	BRL
71-55-6	* 1,1,1-Trichloroethane	5	BRL
56-23-5	* Carbon Tetrachloride	5	BRL
71-43-2	* Benzene	5	BRL
107-06-2	* 1,2-Dichloroethane	5	BRL
79-01-6	* Trichloroethene	5	BRL
78-87-5	* 1,2-Dichloropropane	5	BRL
75-27-4	* Bromodichloromethane	5	BRL
110-75-8	* 2-Chloroethylvinylether	5	BRL
108-05-4	**Vinyl Acetate	10	BRL
10061-02-6	* Trans-1,3-Dichloropropene	5	BRL
108-10-1	**4-Methyl-2-Pentanone	10	BRL
108-88-3	* Toluene	5	BRL
10061-01-5	* cis-1,3-Dichloropropene	5	BRL
79-00-5	* 1,1,2-Trichloroethane	5	BRL
127-18-4	* Tetrachloroethene	5	BRL
591-78-6	**2-Hexanone	10	BRL
124-48-1	* Dibromochloromethane	5	BRL
108-90-7	* Chlorobenzene	5	BRL
100-41-4	* Ethylbenzene	5	BRL
1330-20-7	**Total Xylenes	5	BRL
100-42-5	**Styrene	5	BRL
75-25-2	* Bromoform	5	BRL
79-34-5	* 1,1,2,2-Tetrachloroethane	5	BRL
541-73-1	* 1,3-Dichlorobenzene	5	BRL
106-46-7	* 1,4-Dichlorobenzene	5	BRL
95-50-1	* 1,2-Dichlorobenzene	5	BRL

CAS #	Surrogate Compounds	Limits	% Recovery
17060-07-0	1,2-Dichloroethane-d4	84-132%	103%
2037-26-5	Toluene-d8	85-124%	110%
460-00-4	p-Bromofluorobenzene	74-116%	108%

* A Method 624 priority pollutant compound (Federal Register, 10/26/84)
** A compound on the U.S. EPA CLP Hazardous Substance List (HSL)
\# A compound added by Anametrix, Inc. BRL : Below reporting limit.

Appendix B

SEQUOIA ANALYTICAL
680 Chesapeake Drive · Redwood City, CA 94063
(415) 364-9222 · FAX (415) 364-9233

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Peter Lyon

Q.C. Sample Dates
Date Extracted: -
Date Analyzed: 10/19/88
Date Reported: 11/03/88

Project: #JCO-111H

Quality Control Data Report

Method of Analysis: Standard Method
Reporting Units: NTU
Analyst: N. Markovich

Sample No. 8100242
Project: #JCO-111H

ANALYTE	SPIKE CONC. ADDED	CONC. MATRIX SPIKE	% REC.	CONC. MATRIX SPIKE DUP.	% REC.	REL. % DEV.
Turbidity	75	100	133	90	120	5.3

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

SEQUOIA ANALYTICAL
680 Chesapeake Drive · Redwood City, CA 94063
(415) 364-9222 · FAX (415) 364-9233

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Peter Lyon

Q.C. Sample Dates
Date Extracted: -
Date Analyzed: 10/19/88
Date Reported: 11/03/88

Project: #JCO-111H

Quality Control Data Report

Method of Analysis: EPA 80115
Reporting Units: µg/L
Analyst: Z. Pourmotamed

Sample No. 8100202
Project: #JCO-111H

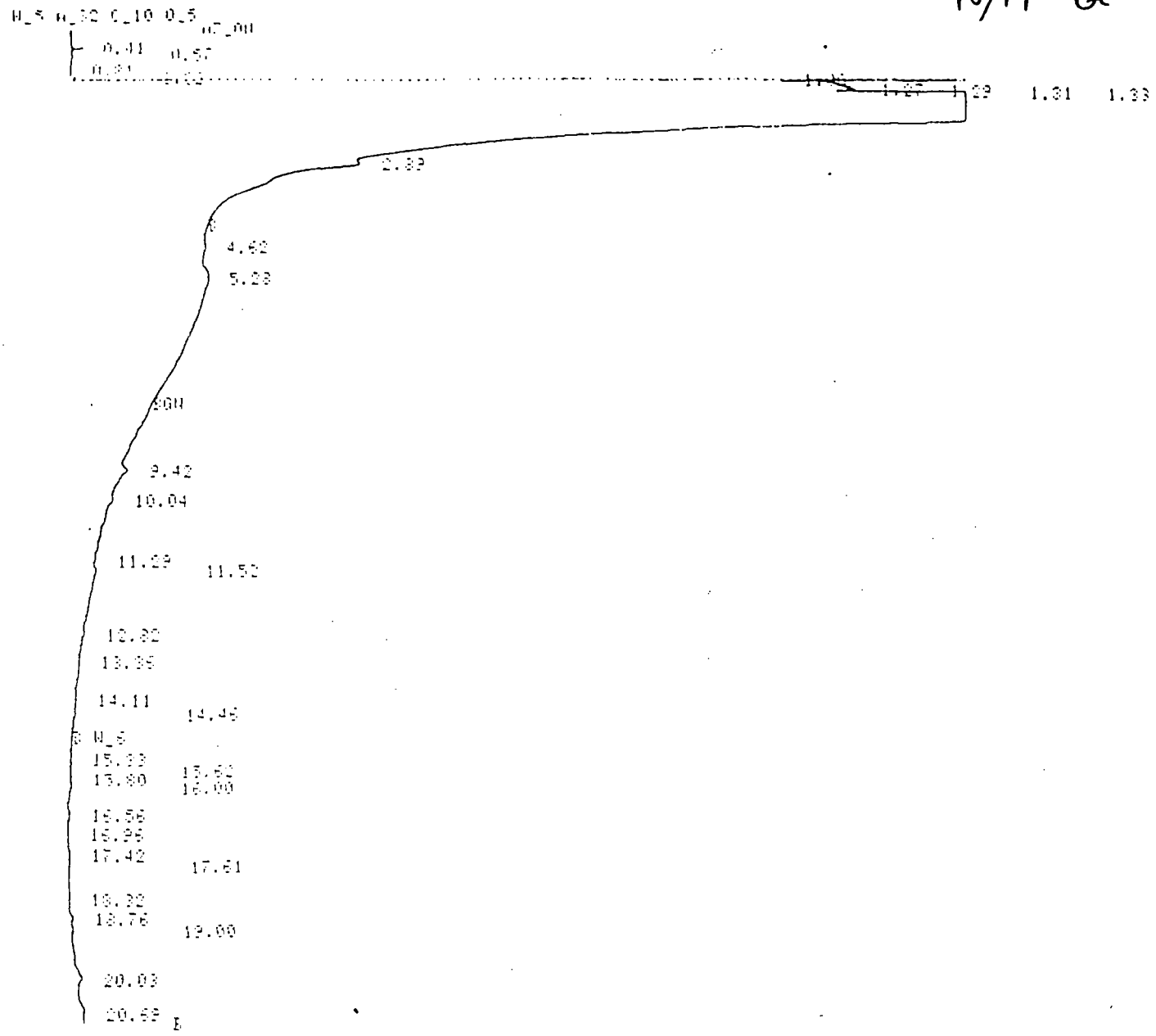
ANALYTE	SPIKE CONC. ADDED	CONC. MATRIX SPIKE	% REC.	CONC. MATRIX SPIKE DUP.	% REC.	REL. % DEV.
Diesel	100	0.0	66	0.0	61	3.9

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

3.10µl Spike Dupl 1000:1.6
10/19 GE

FILE 88 RUN 88 STARTED 11:57.9 80/01/06
% METHOD 1 DISELS LAST EDITED 00:31.0 80/01/01



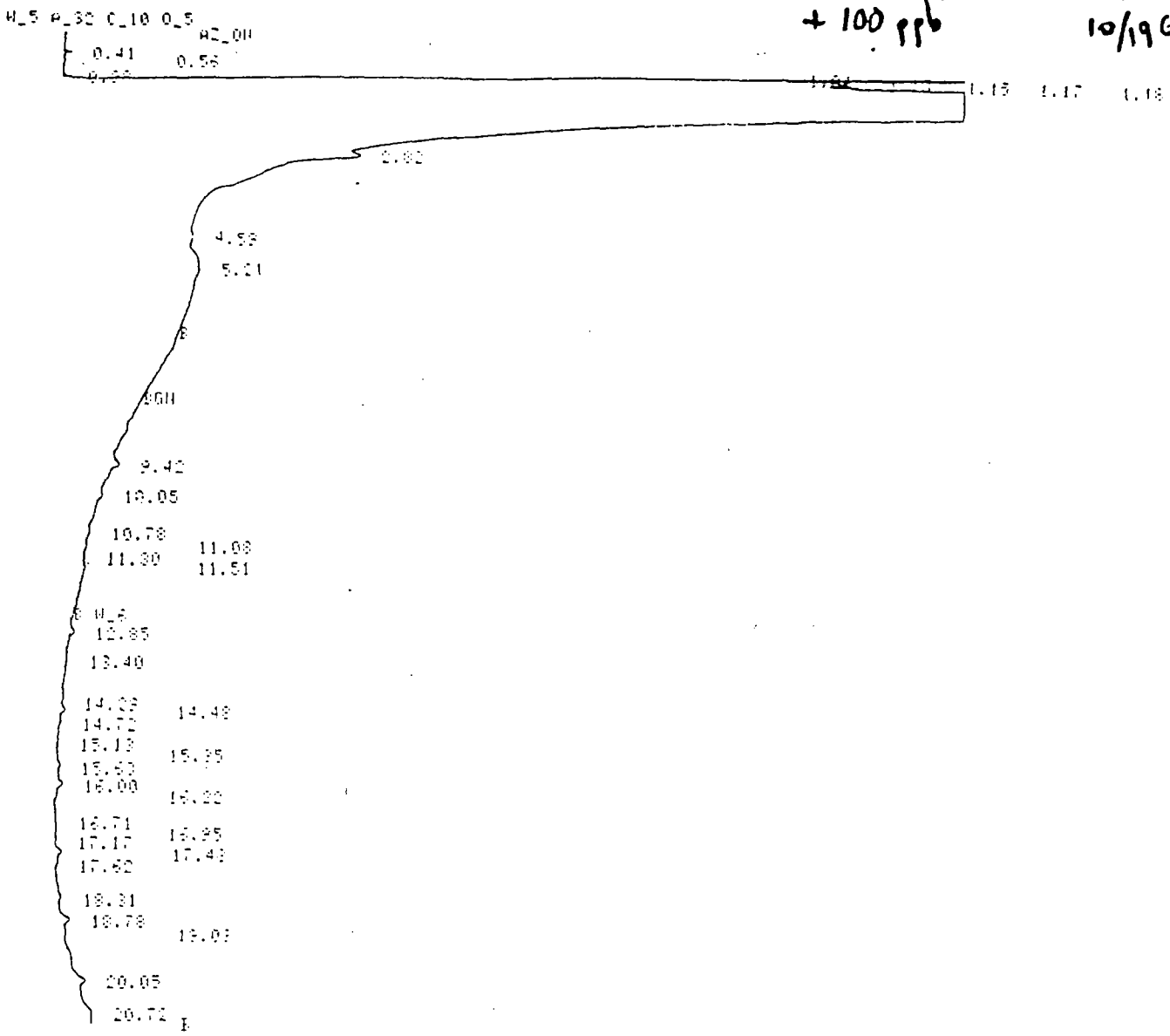
FILE 88 RUN 88 STARTED 11:57.9 80/01/06
% METHOD 1 DISELS LAST EDITED 00:31.0 80/01/01

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
9.42	35028	2.5555	V	21.2579	19.7668
10.04		0.7024	V		5.4330
11.29	2042	0.3401	V	1.2393	2.6305
11.52	40283	1.1705	V	24.4470	9.0541
12.82	3805	0.5038	V	2.3092	3.8970
13.36	7782	0.2054	V	4.7228	1.5962
14.11	3067	0.2000	V	1.8613	1.5470
14.46	1622	0.3515		0.9844	2.7192
15.33	1306	0.1766	V	0.7926	1.3657
15.62	1451	0.2094	V	0.8806	1.6195
15.80	945	0.1753	V	0.5735	1.3557
16.00	9008	0.7417	V	5.4665	5.7367
16.56	4338	0.3855	V	2.6327	2.9816
16.96	859	0.1189	V	0.5213	0.9198
17.42	2488	0.4518	V	1.5099	3.4943
17.61	2192	0.2680	V	1.3303	2.0726
18.32	2558	0.2638	V	1.5524	2.0402
18.76	3765	0.8033	V	2.2849	6.2134
19.00	5145	0.6318	V	3.1224	4.8872
20.03	24238	1.7036	V	14.7096	13.1776
20.69	12855	0.9686		7.8015	7.4920

20 PEAKS > AREA REJECT 164777 TOTAL AREA
21 PEAKS > HEIGHT REJECT 12.9283 TOTAL HEIGHT

FILE 87 RUN 87 STARTED 11:11.1 80/01/06
% METHOD 1 DISELS LAST EDITED 00:31.0 80/01/01

3.10 µl D.I. Spike 1000: 1.6
+ 100 ppb 10/19 GR



FILE 87 RUN 87 STARTED 11:11.1 80/01/06
% METHOD 1 DISELS LAST EDITED 00:31.0 80/01/01

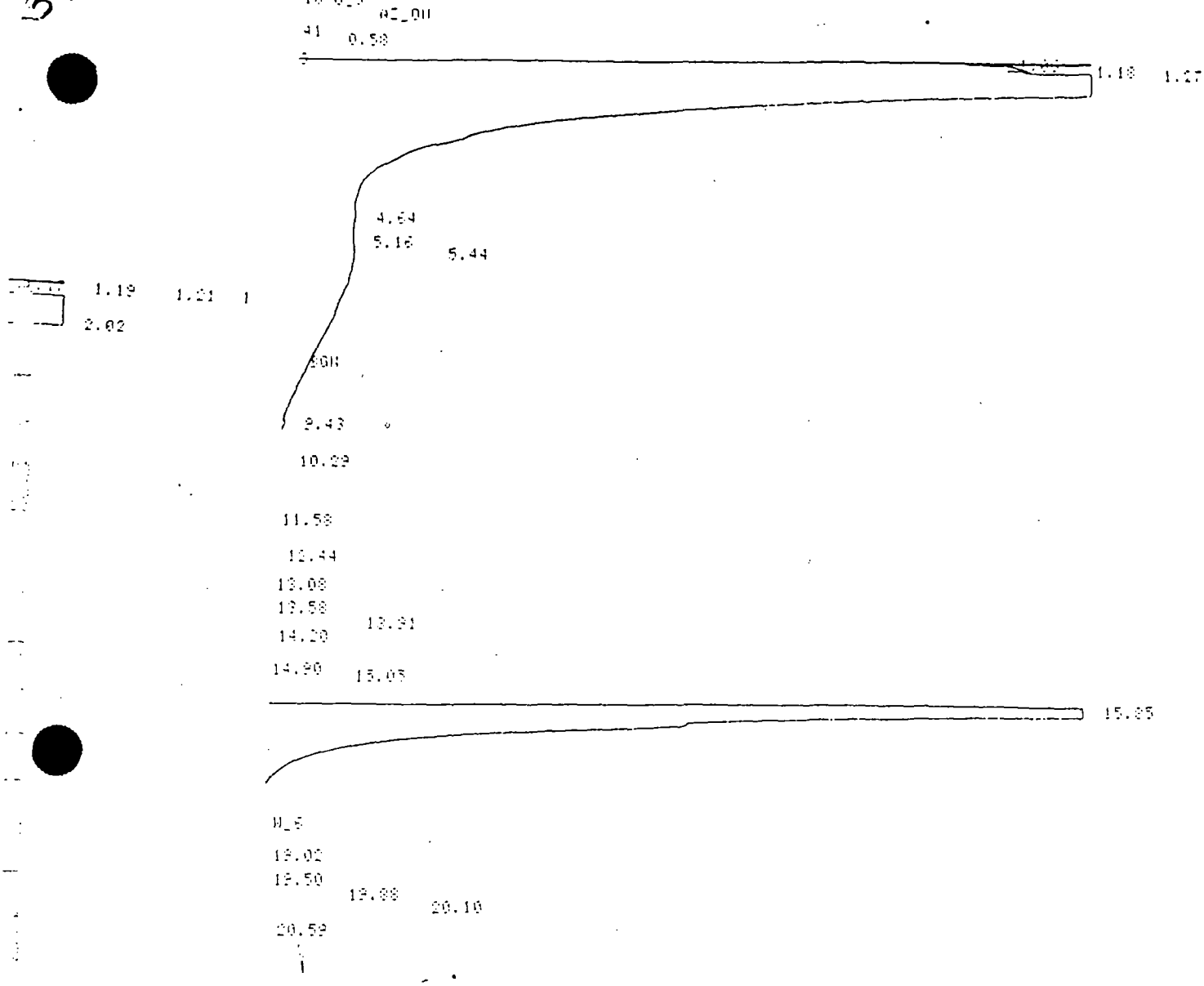
RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
9.42	43762	3.0478	V	17.0924	11.9891
10.05	10972	1.0527	V	4.2854	4.1409
10.78	3792	0.5113	V	1.4811	2.0111
11.03	4923	0.7575	V	1.9228	2.9798
11.30	1059	0.2594	V	0.4136	1.0203
11.51	28436	1.1440		11.1064	4.5003
12.85	16786	1.7627	V	6.5562	6.9339
13.40	16078	0.5808	V	6.2795	2.2846
14.29	3650	0.2546	V	1.4256	1.0015
14.48	9473	1.4377	V	3.6999	5.6555
14.72	1846	0.5297	V	0.7210	2.0836
15.13	1073	0.2017	V	0.4191	0.7932
15.35	2463	0.3667	V	0.9620	1.4424
15.63	6618	0.8967	V	2.5846	3.5273
16.00	15625	1.9294	V	6.1025	7.5896
16.22	2232	0.3231	V	0.8718	1.2709
16.71	4273	0.2618	V	1.6689	1.0297
16.95	1118	0.1552	V	0.4367	0.6105
17.17	1650	0.2608	V	0.6443	1.0260
17.43	13675	1.8896	V	5.3411	7.4330
17.62	1955	0.3090	V	0.7636	1.2154
18.31	13936	0.9375	V	5.4431	3.6876
18.78	15883	2.3208	V	6.2035	9.1293
19.03	3502	0.4242	V	1.3678	1.6688
20.05	14944	2.3919	V	5.8368	9.4090
20.72	16310	1.4152		6.3703	5.5668

26 PEAKS AREA REJECT 256032 TOTAL AREA
26 PEAKS HEIGHT REJECT 25.4214 TOTAL HEIGHT

3 µl

RUN 90 STARTED 13:08.0 80/01/06
1 DISELS LAST EDITED 00:31.0 80/01/01

1 µl 8100242 900:1.0 10/19 02



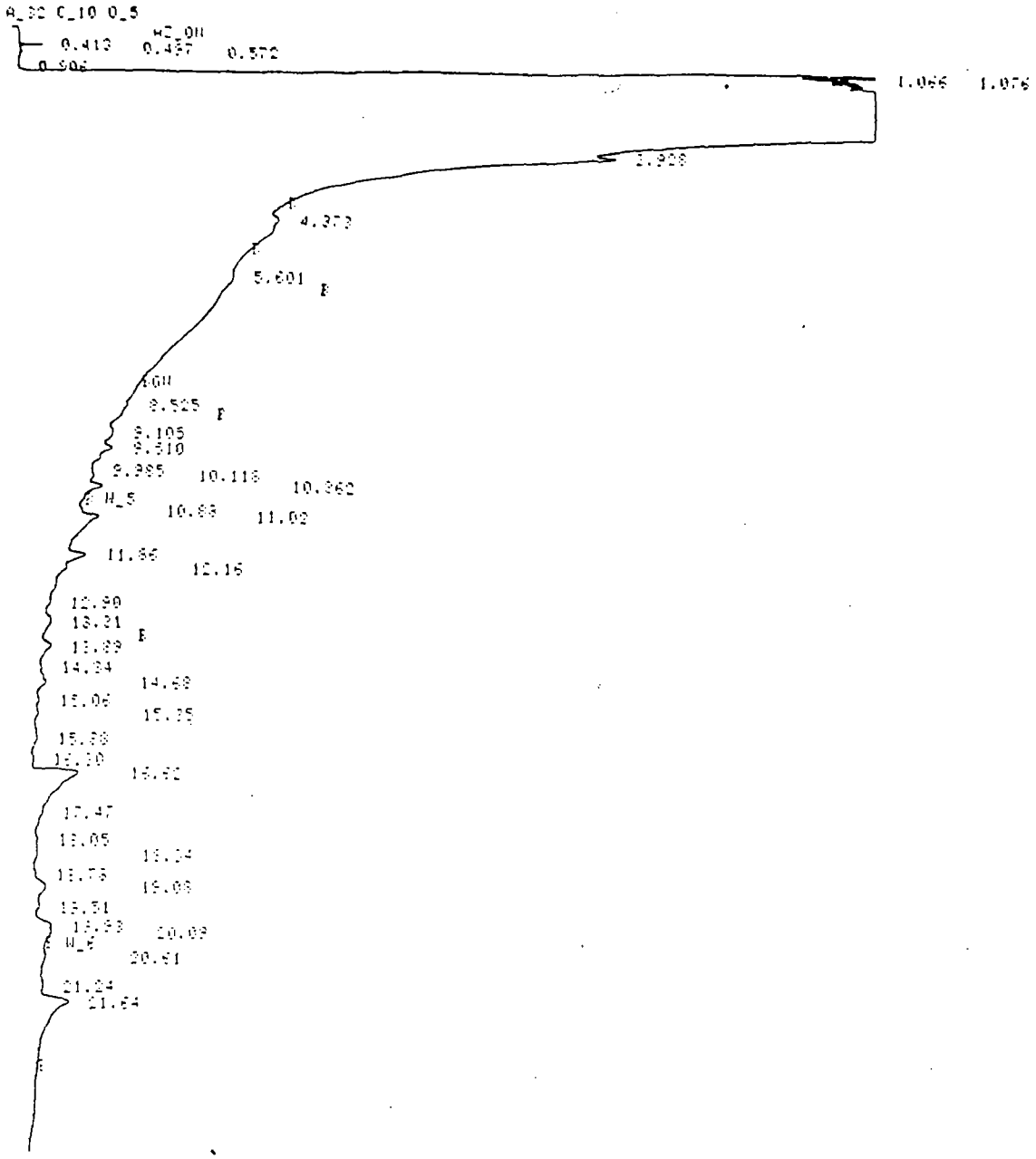
0 RUN 90 STARTED 13:08.0 80/01/06
OD 1 DISELS LAST EDITED 00:31.0 80/01/01

AREA	HEIGHT	DC	AREA PERCENT	HEIGHT PERCENT
15922	1.0160	V	0.1277	0.1635
13730	3.3572	V	0.1101	0.5403
27470	0.8141	V	0.2203	0.1310
43570	4.4458	V	0.3495	0.7154
21095	1.7480	V	0.1692	0.2813
14088	1.6031	V	0.1130	0.2588
35767	2.5653	V	0.2869	0.4128
2723	0.4340	V	0.0219	0.0698
1510	0.2303	V	0.0121	0.0371
4248	0.4146	V	0.0341	0.0667
12259774	601.9771		98.3311	96.8718
12668	1.1013	V	0.1016	0.1772
2832	0.3338	V	0.0227	0.0537
4993	0.7223	V	0.0400	0.1162
2121	0.2490	V	0.0170	0.0401
5336	0.3988	V	0.0428	0.0642

