

PACIFIC ENVIRONMENTAL GROUP INC.

Date July 17, 1989  
Project 330-40.02

To: Mr. Bill Howell  
Applied GeoSystems  
43255 Mission Blvd.  
Fremont, CA 94539

We have enclosed

Copies	Description
<u>1</u>	<u>Final soil gas investigation report for ARCO</u>
<u>      </u>	<u>SS #0276, located at 10600 MacArthur Blvd. Oakland</u>
<u>      </u>	<u>California.</u>
<u>      </u>	<u>      </u>
<u>      </u>	<u>      </u>

For your XX Use  
       Approval  
       Information

Comments: Enclosed is the soil gas investigation report for the  
above mentioned ARCO Service Station. If there are any questions,  
please call.

Sincerely,

John Baldwin



PACIFIC  
ENVIRONMENTAL  
GROUP, INC.

July 17, 1989  
Project No. 330-40.02

ARCO Petroleum Products Company  
P.O. Box 5811  
San Mateo, California 94403

Attn: Mr. Kyle Christie

RE: ARCO Station No. 0276  
10600 MacArthur Boulevard at 106th Avenue  
Oakland, California

Dear Mr. Christie:

This letter presents the results of a soil gas investigation conducted by Pacific Environmental Group, Inc. (PACIFIC) at ARCO service station No. 0276, located at 10600 MacArthur Boulevard, Oakland, California (see Figure 1). Following is a preliminary report of the procedures and findings of the soil gas survey that was conducted on June 21 and 22, 1989.

The soil vapor probe locations were selected to define the extent of hydrocarbon migration southeast of the ARCO station. A total of sixteen soil gas probes were installed during the investigation and were sampled at two depth intervals: four on-site probes (P-1 to P-4) were set at depth intervals of 14 to 16 feet and 19 to 21 feet; and twelve off-site probes (P-5 to P-16) were set at depth intervals of 17 to 19 feet and 22 to 24 feet below grade. The three-foot difference in sampling depth between the on-site and off-site probes allowed similar elevation intervals to be sampled throughout the area of investigation. (The ARCO station is situated approximately three feet lower in elevation than the adjacent lot.)

The elevation intervals sampled were 39-41 feet mean sea level (MSL) for the shallower sampling interval, and 34-36 feet MSL for the deeper interval. MSL elevations were taken from Cross-Section A-A', prepared by Applied Geosystems in a preliminary report dated May 12, 1989.

The probes were constructed of 1/2-inch diameter steel pipe, with the lower two feet perforated with 3/16-inch holes. The probes were driven into the soil with pneumatic equipment.

#### ANALYTICAL PROCEDURES

The sample of soil gas was drawn from each probe by means of a diaphragm pump through a stainless steel well head fitting and a Teflon sampling line, into a Beckman Model 400 Total Hydrocarbon Analyzer equipped with a flame-ionization detector and a Houston Instruments chart recorder. This detector uses a hydrogen flame to measure gas vapor. The detector is calibrated relative to propane; therefore, the total hydrocarbon concentration (THC) is reported with a detection limit of 150 parts per million (ppm) as propane (volume basis). The rate through the pump was maintained at 5 to 10 cubic feet per minute.

FIELD  
READ IN FS

Once the flame ionization reading stabilized, a sample of soil gas was also taken from the probe head and injected into a Photovac Model 10S55 portable gas chromatograph equipped with an 11 eV photo-ionization detector. An ultraviolet (UV) light source in the detector ionizes the chemical compounds that have an ionization potential less than that of the UV light (11 electron volts). The temperature controlled chromatographic column separates the individual compounds for speciation. Table 1 presents a summary of the analytical results for each probe location and depth. Chromatograms are included in Appendix A.

The gas chromatograph was calibrated with a certified standard mixture of benzene, toluene, ethylbenzene, and xylene isomers (BTEX). The THC measurements obtained by the flame-ionization detector were used to set the sample gain on the detector in the gas chromatograph. The carrier gas rate through the gas chromatograph was 7 cubic centimeters per minute, and the oven temperature was maintained at 40 degrees Celsius.

FIELD  
CALIBRATED

The lowest sample volume and least sensitive gain were used in locations where hydrocarbon concentrations were high. Compounds that were not quantifiable at these locations are shown as Excessive Hydrocarbon Interference (EHI) in Table 1 and the accompanying figures.

A number of measures have been implemented to prevent cross contamination of samples by residual hydrocarbons in the sampling equipment. In addition, the gas chromatograph is calibrated frequently during the test to ensure accurate results. The quality assurance/quality control information relating to the techniques used to obtain accurate results and prevent cross contamination of samples is presented as Attachment 1.

## FINDINGS

- o Probe installation in the adjacent parking lot was hampered by a localized resistant layer (possibly buried pavement) located approximately four feet below grade (see Figure 1). At approximately four feet in depth the soil vapor probes within the resistant area met refusal and soil gas samples were not collected.
- o At the approximate elevation of 39-41 feet MSL, benzene concentrations ranged from none detected to 100 ppm; and total hydrocarbon concentrations ranged from 5 ppm to 31,900 ppm (see Table 1). Isoconcentration maps for the THC and total BTEX at 39-41 feet MSL were prepared assuming a logarithmic decrease in concentration between sample points (see Figures 2 and 3). The highest THC and benzene concentrations were found within approximately 150 feet southeast of the ARCO station.
- o At the elevation of approximately 34-36 feet MSL, benzene concentrations ranged from none detected to 300 ppm, and total hydrocarbon concentrations ranged from 20 ppm to 40,000 ppm (see Table 1). Isoconcentration maps for THC and total BTEX at 34-36 feet MSL were prepared (see Figures 4 and 5). THC and BTEX concentrations generally decrease southeast of the ARCO station for a distance of approximately 200 feet, and increase for sample points beyond approximately 250 feet from the station.
- o The chromatograms for probes P-7, P-8 and P-9 indicated an unknown compound which was detected during the soil-gas investigation that does not correspond to gasoline constituents (see Appendix A).

## CONCLUSIONS

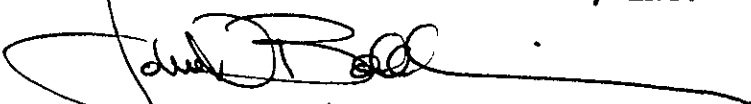
- o Based on the soil gas survey it appears that a hydrocarbon plume is extending from ARCO's southeastern property boundary, near the underground fuel tanks, to the adjacent parking lot to the southeast (see Figures 4 and 5). The western boundary of the plume remains undefined and may extend into MacArthur Boulevard.
- o THC and total BTEX concentrations decrease in the area of probes P-7, P-8 and P-10 at both sampling depths, indicating the plume extends approximately 200 feet off-site to the southeast. A second source may exist as indicated by probes P-9 and P-11, located downgradient of the southern edge of the plume, where elevated levels of hydrocarbons were detected (see Figures 4 and 5).

Project No. 330-40.02  
July 17, 1989  
Page 4

If there are any questions regarding the contents of this letter, please call.

Sincerely,

PACIFIC ENVIRONMENTAL GROUP, INC.



John N. Baldwin  
Staff Geologist



Debra Moser  
Senior Geologist

enclosures

cc: Richard Gilchrest, Drake Builders  
Bill Howell, Applied GeoSystems  
Chris Winsor, ARCO Petroleum Products Company

TABLE 1  
Summary of Soil-Gas results for ARCO Station #0276  
Sampled on June 21-22, 1989

PROBE #	DEPTH (in feet)	BENZENE (ppm)	TOLUENE (ppm)	E-BENZENE (ppm)	P,M-XYLENE (ppm)	O-XYLENE (ppm)	THC (ppm)	TOTAL BTEX (ppm)
1	14-16	EHI	1000	45	190	26	31,900	1300
1	19-21	.8	9.3	40	33	14	20,000	98
2	14-16	EHI	63	9.7	47	16	200	140
2	19-21	3.2	7.3	1.0	4.1	.6	200	16
3	14-16	10	60	7.9	32	5.2	1,000	110
3	19-21	63	9.3	BRL	1.9	BRL	25,000	74
4	14-16	BRL	.8	.4	1.6	.4	200	3.2
4	19-21	.2	.1	.2	1.3	.4	500	2.2
5	17-19	1.3	1.3	BRL	BRL	BRL	300	2.6
5	22-24	130	190	20	17	19	25,300	380
6	17-19	BRL	BRL	BRL	BRL	BRL	80	BRL
6	22-24	130	39	BRL	BRL	BRL	21,500	170
7	17-19	.1	.5	BRL	.2	BRL	10	.8
7	22-24	BRL	BRL	BRL	BRL	BRL	20	BRL
8	17-19	BRL	BRL	BRL	BRL	BRL	45	BRL
8	22-24	BRL	.2	BRL	BRL	BRL	100	.2
9	17-19	BRL	BRL	BRL	BRL	BRL	BRL	BRL
9	22-24	6.7	7.8	15	4.5	BRL	2,100	34
10	17-19	.1	.3	BRL	.1	BRL	160	.5
10	22-24	1.2	.8	BRL	BRL	BRL	800	2.0
11	17-19	BRL	BRL	BRL	BRL	BRL	5	BRL
11	22-24	.1	9.7	.7	2.2	1.5	14,000	14
12	17-19	BRL	.4	BRL	BRL	BRL	10	.4
12	22-24	EHI	300	BRL	BRL	BRL	33,500	300
Reporting Limit:		.1	.1	.1	.1	.1	5	.1

THC: Total Hydrocarbons recorded by Flame Ionization Detector. All other gasoline constituents recorded by gas chromatograph.

EHI: Not quantified due to Excessive Hydrocarbon Interference. (Lowest volume of injection and least sensitive gain set for gas chromatograph).

BRL: Below Reporting Limit.

ppm: parts per million on a volume to volume basis.

TABLE 1 (cont.)  
 Summary of Soil-Gas results for ARCO Station #0276  
 Sampled on June 21-22, 1989

PROBE #	DEPTH (in feet)	BENZENE (ppm)	TOLUENE (ppm)	E-BENZENE (ppm)	P,M-XYLENE (ppm)	O-XYLENE (ppm)	THC (ppm)	TOTAL BTEX (ppm)
13	17-19	.1	.5	.1	.2	.1	60	1.0
13	22-24	300	190	BRL	25	BRL	24,500	510
14	17-19	.1	.3	.1	.2	.1	50	.8
14	22-24	20	29	1.8	6.3	1.6	5,000	59
15	17-19	100	180	11	7.4	8.7	23,500	300
15	22-24	EHI	2000	79	230	48	40,000	2400
16	17-19	3.1	4.1	.5	.5	BRL	500	8.2
16	22-24	.5	1.2	BRL	.4	.1	500	2.2
Reporting Limit:		.1	.1	.1	.1	.1	5	.1

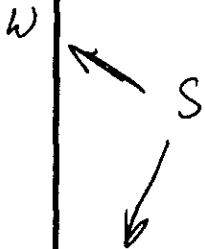
THC: Total Hydrocarbons recorded by Flame Ionization Detector. All other gasoline constituents recorded by gas chromatograph.

EHI: Not quantified due to Excessive Hydrocarbon Interference. (Lowest volume of injection and least sensitive gain set for gas chromatograph).

BRL: Below Reporting Limit.

ppm: parts per million on a volume to volume basis.

106th AVENUE



MACARTHUR BOULEVARD

PRODUCT ISLANDS

MW-1

FORMER WASTE OIL TANK

RESIDENTIAL

UNDERGROUND STORAGE TANKS

BLDG.