Diesels
10/19/88

PEAKS > AREA REJECT 12467847 TOTAL AREA
PEAKS > HEIGHT REJECT 621.4162 TOTAL HEIGHT

% METHOD 1 DIESELS LAST EDITED 00:05.8 80/01/01 5.50µl 8100243 900:1.4 10/20 48

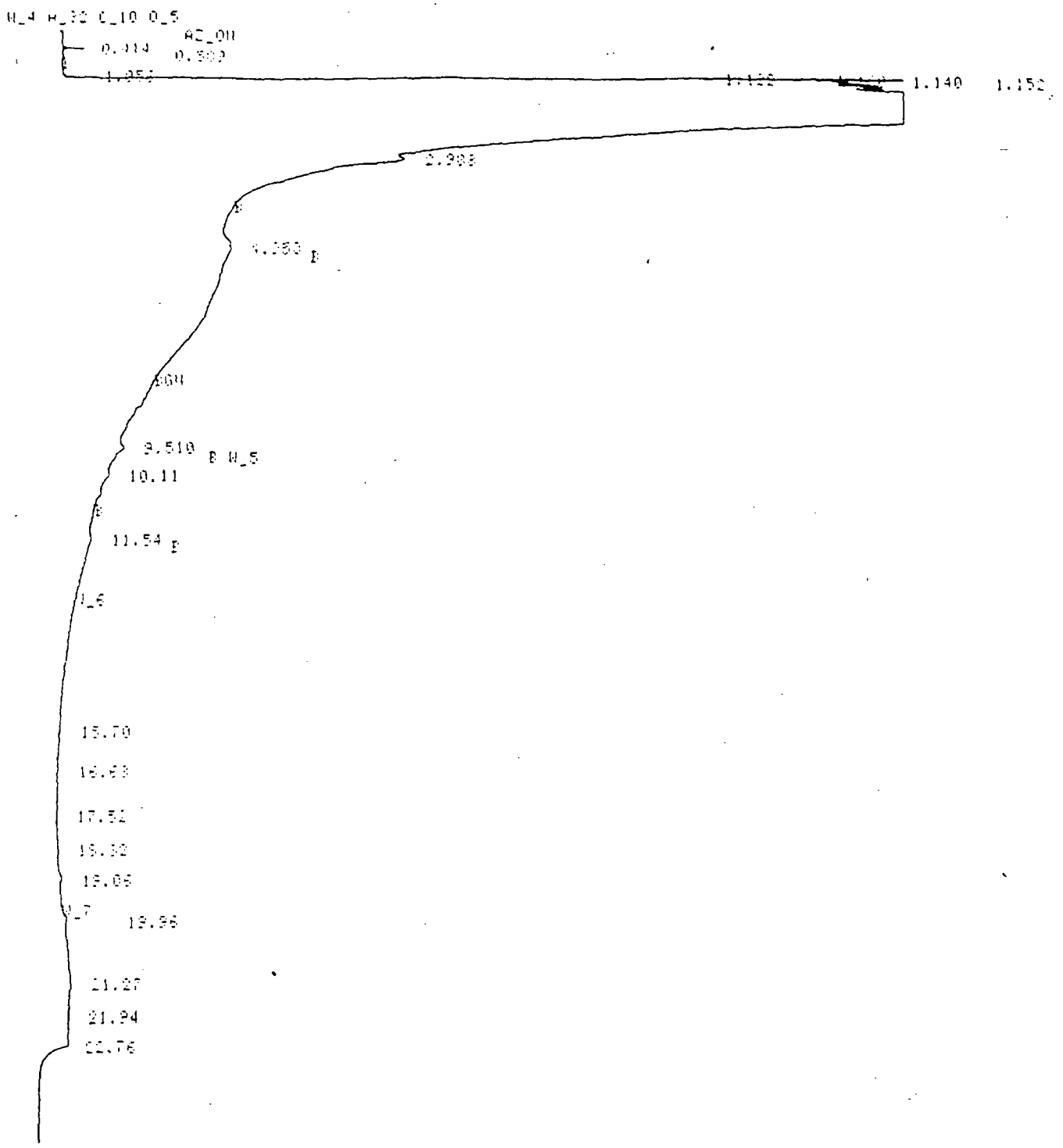


FILE 1 RUN 1 STARTED 00:43.4 80/01/01
% METHOD 1 DIESELS LAST EDITED 00:05.8 80/01/01

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
8.525	2446	0.6651		0.1913	0.8300
9.105	26991	1.4588	V	2.1112	1.8205
9.510	47312	4.0651	V	3.7006	5.0728
9.985	681	0.1533	V	0.0532	0.1913
10.118	7250	1.1011	V	0.5671	1.3740
10.362	41791	5.4732		3.2688	6.8300
10.88	3120	0.6175	V	0.2440	0.7706
11.02	109336	6.7671	V	8.5521	8.4446
11.86	63934	6.9050	V	5.0008	8.6166
12.16		0.9256	V		1.1550
12.90	6169	0.5954	V	0.4825	0.7430
13.31	42382	2.4120		3.3150	3.0099
13.89	48013	3.6720	V	3.7555	4.5822
14.34	2784	0.5062	V	0.2178	0.6317
14.68	38888	2.9031	V	3.0418	3.6227
15.06	7912	1.0063	V	0.6189	1.2557
15.35	10108	1.0261	V	0.7906	1.2805
15.88	30772	1.6535	V	2.4069	2.0634
16.30	4051	0.5893	V	0.3169	0.7354
16.62	392543	16.0978	V	30.7042	20.0833
17.47	3924	0.5157	V	0.3069	0.6435
18.05	4478	0.6937	V	0.3503	0.8656
18.34	9981	0.6299	V	0.7807	0.7861
18.78	2267	0.4107	V	0.1773	0.5125
19.08	53265	3.5604	V	4.1663	4.4430
19.51	7798	0.9297	V	0.6099	1.1602
19.93	9863	1.7082	V	0.7715	2.1316
20.09	10087	0.9829		0.7890	1.2266
20.61	14001	1.0913	V	1.0951	1.3618

FILE 2 RUN 2 STARTED 01:38.3 80/01/01
% METHOD 1 DIESELS LAST EDITED 00:05.8 80/01/01

3.10 µl 8100244 900:1.8



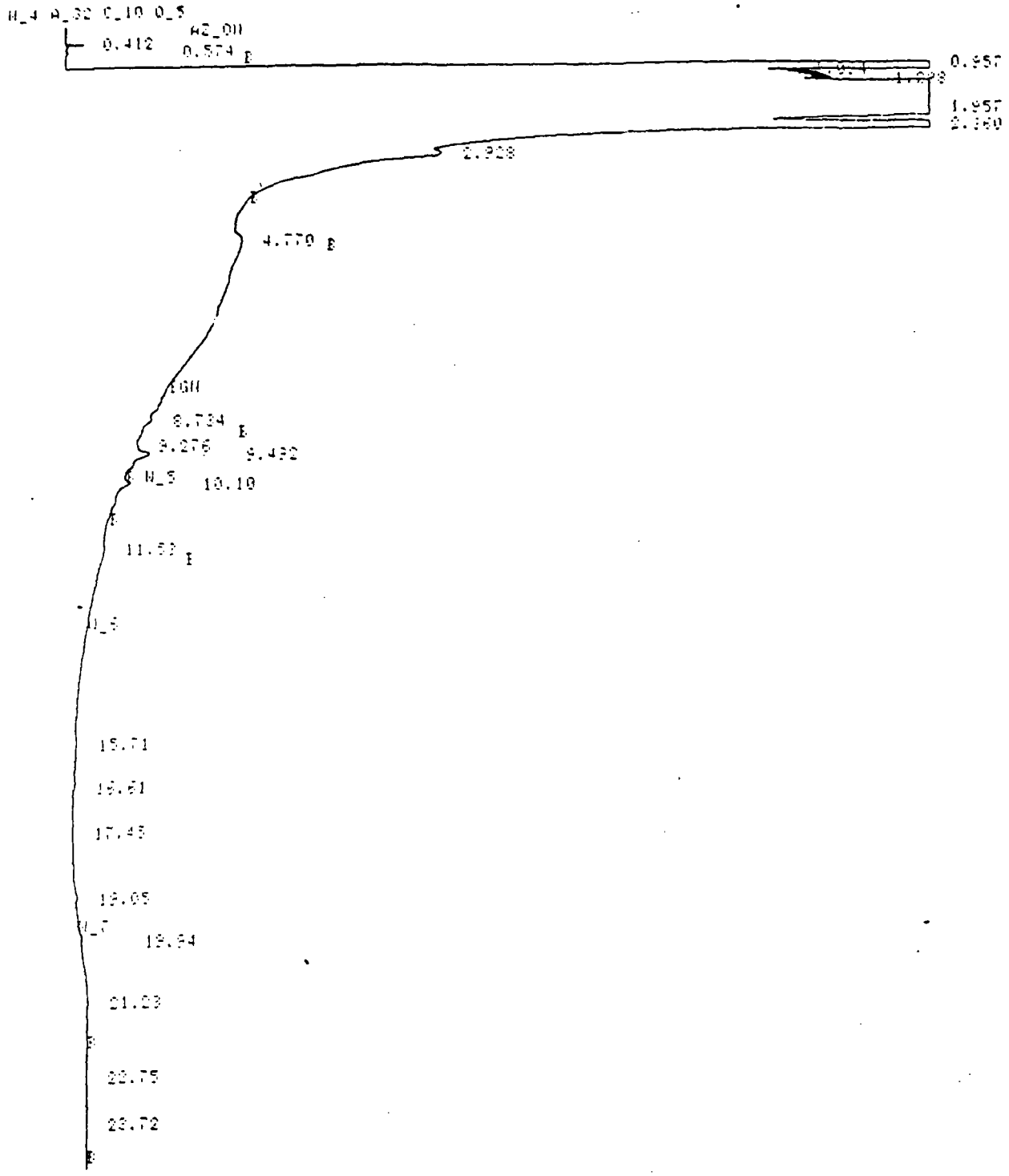
FILE 2 RUN 2 STARTED 01:38.3 80/01/01
% METHOD 1 DIESELS LAST EDITED 00:05.8 80/01/01

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
9.510	21700	2.2544		24.2794	21.1730
10.11		0.8042			7.5530
11.54	9346	0.7490		10.4564	7.0349
15.70	4054	0.2031	V	4.5359	1.9078
16.63	7715	0.5704	V	8.6320	5.3569
17.52	1553	0.1258	V	1.7376	1.1819
18.32	1750	0.1918	V	1.9575	1.8014
19.05	6539	0.9518	V	7.3163	8.9369
19.96	3520	0.8597	V	3.9379	8.4502
21.27	30114	0.7130	V	33.6937	6.6966
21.94	3087	0.1240	V	3.4534	1.1647
22.76		3.0601	V		28.7407

10 PEAKS : AREA REJECT 89376 TOTAL AREA
12 PEAKS : HEIGHT REJECT 10.6473 TOTAL HEIGHT

FILE 3 RUN 3 STARTED 02:05.6 80/01/01
% METHOD 1 DIESELS LAST EDITED 00:05.8 80/01/01

3.10µl 8100245 900:1.9



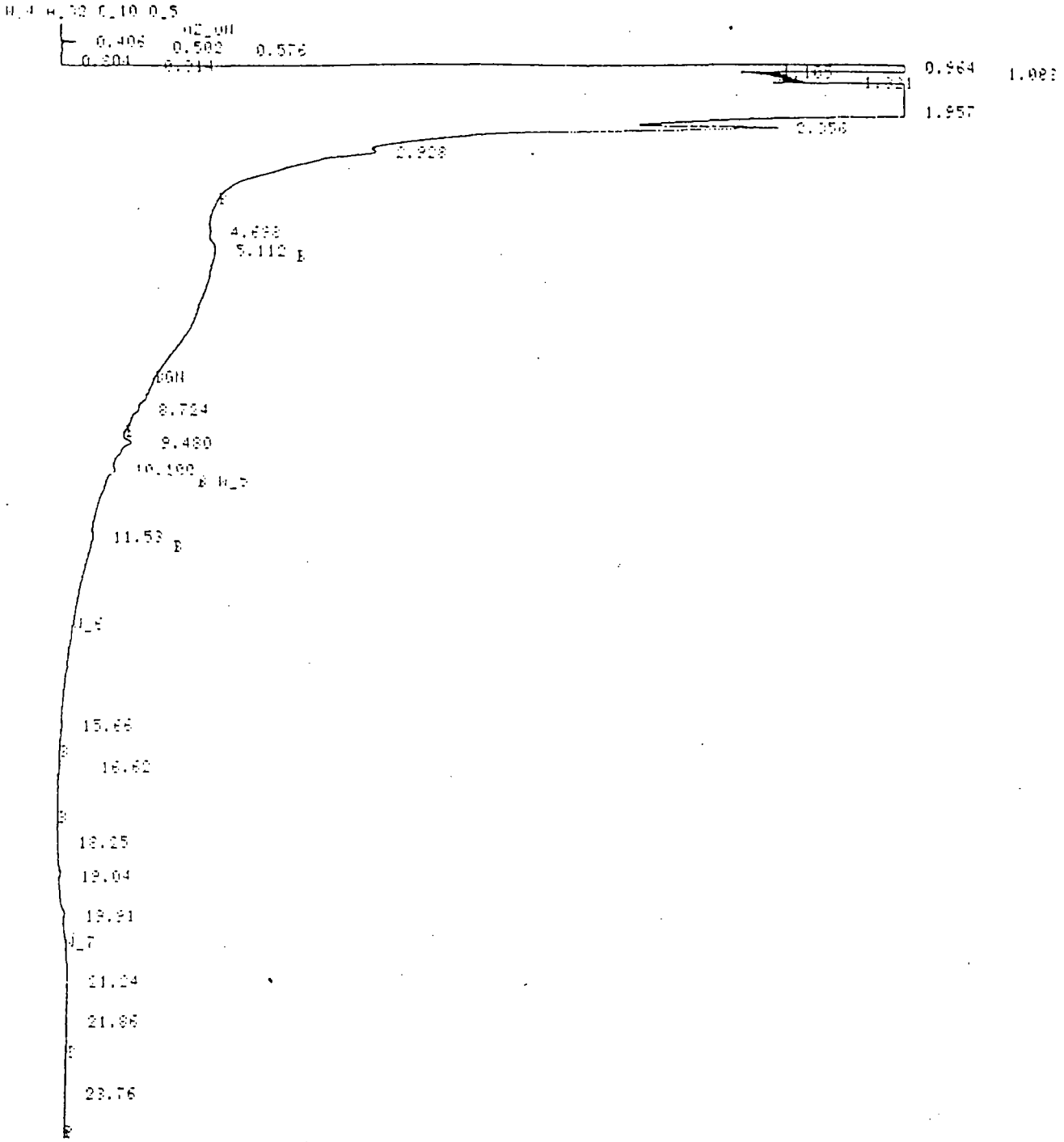
FILE 3 RUN 3 STARTED 02:05.6 80/01/01
% METHOD 1 DIESELS LAST EDITED 00:05.8 80/01/01

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
9.734	3389	1.1048		1.8913	7.9659
9.276	312	0.0903	V	0.1686	0.6309
9.492	60544	5.5881		32.7164	40.2918
10.10	5213	2.6755		2.8167	19.2911
11.53	9133	0.6904		4.9352	4.9779
15.71	16725	0.6864	V	9.0756	4.9492
16.61	5135	0.3428	V	2.7746	2.4720
17.45	1005	0.0906	V	0.5431	0.6534
19.05	2246	0.5947	V	1.2137	4.2879
19.94	244	0.5963	V	0.1319	4.3033
21.23	72600	1.1495		39.2313	8.2985
22.75	3897	0.1321	V	2.1056	0.9500
23.72	4545	0.1259		2.4560	0.9081

12 PEAKS / AREA REJECT 185057 TOTAL AREA

FILE 5 RUN 5 STARTED 03:24.6 80/01.01
% METHOD 1 DIESELS LAST EDITED 00:05.8 80/01/01

3.20pl 8100247 900:2.4 10/20 G



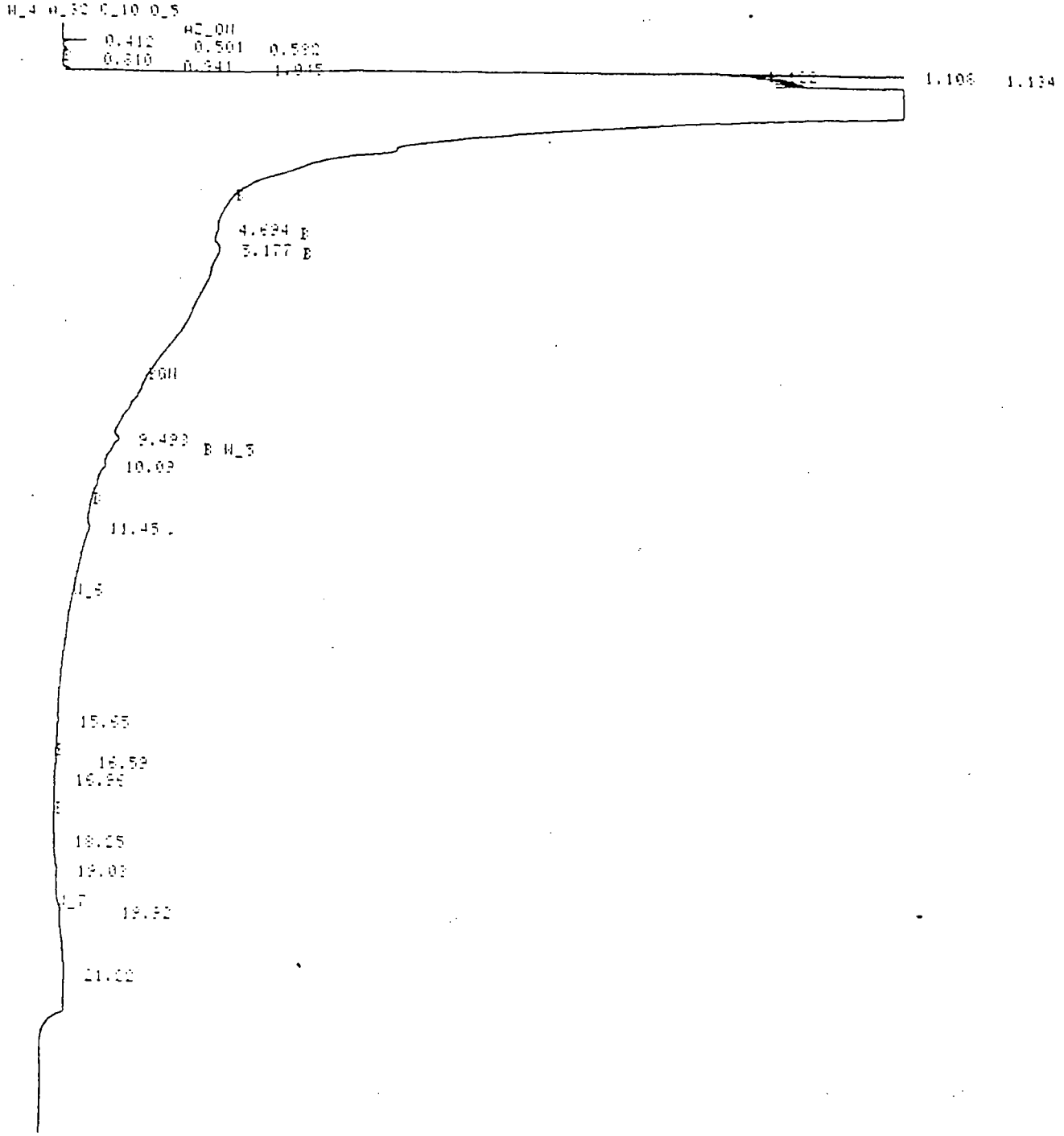
FILE 5 RUN 5 STARTED 03:24.6 80/01/01
% METHOD 1 DIESELS LAST EDITED 00:05.8 80/01/01

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
8.724	1988	0.5104		2.0714	5.3945
9.480	50185	3.9933	V	52.2909	42.2060
10.100	11656	1.6904		12.1451	17.8665
11.53	10751	0.7793		11.2021	8.2368
15.66	3850	0.2399		4.0116	2.5356
16.62	522	0.3160		0.5434	3.3403
18.25	1413	0.2008	V	1.4723	2.1221
19.04	5581	0.5782	V	5.8152	6.1117
19.91		0.5962	V		6.3014
21.24	6419	0.3855	V	6.6894	4.0742
21.86	2265	0.0774		2.3602	0.8180
23.76	1343	0.0938		1.3994	0.9909

11 PEAKS > AREA REJECT 95973 TOTAL AREA
12 PEAKS > HEIGHT REJECT 9.4613 TOTAL HEIGHT

FILE 6 RUN 6 STARTED 04:15.2 80/01/01
% METHOD 1 DIESELS LAST EDITED 00:05.8 80/01/01

3.30 µl 8100248 900: 1.7



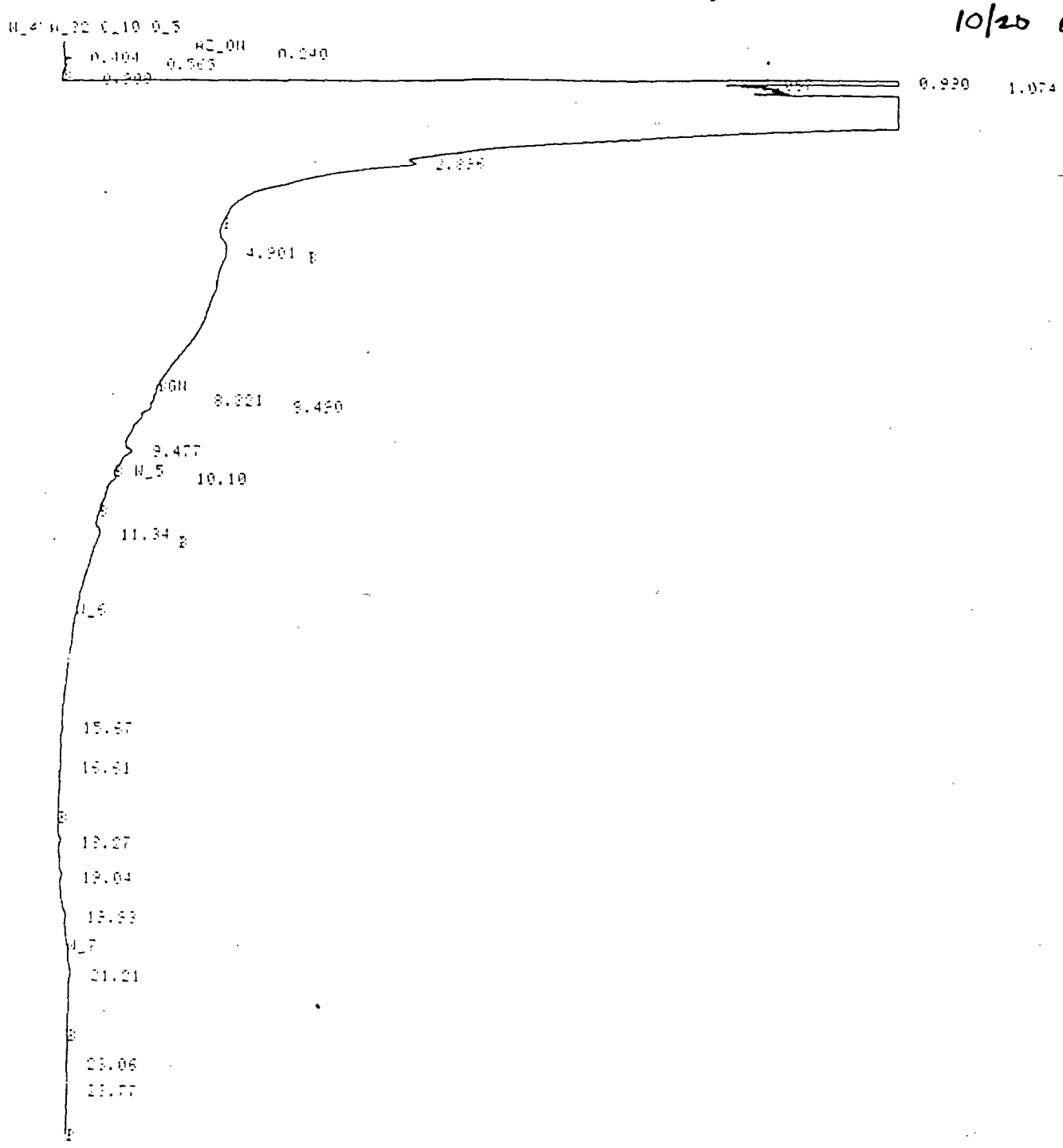
FILE 6 RUN 6 STARTED 04:15.2 80/01/01
% METHOD 1 DIESELS LAST EDITED 00:05.8 80/01/01

FT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
9.493	21160	2.2395		3.8327	20.6192
10.09		0.7789			7.1710
11.45	12923	0.8603		2.3407	7.9206
15.65	4967	0.2043		0.8996	1.8809
16.59	3227	0.3929	V	0.5845	3.6174
16.96	215	0.1563		0.0389	1.4386
18.25	2351	0.2025	V	0.4258	1.8648
19.03	9055	0.7814	V	1.6401	7.1917
19.92	3740	0.8623	V	0.6774	7.9391
21.02	494457	4.3929	V	89.5602	40.3599

9 PEAKS > AREA REJECT 552025 TOTAL AREA
10 PEAKS > HEIGHT REJECT 10.8612 TOTAL HEIGHT

FILE 7 RUN 7 STARTED 04:48.7 80.01/01
% METHOD 1 DIESELS LAST EDITED 00:05.8 80/01/01

3.40 µl 8100249 900:2:1
10/20 GE



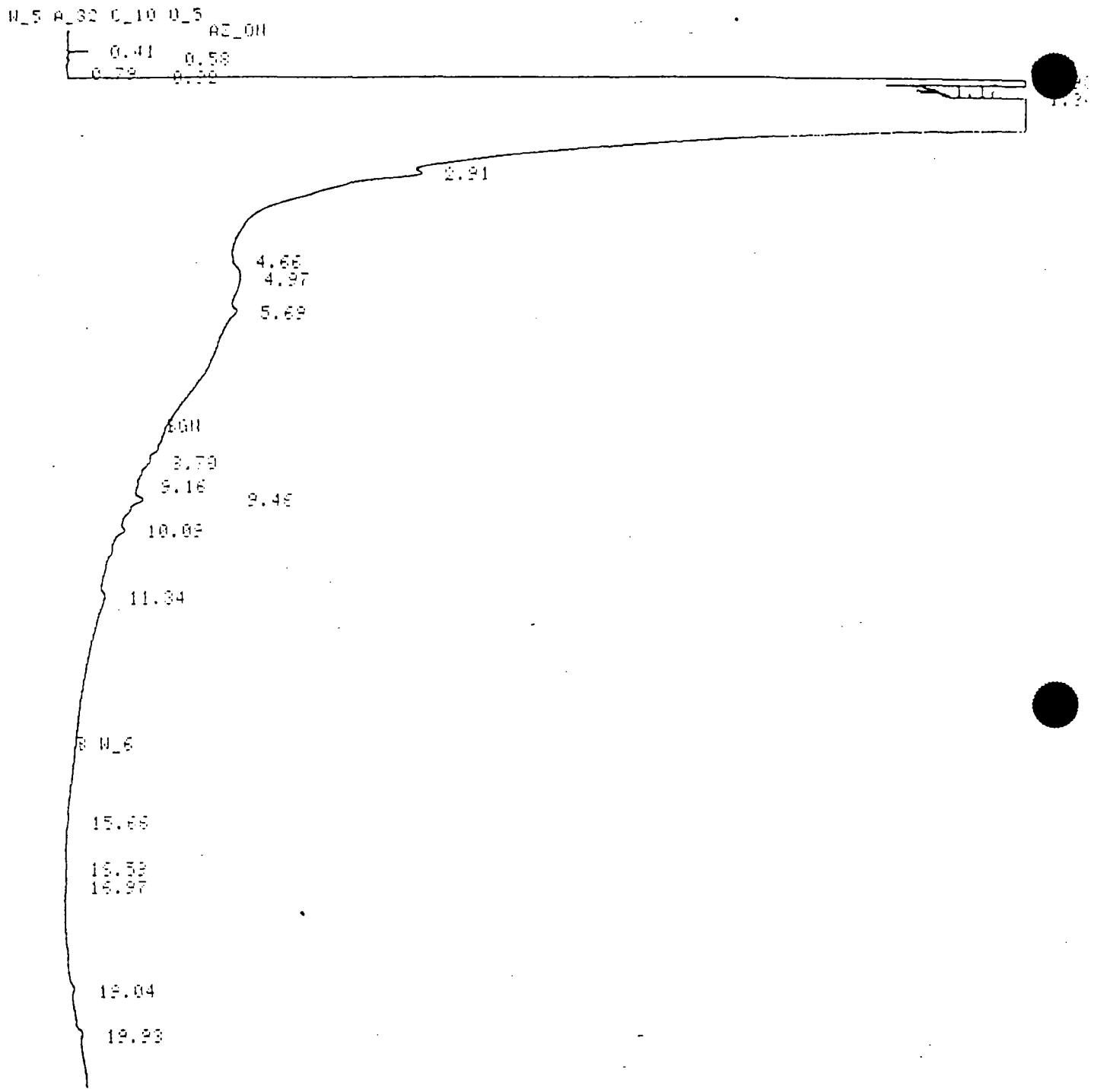
FILE 7 RUN 7 STARTED 04:48.7 80/01/01
% METHOD 1 DIESELS LAST EDITED 00:05.8 80/01/01

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
8.321	1779	0.3771	V	1.0706	2.8806
8.490		1.0547	V		8.0563
9.477	50934	3.7292		30.6519	28.4880
10.10	2384	1.4309		1.7356	10.2307
11.34	19544	1.3956		11.7617	10.6611
15.67	7530	0.3357	V	4.5316	2.5646
16.61	5910	0.5152		3.5567	3.9355
18.27	9024	0.9856	V	5.4307	7.5293
19.04	12226	0.9491	V	7.3574	7.2501
19.93	5172	0.9590	V	3.1126	7.3257
21.21	48868	1.1737		29.4090	8.9657
23.06	2297	0.0912	V	1.3823	0.6966
23.77		0.0936			0.7153

11 PEAKS > AREA REJECT 166167 TOTAL AREA
13 PEAKS > HEIGHT REJECT 13.0905 TOTAL HEIGHT

FILE 85 RUN 85 STARTED 09:13.8 80/01/06
% METHOD 1 DISELS LAST EDITED 00:31.0 80/01/01

3.20 ug 8100250 90



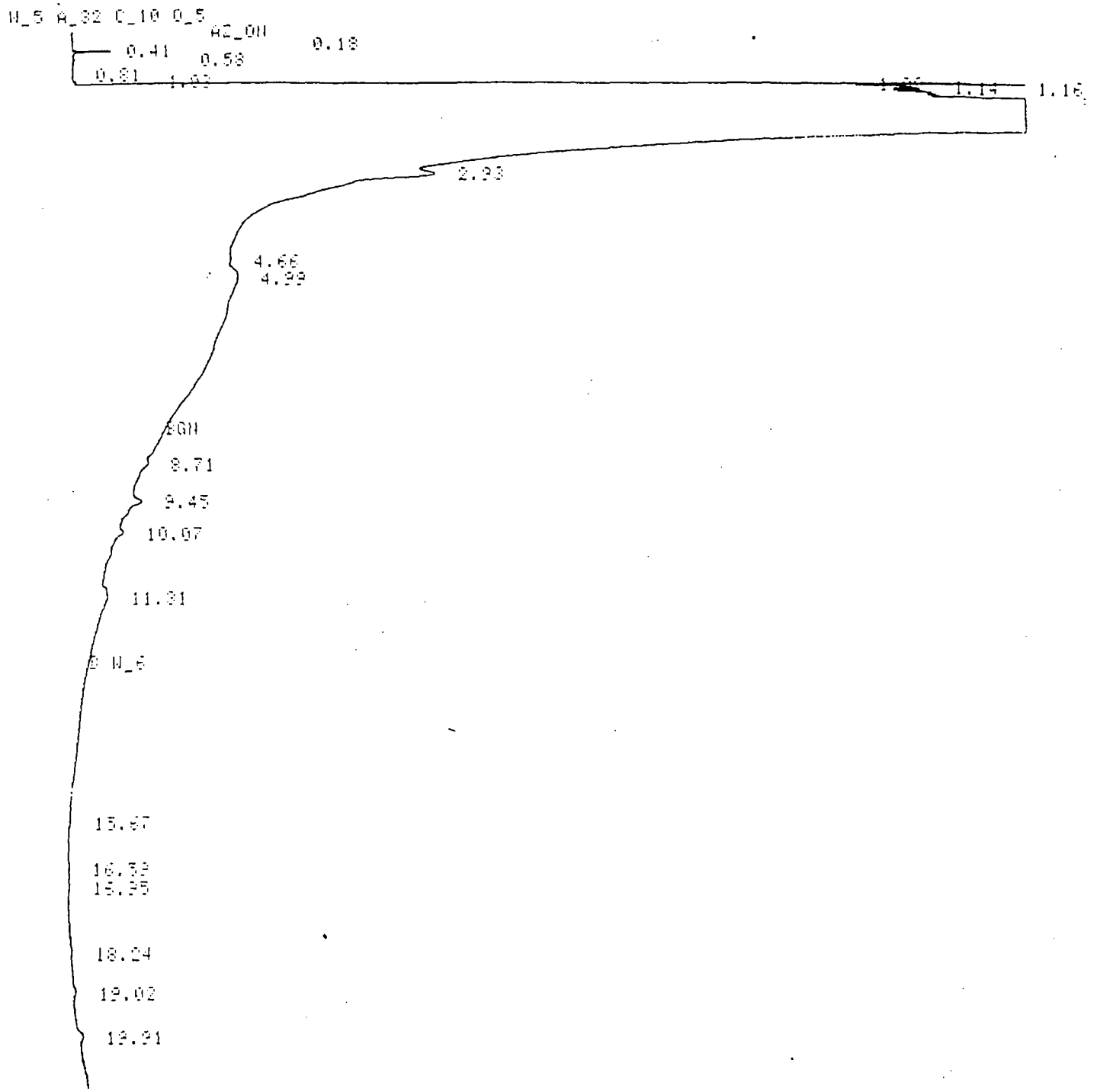
FILE 85 RUN 85 STARTED 09:13.8 80/01/06
% METHOD 1 DISELS LAST EDITED 00:31.0 80/01/01

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
8.70		0.5114	V		4.6394
9.16	1856	0.2986	V	2.7083	2.7086
9.46	36984	3.6686	V	53.9766	33.2827
10.09		1.7862	V		16.2051
11.34	10133	1.8341		14.7880	16.6394
15.66	10653	0.4527	V	15.5469	4.1067
16.59	2485	0.3546	V	3.6275	3.2170
16.97	2601	0.2448	V	3.7961	2.2208
19.04	3807	1.0138	V	5.5562	9.1979
19.93		0.8578	V		7.7823

7 PEAKS X AREA REJECT 68519 TOTAL AREA
10 PEAKS X HEIGHT REJECT 11.0225 TOTAL HEIGHT

FILE 86 RUN 86 STARTED 09:47.4 80/01/06
% METHOD 1 DISELS LAST EDITED 00:31.0 80/01/01

3.20 ml 8100252 9001



FILE 86 RUN 86 STARTED 09:47.4 80/01/06
% METHOD 1 DISELS LAST EDITED 00:31.0 80/01/01

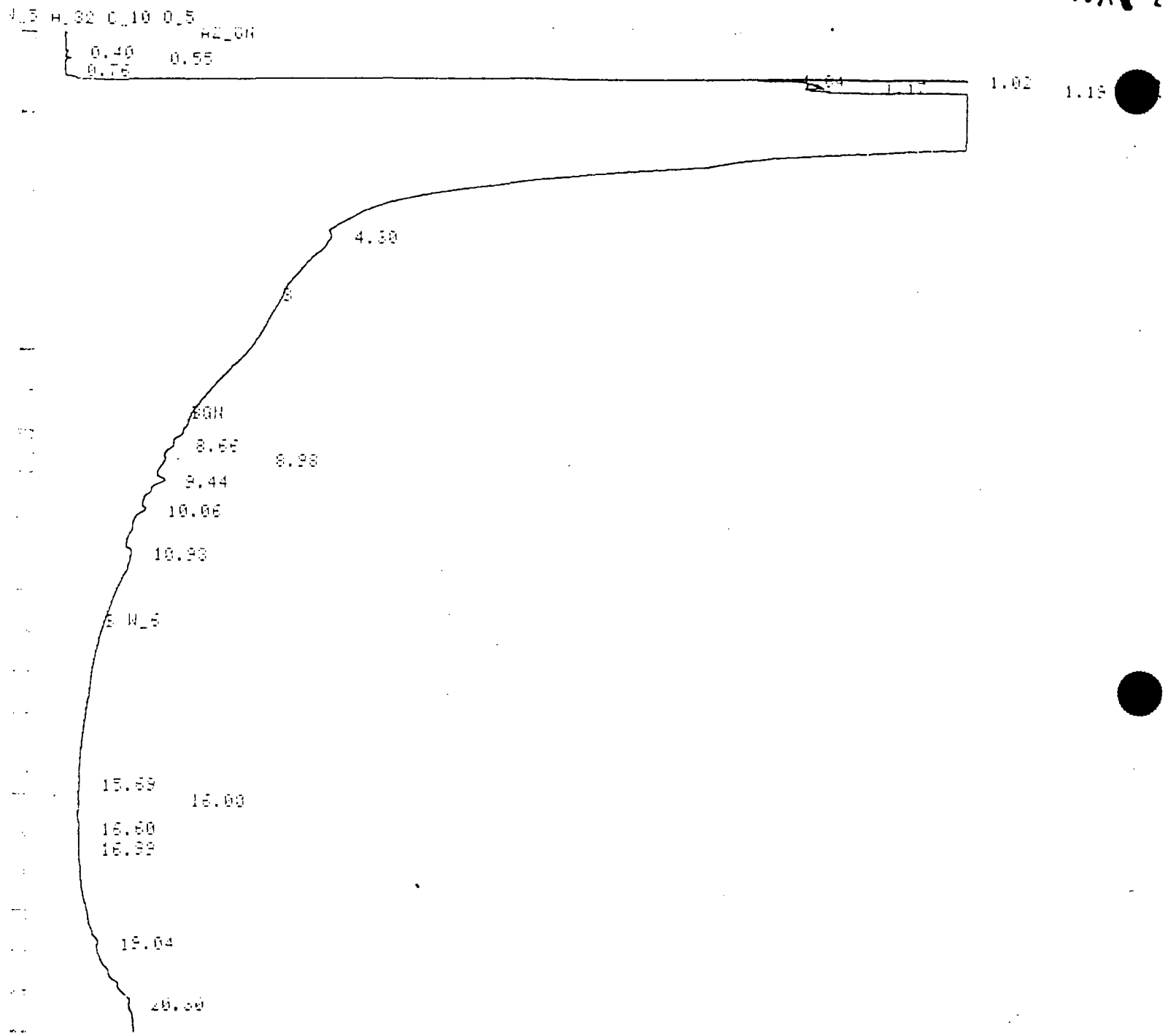
RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
8.71		0.7686	V		6.0648
9.45	44030	3.9438	V	26.9810	31.1196
10.07		1.8160	V		14.3294
11.31	88494	2.4024		54.2280	18.9568
15.67	7312	0.2896	V	4.4807	2.2854
16.59	3342	0.4275	V	2.0476	3.3736
16.95	3444	0.2679	V	2.1104	2.1141
18.24	4827	0.5374	V	2.9579	4.2402
19.02	10687	1.0047	V	6.5489	7.9278
19.91	1053	1.2151	V	0.6453	9.5882

8 PEAKS > AREA REJECT 163199 TOTAL AREA
10 PEAKS > HEIGHT REJECT 12.6731 TOTAL HEIGHT

FILE 65 RUN 65 STARTED 13:14.7 80/01/05
METHOD 1 DISELS LAST EDITED 00:31.0 80/01/01

3.40 ml 8100 251

900:
10/18



FILE 65 RUN 65 STARTED 13:14.7 80/01/05
METHOD 1 DISELS LAST EDITED 00:31.0 80/01/01

RT	AREA	HEIGHT	BC	AREA PERCENT	HEIGHT PERCENT
8.66	5175	0.6189	V	2.8511	4.7365
8.98	12965	1.0665	V	7.1429	8.1626
9.44	37871	3.9207	V	20.8645	30.0064
10.06	2105	2.0254	V	1.1597	15.5014
10.93	110644	2.3146		60.9577	17.7149
15.69	3142	0.2713	V	1.7310	2.0764
16.00	3735	0.2320	V	2.0577	1.7757
16.60	3473	0.4663	V	1.9134	3.5684
16.99	2400	0.1980	V	1.3220	1.5157
19.04		0.8431	V		6.4524
20.00		1.1092	V		8.4895

9 PEAKS > AREA REJECT 181510 TOTAL AREA
11 PEAKS > HEIGHT REJECT 13.0661 TOTAL HEIGHT

Diesels
10/18/88

SEQUOIA ANALYTICAL
680 Chesapeake Drive · Redwood City, CA 94063
(415) 364-9222 · FAX (415) 364-9233

Q.C. Sample Dates
Date Analyzed: 10/15/88
Date Reported: 11/03/88

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Peter Lyon

Quality Control Data Report

Method of Analysis: EPA 8240
Reporting Units: ug/L Purged
Analyst: J. Schwarz

Sample No.
Project: #JCO-111H

ANALYTE	SPIKE CONC. ADDED	CONC. MATRIX SPIKE	% REC.	CONC. MATRIX SPIKE DUP.	% REC.	REL. % DEV.
1,1-Dichloro ethene	50	52	105	57	113	3.8
Trichloro-ethene	50	48	95	50	100	2.6
Chloro-benzene	50	52	105	55	110	2.3
Toluene	50	48	97	50	100	1.7
Benzene	50	46	92	48	97	2.7

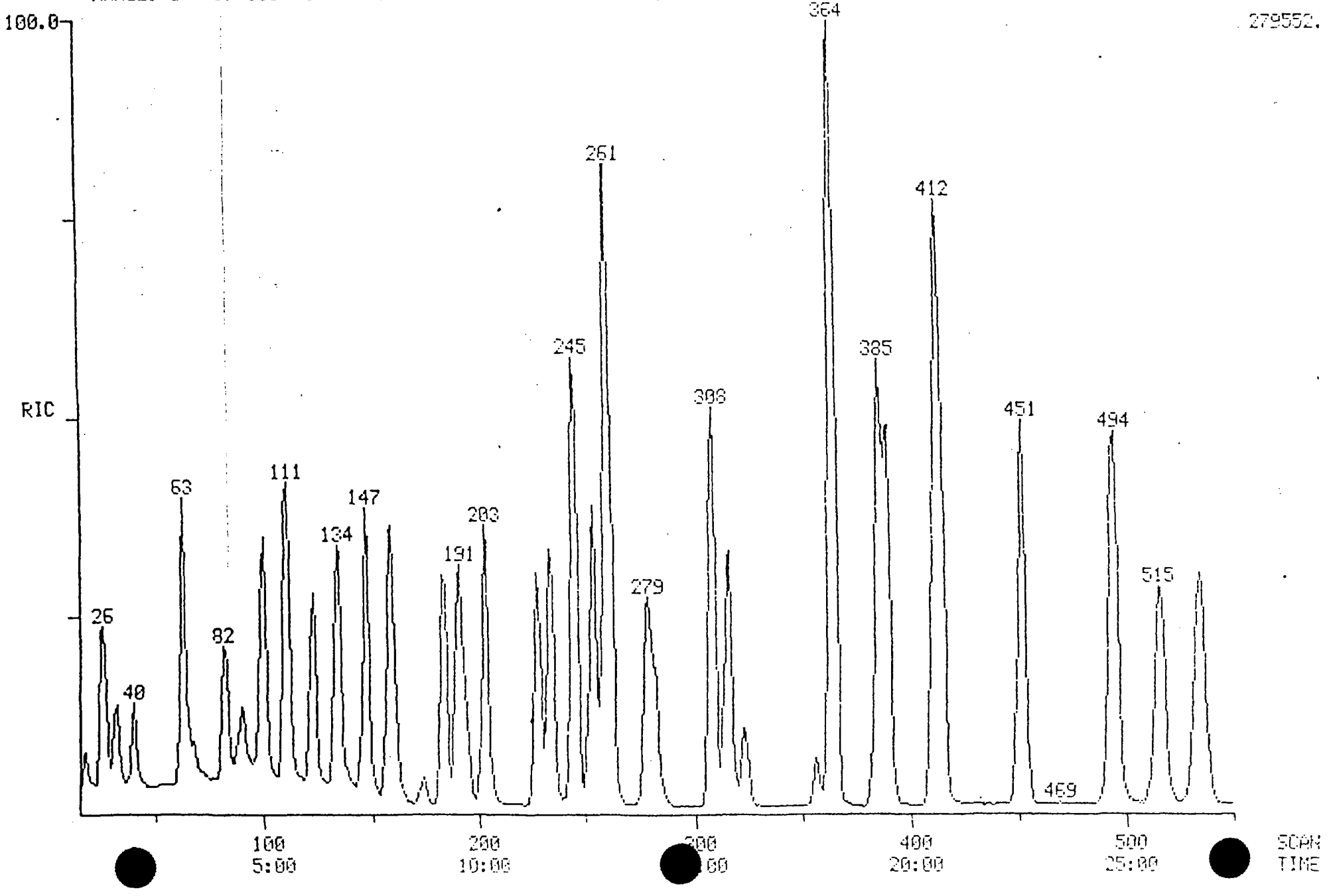
SEQUOIA ANALYTICAL LABORATORY

Scot Cocan

Arthur G. Burton
Laboratory Director

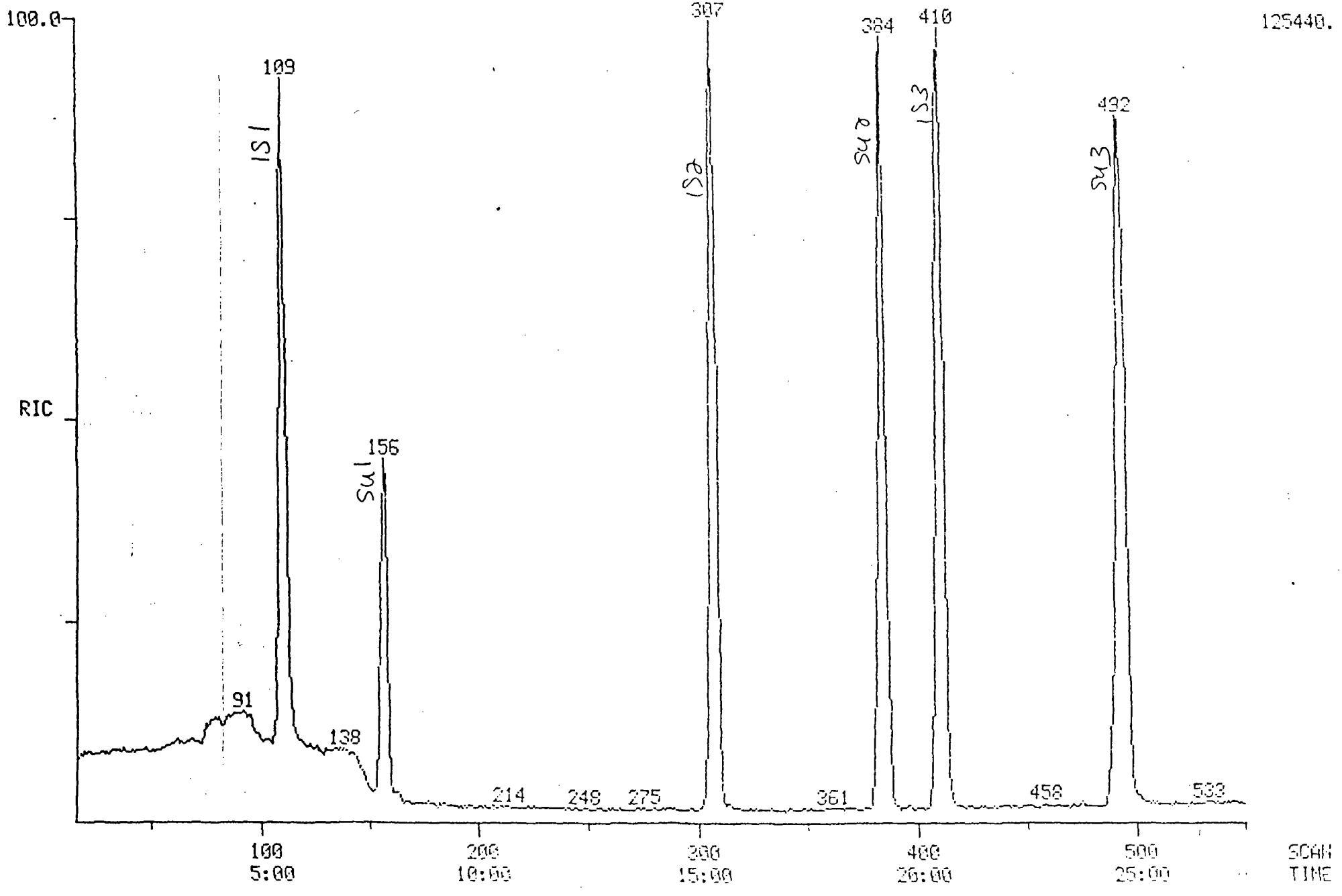
RIC
10/17/88 8:30:00
SAMPLE: HSL STD V101288A (50UG/L)
CONDS.: VOLATILE METHOD
RANGE: G 1, 550 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: VSTD101788 #1 SCANS 15 TO 550
CALI: VSTD101788 #2



RIC
10/17/88 9:14:00
SAMPLE: VOA BLANK (5ML)
CONDS.: VOLATILE METHOD
RANGE: G 1, 550 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

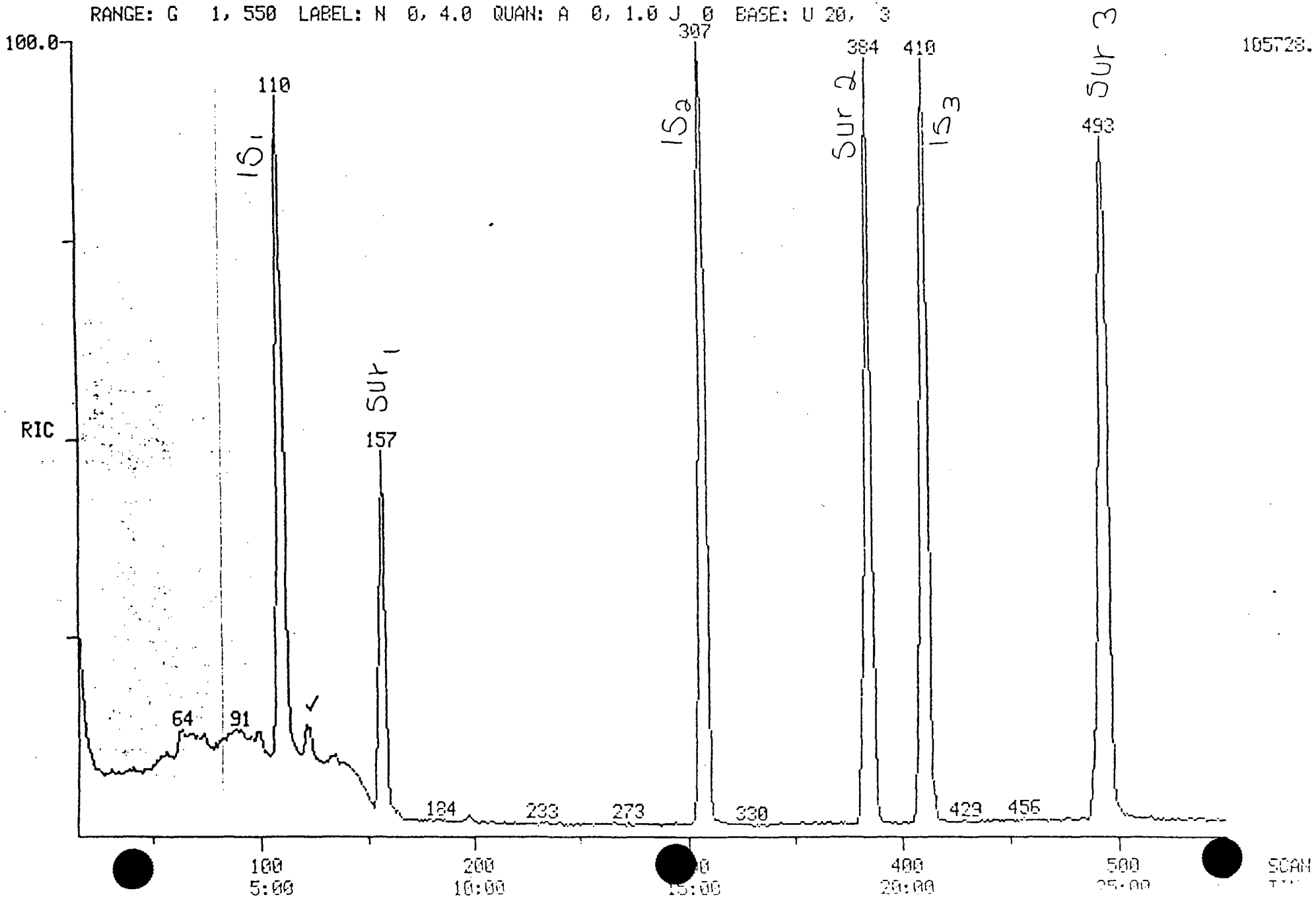
DATA: VBLK101788 #1 SCANS 15 TO 550
CALI: VBLK101788 #2



RIC
10/17/88 17:34:00
SAMPLE: V-1 (5ML)
CONDS.: VOLATILE METHOD
RANGE: G 1, 550 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