MW-4

MW-2

P-3

P-2

MW-5

P-1

MW-3

PLANTER

DRIVEWAY

MW-3

P-12

P-14

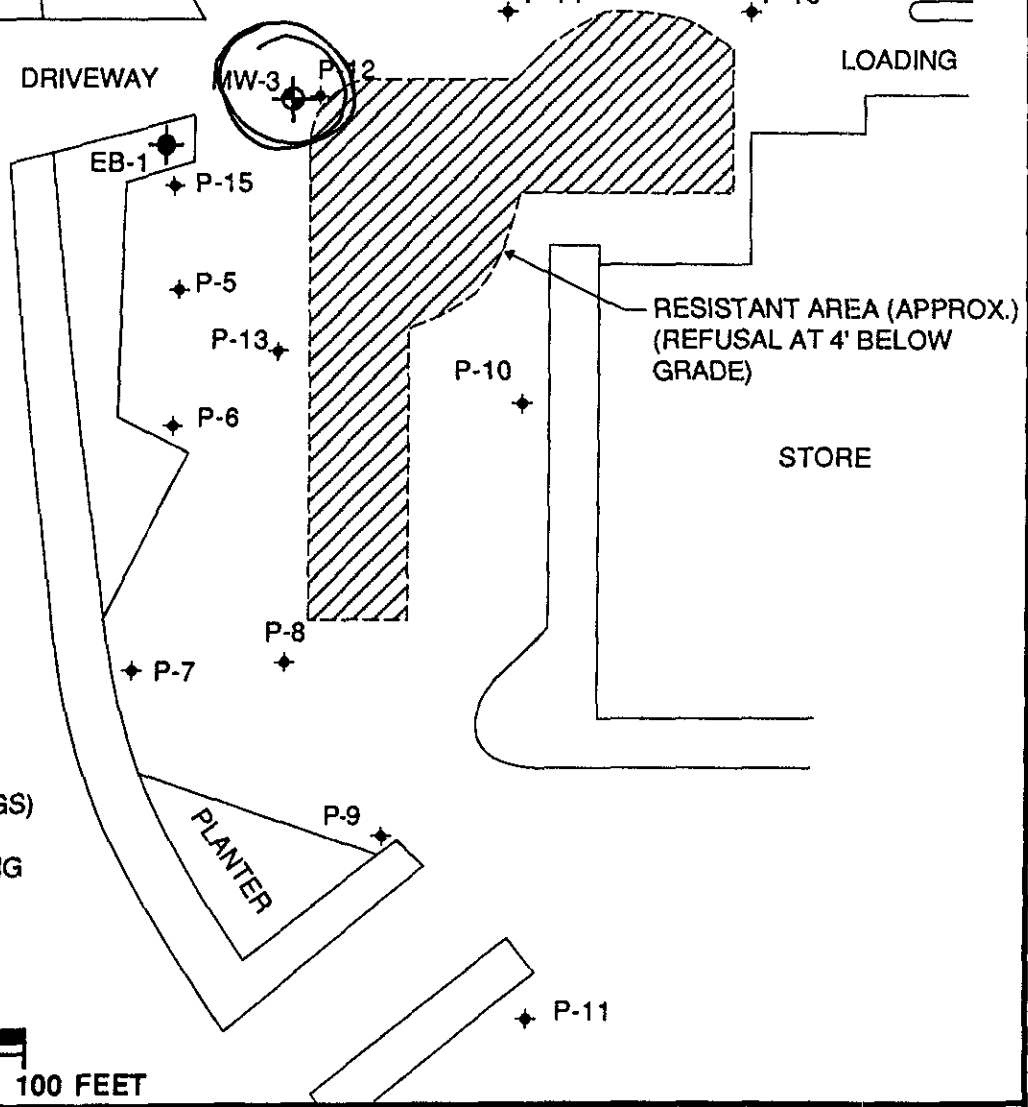
P-16

LOADING

**LEGEND**

- P-1 ✦ SOIL-GAS PROBE LOCATION AND DESIGNATION
- MW-3 ✦ GROUNDWATER MONITORING WELL LOCATION (APPROX.) AND DESIGNATION (WESTERN GEO. RESOURCES)
- MW-1 ✦ GROUNDWATER MONITORING WELL LOCATION (APPROX.) AND DESIGNATION (AGS)
- EB-1 ✦ EXPLORATORY BORING LOCATION (APPROX.) AND DESIGNATION (KALDVEER ASSOC.)

**SCALE**



ARCO SERVICE STATION #0276  
 10600 MacArthur Boulevard  
 Oakland, California

FIGURE:  
 1

PROJECT:  
 330-40.02



PACIFIC ENVIRONMENTAL GROUP, INC.

SITE MAP



106th AVENUE



**MACARTHUR BOULEVARD**

PRODUCT ISLANDS

FORMER WASTE OIL TANK

UNDERGROUND STORAGE TANKS

BLDG.

RESIDENTIAL

P-3 ?

P-2 200

P-4 200

1,000

P-1 31,900

PLANTER

DRIVEWAY

P-14 50

P-16\* 500

LOADING

P-12\* 10

P-15 23,500

P-5 300

P-13 60

P-10 160

STORE

1,000

P-6 80

P-8 45

P-7 10

P-9 ND

PLANTER

P-11 5

**LEGEND**

P-1 + SOIL-GAS PROBE LOCATION AND DESIGNATION

300 TOTAL HYDROCARBON CONCENTRATION IN PARTS PER MILLION (PPM) (39-41' - MSL)

100 TOTAL HYDROCARBON ISOCONCENTRATION CONTOUR IN PPM

P-12\* DATA NOT USED FOR CONTOURING

ND NONE DETECTED (BELOW REPORTING LIMIT)

**SCALE**



PACIFIC ENVIRONMENTAL GROUP, INC.

ARCO SERVICE STATION #0276  
10600 MacArthur Boulevard  
Oakland, California

TOTAL HYDROCARBON ISOCONCENTRATION  
MAP AT 39-41' - MSL

FIGURE:  
**2**  
PROJECT:  
330-40.02

106th AVENUE



MACARTHUR BOULEVARD

PRODUCT ISLANDS

FORMER WASTE OIL TANK

UNDERGROUND STORAGE TANKS

BLDG.

RESIDENTIAL

P-3

P-2

P-4

P-1

110

140

1,300

PLANTER

1,000

P-14  
.8

P-16\*  
8.2

LOADING

DRIVEWAY

100

P-12\*

.4

P-15

300

P-5

2.6

P-13

1.0

P-10

.5

STORE

**LEGEND**

P-1 + SOIL-GAS PROBE LOCATION AND DESIGNATION

1,300 TOTAL BTEX CONCENTRATION IN PARTS PER MILLION (PPM) (39-41' - MSL)

100 TOTAL BTEX ISOCONCENTRATION CONTROU IN PPM

P-12\* DATA NOT USED FOR CONTOURING

ND NONE DETECTED (BELOW REPORTING LIMIT)

**SCALE**



P-7

.8

P-8

ND

PLANTER

P-9

ND

P-11  
ND

ARCO SERVICE STATION #0276

10600 MacArthur Boulevard  
Oakland, California

FIGURE:

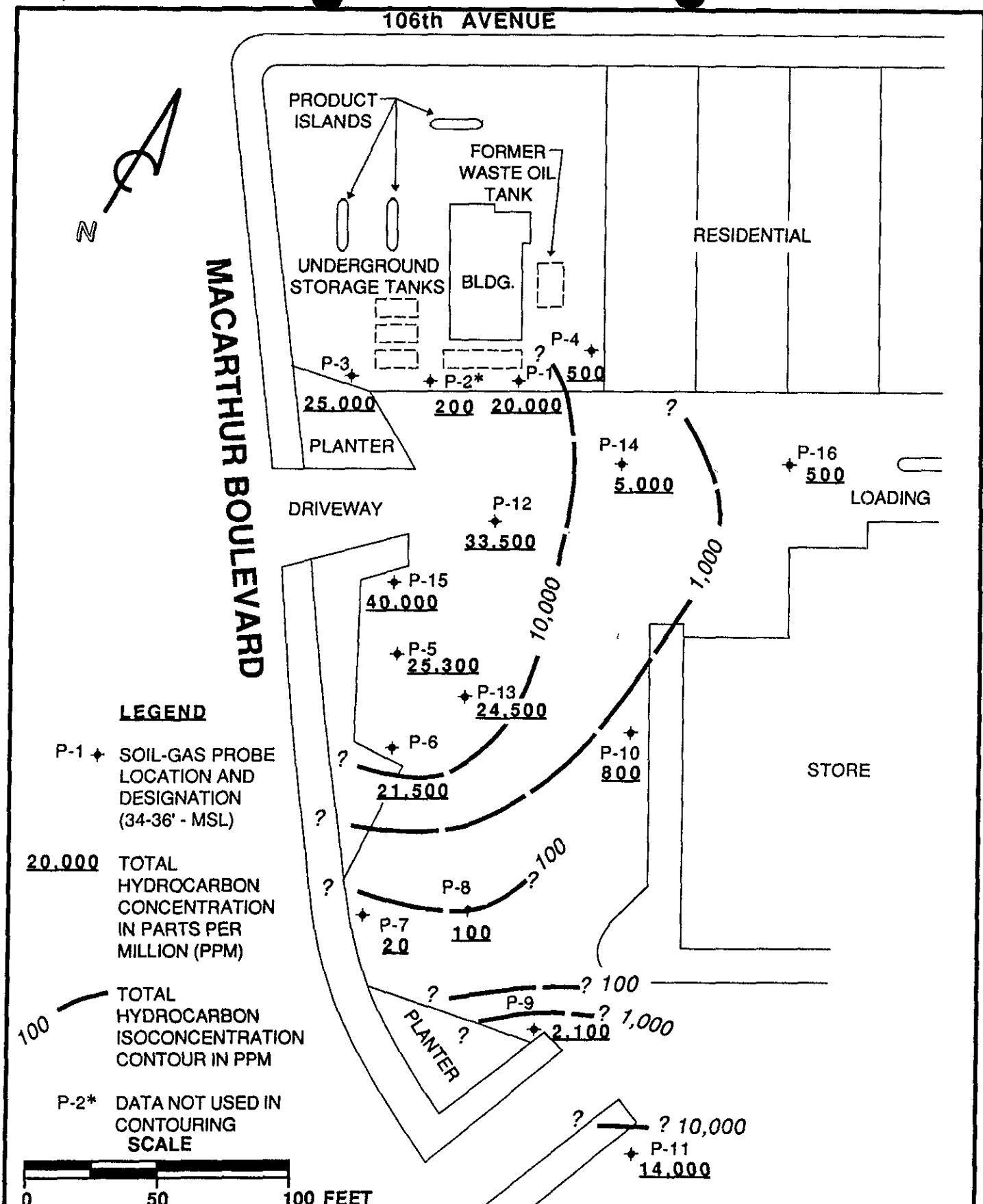
**3**

PROJECT:  
330-40.02

TOTAL BTEX ISOCONCENTRATION MAP  
AT 39-41' - MSL



PACIFIC ENVIRONMENTAL GROUP, INC.



ARCO SERVICE STATION #0276  
 10600 MacArthur Boulevard  
 Oakland, California

TOTAL HYDROCARBON ISOCONCENTRATION MAP AT 34'-36' MSL

FIGURE: 4  
 PROJECT: 330-40.02

106th AVENUE



MACARTHUR BOULEVARD

PRODUCT ISLANDS

FORMER WASTE OIL TANK

UNDERGROUND STORAGE TANKS

BLDG.