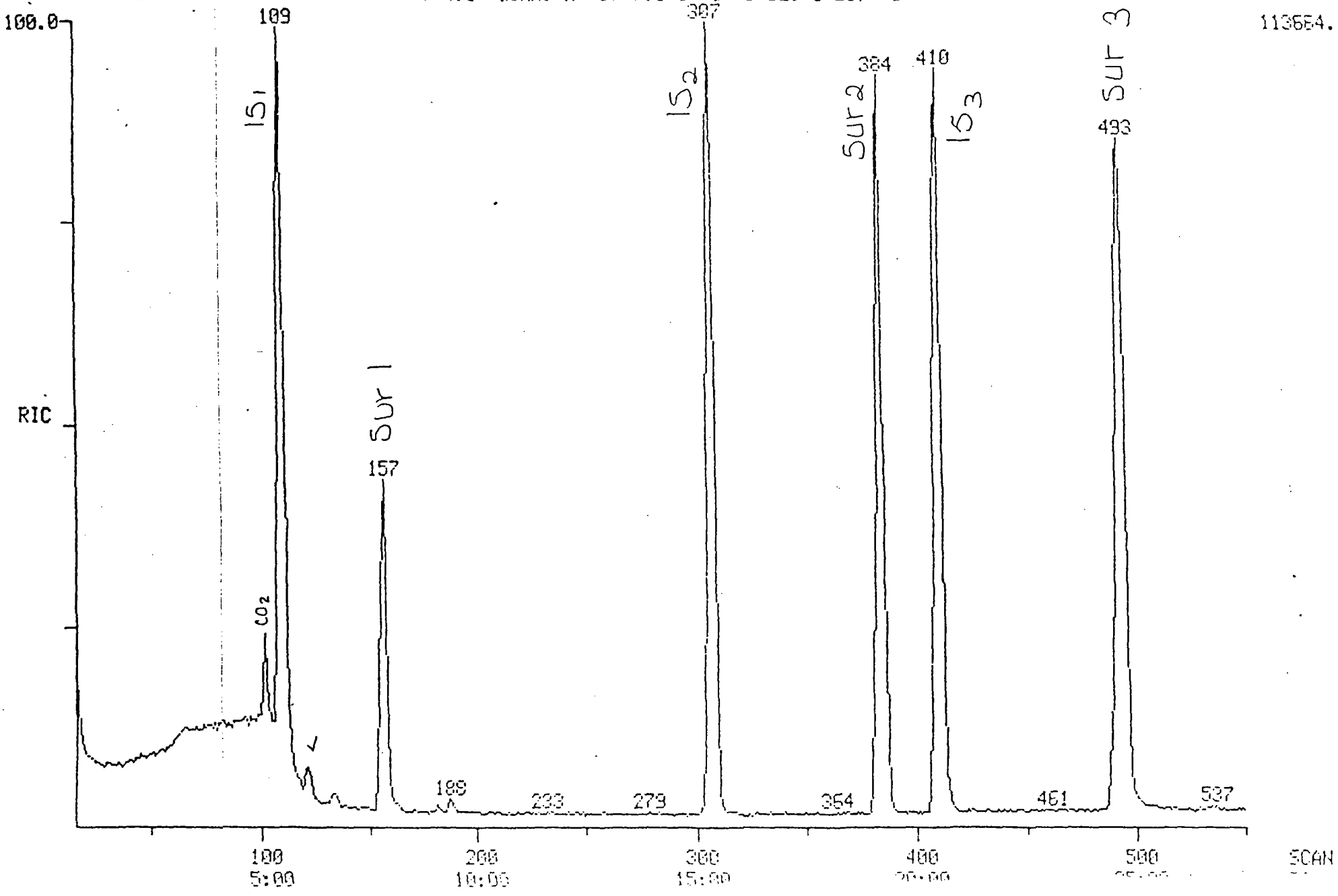
DATA: V8100241 #1
CALI: V8100241 #2

SCANS 15 TO 550



RIC
10/17/88 18:13:00
SAMPLE: V-3 (5ML)
CONDS.: VOLATILE METHOD
RANGE: G 1, 550 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

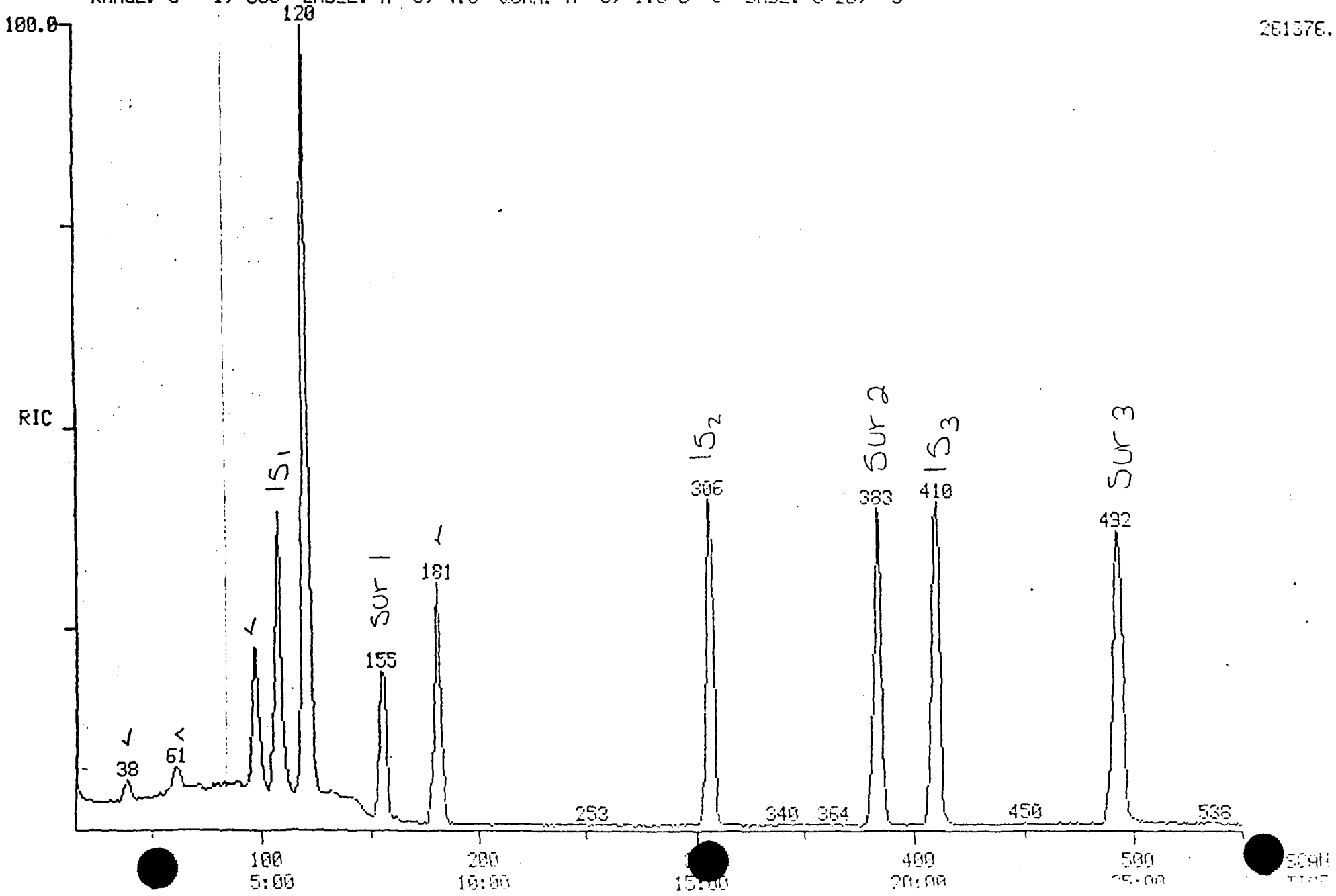
DATA: V8100242 #1 SCANS 15 TO 550
CALI: V8100242 #2



RIC
10/17/88 16:18:00
SAMPLE: V-4 (5ML)
CONDS.: VOLATILE METHOD
RANGE: G 1, 550 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: V8100253 #1
CALI: V8100253 #2

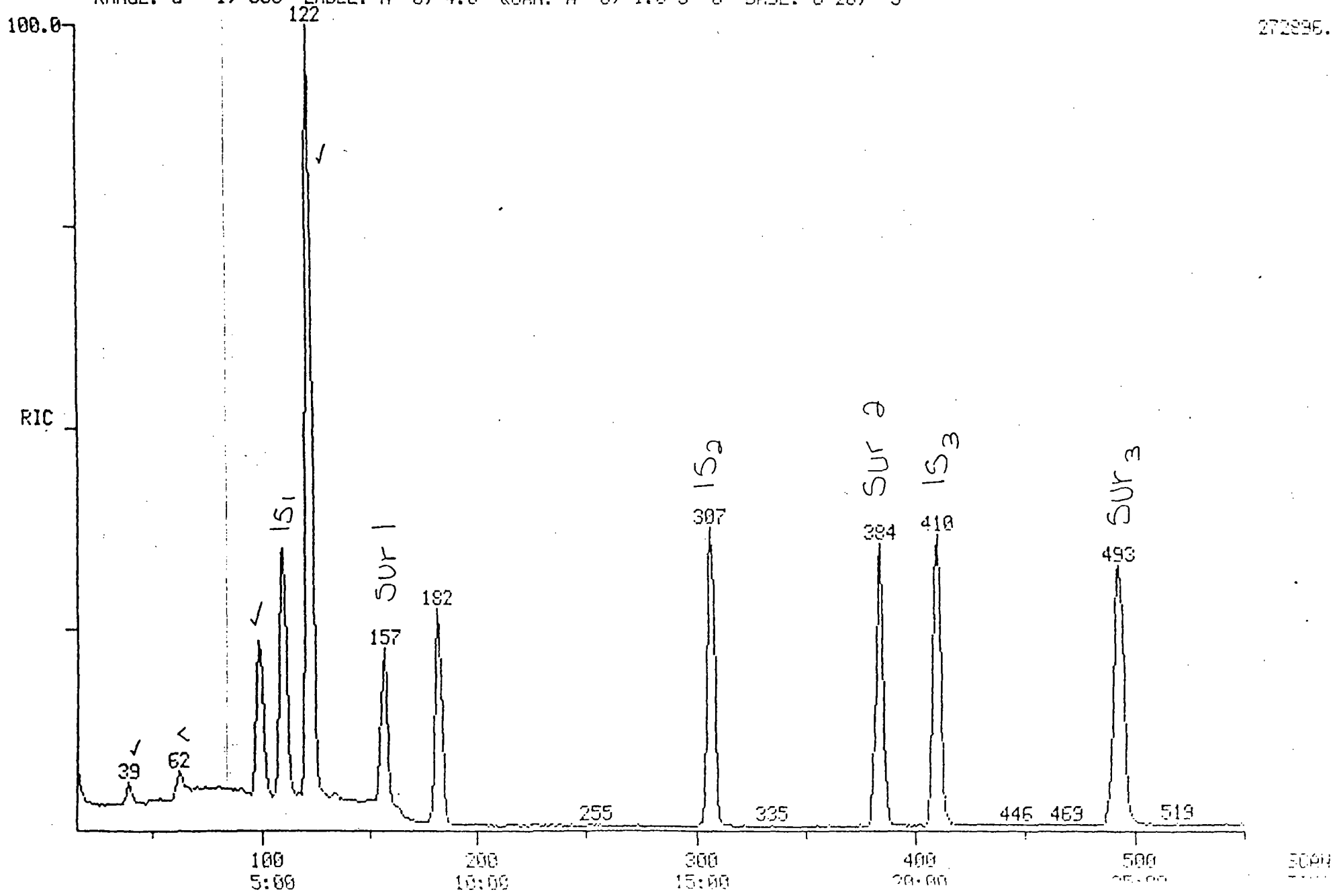
SCANS 15 TO 550



RIC
10/17/88 19:48:00
SAMPLE: V-4 DUP (5ML)
CONDS.: VOLATILE METHOD
RANGE: G 1, 550 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

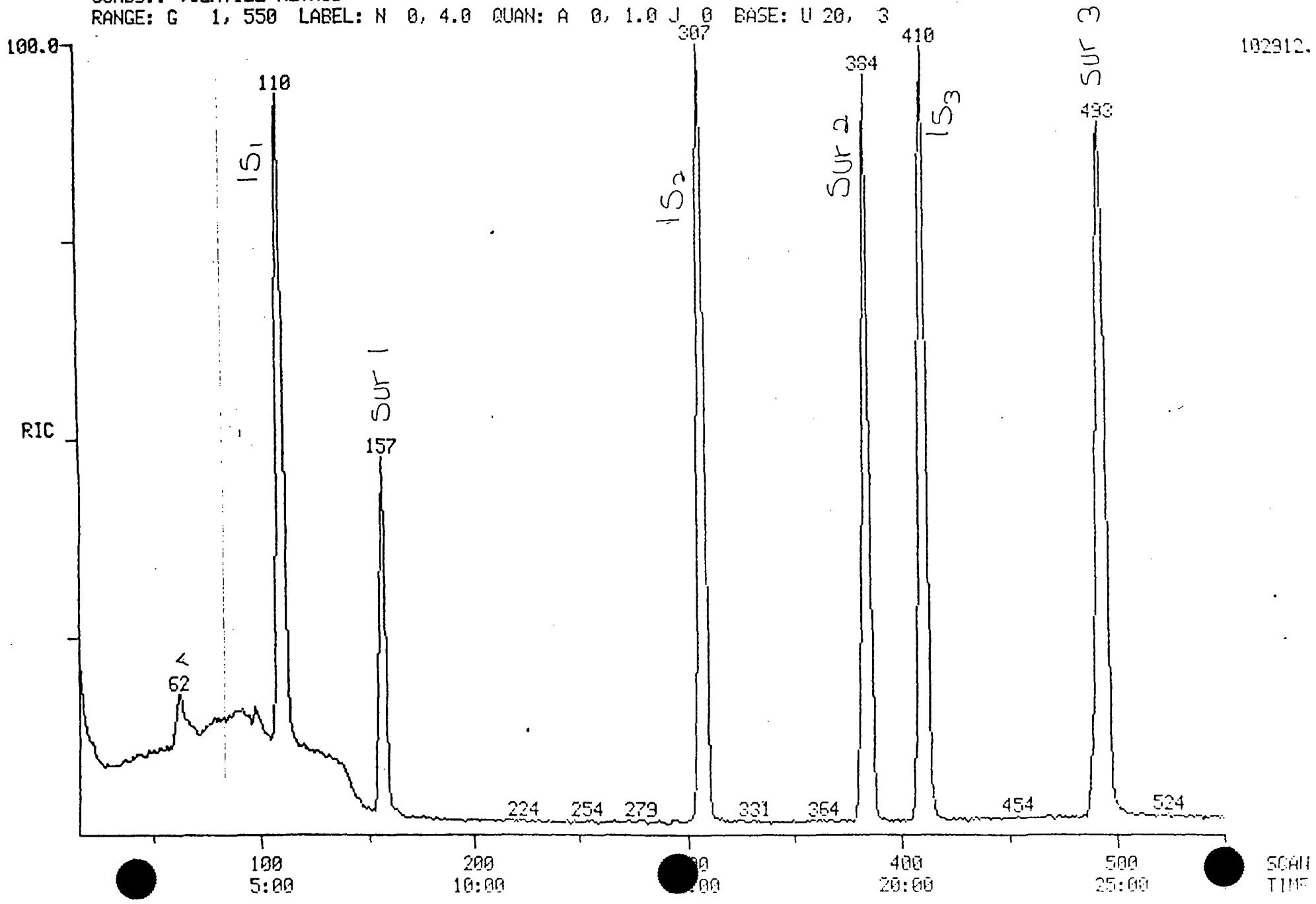
DATA: V8100243 #1
CALI: V8100243 #2

SCANS 15 TO 550



RIC
10/17/88 19:08:00
SAMPLE: V-5 (5ML)
CONDS.: VOLATILE METHOD
RANGE: G 1, 550 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

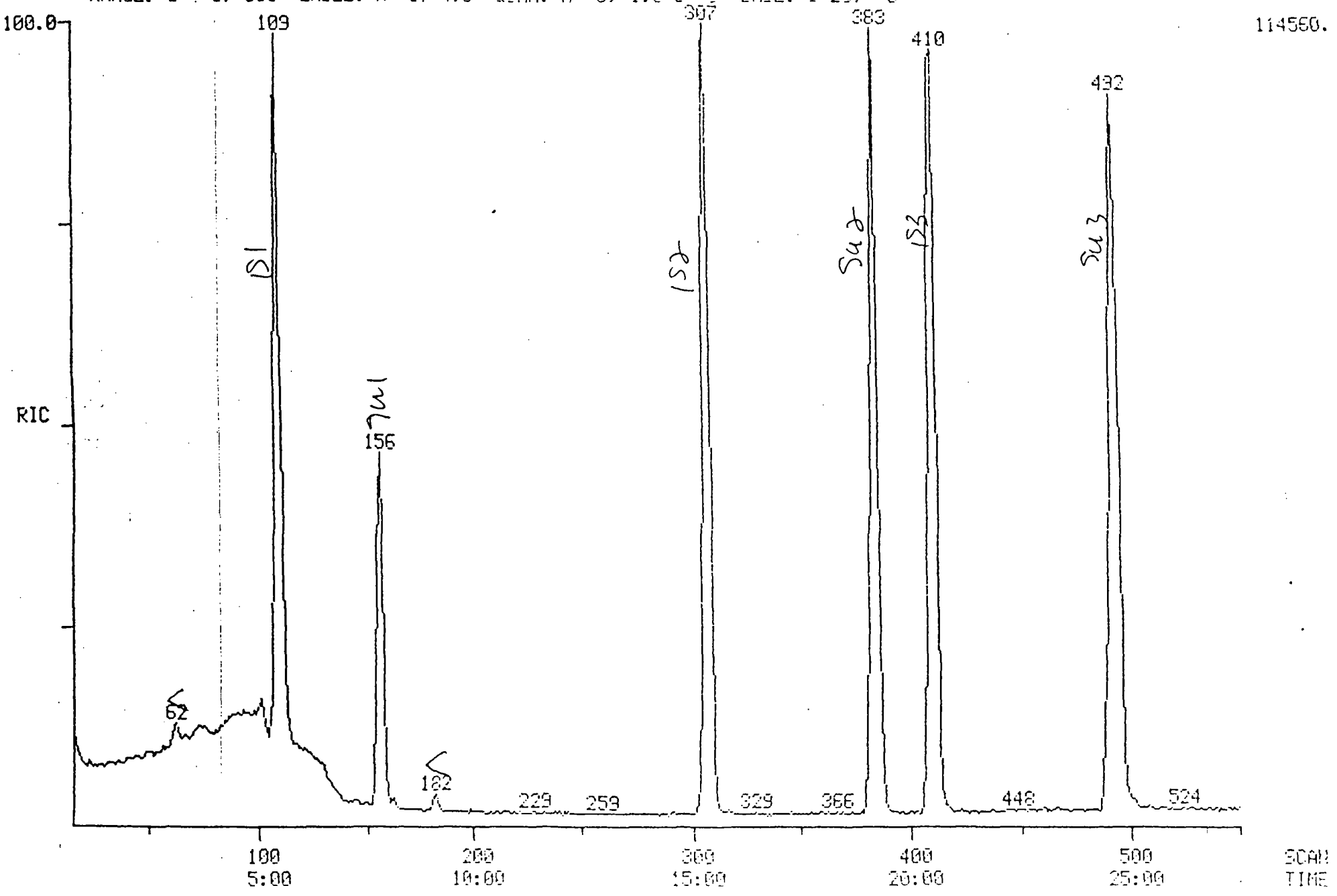
DATA: V8100244 #1 SCANS 15 TO 550
CALI: V8100244 #2



102912.

RIC
10/17/88 11:50:00
SAMPLE: V-6 (5ML)
CONDS.: VOLATILE METHOD
RANGE: G 1, 550 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

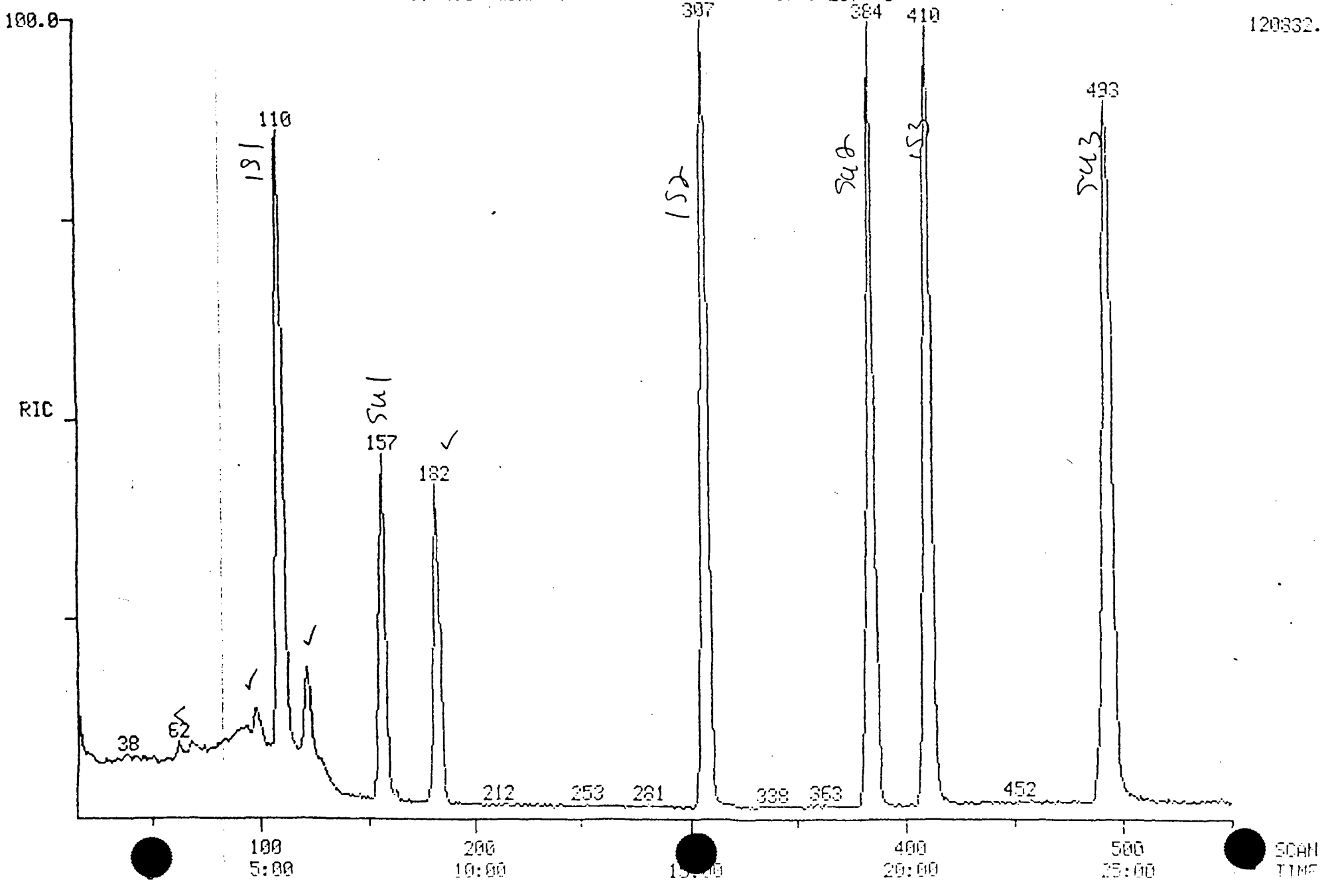
DATA: V8100245 #1 SCANS 15 TO 550
CALI: V8100245 #2



RIC
10/17/88 10:32:00
SAMPLE: V-7 (5ML)
CONDS.: VOLATILE METHOD
RANGE: G 1, 550 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: V8100246 #1
CALI: V8100246 #2

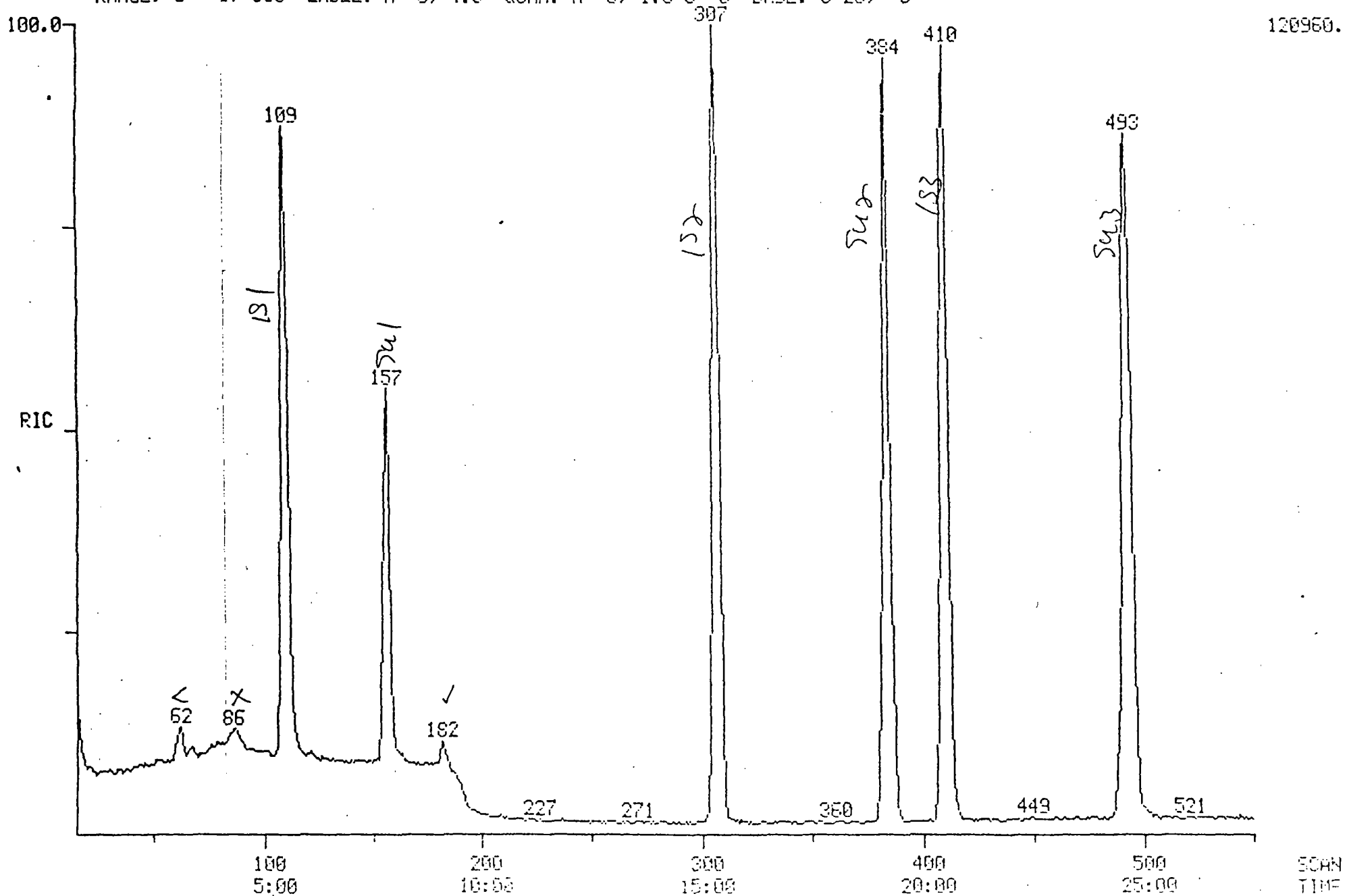
SCANS 15 TO 550



RIC
10/17/88 11:11:00
SAMPLE: V-8 (5ML)
CONDS.: VOLATILE METHOD
RANGE: G 1, 550 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