RESIDENTIAL

P-3

74

P-2\*

16

P-1

98

P-4

2.2

PLANTER

DRIVEWAY

1,000

P-12

300

P-14

59

P-16

2.2

LOADING

P-15

2400

P-5

380

P-13

510

P-6

170

P-10

2.0

STORE

P-8

.2

P-7

ND

10

PLANTER

P-9

34

SCALE



P-11

14

**LEGEND**

P-1 + SOIL-GAS PROBE LOCATION AND DESIGNATION

300 TOTAL BTEX CONCENTRATION IN PARTS PER MILLION (PPM) (34'-36' - MSL)

— TOTAL BTEX ISOCONCENTRATION CONTOUR IN PPM

P-2\* DATA NOT USED FOR CONTOURING

ND NONE DETECTED (BELOW REPORTING LIMIT)



PACIFIC ENVIRONMENTAL GROUP, INC.

ARCO SERVICE STATION #0276  
10600 MacArthur Boulevard  
Oakland, California

TOTAL BTEX ISOCONCENTRATION  
MAP AT 34'-36' MSL

FIGURE:  
**5**  
PROJECT:  
330-40.02

## Attachment 1

### Quality Assurance/Quality Control

PACIFIC's normal quality assurance procedures were followed to prevent contamination of the soil gas samples. The method of installation provides for a good seal between geologic material and the probe surface to prevent leakage of surface air into the perforated sampling zone. The sample train is tested for leaks at the beginning of each day.

To prevent cross-contamination of samples with residual hydrocarbons, the sampling equipment is made up of non-contaminating steel or Teflon tubing. A different probe is used for each sample. The equipment is steam cleaned prior to each use. An equipment blank, a sample of air ambient air taken through the equipment, is obtained periodically and the results compared with that of an ambient air sample. In addition, syringe blanks are periodically taken with the syringe used to inject the soil gas sample into the gas chromatograph to check for possible contamination of the syringe.

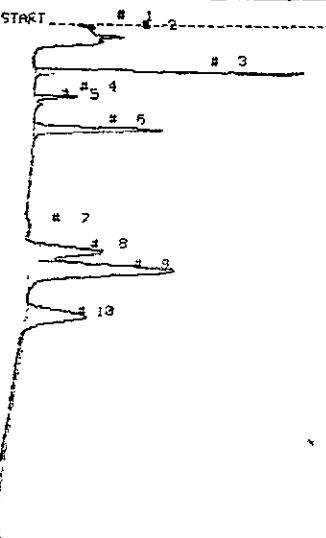
The FID and gas chromatograph are calibrated using certified standards throughout the course of each day. At a minimum, one standard is run before the sampling begins, one in the middle of the day, and one at the conclusion of the test. Blank samples are also run periodically.

APPENDIX A

PHOTOVAC

6/22/89  
Flow = 27 ml/min

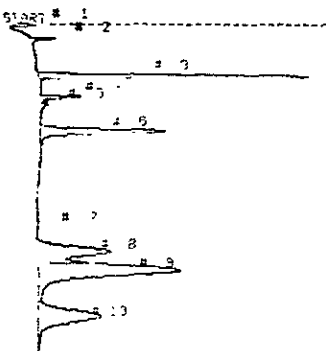
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STOP # 800.0  
SAMPLE LIBRARY 2 JUN 22 1989 9:30  
ANALYSIS # 1 MCARTHUR  
INTERNAL TEMP 29 OAKLAND  
GAIN 50 330-40.02

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	2	28.1	153.0 μS
UNKNOWN	7	75.3	3.4 μS
UNKNOWN	4	114.7	428.3 μS
UNKNOWN	8	166.7	3.1 μS
UNKNOWN	7	213.6	172.1 μS
UNKNOWN	8	353.2	4.0 μS
UNKNOWN	3	423.2	2.3 μS
UNKNOWN	8	452.8	3.2 μS

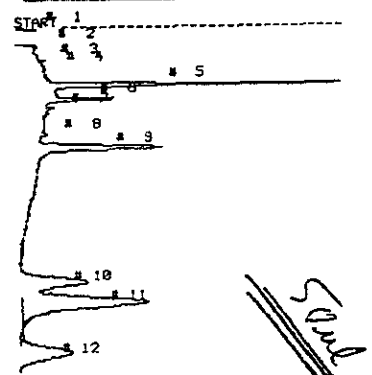
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STOP # 522.5  
SAMPLE LIBRARY 2 JUN 22 1989 9:49  
ANALYSIS # 2 MCARTHUR  
INTERNAL TEMP 25 OAKLAND  
GAIN 50 330-40.02

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	3.8	189.1 μS
UNKNOWN	2	23.4	148.8 μS
UNKNOWN	3	61.6	2.4 μS
UNKNOWN	4	114.7	448.3 μS
UNKNOWN	5	22.2	3.2 μS
UNKNOWN	3	353.2	4.0 μS
UNKNOWN	1	423.2	8.3 μS
UNKNOWN	3	452.8	4.6 μS

PHOTOVAC

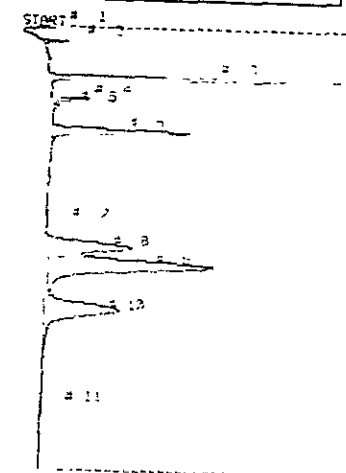


*Standard*

STOP # 800.0  
SAMPLE LIBRARY 2 JUN 21 1989 10:28  
ANALYSIS # 5 MCARTHUR  
INTERNAL TEMP 28 OAKLAND  
GAIN 50 330-40.01

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	3.8	144.3 μS
UNKNOWN	5	92.8	3.5 μS
UNKNOWN	6	114.7	586.3 μS
UNKNOWN	9	192.2	3.2 μS
UNKNOWN	10	425.8	3.9 μS
UNKNOWN	11	437.7	8.3 μS
UNKNOWN	12	528.1	2.4 μS

PHOTOVAC

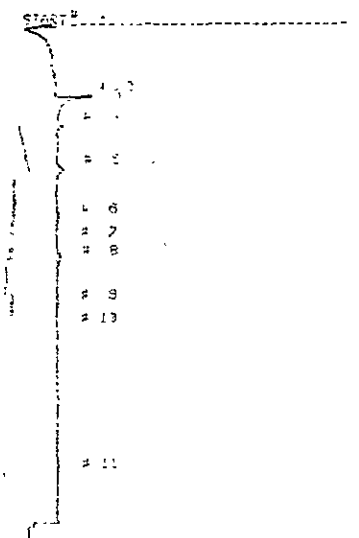


STOP # 686.5  
SAMPLE LIBRARY 2 JUN 22 1989 10:51  
ANALYSIS # 7 MCARTHUR  
INTERNAL TEMP 28 OAKLAND  
GAIN 50 330-40.02

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	2	23.5	162.6 μS
UNKNOWN	3	75.3	3.6 μS
UNKNOWN	4	114.7	424.6 μS
UNKNOWN	6	166.7	3.3 μS
UNKNOWN	3	353.2	4.2 μS
UNKNOWN	3	423.2	12.5 μS
UNKNOWN	10	448.4	3.3 μS

*Eg. Blank*

PHOTOVAC



STOP # 800.0  
SAMPLE LIBRARY 2 JUN 22 1989 11:53  
ANALYSIS # 10 MCARTHUR  
INTERNAL TEMP 29 OAKLAND  
GAIN 2 330-40.02

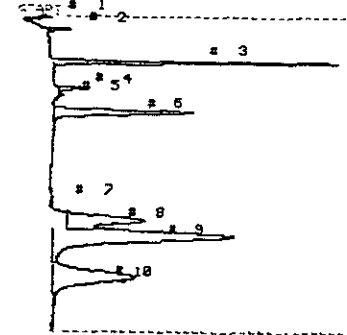
COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	3.2	154.5 μS
UNKNOWN	2	114.7	386.4 μS
UNKNOWN	5	228.6	121.3 μS
UNKNOWN	8	365.2	171.3 μS

STANDARD RUNS

330-40.02 CHROMATOGRAMS

SD

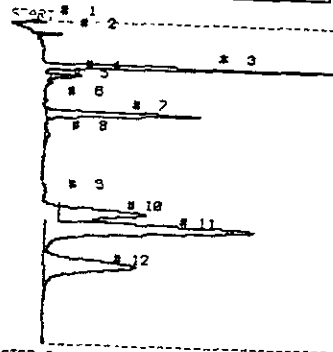
# PHOTOVAC



STOP # 423.4  
 SAMPLE LIBRARY 2 JUN 22 1989 13:4  
 ANALYSIS # 22 MCARTHUR  
 INTERNAL TEMP 32 OAKLAND  
 GAIN 50 330-40.02

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	2	22.0	166.0 μS
UNKNOWN	3	73.5	3.1 μS
UNKNOWN	4	114.7	459.1 μS
UNKNOWN	6	153.2	3.2 μS
UNKNOWN	8	322.3	4.5 μS
UNKNOWN	9	348.4	10.6 μS
UNKNOWN	10	413.5	5.7 μS

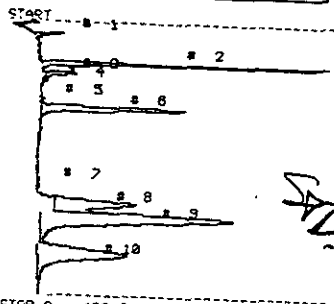
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STOP # 427.6  
 SAMPLE LIBRARY 2 JUN 22 1989 13:49  
 ANALYSIS # 25 MCARTHUR  
 INTERNAL TEMP 33 OAKLAND  
 GAIN 50 330-40.02

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	2	21.4	168.9 μS
UNKNOWN	3	69.5	3.4 μS
UNKNOWN	4	84.7	378.6 μS
UNKNOWN	7	144.4	3.3 μS
UNKNOWN	10	301.1	4.7 μS
UNKNOWN	11	325.0	11.7 μS
UNKNOWN	12	385.2	5.3 μS

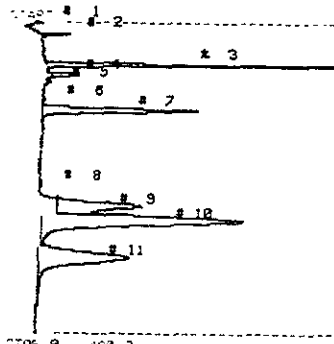
# PHOTOVAC



STOP # 422.8  
 SAMPLE LIBRARY 2 JUN 22 1989 14:22  
 ANALYSIS # 27 MCARTHUR  
 INTERNAL TEMP 33 OAKLAND  
 GAIN 50 330-40.02

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	21.1	191.9 μS
UNKNOWN	2	62.9	3.0 μS
UNKNOWN	3	84.7	371.5 μS
UNKNOWN	4	122.8	2.3 μS
UNKNOWN	8	299.1	4.0 μS
UNKNOWN	9	311.5	0.7 μS
UNKNOWN	10	369.2	5.5 μS

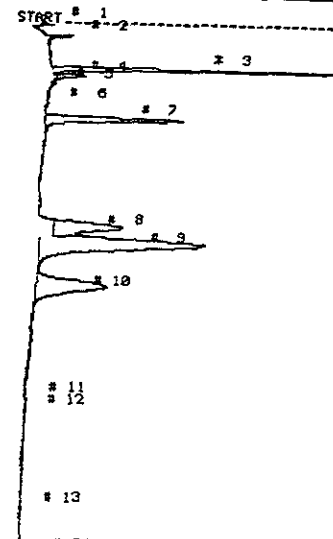
# PHOTOVAC



STOP # 482.2  
 SAMPLE LIBRARY 2 JUN 22 1989 16:40  
 ANALYSIS # 34 MCARTHUR  
 INTERNAL TEMP 33 OAKLAND  
 GAIN 50 330-40.02

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	2	23.3	168.0 μS
UNKNOWN	3	62.4	3.4 μS
UNKNOWN	4	84.7	391.1 μS
UNKNOWN	7	151.7	3.1 μS
UNKNOWN	9	322.1	4.0 μS
UNKNOWN	10	341.7	14.0 μS
UNKNOWN	11	342.2	5.0 μS

# PHOTOVAC



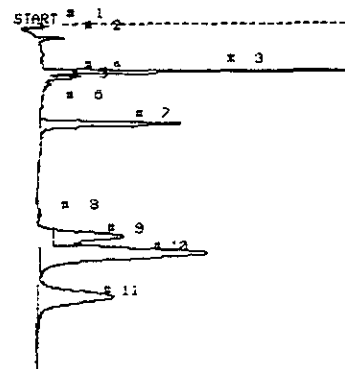
STOP # 800.0  
 SAMPLE LIBRARY 2 JUN 22 1989 17:52  
 ANALYSIS # 40 MCARTHUR  
 INTERNAL TEMP 29 OAKLAND  
 GAIN 50 330-40.02

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	2	21.4	156.1 μS
UNKNOWN	3	72.6	3.3 μS
UNKNOWN	4	84.7	325.3 μS
UNKNOWN	7	152.4	3.1 μS
UNKNOWN	8	325.0	4.2 μS
UNKNOWN	9	351.1	9.5 μS
UNKNOWN	10	417.9	4.3 μS

# STANDARD RUNS



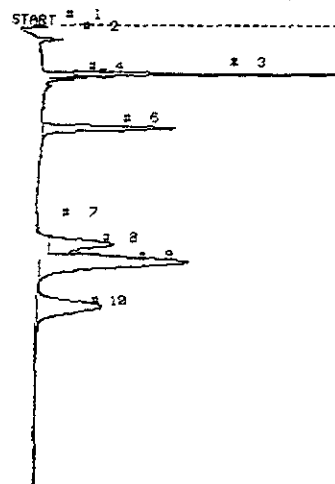
PHOTOVAC



STOP # 538.1  
SAMPLE LIBRARY 2 JUN 22 1989 19:59  
ANALYSIS # 44 MCARTHUR  
INTERNAL TEMP 28 OAKLAND  
GAIN 50 330-40.02

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	2	22.3	152.8 mUS
UNKNOWN	3	75.7	3.4 US
UNKNOWN	4	84.7	435.6 mUS
UNKNOWN	7	158.8	3.3 US
UNKNOWN	9	337.6	4.2 US
UNKNOWN	10	364.2	10.0 US
UNKNOWN	11	432.2	5.0 US

PHOTOVAC

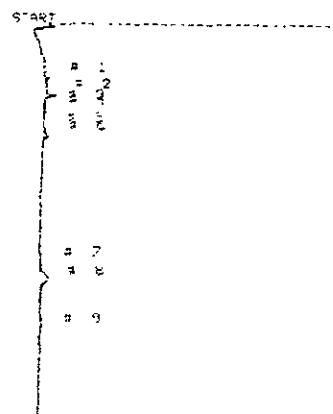


STOP # 715.0  
SAMPLE LIBRARY 2 JUN 22 1989 20:26  
ANALYSIS # 50 MCARTHUR  
INTERNAL TEMP 26 OAKLAND  
GAIN 50 330-40.02

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	2	22.6	153.8 mUS
UNKNOWN	3	77.5	3.5 US
UNKNOWN	4	84.4	429.6 mUS
UNKNOWN	6	163.7	3.3 US
UNKNOWN	8	347.5	3.9 US
UNKNOWN	9	376.2	9.1 US
UNKNOWN	10	447.2	4.2 US

Eg- check 50ul

PHOTOVAC

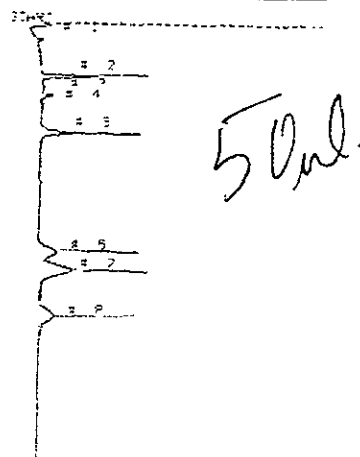


STOP # 614.3  
SAMPLE LIBRARY 2 JUN 21 1989 11:58  
ANALYSIS # 9 MCARTHUR  
INTERNAL TEMP 32 OAKLAND  
GAIN 10 330-40.01

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	2	22.5	152.8 mUS
UNKNOWN	3	75.7	3.4 US
UNKNOWN	4	84.7	435.6 mUS
UNKNOWN	7	158.8	3.3 US
UNKNOWN	9	337.6	4.2 US

Standard

PHOTOVAC



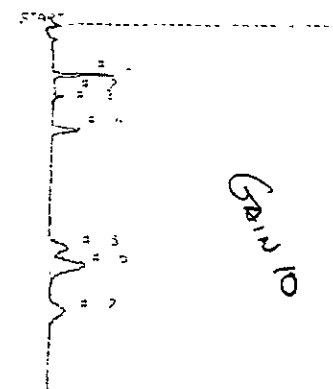
50ul.

STOP # 678.2  
SAMPLE LIBRARY 2 JUN 21 1989 12: 9  
ANALYSIS # 10 MCARTHUR  
INTERNAL TEMP 33 OAKLAND  
GAIN 10 330-40.01

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	2	25.8	623.5 mUS
UNKNOWN	3	79.4	124.1 mUS
UNKNOWN	4	124.4	520.9 mUS
UNKNOWN	6	153.2	122.8 mUS
UNKNOWN	7	331.2	1.9 US
UNKNOWN	9	461.2	0.1 US

STD.

PHOTOVAC



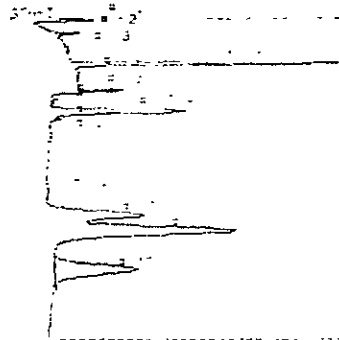
GAIN 10

STOP # 827.0  
SAMPLE LIBRARY 2 JUN 21 1989 13:49  
ANALYSIS # 17 MCARTHUR  
INTERNAL TEMP 32 OAKLAND  
GAIN 10 330-40.01

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	31.1	677.4 mUS
UNKNOWN	2	132.7	613.3 mUS
UNKNOWN	3	154.7	856.1 mUS
UNKNOWN	6	383.2	1.0 US
UNKNOWN	7	474.1	32.8 mUS

STANDARD RUNS

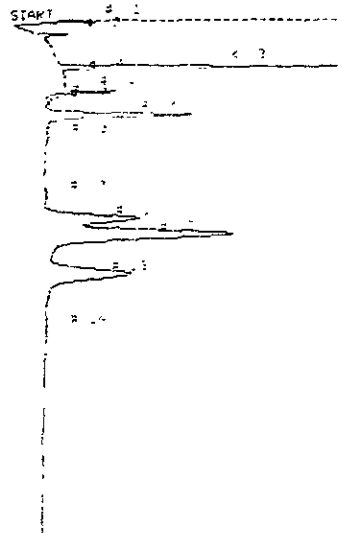
PHOTOVAC



STOP # 497.4  
 SAMPLE LIBRARY 2 JUN 21 1989 15:38  
 ANALYSIS # 21 MCARTHUR  
 INTERNAL TEMP 35 OAKLAND  
 GAIN 50 330-40.01

COMPOUND NAME	PEAK	R.T.	AREA UPM
UNKNOWN	1	3.4	312.3 μS
UNKNOWN	2	23.1	154.9 μS
UNKNOWN	3	25.0	2.9 μS
UNKNOWN	4	114.4	231.2 μS
UNKNOWN	5	148.0	2.8 μS
UNKNOWN	13	312.3	4.1 μS
UNKNOWN	14	336.7	18.1 μS

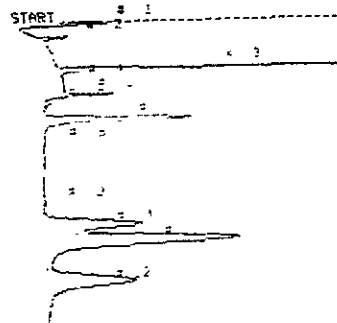
PHOTOVAC



STOP # 800.3  
 SAMPLE LIBRARY 2 JUN 21 1989 16:14  
 ANALYSIS # 23 MCARTHUR  
 INTERNAL TEMP 34 OAKLAND  
 GAIN 50 330-40.01

COMPOUND NAME	PEAK	R.T.	AREA UPM
UNKNOWN	1	3.4	396.3 μS
UNKNOWN	2	24.8	181.2 μS
UNKNOWN	3	14	3.2 μS
UNKNOWN	5	114.4	145.5 μS
UNKNOWN	9	15.2	3.1 μS
UNKNOWN	11	31.5	4.2 μS
UNKNOWN	12	343.3	13.0 μS
UNKNOWN	13	422.5	5.7 μS

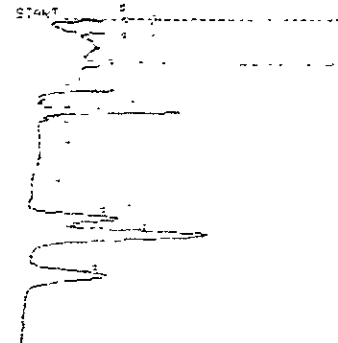
PHOTOVAC



STOP # 480.7  
 SAMPLE LIBRARY 2 JUN 21 1989 17:32  
 ANALYSIS # 24 MCARTHUR  
 INTERNAL TEMP 34 OAKLAND  
 GAIN 50 330-40.01

COMPOUND NAME	PEAK	R.T.	AREA UPM
UNKNOWN	1	3.5	478.0 μS
UNKNOWN	2	23.0	102.8 μS
UNKNOWN	3	26.3	3.4 μS
UNKNOWN	5	114.4	408.1 μS
UNKNOWN	7	153.2	3.2 μS
UNKNOWN	10	321.1	4.3 μS
UNKNOWN	11	346.8	18.6 μS
UNKNOWN	12	410.4	5.7 μS

PHOTOVAC



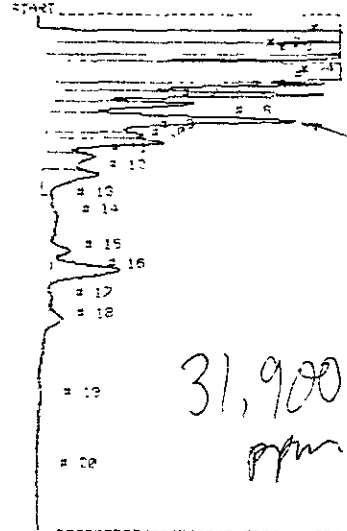
STOP # 518.1  
 SAMPLE LIBRARY 2 JUN 21 1989 18:14  
 ANALYSIS # 28 MCARTHUR  
 INTERNAL TEMP 33 OAKLAND  
 GAIN 50 330-40.01