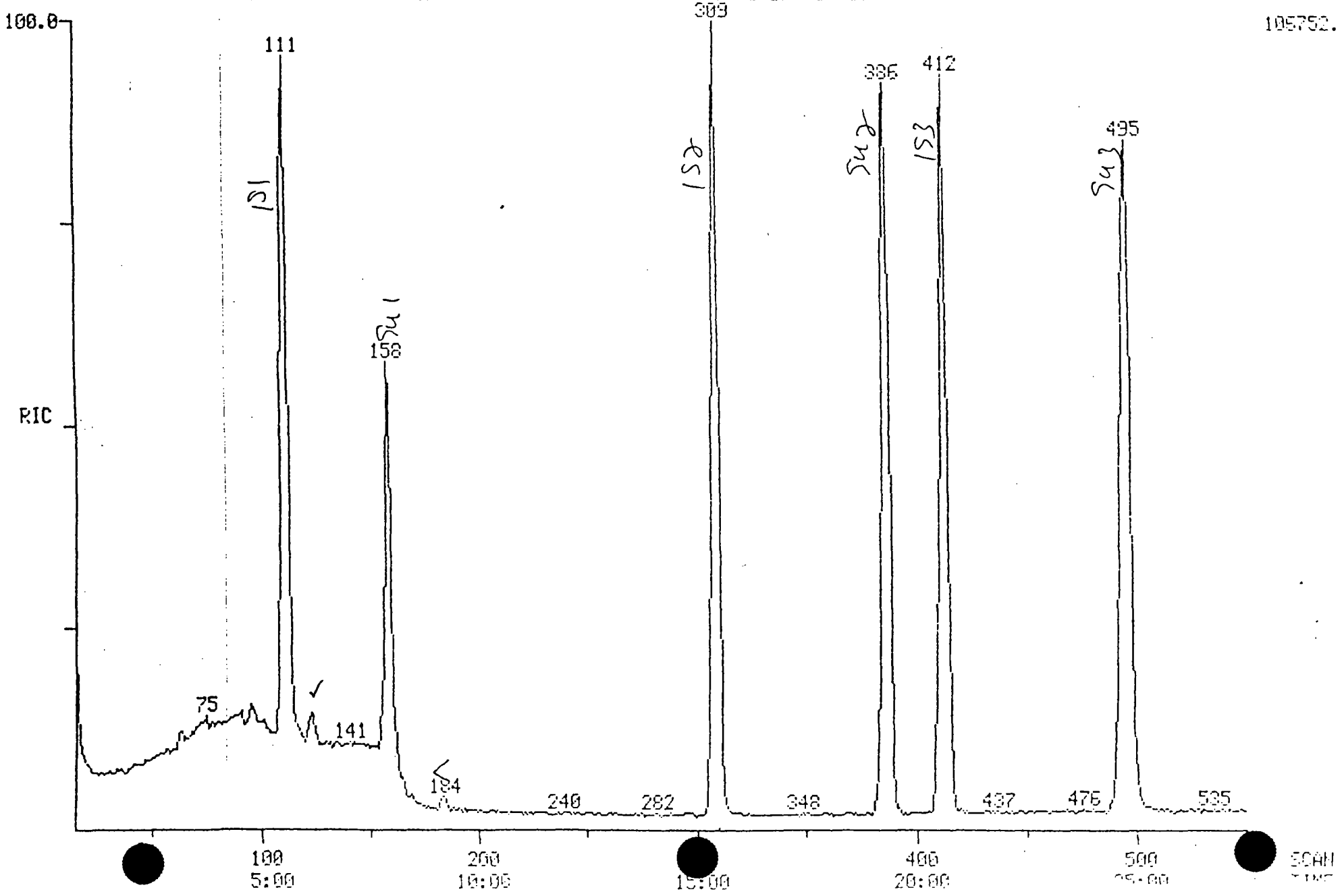
DATA: V8100247 #1
CALI: V8100247 #2

SCANS 15 TO 550



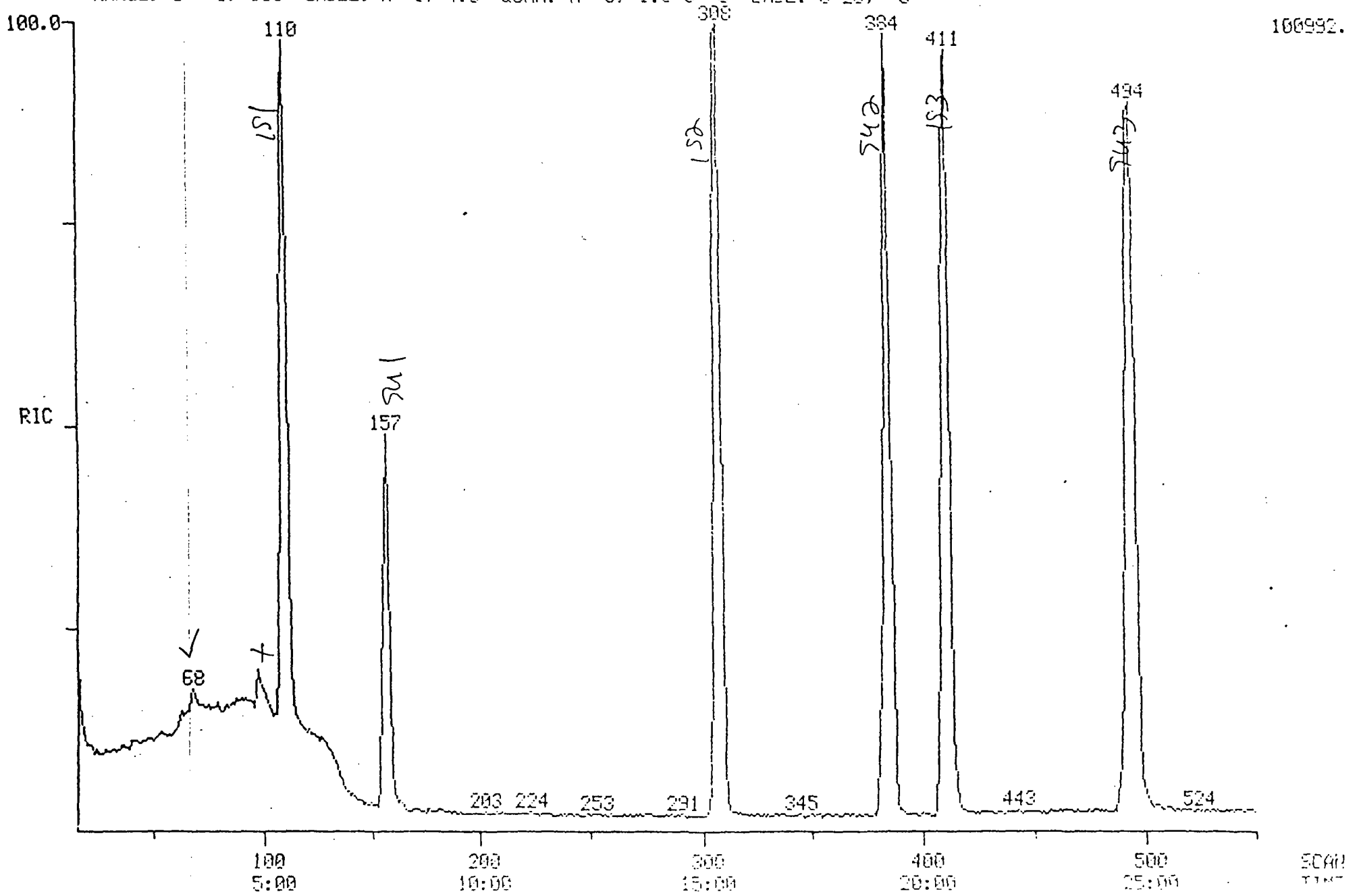
RIC
10/17/88 12:58:00
SAMPLE: V-9 (5ML)
CONDS.: VOLATILE METHOD
RANGE: G 1, 550 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: V8100248 #1 SCANS 15 TO 550
CALI: V8100248 #2



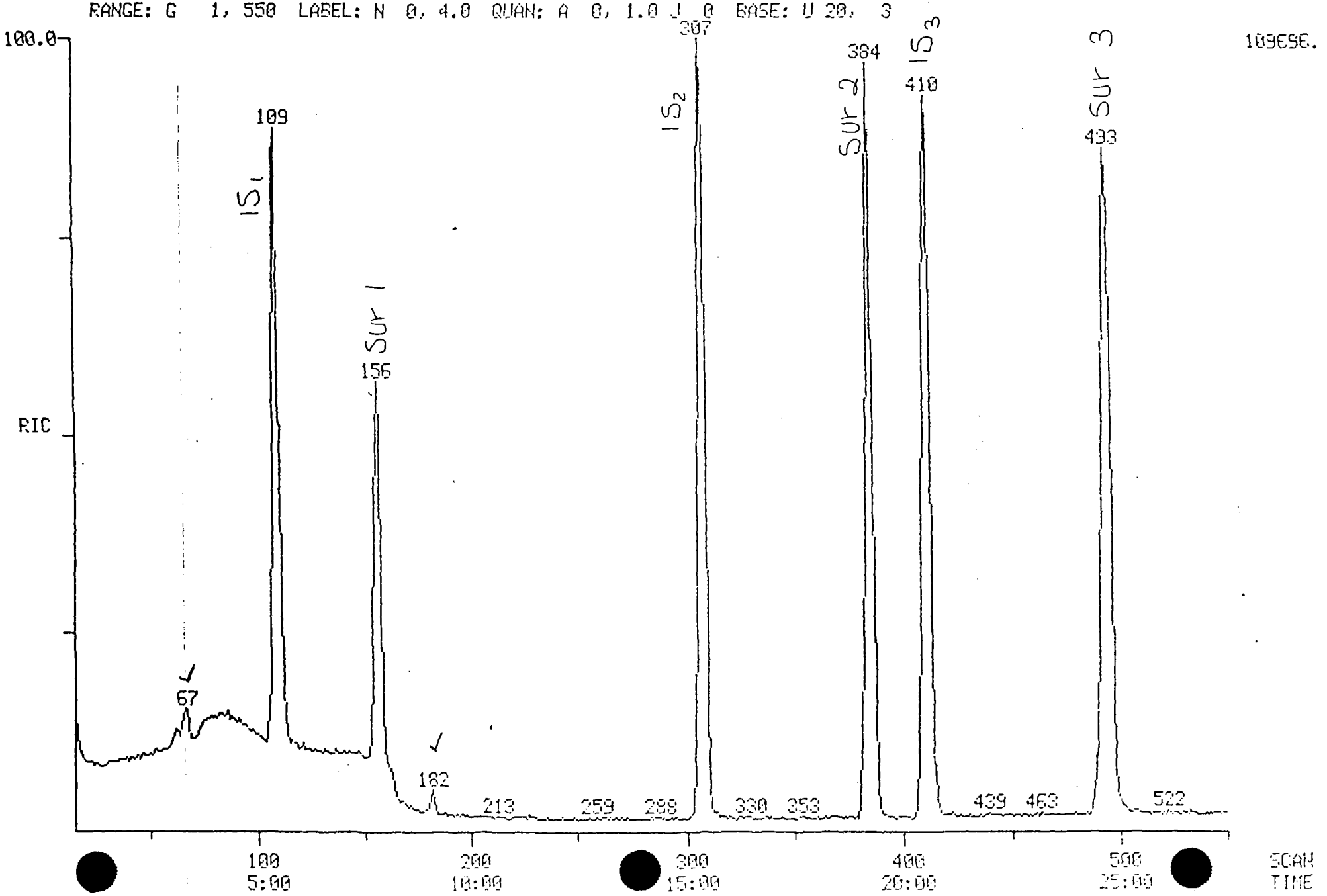
RIC
10/17/88 13:39:00
SAMPLE: V-10 (5ML)
CONDS.: VOLATILE METHOD
RANGE: G 1, 550 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: V8100249 #1 SCANS 15 TO 550
CALI: V8100249 #2



RIC
10/17/88 14:16:00
SAMPLE: I-1 (5ML)
CONDS.: VOLATILE METHOD
RANGE: G 1, 550 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

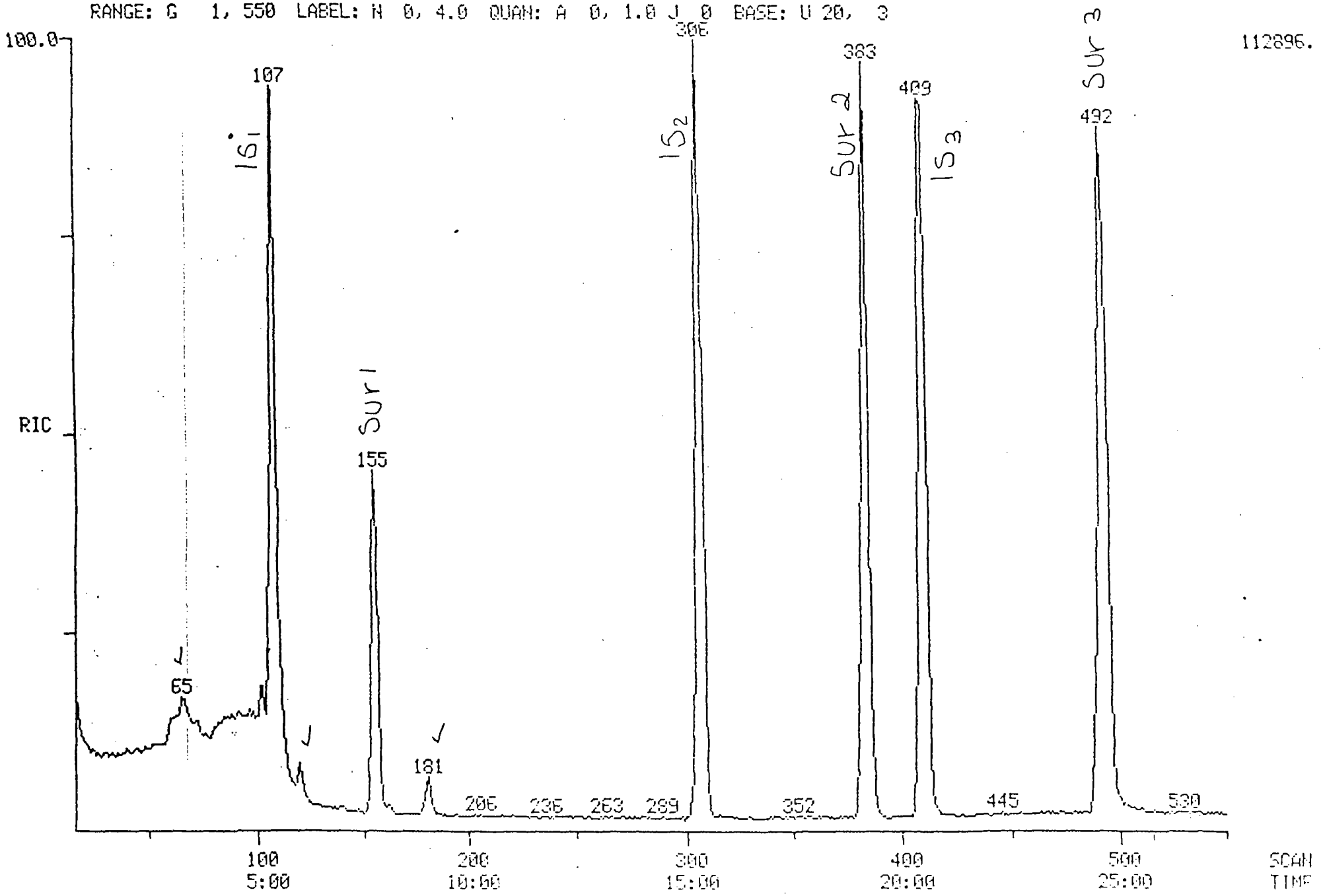
DATA: V8100250 #1 SCANS 15 TO 550
CALI: V8100250 #2



RIC
10/17/88 14:59:00
SAMPLE: I-2 (5ML)
CONDS.: VOLATILE METHOD
RANGE: G 1, 550 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: V8100251 #1
CALI: V8100251 #2

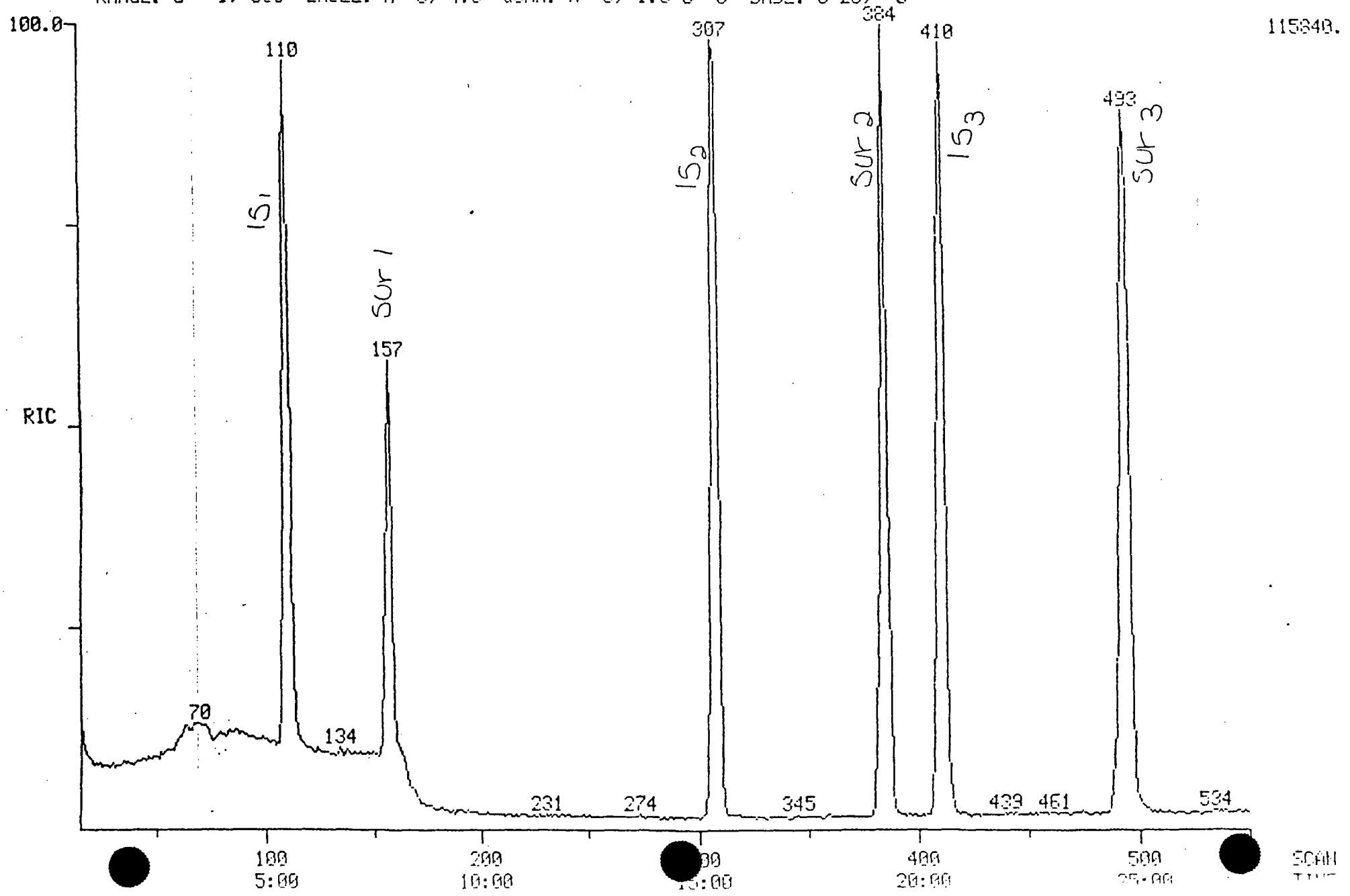
SCANS 15 TO 550



RIC
10/17/88 15:40:00
SAMPLE: I-3 (5ML)
CONDS.: VOLATILE METHOD
RANGE: G 1, 550 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: V8100252 #1
CALI: V8100252 #2

SCANS 15 TO 550



SEQUOIA ANALYTICAL
680 Chesapeake Drive · Redwood City, CA 94063
(415) 364-9222 · FAX (415) 364-9233

Q.C. Sample Dates
Date Extracted: 10/13/88
Date Analyzed: 10/17/88
Date Reported: 11/03/88

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Peter Lyon

Project: #JCO-111H

Quality Control Data Report

Method of Analysis: 8040
Reporting Units: µg/L
Analyst: B. Bjorkman

Sample No. Matrix Spikes
Project: #JCO-111H

ANALYTE	SPIKE CONC. ADDED	CONC. MATRIX SPIKE	% REC.	CONC. MATRIX SPIKE DUP.	% REC.	REL. % DEV.
2-Chloro Phenol	5	2.6	51	2.4	48	2.8
2,4-D, Methyl Phenol	5	2.0	41	2.0	42	1.0
2,4,6, Trichloro Phenol	5	8.1	54	7.0	46	7.7

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

SEQUOIA ANALYTICAL
680 Chesapeake Drive · Redwood City, CA 94063
(415) 364-9222 · FAX (415) 364-9233

Wahler Associates
1023 Corporation Way
Palo Alto, CA 94303
Attn: Peter Lyon

Q.C. Sample Dates
Date Extracted: 10/14/88
Date Analyzed: 10/18/88
Date Reported: 11/03/88

Quality Control Data Report

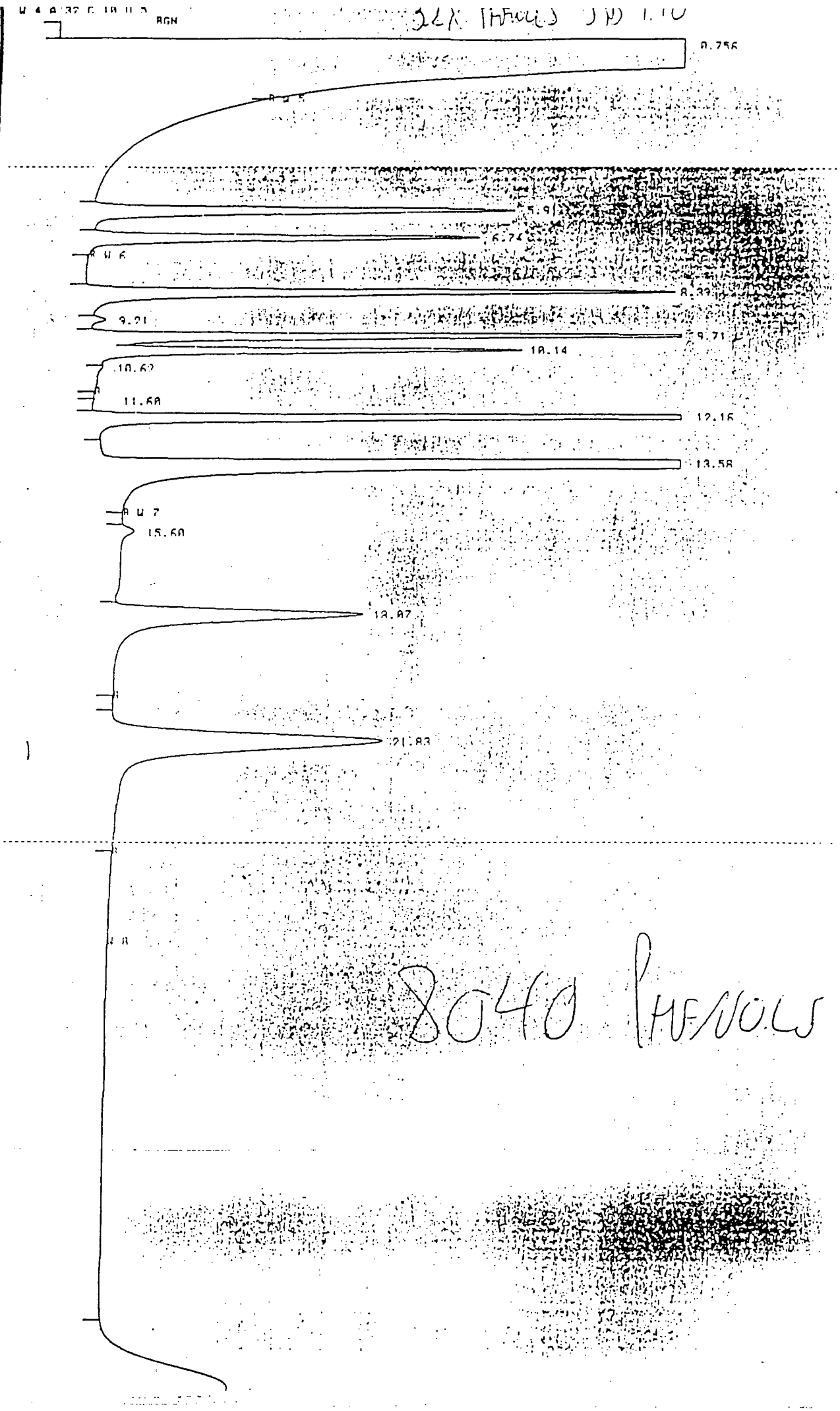
Method of Analysis: EPA 8270
Reporting Units: ug
Analyst: J. Schwarz

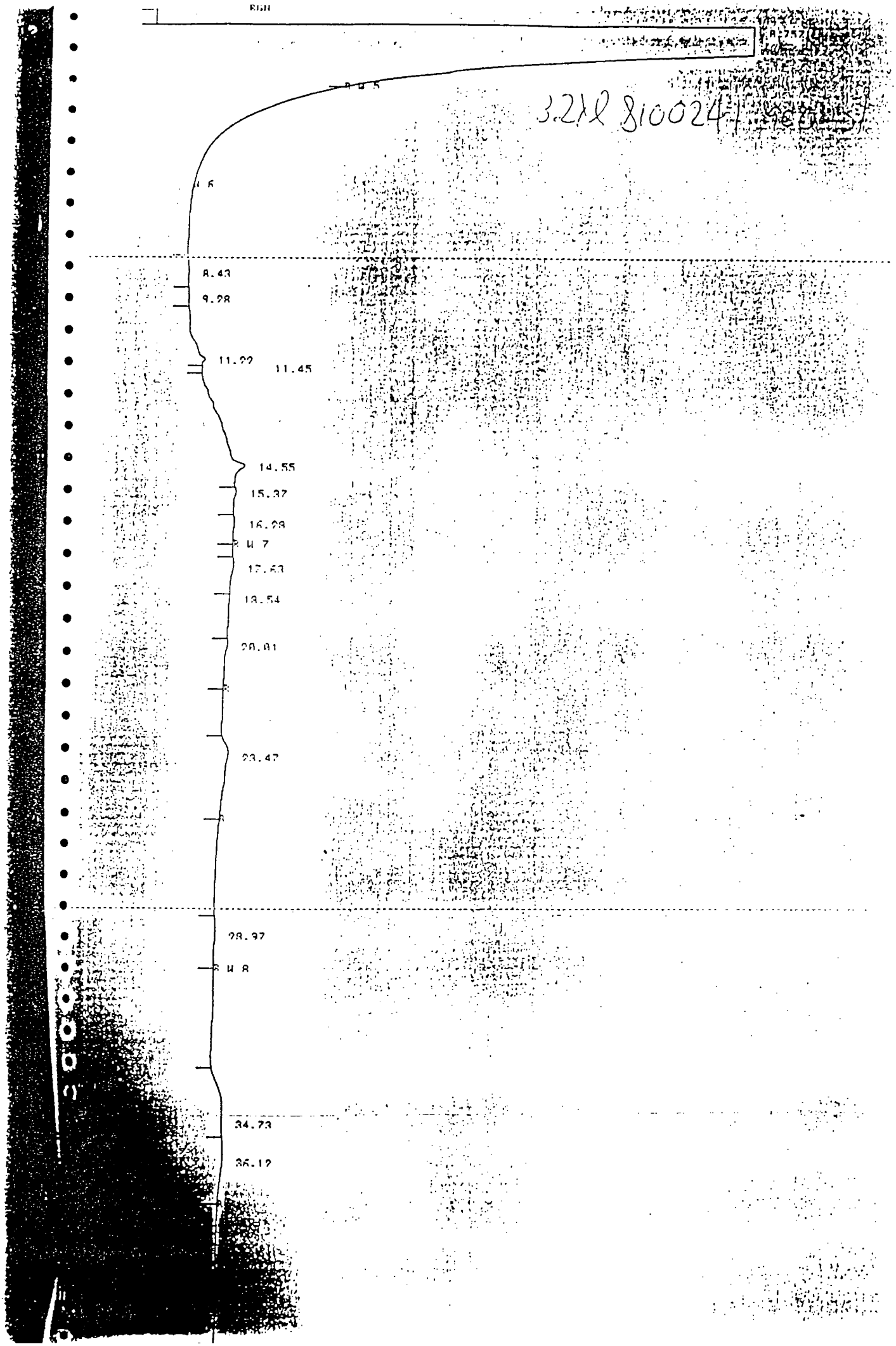
Sample No. 8100254
Project: #JCO-111H

ANALYTE	SPIKE CONC. ADDED	CONC. MATRIX SPIKE	% REC.	CONC. MATRIX SPIKE DUP.	% REC.	REL. % DEV.
1,2,4-Trichloro-benzene	50	43	86	36	72	7.5
Acenaphthene	50	43	86	42	84	1.2
2,4-Dinitro-toluene	50	31	62	36	72	7.5
Di-n-Butyl-phthalate	50	42	84	43	86	1.2
Pyrene	50	43	86	54	108	11
N-Nitroso-Di--propylamine	50	24	48	41	82	26
1,4-Dichloro-benzene	50	33	66	33	66	0
Pentachloro-phenol	100	102	102	91	91	5.7
Phenol	100	12	12	18	18	20
2-Chlorophenol	100	42	42	50	50	8.7
4-Chloro-3-Methylphenol	100	33	33	42	42	12
4-Nitrophenol	100	30	30	24	24	11

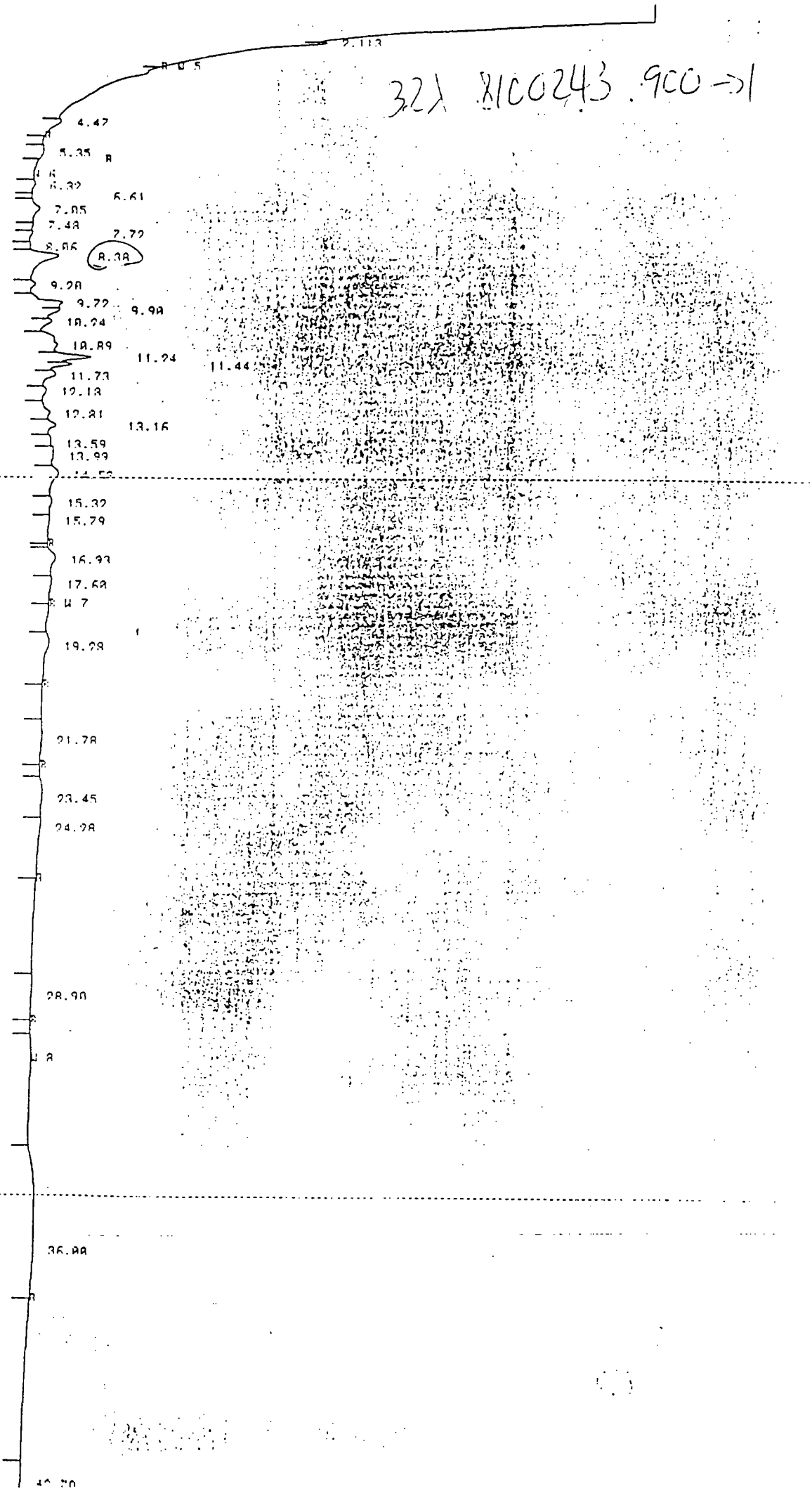
SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton
Laboratory Director

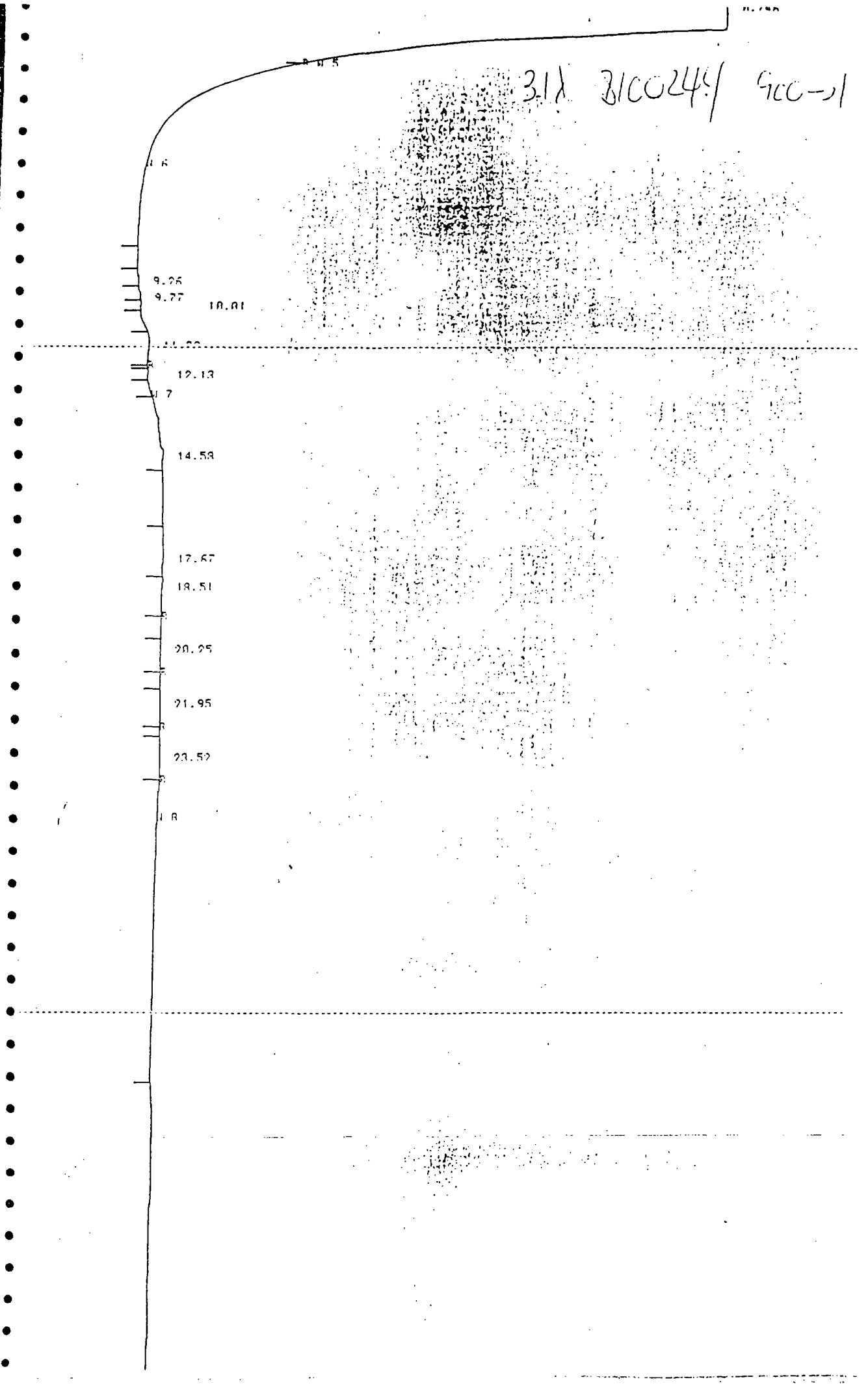

BGN
8.756
5.91
6.74
8.39
9.21
9.71
10.14
10.62
11.68
12.16
13.58
15.68
18.87
21.83
8040 PHENOLS



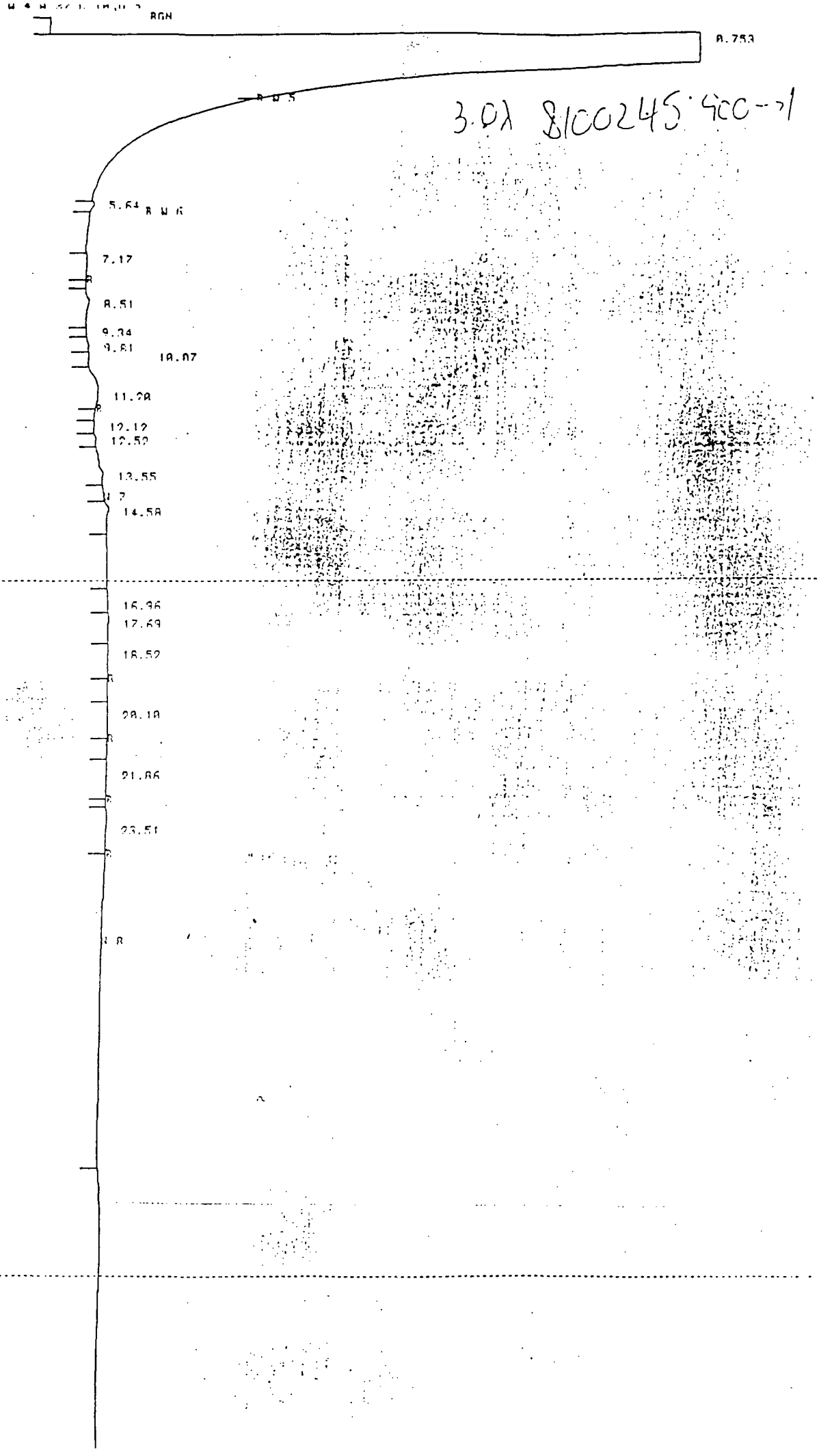
RGN
3.2 ll 810024
8.43
9.28
11.22
11.45
14.55
15.37
16.28
17.63
18.54
20.01
23.47
28.97
34.73
36.12