COMPOUND NAME	PEAK	R.T.	AREA UPM
UNKNOWN	1	3.3	230.0 μS
UNKNOWN	2	22.8	10.1 μS
UNKNOWN	3	28.7	3.4 μS
UNKNOWN	6	114.4	102.5 μS
UNKNOWN	8	148.0	3.1 μS
UNKNOWN	10	171.0	12.1 μS
UNKNOWN	13	317.1	1.3 μS
UNKNOWN	14	343.3	2.4 μS
UNKNOWN	15	406.9	4.7 μS

STANDARD RUNS

P-1 5ml  
16'

PHOTOVAC

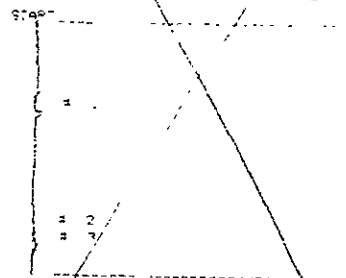


STOP # 822.2  
SAMPLE LIBRARY 2 JUN 21 1989 18:49  
ANALYSIS # 6 MCARTHUR  
INTERNAL TEMP 29 OAKLAND  
GAIN 2 330-40.01

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	34.4	48.7 US
UNKNOWN	2	53.8	24.3 US
UNKNOWN	3	66.8	8.9 US
UNKNOWN	4	89.0	39.7 US
UNKNOWN	5	129.7	7.9 US
UNKNOWN	6	127.6	8.3 US
UNKNOWN	7	142.8	5.9 US
UNKNOWN	8	168.2	13.9 US
UNKNOWN	9	191.2	3.3 US
UNKNOWN	10	222.3	4.8 US
UNKNOWN	11	225.0	3.4 US
UNKNOWN	12	253.5	4.8 US
UNKNOWN	13	294.7	325.6 US
UNKNOWN	14	321.1	221.0 US
UNKNOWN	15	376.2	136.1 US
UNKNOWN	16	426.1	4.3 US
UNKNOWN	18	435.0	49.1 US
UNKNOWN	19	604.7	377.7 US

P-1 5ml 21'

PHOTOVAC

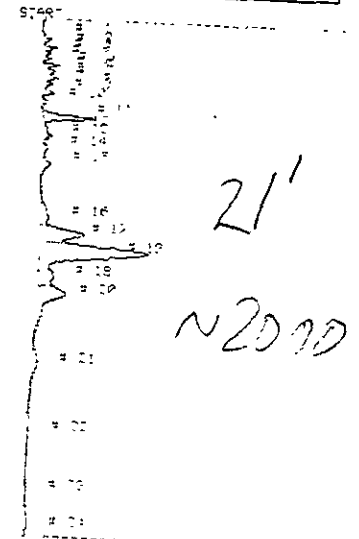


STOP # 822.1  
SAMPLE LIBRARY 2 JUN 21 1989 12:37  
ANALYSIS # 12 MCARTHUR  
INTERNAL TEMP 32 OAKLAND  
GAIN 2 330-40.01

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	147.5	143.4 US
UNKNOWN	3	353.2	140.0 US

P-1 50ml

PHOTOVAC



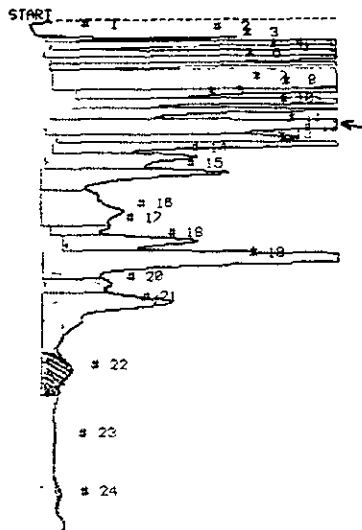
STOP # 822.3  
SAMPLE LIBRARY 2 JUN 21 1989 12:52  
ANALYSIS # 13 MCARTHUR  
INTERNAL TEMP 32 OAKLAND  
GAIN 2 330-40.01

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	7	26.3	113.7 US
UNKNOWN	9	129.7	142.9 US
UNKNOWN	11	136.8	11.2 US
UNKNOWN	14	226.1	121.5 US
UNKNOWN	15	231.6	295.4 US
UNKNOWN	16	242.5	342.4 US
UNKNOWN	17	340.3	21.0 US
UNKNOWN	18	367.2	7.1 US
UNKNOWN	19	426.1	11.1 US
UNKNOWN	20	431.4	21.7 US
UNKNOWN	21	549.7	433.0 US

PROBE P-1

50ml P-2  
16'

PHOTOVAC

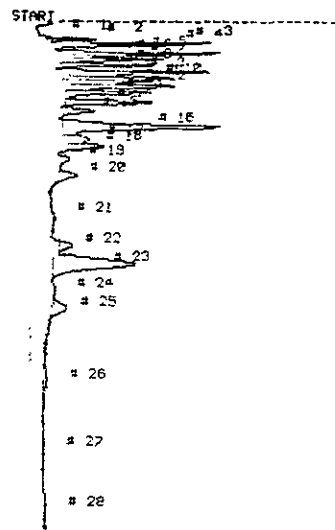


STOP @ 800.0  
SAMPLE LIBRARY 2 JUN 21 1989 12:26  
ANALYSIS # 11 MCARTHUR  
INTERNAL TEMP 33 OAKLAND  
GAIN 10 330-40.01

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	26.7	178.4 μS
UNKNOWN	2	30.8	1.0 μS
UNKNOWN	3	38.9	22.2 US
UNKNOWN	4	54.1	17.2 US
UNKNOWN	5	62.2	7.3 US
UNKNOWN	6	71.0	8.7 US
UNKNOWN	7	94.0	186.4 US
UNKNOWN	8	113.6	10.4 US
UNKNOWN	9	130.0	14.7 US
UNKNOWN	10	143.7	11.2 US
UNKNOWN	11	166.3	40.6 US
UNKNOWN	12	187.7	8.2 US
UNKNOWN	13	186.0	13.4 US
UNKNOWN	14	218.4	8.6 US
UNKNOWN	15	243.7	11.4 US
UNKNOWN	16	305.1	10.6 US
UNKNOWN	17	327.7	3.0 US
UNKNOWN	18	352.0	8.6 US
UNKNOWN	19	325.1	50.1 US
UNKNOWN	20	419.0	4.1 US
UNKNOWN	21	448.4	15.2 US
UNKNOWN	22	555.1	4.5 US
UNKNOWN	24	751.0	368.4 μS

P-2 21'  
50ml

PHOTOVAC



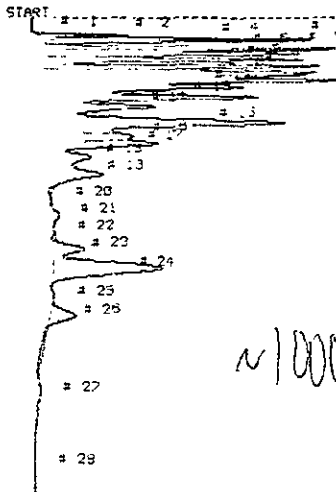
STOP @ 800.0  
SAMPLE LIBRARY 2 JUN 21 1989 13:36  
ANALYSIS # 15 MCARTHUR  
INTERNAL TEMP 32 OAKLAND  
GAIN 10 330-40.01

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	2	29.5	308.3 μS
UNKNOWN	3	35.0	1.1 US
UNKNOWN	4	37.9	1.4 US
UNKNOWN	5	51.3	1.5 US
UNKNOWN	6	55.1	1.0 US
UNKNOWN	7	60.5	1.5 US
UNKNOWN	8	70.1	1.1 US
UNKNOWN	9	81.1	2.4 US
UNKNOWN	10	81.0	1.8 US
UNKNOWN	11	95.2	1.2 US
UNKNOWN	12	103.6	2.3 US
UNKNOWN	13	113.5	1.8 US
UNKNOWN	14	130.0	1.7 US
UNKNOWN	15	143.6	654.5 μS
UNKNOWN	16	168.2	4.7 US
UNKNOWN	17	187.7	861.4 μS
UNKNOWN	18	188.2	1.2 US
UNKNOWN	19	219.0	256.2 μS
UNKNOWN	20	245.1	634.3 μS
UNKNOWN	21	307.5	182.6 μS
UNKNOWN	22	355.6	820.3 μS
UNKNOWN	23	384.2	4.4 US
UNKNOWN	25	454.4	599.6 μS
UNKNOWN	26	566.8	293.5 μS

PROBE P-2

P-3 16'  
50ul

PHOTOVAC

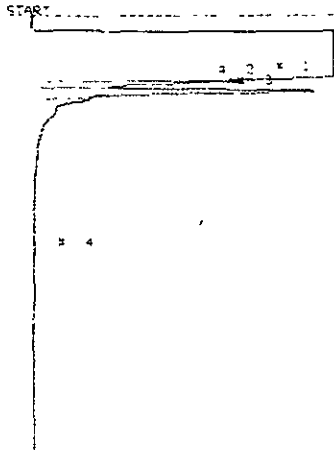


STOP @ 737.6  
 SAMPLE LIBRARY 2 JUN 21 1989 11:31  
 ANALYSIS # 7 MCARTHUR  
 INTERNAL TEMP 31 OAKLAND  
 GAIN 2 330-40.01

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	2	27.3	748.4 uVS
UNKNOWN	3	32.8	2.2 uS
UNKNOWN	4	35.2	3.7 uS
UNKNOWN	5	47.6	4.3 uS
UNKNOWN	6	51.9	3.8 uS
UNKNOWN	7	57.3	4.3 uS
UNKNOWN	8	56.7	4.3 uS
UNKNOWN	9	76.7	4.3 uS
UNKNOWN	10	82.7	1.5 uS
UNKNOWN	11	93.7	1.7 uS
UNKNOWN	12	109.0	1.1 uS
UNKNOWN	13	126.0	3.1 uS
UNKNOWN	14	140.4	1.6 uS
UNKNOWN	15	166.7	7.7 uS
UNKNOWN	16	188.2	1.6 uS
UNKNOWN	17	198.7	2.4 uS
UNKNOWN	18	220.0	620.6 uVS
UNKNOWN	19	248.6	1.3 uS
UNKNOWN	21	215.9	301.6 uVS
UNKNOWN	23	367.2	1.4 uS
UNKNOWN	24	336.2	0.7 uS
UNKNOWN	26	471.2	1.3 uS
UNKNOWN	27	500.8	136.2 uVS

21' P-3  
50ul

PHOTOVAC

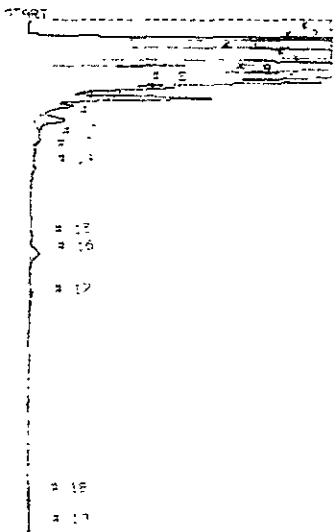


STOP @ 678.1  
 SAMPLE LIBRARY 2 JUN 21 1989 14:07  
 ANALYSIS # 18 MCARTHUR  
 INTERNAL TEMP 32 OAKLAND  
 GAIN 2 330-40.01

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	62.6	1.0 uVS
UNKNOWN	2	104.2	4.2 uS
UNKNOWN	3	120.9	7.5 uS