32λ 8100243.900->1

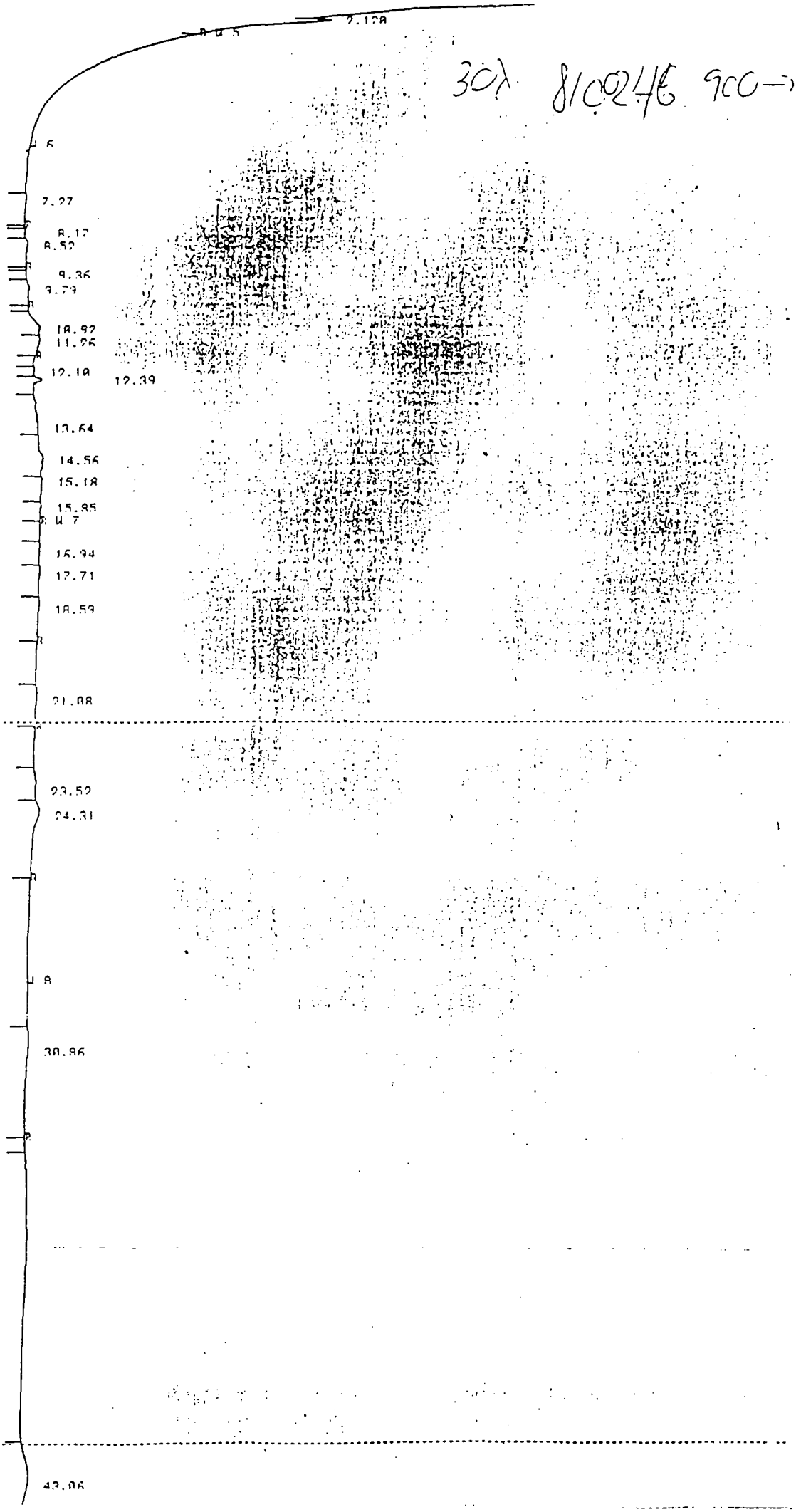


31λ 3100244 900-1
9.26
9.77
10.01
12.13
14.53
17.67
18.51
20.25
21.95
23.52

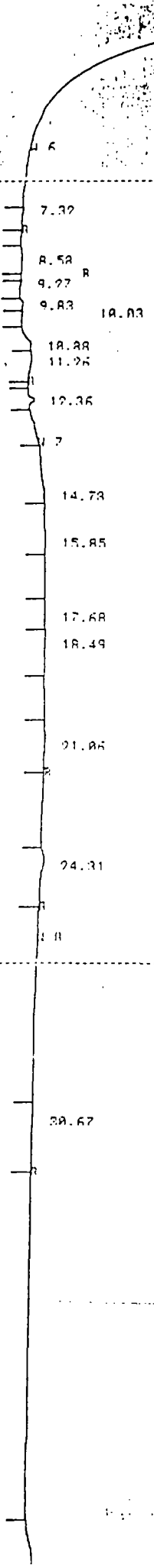


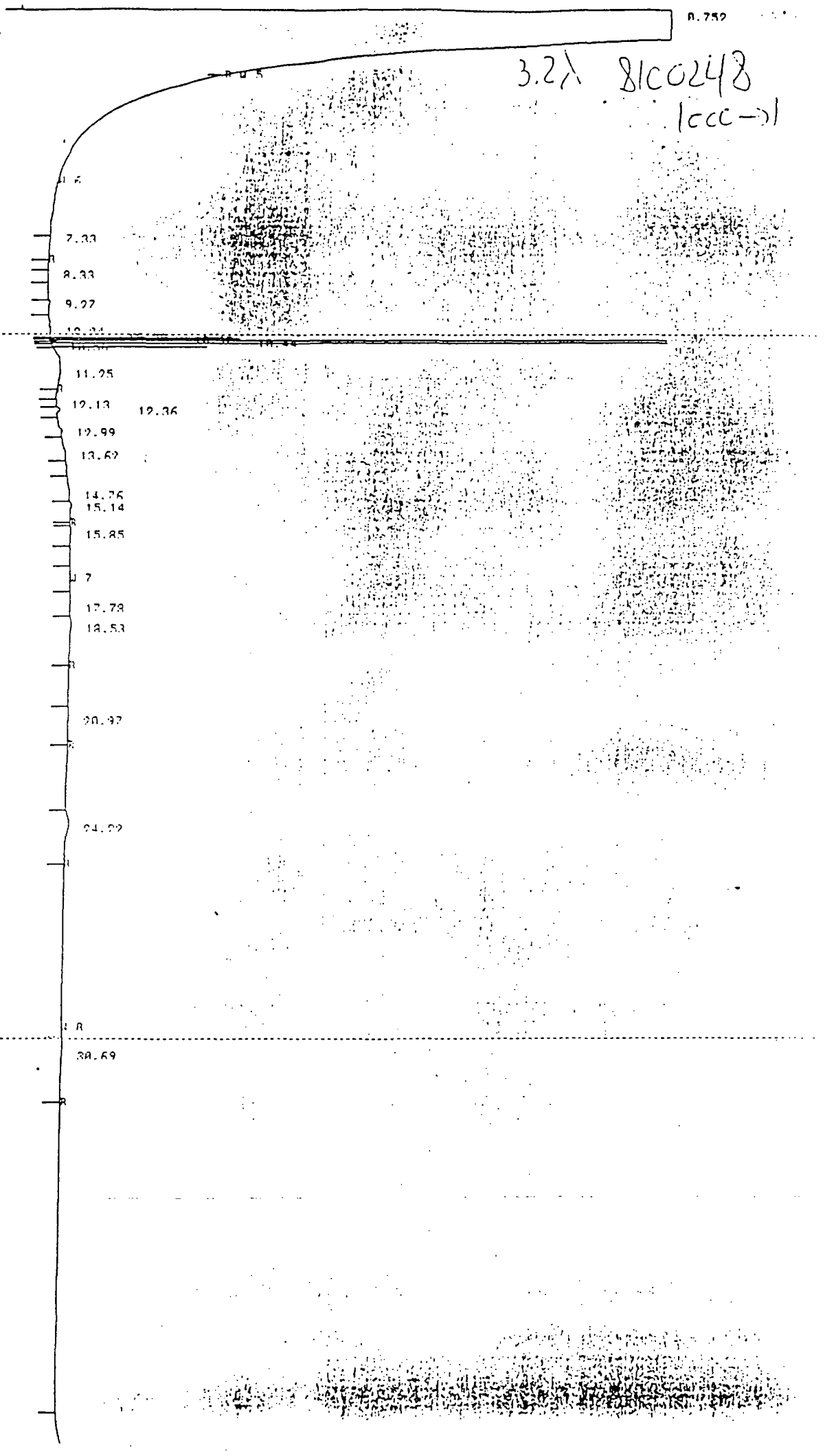
3.0λ 8100245 900-71

30λ 810246 900→1



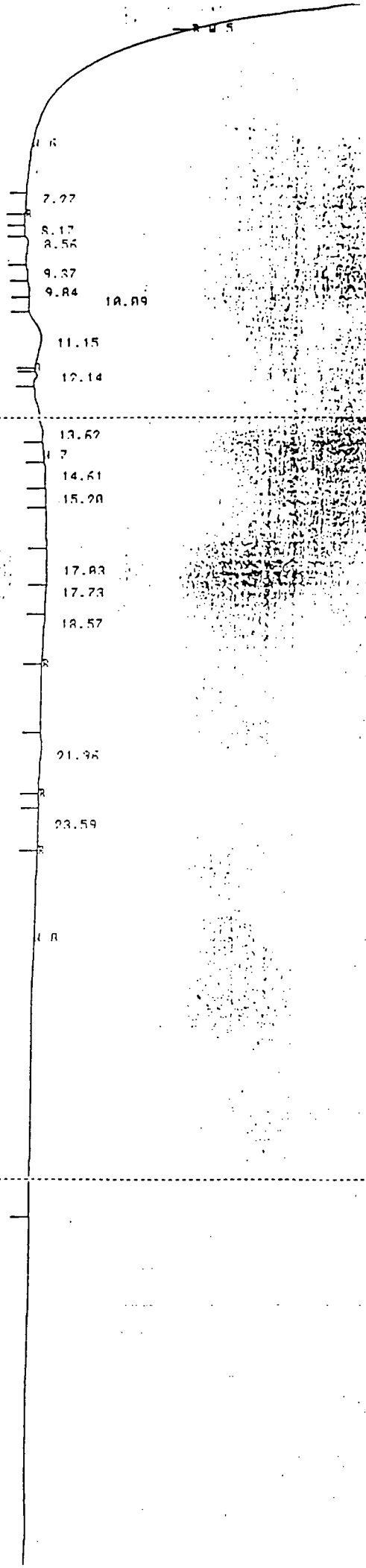
3.0λ 8100247 1000-51

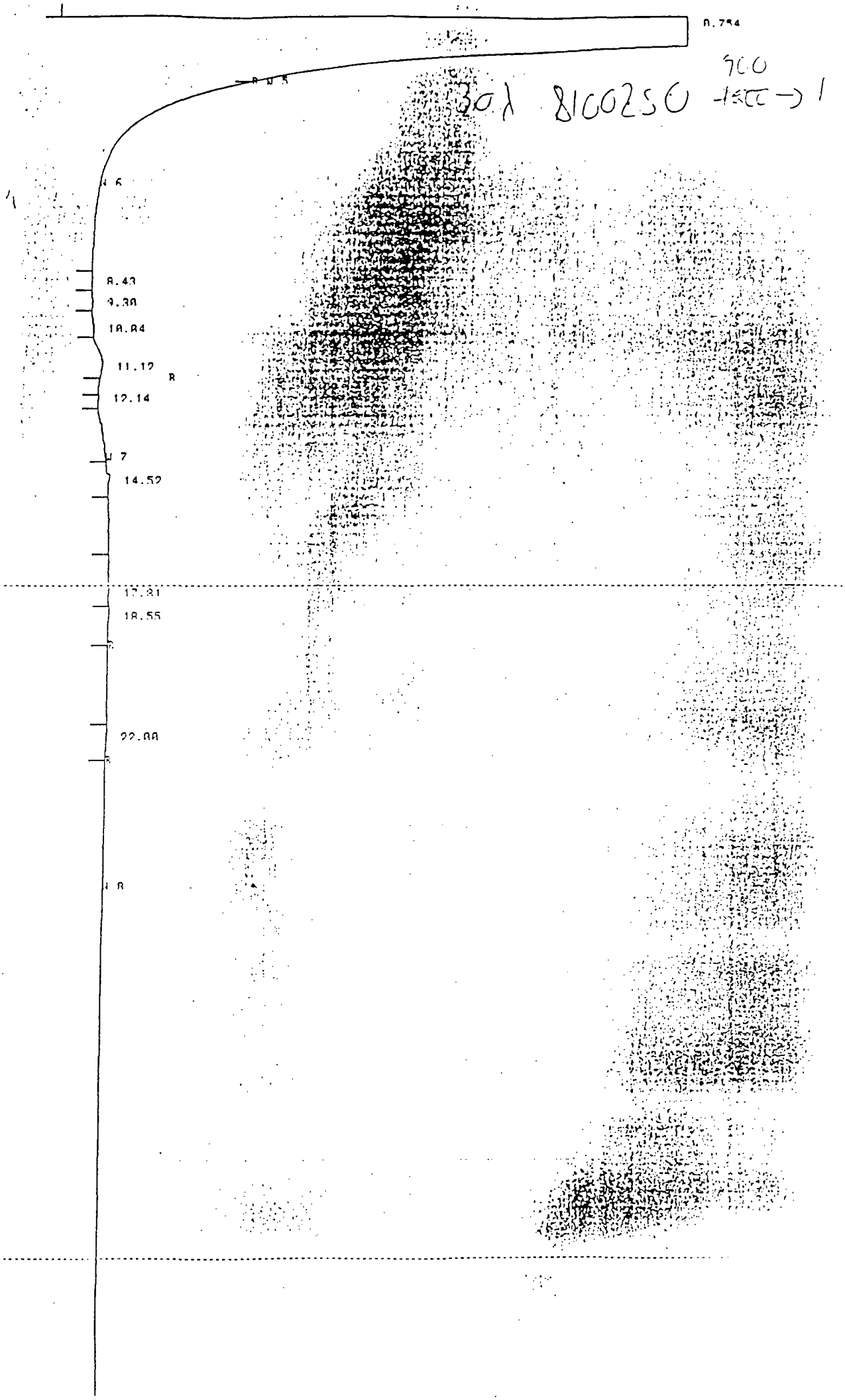


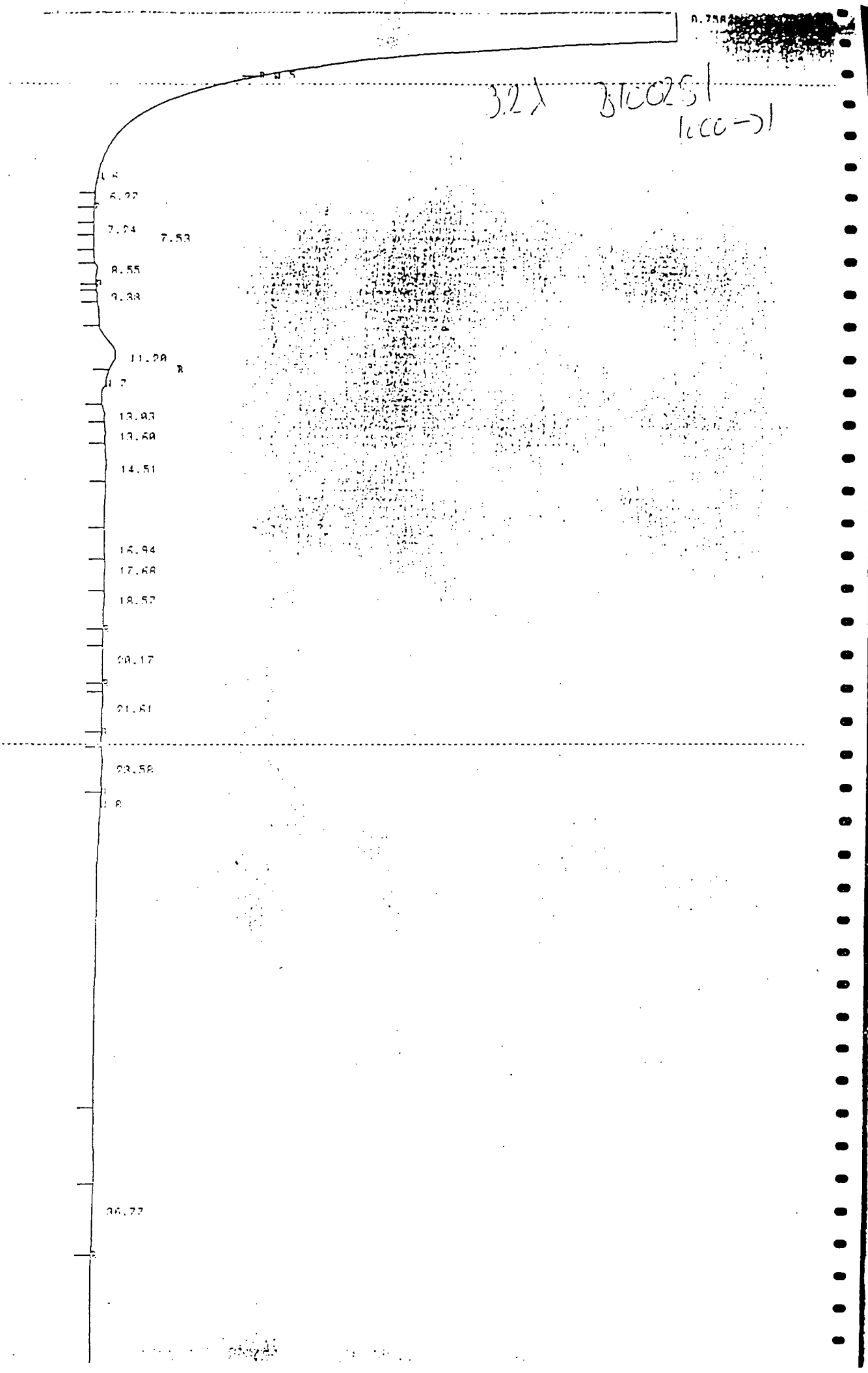

0.752
3.2λ 81C0248
1CCC→1
7.33
8.33
9.27
11.25
12.13
12.36
12.99
13.62
14.76
15.14
15.85
7
17.78
18.53
20.97
24.22
8
30.69

32) 8100249

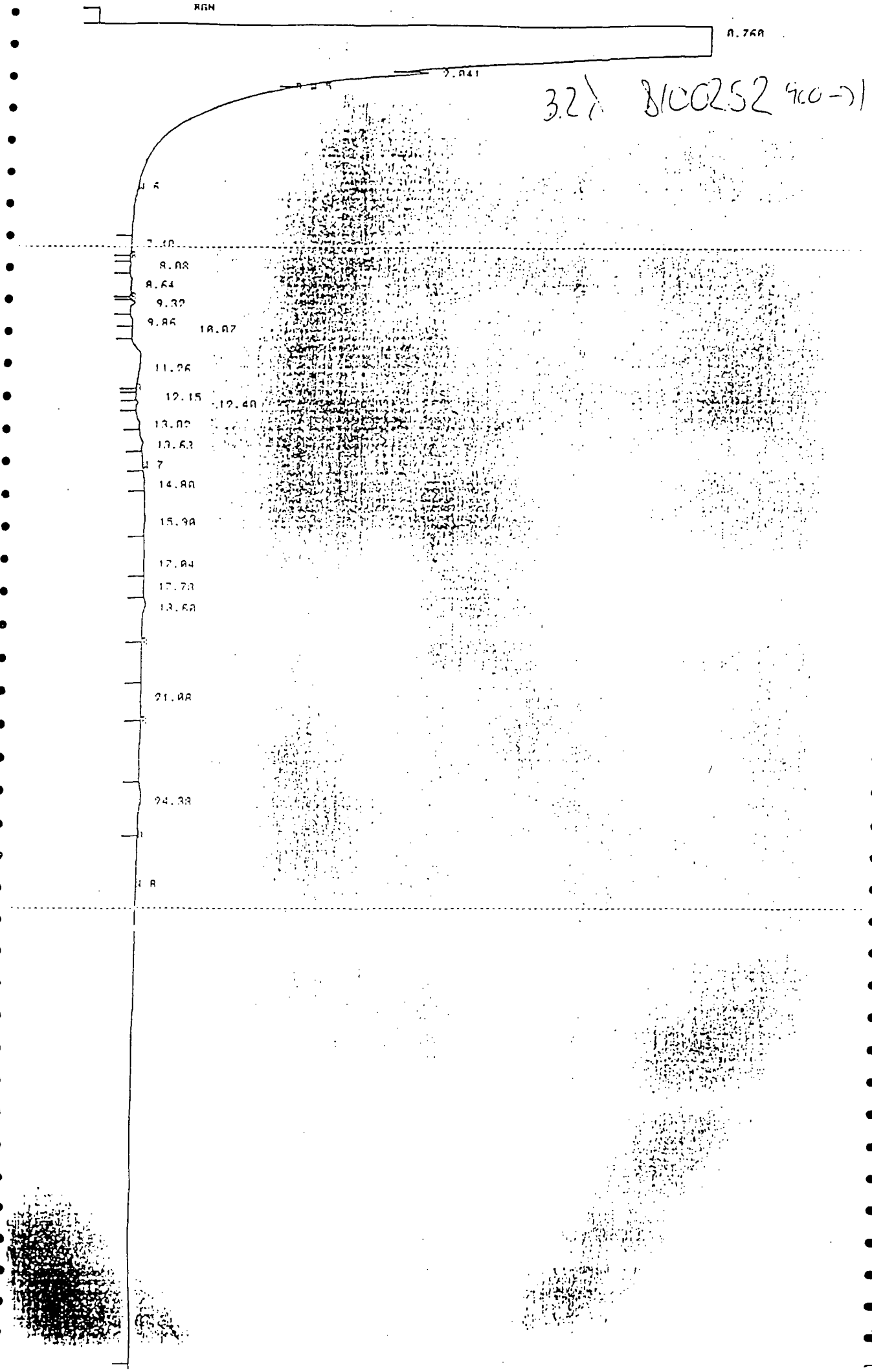
400-21




0.754
30λ 8100250
900
6
8.43
9.38
10.84
11.12
R
12.14
7
14.52
17.81
18.55
22.88
8



0.758
3.2λ
6.27
7.24
7.53
8.55
9.38
11.20
13.03
13.60
14.51
16.94
17.68
18.57
20.17
21.61
23.58
36.77


RGN
0.760
2.041
3.2) B100252 900-71
7.40
8.08
8.64
9.32
9.86
10.07
11.26
12.15
12.40
13.02
13.63
14.80
15.90
17.04
17.73
18.60
21.08
24.38

CLP VOLATILE MATRIX SPIKE REPORT -- EPA METHOD 624
ANAMETRIX, INC. (406) 432-8192

Sample I.D. : JCO-111H V-7
Matrix : WATER
Date sampled : 10-03-88
Date analyzed : 10-13-88

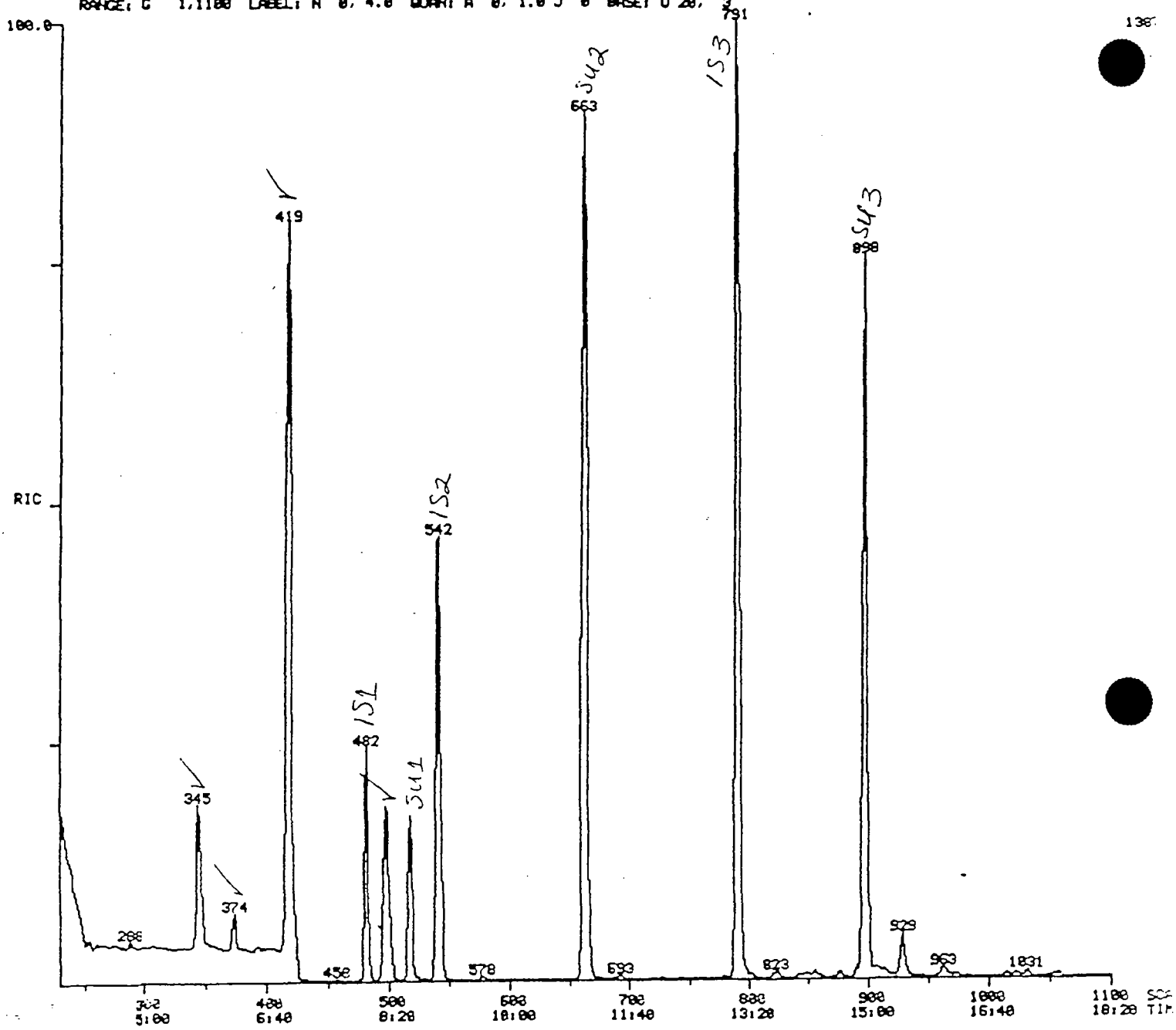
Anametrix I.D. : 8810026-02
Analyst : PG
Supervisor : BCS
Date released : 10-19-88
Instrument I.D.: F5

COMPOUND	SPIKE AMT. (UG/L)	8810026 MS (UG/L)	%REC MS	8810026 MSD (UG/L)	%REC MSD	RPD	%REC LIMITS*
1,1-DICHLOROETHENE	50	52	104%	55	110%	-6%	61-157%
FREON 113	50	56	112%	56	116%	-4%	91-158%
METHYLENE CHLORIDE	50	48	96%	51	102%	-6%	81-141%
CHLOROFORM	50	47	94%	49	98%	-4%	76-127%
1,1,1-TRICHLOROETHANE	50	48	96%	50	100%	-4%	89-147%
BENZENE	50	50	100%	51	102%	-2%	88-137%
1,2-DICHLOROETHANE	50	48	96%	49	98%	-2%	82-121%
TRICHLOROETHENE	50	42	84%	43	86%	-2%	64-131%
4-METHYL-2-PENTANONE	50	39	78%	48	96%	-21%	58-132%
TOLUENE	50	52	104%	53	106%	-2%	89-125%
TETRACHLOROETHENE	50	50	100%	52	104%	-4%	85-125%
CHLOROBENZENE	50	51	102%	52	104%	-2%	87-124%
1,2-DICHLOROBENZENE	50	54	108%	55	110%	-2%	93-132%

* Limits established by Anametrix, Inc.

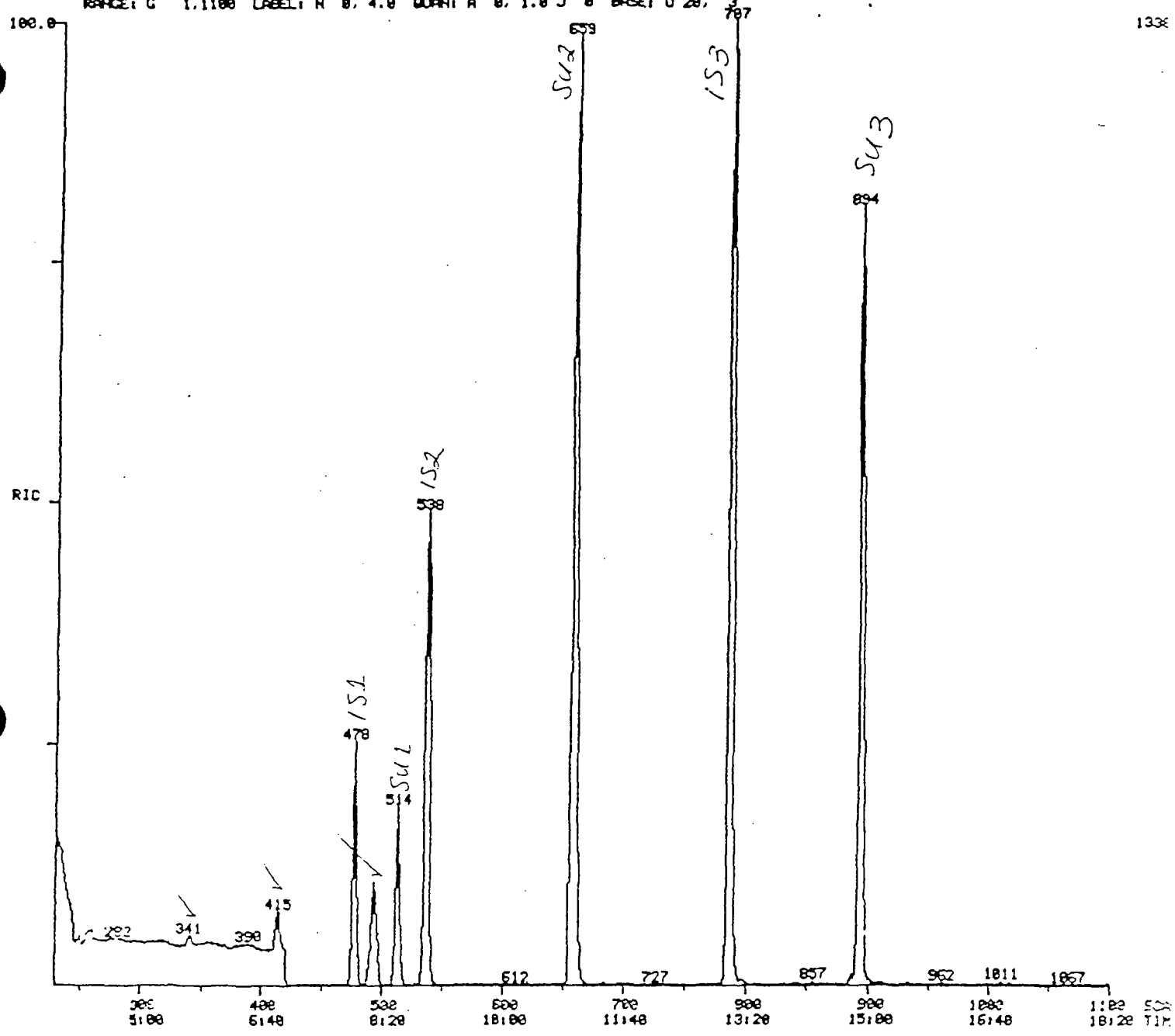
RIC
10/13/88 12:39:00
SAMPLE: JCO-111H V-4
CONDS.: M624/8240,QUADREX,INSTRUMENT=F3
RANGE: C 1,1100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 3CU10026V01 01 SCANS 230 TO 1100
CALI: CALTAB #3



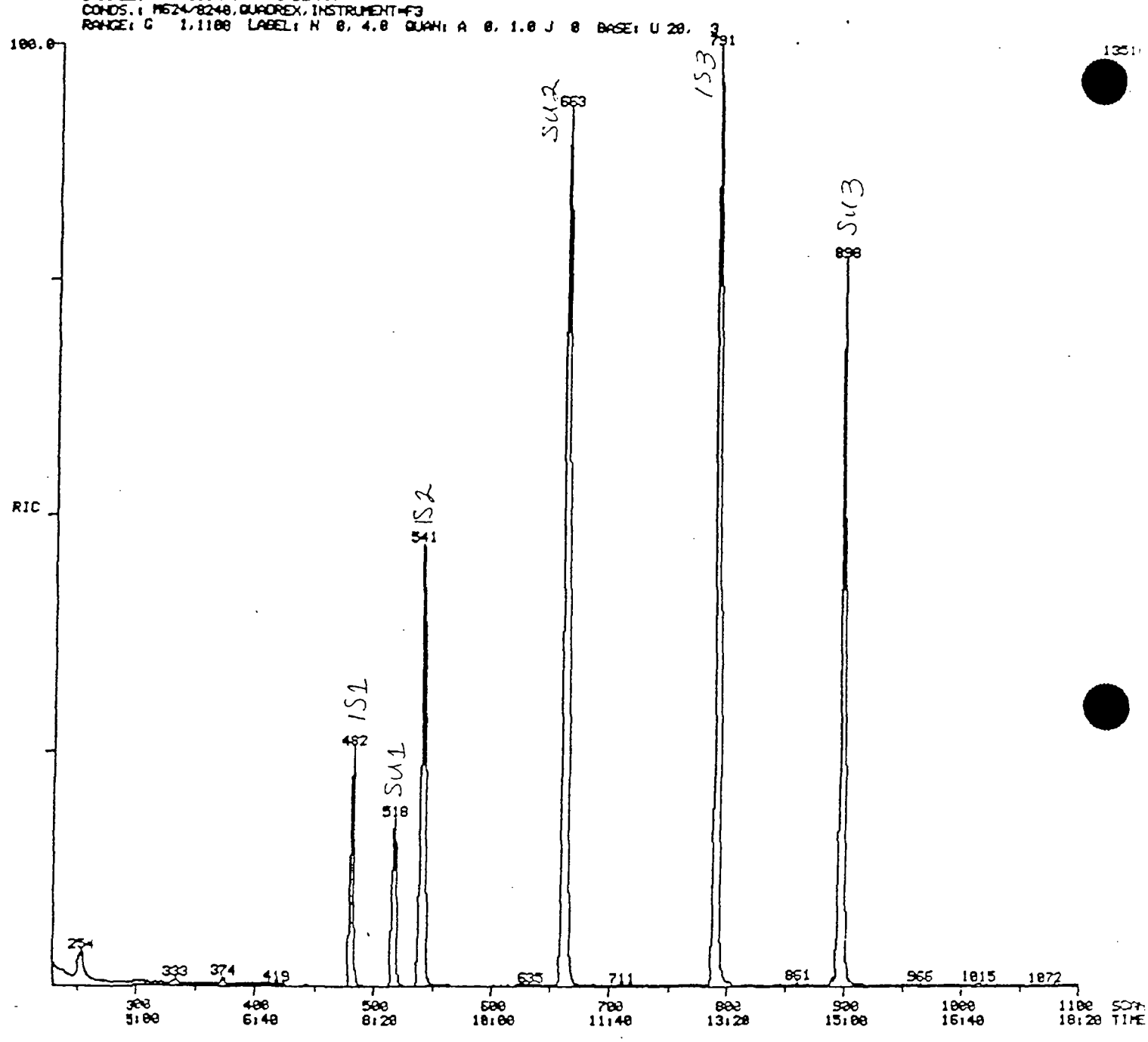
RIC
10/13/88 12:10:00
SAMPLE: JCO-111H V-7
CONDS.: M624/8240,QUADREX,INSTRUMENT=F3
RANGE: G 1.1100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 3CU10026U02 #1 SCANS 230 TO 1100
CALI: CALTAB #3