21' P-3  
50ul 23,000

PHOTOVAC



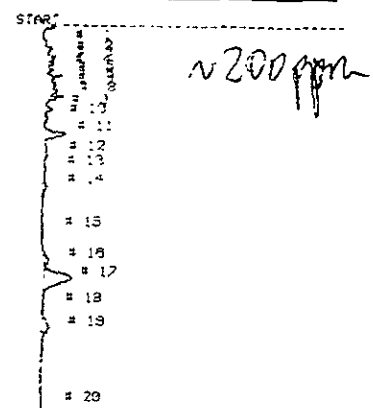
STOP @ 800.0  
 SAMPLE LIBRARY 2 JUN 21 1989 14:22  
 ANALYSIS # 19 MCARTHUR  
 INTERNAL TEMP 32 OAKLAND  
 GAIN 2 330-40.01

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	28.3	6.2 uS
UNKNOWN	2	38.3	28.1 uS
UNKNOWN	3	54.2	17.2 uS
UNKNOWN	4	67.6	7.2 uS
UNKNOWN	5	72.3	7.3 uS
UNKNOWN	6	88.2	11.3 uS
UNKNOWN	7	100.0	6.1 uS
UNKNOWN	8	120.0	3.3 uS
UNKNOWN	9	125.0	4.3 uS
UNKNOWN	10	137.6	1.4 uS
UNKNOWN	11	162.7	1.2 uS
UNKNOWN	16	371.2	85.1 uVS

PROBE T-3

P-4 50ul  
16'

PHOTOVAC

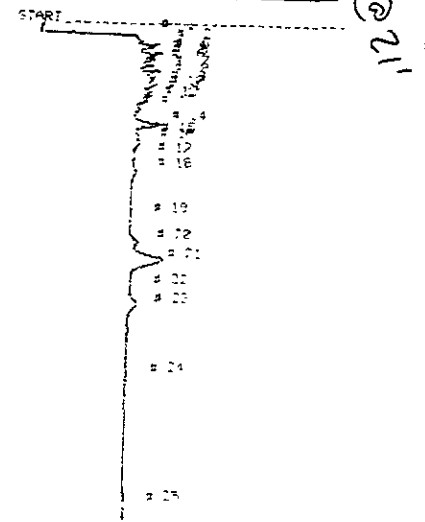


STOP @ 601.3  
 SAMPLE LIBRARY 2 JUN 21 1989 11:45  
 ANALYSIS # 8 MCARTHUR  
 INTERNAL TEMP 32 OAKLAND  
 GAIN 10 330-40.01

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	5	83.2	126.5 nUS
UNKNOWN	8	114.7	132.6 nUS
UNKNOWN	9	134.4	104.7 nUS
UNKNOWN	11	174.7	597.1 nUS
UNKNOWN	16	373.2	311.2 nUS
UNKNOWN	17	402.3	1.7 nUS
UNKNOWN	19	177.2	373.7 nUS

P-4 gain adj.  
to 1/2 @ 21'

PHOTOVAC



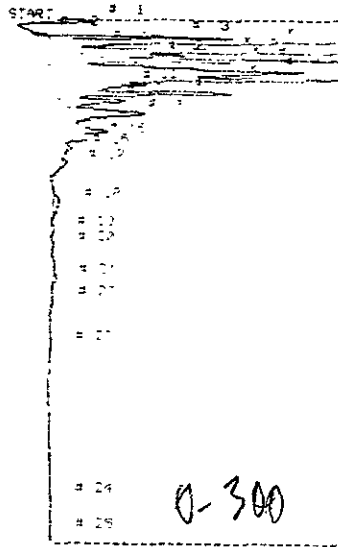
STOP @ 800.0  
 SAMPLE LIBRARY 2 JUN 21 1989 13:14  
 ANALYSIS # 14 MCARTHUR  
 INTERNAL TEMP 31 OAKLAND  
 GAIN 10 330-40.01

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.4	536.9 nUS
UNKNOWN	2	26.1	43.3 nUS
UNKNOWN	14	50.7	673.3 nUS
UNKNOWN	22	348.7	179.6 nUS
UNKNOWN	23	375.2	1.4 nUS
UNKNOWN	25	443.6	343.1 nUS

PROBE P-4

P-5 19  
50 ul.

PHOTOVAC

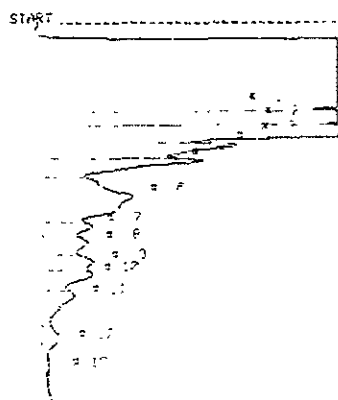


STOP # 800.0  
SAMPLE LIBRARY 2 JUN 21 1989 15:28  
ANALYSIS # 20 MCARTHUR  
INTERNAL TEMP 35 OAKLAND  
GAIN 50 330-40.01

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	3.8	482.5 US
UNKNOWN	3	27.6	1.2 US
UNKNOWN	4	33.4	9.4 US
UNKNOWN	5	48.3	722.8 US
UNKNOWN	6	48.8	14.2 US
UNKNOWN	7	57.1	2.1 US
UNKNOWN	8	63.9	4.9 US
UNKNOWN	9	33.2	10.8 US
UNKNOWN	10	94.3	6.2 US
UNKNOWN	11	102.7	7.7 US
UNKNOWN	12	115.8	4.2 US
UNKNOWN	13	128.8	2.7 US
UNKNOWN	14	148.8	4.3 US
UNKNOWN	15	178.2	824.8 US
UNKNOWN	16	195.2	103.6 US
UNKNOWN	18	278.7	678.3 US
UNKNOWN	19	297.2	287.8 US
UNKNOWN	22	430.8	132.1 US
UNKNOWN	23	433.2	127.2 US
UNKNOWN	24	733.7	122.4 US

25,300 50 ul.  
P-5 24

PHOTOVAC



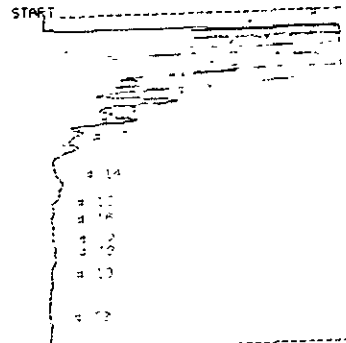
STOP # 591.3  
SAMPLE LIBRARY 2 JUN 21 1989 17:43  
ANALYSIS # 25 MCARTHUR  
INTERNAL TEMP 34 OAKLAND  
GAIN 2 330-40.01

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	88.8	2.6 KUS
UNKNOWN	2	148.	27.3 US
UNKNOWN	3	171.2	23.2 US
UNKNOWN	4	184.2	11.3 US
UNKNOWN	5	217.8	9.7 US
UNKNOWN	6	274.5	14.8 US
UNKNOWN	7	328.5	3.1 US
UNKNOWN	8	340.5	3.5 US
UNKNOWN	9	377.2	2.6 US
UNKNOWN	10	337.2	3.7 US
UNKNOWN	11	431.1	3.6 US
UNKNOWN	12	499.2	2.1 US
UNKNOWN	13	442.5	473.8 US

EM

P-5 10 ul.  
24

PHOTOVAC

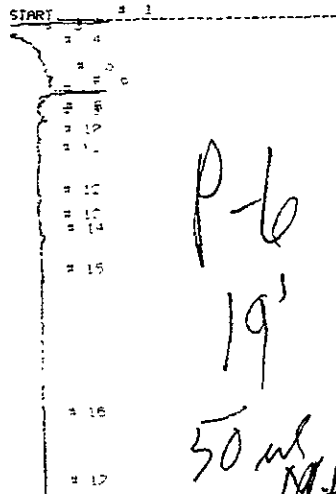


STOP # 512.2  
SAMPLE LIBRARY 2 JUN 21 1989 17:54  
ANALYSIS # 28 MCARTHUR  
INTERNAL TEMP 34 OAKLAND  
GAIN 2 330-40.01

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.7	3.1 US
UNKNOWN	2	32.4	16.1 US
UNKNOWN	3	46.9	27.2 US
UNKNOWN	4	58.3	7.5 US
UNKNOWN	5	67.8	4.1 US
UNKNOWN	6	72.9	23.7 US
UNKNOWN	7	93.4	3.5 US
UNKNOWN	8	102.2	5.3 US
UNKNOWN	9	117.1	3.4 US
UNKNOWN	10	132.2	5.8 US
UNKNOWN	11	166.7	4.5 US
UNKNOWN	12	183.7	1.6 US
UNKNOWN	13	207.8	1.1 US
UNKNOWN	14	264.0	236.8 US
UNKNOWN	20	424.9	103.2 US

PROBE P-5

PHOTOVAC

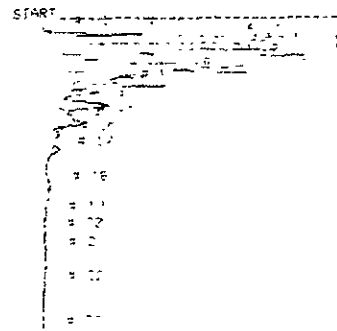


STOP # 767.3  
 SAMPLE LIBRARY 2 JUN 21 1989 15:59  
 ANALYSIS # 22 MCARTHUR  
 INTERNAL TEMP 35 OAKLAND  
 GAIN 50 330-40.01

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	4.4	603.7 μS
UNKNOWN	6	12.4	50.5 μS
UNKNOWN	12	282.7	214.5 μS
UNKNOWN	14	344.6	1.45 μS

24'  
 P-6 21,500  
 10 ml

PHOTOVAC



STOP # 800.2  
 SAMPLE LIBRARY 2 JUN 21 1989 18:4  
 ANALYSIS # 27 MCARTHUR  
 INTERNAL TEMP 34 OAKLAND  
 GAIN 2 330-40.01

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	2	25.7	772.3 μS
UNKNOWN	3	31.5	11.2 μS
UNKNOWN	4	44.4	11.8 μS
UNKNOWN	5	52.3	3.1 μS
UNKNOWN	6	59.1	7.3 μS
UNKNOWN	7	67.5	1.1 μS
UNKNOWN	8	75.3	5.1 μS
UNKNOWN	9	86.2	3.3 μS
UNKNOWN	10	105.1	1.5 μS
UNKNOWN	11	207.2	2.4 μS
UNKNOWN	12	117.1	1.1 μS
UNKNOWN	13	137.6	1.6 μS
UNKNOWN	15	157.2	202.5 μS
UNKNOWN	17	206.2	178.2 μS

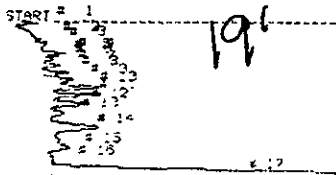
PROBE P-6



P-7 50ul

10ppm.