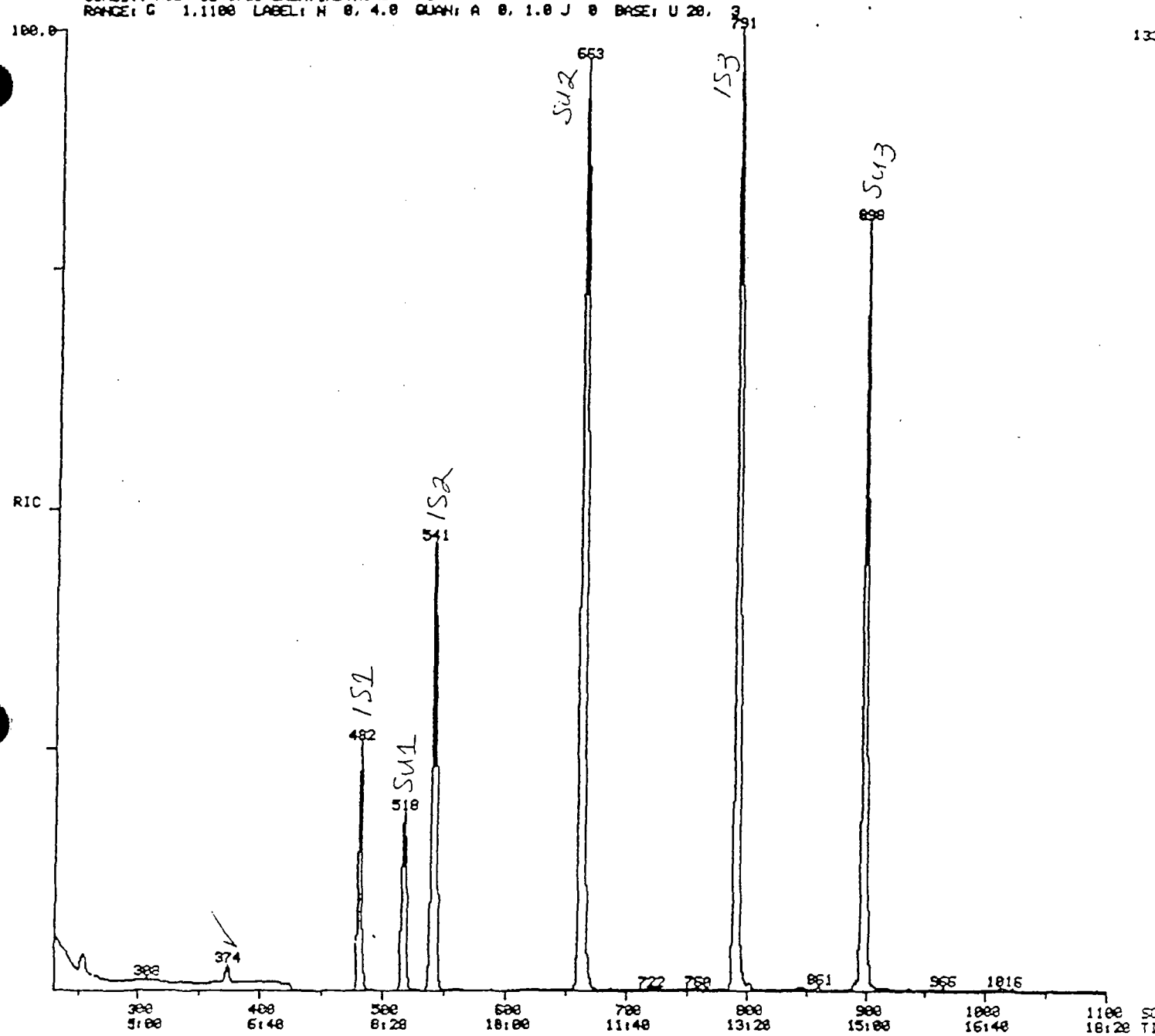
RIC
10/13/88 11:40:00
SAMPLE: JCO-111H TRAVEL BLANK
CONDS.: M624/8240,QUADREX,INSTRUMENT=F3
RANGE: G 1,1100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 3CU10026U03 #1 SCANS 230 TO 1100
CALI: CALTAB #3



RIC
10/13/88 11:11:00
SAMPLE: JCO-111H METHOD BLANK
COMOS.: M524/8240,QUADREX,INSTRUMENT=F3
RANGE: G 1.1100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

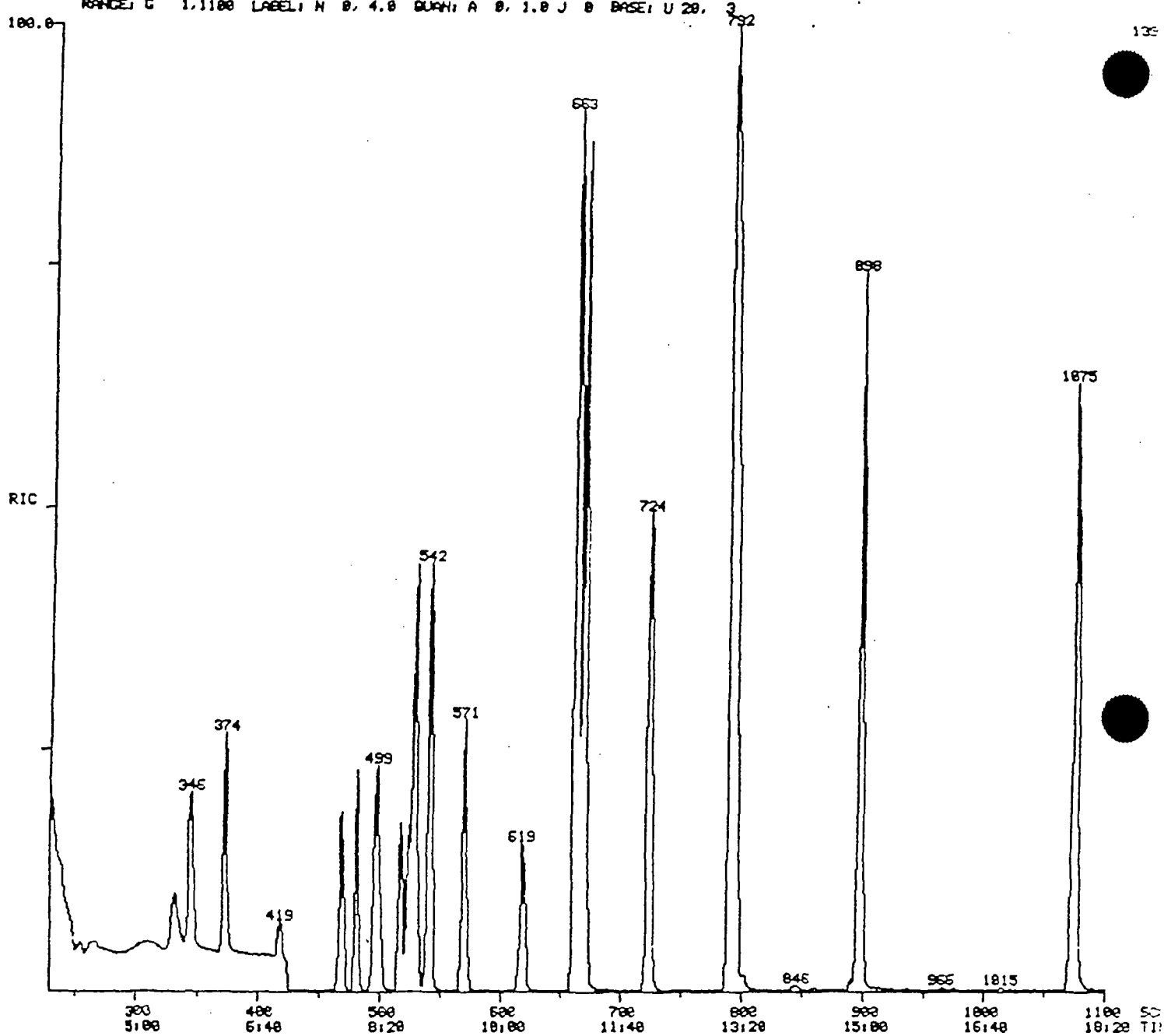
DATA: 3CU10026U04 #1 SCANS 230 TO 1100
CALI: CALTAB #3



133:

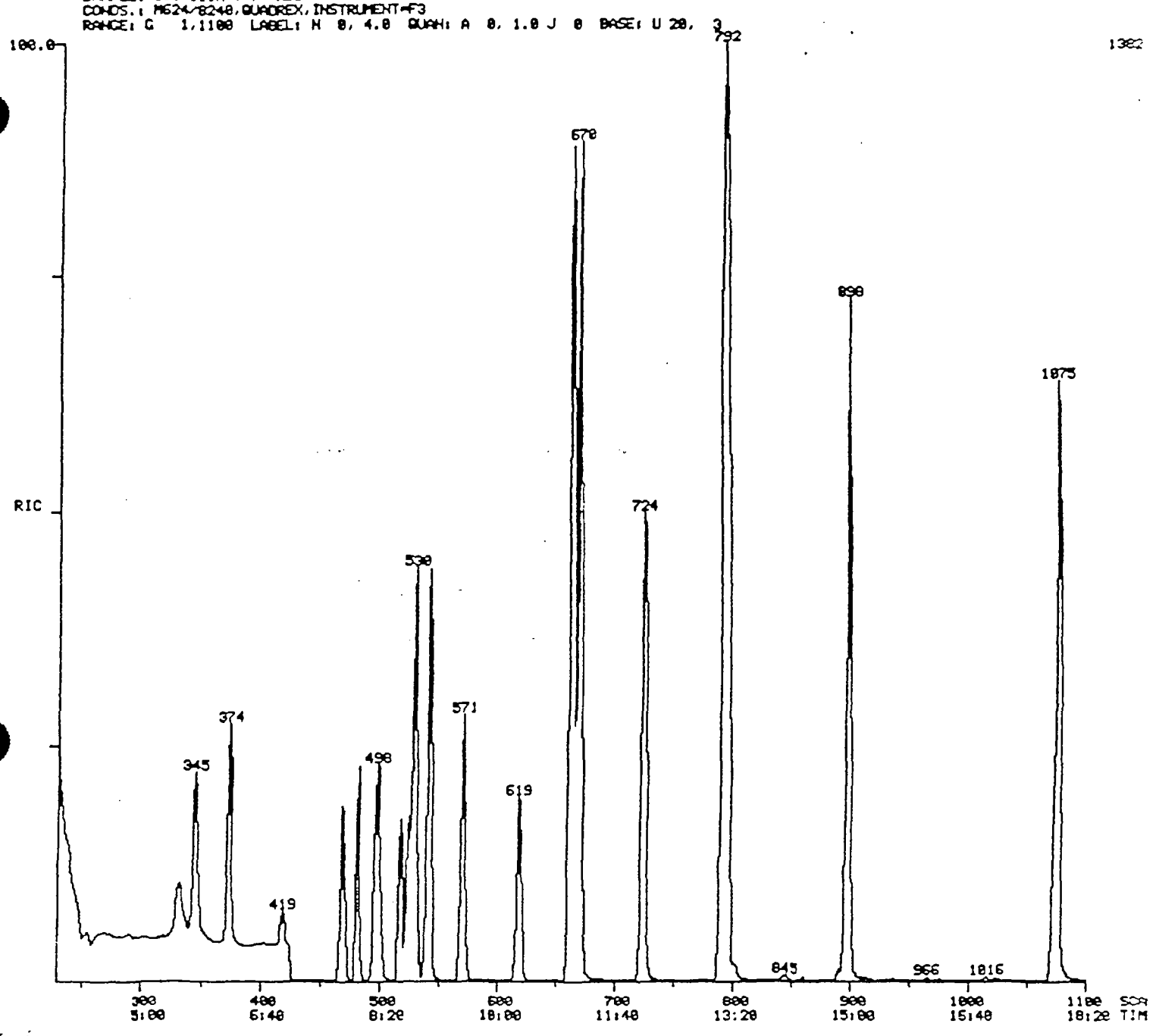
RIC
10/13/80 13:00:00
SAMPLE: JCO-111H V-7 MS
CONDS.: MS24/8248,QUADREX,INSTRUMENT=F3
RANGE: G 1,1100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 3CM10026V02 #1 SCANS 230 TO 1100
CALI: CALTAB #3



RIC
10/13/88 13:38:00
SAMPLE: JCO-111K V-7 MSD
CONDS.: M624/8240,QUADREX,INSTRUMENT=F3
RANGE: G 1,1100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 3CD10026U02 01 SCANS 230 TO 1100
CALI: CALTAB 03



Appendix C

Serial Number 206
WA Project Number JCO-11.H
Page 1 of 2

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Date Sample Shipped 10/5/88
Name of Laboratory SEQUOIA
Lab Project Manager Scott Cocanour
Turnaround Time 15 days
Report to Peter Lyon
Checked by Amy Chau

Collector Mike Chen
Affiliation WAHLER ASSOCIATES
Address 1023 Corporation way PA 94303
Phone (415) 968-6250

Sample Information

Your Sample I.D.	Date Collected	Matrix	Container	Analysis Requested
V-4	10/4/88	H_2O	(2) VOA	8240 (duplicate)
V-3	10/5/88	H_2O	(2) Amber	8270 w open scan

Comments Please include sample and QC chromatograms including QC data report showing duplicate % deviation and spike % recovery data. Please report any non-priority compounds. Std. Jasco QC data package. Call if any questions.

Wahler Contact Person Peter Lyon Phone (415) 968-6250

Chain of Possession

	Relinquished by (Sign. & affiliation)	Date	Time	Received by (Sign. & affiliation)	Date	Time
1.	Peter Lyon WAHLER	10/5/88	5:05 pm	[illegible]	10/5/88	5:05
		/ /			/ /	
2.		/ /			/ /	
		/ /			/ /	
3.		/ /			/ /	
		/ /			/ /	

Wahler Associates

Serial Number 206
WA Project Number JCO-11[redacted]
Page 2 of 2

CHAIN-OF CUSTODY RECORD AND ANALYSIS REQUEST FORM (Cont'd)

Sample Information

Your Sample I.D.	Date Collected	Matrix	Container	Analysis Requested
				* ①→⑤ for each wi
V-1	10/4/88	H_2O	(1) Plastic (6) VOAs & (2) Ambers from each well	① 8240
V-3	10/4/88			② 8040 Phenols ↳ (except V-3) *
V-4	10/4/88			③ High Boiling Point HCs as Lacquer Thinner, Paint Thinner, Kerosene, Diesel
V-5	10/4/88			④ Acetone/Alcohols b[redacted] (Acetone, Methanol, Ethanol Is
V-6	10/4/88			⑤ Turbidity.
V-7	10/3/88			
V-8	10/3/88			
V-9	10/3/88			
V-10	10/4/88			
I-1	10/4/88			
I-2	10/3/88			
I-3	10/3/88			

(NO 8040 on V-3. the 8270 will cover the phenols there)

Comments Please include sample & QC chromatograms including QC data report stating duplicate % deviation & spike % recovery data. Please report any non-priority compounds. - Std. Tasco QC data package. Call if questi

Wahler Contact Person Peter Lyon Phone (415) 768-62[redacted]

Wahler Associates

Serial Number 204
WA Project Number JCO-111
Page 1 of 1

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Date Sample Shipped 10/5/88
Name of Laboratory Anametrix
Lab Project Manager Sarah Schoen
Turnaround Time 10 days
Report to Peter Lyon

Collector Mike Chen
Affiliation WAHLER ASSOCIATES
Address 1013 Corporation Way
Phone (415) 968-6250

Checked by Amy Chau

Sample Information

Your Sample I.D.	Date Collected	Matrix	Container	Analysis Requested
V-4	10-4-88	H_2O	(2) VOA	8240
V-7	10-3-88	H_2O	(2) VOA	8240
Travel Blank	10-4-88	H_2O	(1) VOA	8240
Travel Blank	10-4-88	H_2O	(1) VOA	8240
Method Blank	10-3-88	H_2O	(1) VOA	8240
Method Blank	10-3-88	H_2O	(1) VOA	8240

Comments Please include sample and QC chromatograms including QC data report showing duplicate % deviation and spike % recovery data. Std Jasco QC data package. Call if any questions

Wahler Contact Person Peter Lyon Phone (415) 968-6250

Chain of Possession

	Relinquished by (Sign. & affiliation)	Date	Time	Received by (Sign. & affiliation)	Date	Time
1.	Peter Lyon WAHLER	10/5/88	1.50	Taghi Memzadeh	10/5/88	13:
		/ /			/ /	
2.		/ /			/ /	
		/ /			/ /	
3.		/ /			/ /	
		/ /			/ /	

Wahler Associates

Appendix D

WATER SAMPLING PARAMETERS

DATE: 10-4-88

PROJECT NO.: JCO-111H

LOCATION: Mt. View

SAMPLERS: M.C.

SAMPLE ID: V-1

3BV: 79 gal

WATER LEVEL	GALLONS REMOVED	TIME	TEMP. C°	pH	Eh (mV)	COND. (micromhos)	DO mg/l	Q GPM	BOH
26.02	~~0~~								39
	0	3:25	18.8	7.00	-010	1600			
	2	3:35	19.4	7.09	-015	1600			
	4	3:45	19.3	7.02	-011	1500			
	7	4:00	19.7	7.05	-014	1550			

TIME SAMPLED: 4:00

COMMENTS:

SAMPLES TAKEN	
	EPA 624
	EPA 625
	EPA 608
	METALS
	CYANIDE

Wahler Associates

WATER SAMPLING PARAMETERS

DATE: 10-4-88

PROJECT NO.: J10-1114

LOCATION: Mt. View

SAMPLERS: MC

SAMPLE ID: V-3

BBY: 1691

WATER LEVEL	GALLONS REMOVED	TIME	TEMP. C°	pH	Eh (mV)	COND. (micromhos)	DO mg/l	Q GPM	BOH
26.33	0								34.8
	0	4:10	19.5	6.78	009	4700			
	5	4:10	19.0	6.62	009	4400			
	10	4:40	18.0	6.68	008	4200			
	16	4:55	18.9	6.83	000	2100			

TIME SAMPLED: 5:00

COMMENTS:

SAMPLES TAKEN	
	EPA 624
	EPA 625
	EPA 608
	METALS
	CYANIDE

Wahler Associates

WATER SAMPLING PARAMETERS

DATE: 10-6-86

PROJECT NO.: [illegible]

LOCATION: [illegible]

SAMPLERS: MC

SAMPLE ID: V-5

3BV: 4.5 gal.

WATER LEVEL	GALLONS REMOVED	TIME	TEMP. C°	pH	Eh (mV)	COND. (micromhos)	DO mg/l	Q GPM	BCH
28.28	0								>7
	0	12:00	18.5	7.22	-022	1300			
	1.5	12:10	18.2	7.21	-022	1300			
	3	12:20	19.3	7.27	-022	1300			
	4.5	12:30	19.1	7.22	-022	1350			

TIME SAMPLED: 12:40

COMMENTS:

SAMPLES TAKEN	
	EPA 624
	EPA 625
	EPA 608
	METALS
	CYANIDE

Wahler Associates

WATER SAMPLING PARAMETERS

DATE: 10-4-88

PROJECT NO.: J co-111H

LOCATION: Mt. View

SAMPLERS: MC

SAMPLE ID: V-6

3BY: 7991.

WATER LEVEL	GALLONS REMOVED	TIME	TEMP. C°	pH	Eh (mV)	COND. (micromhos)	DO mg/l	Q GPM	BOH
26.88	~~0~~								40
	~~0~~	1:00	19.2	7.14	-017	1200			
	2	1:15	18.8	7.11	.017	1150			
	4	1:25	19.0	7.13	-019	1150			
	7	1:35	19.0	7.07	-014	1150			

TIME SAMPLED: 1:40

COMMENTS:

SAMPLES TAKEN	
	EPA 624
	EPA 625
	EPA 608
	METALS
	CYANIDE

Wahler Associates

WATER SAMPLING PARAMETERS

DATE: 10-3-88

PROJECT NO.: JCO-1[illegible]

LOCATION: H. Wood.

SAMPLERS: MC

SAMPLE ID: V-7

3BY: 4

WATER LEVEL	GALLONS REMOVED	TIME	TEMP. C°	pH	Eh (mV)	COND. (micromhos)	DO mg/l	Q GPM	BOH
25.43	0								33
	0	2:20	19.1	6.80	.002	2850			
	2	2:40	19.3	6.82	-002	2200			
	4	2:50	19.1	6.82	-003	2100			

TIME SAMPLED: 2:50

COMMENTS:

SAMPLES TAKEN	
	EPA 624
	EPA 625
	EPA 608
	METALS
	CYANIDE

Wahler Associates

WATER SAMPLING PARAMETERS

DATE: 10-3-88

PROJECT NO.: JCO-111H

LOCATION: Mt. View

SAMPLERS: M.C

SAMPLE ID: V-8

3BV: 6 gal

Water Level	Gallons Removed	Time	Temp. C°	pH	Eh (mV)	Cond. (micromhos)	DO mg/l	Q GPM	BOH
25.95	0								38
	~~0~~	3:15	19.3	6.98	-011	2250			
	2	3:25	19.0	6.98	-012	2100			
	4	3:35							
	6	3:50							

TIME SAMPLED: 3:50

COMMENTS: No Lock & cap on the well

SAMPLES TAKEN	
	EPA 624
	EPA 625
	EPA 608
	METALS
	CYANIDE

Wahler Associates

WATER SAMPLING PARAMETERS

DATE: 10-3-88

PROJECT NO.: JCO-1111

LOCATION: Mt. View

SAMPLERS: M.C.

SAMPLE ID: V-9

3BV: 3 gal

WATER LEVEL	GALLONS REMOVED	TIME	TEMP. C°	pH	Eh (mV)	COND. (micromhos)	DO mg/l	Q GPM	BOH
25.41	0								30
	0	4:20	19.3	7.2	-019	2500			
	1	4:25	19.6	7.11	-019	1300			
	2	4:30	19.0	7.15	-0.9	1300			
	3	4:35	19.0	7.12	-020	1300			

TIME SAMPLED: 4:50

COMMENTS:

SAMPLES TAKEN	
	EPA 624
	EPA 625
	EPA 608
	METALS
	CYANIDE

Wahler Associates

WATER SAMPLING PARAMETERS

DATE: 10-4-88

PROJECT NO.: J60-1114

LOCATION: Mt. View

SAMPLERS: MC

SAMPLE ID: V-10

3BV: 3 gal

WATER LEVEL	GALLONS REMOVED	TIME	TEMP. C°	pH	Eh (mV)	COND. (micromhos)	DO mg/l	Q GPM	BOH
26.89	0								31
	0	11:00	19.0	7.03	-011	1250			
	1	11:10	19.3	7.00	-011	1250			
	2	11:15	18.8	7.0	-012	1250			
	3	11:20	13.9	6.97	-012	1250			

TIME SAMPLED: 11:20

COMMENTS:

SAMPLES TAKEN	
	EPA 624
	EPA 625
	EPA 608
	METALS
	CYANIDE

Wahler Associates

WATER SAMPLING PARAMETERS

DATE: 10-4-88

PROJECT NO.: [illegible]

LOCATION: [illegible] 1/1200

SAMPLERS: MC

SAMPLE ID: I-1

3BV: 12 gal

Water Level	Gallons Removed	Time	Temp. C°	pH	Eh (mV)	Cond. (micromhos)	DO mg/l	Q GPM	BOH
27.42	2								51
	4	2:00	18.7	7.25	.024	1150			
	4	2:15	18.6	7.29	.027	1100			
	8	2:30	19.5	7.27	.032	1100			
	12	2:40	19.1	7.20	.027	1150			

TIME SAMPLED: 2:40

COMMENTS:

SAMPLES TAKEN	
	EPA 624
	EPA 625
	EPA 608
	METALS
	CYANIDE

Wahler Associates

WATER SAMPLING PARAMETERS

DATE: 10-3-89

PROJECT NO.: JCO-111H

LOCATION: Mt. View

SAMPLERS: MC

SAMPLE ID: 1-2

BY: [illegible]

WATER LEVEL	GALLONS REMOVED	TIME	TEMP. C°	pH	Eh (mV)	COND. (micromhos)	DO mg/l	Q GPM	BOH
261	2								53
	4	1:40	19.3	7.20	-023	1300			
	6	1:55	18.8	7.17	-020	1200			
	8	2:05	19.3	7.14	-024	1200			
	10	2:15	18.8	7.13	-019	1200			

TIME SAMPLED: 2:20

COMMENTS:

SAMPLES TAKEN	
	EPA 624
	EPA 625
	EPA 608
	METALS
	CYANIDE

Wahler Associates

WATER SAMPLING PARAMETERS

DATE: 10-3-88

PROJECT NO.: JCO-111H

LOCATION: Mt. View

SAMPLERS: MC

SAMPLE ID: I-3

3BV: 16 gal.

Water Level	Gallons Removed	Time	Temp. C°	pH	Eh (mV)	Cond. (micromhos)	DO mg/l	Q GPM	BOH
25.82	0								56
	5	12:15	18.8	6.96	-008	1100			
	5	12:35	18.6	7.02	-030	1100			
	10	12:50	18.7	7.25	-031	1106			
	16	1:00	18.4	7.22	[illegible]	[illegible]			

TIME SAMPLED: 1:00

COMMENTS:

SAMPLES TAKEN	
	EPA 624
	EPA 625
	EPA 608
	METALS
	CYANIDE

Wahler Associates