PHOTOVAC

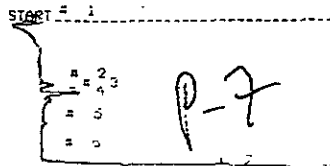


# 18  
# 19  
# 20  
# 21  
# 22  
# 23

STOP @ 561.6  
SAMPLE LIBRARY 2 JUN 22 1989 10:0  
ANALYSIS # 3 MCARTHUR  
INTERNAL TEMP 28 OAKLAND  
GAIN 50 330-40.02

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	4	50.1	198.3 mUS
UNKNOWN	5	54.1	130.3 mUS
UNKNOWN	6	59.7	123.5 mUS
UNKNOWN	7	63.5	174.3 mUS
UNKNOWN	8	82.8	335.4 mUS
UNKNOWN	9	91.3	189.7 mUS
UNKNOWN	10	104.2	560.0 mUS
UNKNOWN	11	114.7	530.6 mUS
UNKNOWN	12	130.4	559.3 mUS
UNKNOWN	13	144.4	214.6 mUS
UNKNOWN	14	168.2	1.5 US
UNKNOWN	15	189.7	587.3 mUS
UNKNOWN	17	236.0	18.3 US
UNKNOWN	20	564.2	861.7 mUS
UNKNOWN	22	454.4	221.1 mUS

PHOTOVAC



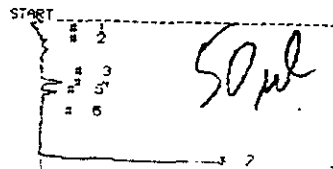
# 8  
# 9  
# 10  
# 11

STOP @ 802.0  
SAMPLE LIBRARY 2 JUN 22 1989 10:36  
ANALYSIS # 6 MCARTHUR  
INTERNAL TEMP 27 OAKLAND  
GAIN 50 330-40.02

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	3.8	196.3 mUS
UNKNOWN	2	102.4	195.6 mUS
UNKNOWN	3	114.7	416.7 mUS
UNKNOWN	7	233.7	26.5 US

P-7 24'

PHOTOVAC



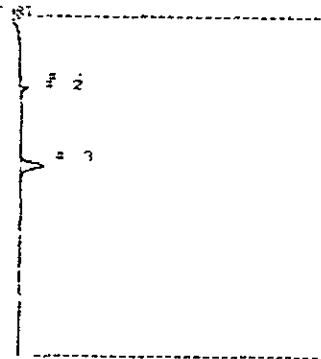
STOP @ 640.0  
SAMPLE LIBRARY 2 JUN 22 1989 11:35  
ANALYSIS # 9 MCARTHUR  
INTERNAL TEMP 28 OAKLAND  
GAIN 20 330-40.02

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	3	99.1	240.8 mUS
UNKNOWN	4	114.7	158.7 mUS
UNKNOWN	7	228.7	26.2 US

PROBE P-7

P-8 50ul  
19' syringe

PHOTOVAC

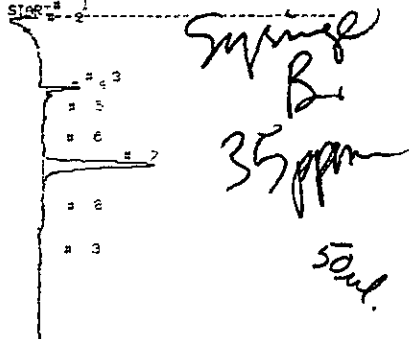


STOP # 527.1  
SAMPLE LIBRARY 2 JUN 22 1989 10:11  
ANALYSIS # 4 MCARTHUR  
INTERNAL TEMP 27 OAKLAND  
GAIN 10 330-40.02

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	3	238.2	790.2 μS

P-8 19'

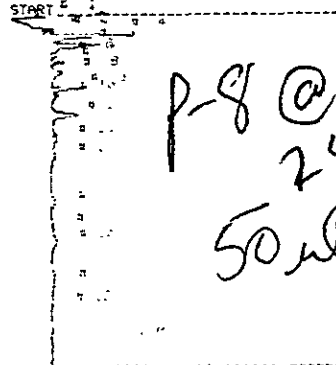
PHOTOVAC



STOP # 527.5  
SAMPLE LIBRARY 2 JUN 22 1989 10:21  
ANALYSIS # 5 MCARTHUR  
INTERNAL TEMP 27 OAKLAND  
GAIN 50 330-40.02

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	3.5	125.2 μS
UNKNOWN	3	114.7	557.2 μS
UNKNOWN	7	237.0	4.1 μS

PHOTOVAC



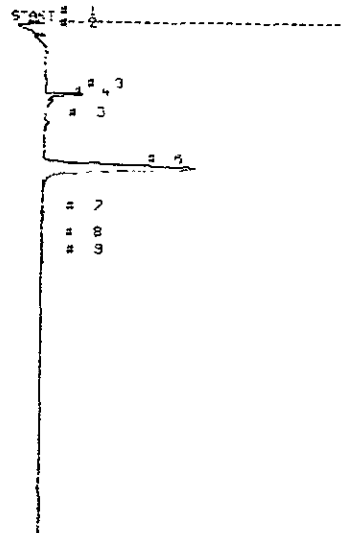
STOP # 546.6  
SAMPLE LIBRARY 2 JUN 22 1989 12:28  
ANALYSIS # 13 MCARTHUR  
INTERNAL TEMP 31 OAKLAND  
GAIN 50 330-40.02

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	4	32.2	372.3 μS
UNKNOWN	5	47.5	437.3 μS
UNKNOWN	7	75.5	117.2 μS
UNKNOWN	8	31.6	160.2 μS
UNKNOWN	9	114.7	326.5 μS
UNKNOWN	11	158.0	548.0 μS
UNKNOWN	12	135.2	125.1 μS
UNKNOWN	14	237.1	282.3 μS
UNKNOWN	16	359.2	182.9 μS
UNKNOWN	17	420.1	241.7 μS

Probe P-8

P-9 Soul  
191

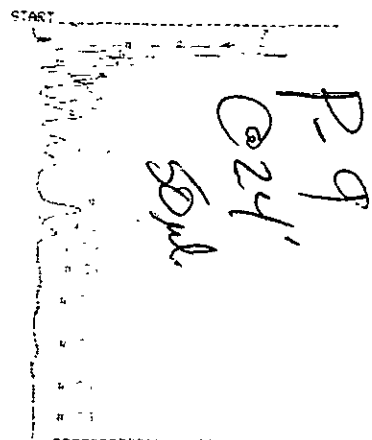
PHOTOVAC



STOP # 800.0  
SAMPLE LIBRARY 2 JUN 22 1989 11:18  
ANALYSIS # 8 MCARTHUR  
INTERNAL TEMP 28 OAKLAND  
GAIN 50 330-40.02

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	3	114.7	387.3 μS
UNKNOWN	6	231.6	5.4 μS

PHOTOVAC

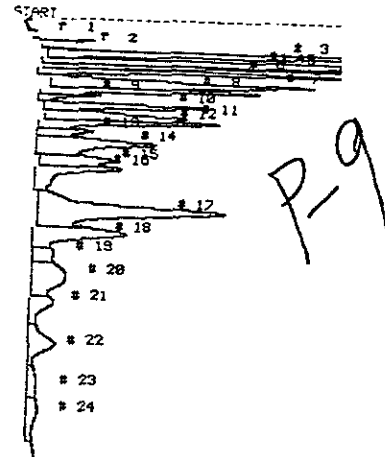


STOP # 843.3  
SAMPLE LIBRARY 2 JUN 22 1989 12:45  
ANALYSIS # 14 MCARTHUR  
INTERNAL TEMP 31 OAKLAND  
GAIN 2 330-40.02

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	2	31.9	1.9 μS
UNKNOWN	3	34.2	1.4 μS
UNKNOWN	4	47.1	2.5 μS
UNKNOWN	5	50.3	1.6 μS
UNKNOWN	6	55.3	943.8 μS
UNKNOWN	7	64.9	1.0 μS
UNKNOWN	8	85.3	1.8 μS
UNKNOWN	9	96.1	881.7 μS
UNKNOWN	11	122.8	831.2 μS
UNKNOWN	12	140.8	339.7 μS
UNKNOWN	13	148.4	1.0 μS
UNKNOWN	14	166.2	288.3 μS
UNKNOWN	15	185.2	841.0 μS
UNKNOWN	16	213.0	234.3 μS
UNKNOWN	17	226.2	384.3 μS
UNKNOWN	18	236.3	2.6 μS
UNKNOWN	19	333.1	1.0 μS
UNKNOWN	21	402.5	389.2 μS
UNKNOWN	23	517.4	348.0 μS

P-9 Soul  
@ 24

PHOTOVAC

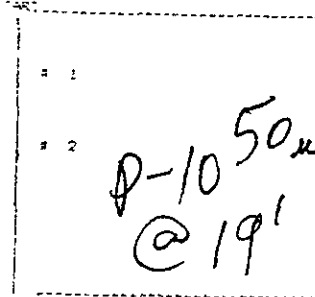


STOP # 661.4  
SAMPLE LIBRARY 2 JUN 22 1989 13:28  
ANALYSIS # 23 MCARTHUR  
INTERNAL TEMP 32 OAKLAND  
GAIN 18 330-40.02

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	2	26.0	611.4 μS
UNKNOWN	3	32.5	17.0 μS
UNKNOWN	4	46.8	18.0 μS
UNKNOWN	5	53.1	4.3 μS
UNKNOWN	6	62.0	6.0 μS
UNKNOWN	7	81.7	9.4 μS
UNKNOWN	8	92.8	4.6 μS
UNKNOWN	9	101.5	1.2 μS
UNKNOWN	10	117.7	4.2 μS
UNKNOWN	11	135.6	4.6 μS
UNKNOWN	12	142.8	5.1 μS
UNKNOWN	13	158.8	1.7 μS
UNKNOWN	14	178.2	6.4 μS
UNKNOWN	15	205.8	3.3 μS
UNKNOWN	16	217.2	4.3 μS
UNKNOWN	17	284.3	13.4 μS
UNKNOWN	18	319.6	6.1 μS
UNKNOWN	19	352.0	1.3 μS
UNKNOWN	20	387.2	4.8 μS
UNKNOWN	21	428.9	2.1 μS
UNKNOWN	22	486.6	2.9 μS
UNKNOWN	23	558.3	1.2 μS
UNKNOWN	24	601.5	1.9 μS

PROBE P-9

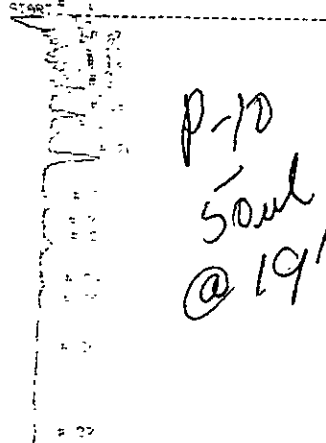
PHOTOVAC



STOP # 435.1  
SAMPLE LIBRARY 2 JUN 22 1989 12: 2  
ANALYSIS # 11 MCARTHUR  
INTERNAL TEMP 30 OAKLAND  
GAIN 2 330-40.02

COMPOUND NAME PEAK R.T. AREA/PPM

PHOTOVAC

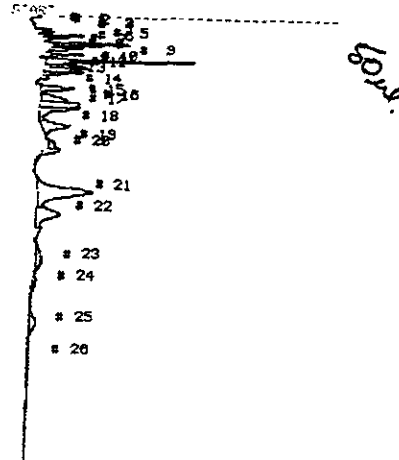


STOP # 659.5  
SAMPLE LIBRARY 2 JUN 22 1989 12:15  
ANALYSIS # 12 MCARTHUR  
INTERNAL TEMP 30 OAKLAND  
GAIN 50 330-40.02

COMPOUND NAME PEAK R.T. AREA/PPM

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	2	23.8	126.8 mUS
UNKNOWN	4	35.2	107.0 mUS
UNKNOWN	6	48.1	286.7 mUS
UNKNOWN	9	66.3	121.0 mUS
UNKNOWN	10	76.3	209.6 mUS
UNKNOWN	11	86.8	111.1 mUS
UNKNOWN	12	91.6	145.7 mUS
UNKNOWN	13	99.1	302.8 mUS
UNKNOWN	15	114.7	365.5 mUS
UNKNOWN	16	124.0	359.5 mUS
UNKNOWN	18	159.2	951.5 mUS
UNKNOWN	19	188.7	216.9 mUS
UNKNOWN	20	226.2	1.8 US
UNKNOWN	21	300.3	471.4 mUS
UNKNOWN	23	363.2	429.3 mUS
UNKNOWN	24	426.7	247.5 mUS

PHOTOVAC



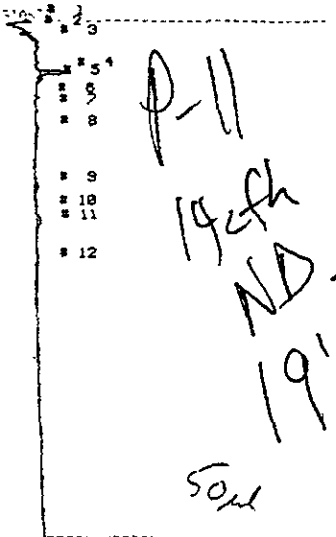
STOP # 712.4  
SAMPLE LIBRARY 2 JUN 22 1989 13:34  
ANALYSIS # 24 MCARTHUR  
INTERNAL TEMP 32 OAKLAND  
GAIN 20 330-40.02

COMPOUND NAME PEAK R.T. AREA/PPM

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	3	30.2	262.5 mUS
UNKNOWN	4	32.6	138.7 mUS
UNKNOWN	5	44.5	728.5 mUS
UNKNOWN	6	47.9	467.1 mUS
UNKNOWN	7	52.3	305.9 mUS
UNKNOWN	8	61.3	339.2 mUS
UNKNOWN	9	70.7	1.8 US
UNKNOWN	10	79.3	585.2 mUS
UNKNOWN	11	84.1	614.3 mUS
UNKNOWN	12	90.1	684.1 mUS
UNKNOWN	13	98.8	104.9 mUS
UNKNOWN	14	114.7	741.8 mUS
UNKNOWN	15	132.8	816.4 mUS
UNKNOWN	16	140.8	957.4 mUS
UNKNOWN	17	146.0	1.0 US
UNKNOWN	18	174.2	1.0 US
UNKNOWN	19	202.2	268.5 mUS
UNKNOWN	20	212.4	405.3 mUS
UNKNOWN	21	276.0	3.3 US
UNKNOWN	22	311.3	1.4 US
UNKNOWN	23	386.2	552.2 mUS
UNKNOWN	25	486.2	439.7 mUS

PROBE P-10

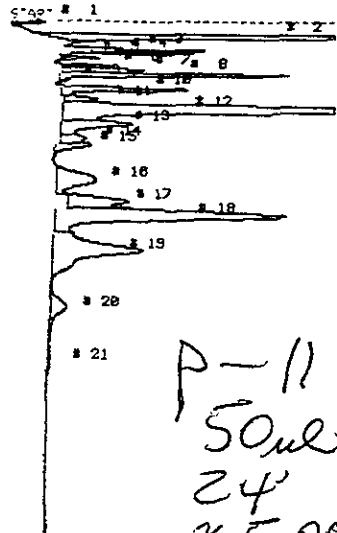
PHOTOVAC



STOP # 800.0  
 SAMPLE LIBRARY 2 JUN 22 1989 14: 6  
 ANALYSIS # 28 MCARTHUR  
 INTERNAL TEMP 33 OAKLAND  
 GAIN 50 330-40.02

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	4	84.4	391.5 μS
UNKNOWN	9	261.9	101.2 μS
UNKNOWN	11	318.7	163.5 μS

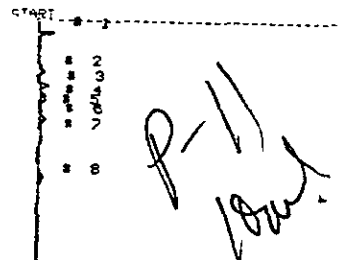
PHOTOVAC



STOP # 800.0  
 SAMPLE LIBRARY 2 JUN 22 1989 14:48  
 ANALYSIS # 28 MCARTHUR  
 INTERNAL TEMP 33 OAKLAND  
 GAIN 50 330-40.02

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	2	23.2	12.4 US
UNKNOWN	3	46.7	1.6 US
UNKNOWN	4	58.9	1.0 US
UNKNOWN	5	58.1	377.1 μS
UNKNOWN	6	71.7	678.6 μS
UNKNOWN	7	77.3	1.4 US
UNKNOWN	8	85.0	5.9 US
UNKNOWN	10	108.1	2.5 US
UNKNOWN	11	124.8	872.7 μS
UNKNOWN	12	136.9	31.9 US
UNKNOWN	13	162.7	3.8 US
UNKNOWN	14	186.7	948.9 μS
UNKNOWN	15	187.7	878.3 μS
UNKNOWN	16	253.5	3.2 US
UNKNOWN	17	286.7	3.3 US
UNKNOWN	18	307.5	12.1 μS
UNKNOWN	19	365.2	7.8 μS
UNKNOWN	20	453.2	1.2 US
UNKNOWN	21	536.9	152.7 μS

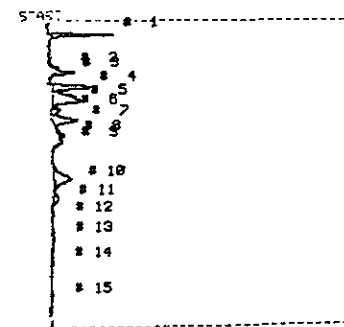
PHOTOVAC



STOP # 374.9  
 SAMPLE LIBRARY 2 JUN 22 1989 14:55  
 ANALYSIS # 29 MCARTHUR  
 INTERNAL TEMP 34 OAKLAND  
 GAIN 2 330-40.02

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	3	102.1	148.5 μS
UNKNOWN	4	127.2	132.3 μS
UNKNOWN	8	253.7	139.8 μS

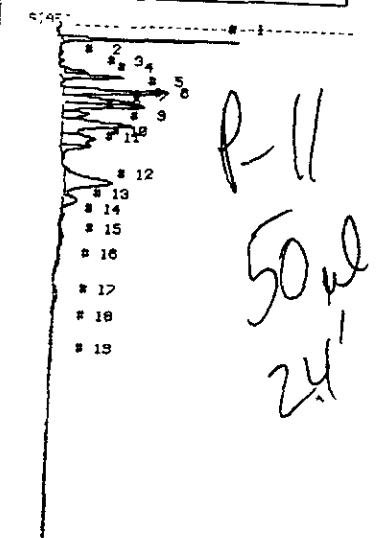
PHOTOVAC



STOP # 466.2  
 SAMPLE LIBRARY 2 JUN 22 1989 15: 4  
 ANALYSIS # 30 MCARTHUR  
 INTERNAL TEMP 34 OAKLAND  
 GAIN 2 330-40.02

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	22.9	517.9 μS
UNKNOWN	3	84.1	219.7 μS
UNKNOWN	4	106.6	826.0 μS
UNKNOWN	5	128.8	1.3 US
UNKNOWN	6	142.8	273.2 μS
UNKNOWN	7	159.2	756.5 μS
UNKNOWN	10	251.4	889.2 μS
UNKNOWN	11	281.9	127.4 μS

PHOTOVAC



STOP # 800.0  
 SAMPLE LIBRARY 2 JUN 22 1989 15:19  
 ANALYSIS # 31 MCARTHUR  
 INTERNAL TEMP 34 OAKLAND  
 GAIN 5 330-40.02

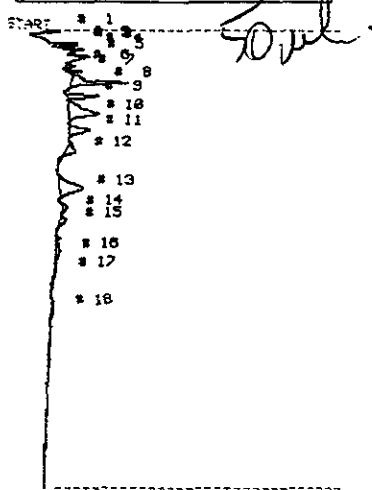
COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	20.8	1.6 US
UNKNOWN	3	73.7	467.1 μS
UNKNOWN	4	81.7	1.0 US
UNKNOWN	5	104.2	2.2 US
UNKNOWN	6	119.6	1.7 US
UNKNOWN	7	126.0	1.9 US
UNKNOWN	8	142.4	768.0 μS
UNKNOWN	9	156.4	2.7 US
UNKNOWN	10	179.7	1.4 US
UNKNOWN	11	189.7	817.1 μS
UNKNOWN	12	247.9	2.8 US
UNKNOWN	13	278.0	626.8 μS
UNKNOWN	15	334.0	211.9 μS
UNKNOWN	17	428.8	180.4 μS

Probe P-11

P-12 19'

PHOTOVAC

50ul

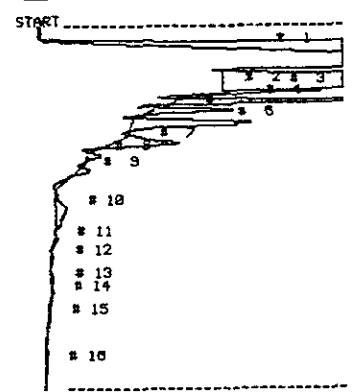


STOP # 728.1  
 SAMPLE LIBRARY 2 JUN 22 1989 16: 5  
 ANALYSIS # 32 MCARTHUR  
 INTERNAL TEMP 33 OAKLAND  
 GAIN 50 330-40.02

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	2	21.7	190.2 μUS
UNKNOWN	3	24.3	125.8 μUS
UNKNOWN	7	56.1	115.8 μUS
UNKNOWN	8	84.4	283.1 μUS
UNKNOWN	9	105.1	822.8 μUS
UNKNOWN	10	134.0	1.2 US
UNKNOWN	11	138.4	532.5 μUS
UNKNOWN	12	191.7	354.2 μUS
UNKNOWN	13	251.4	1.2 US
UNKNOWN	14	280.7	180.3 μUS
UNKNOWN	15	321.9	114.7 μUS
UNKNOWN	16	352.0	247.9 μUS

P-12 24'  
5ul

PHOTOVAC

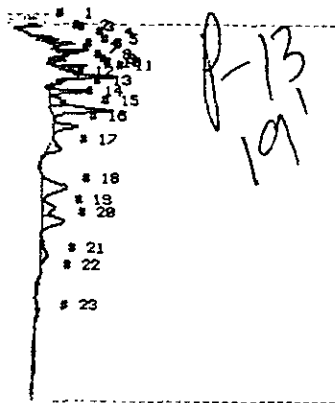


STOP # 561.2  
 SAMPLE LIBRARY 2 JUN 22 1989 18:43  
 ANALYSIS # 43 MCARTHUR  
 INTERNAL TEMP 29 OAKLAND  
 GAIN 2 330-40.02

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	33.4	45.4 US
UNKNOWN	2	88.5	47.1 US
UNKNOWN	3	104.8	1.2 US
UNKNOWN	4	119.9	5.7 US
UNKNOWN	5	134.4	1.8 US
UNKNOWN	6	154.4	3.9 US
UNKNOWN	7	185.7	2.6 US
UNKNOWN	8	204.6	487.2 μUS
UNKNOWN	9	228.0	273.6 μUS
UNKNOWN	10	289.1	1.1 US

Probe P-12

PHOTOVAC

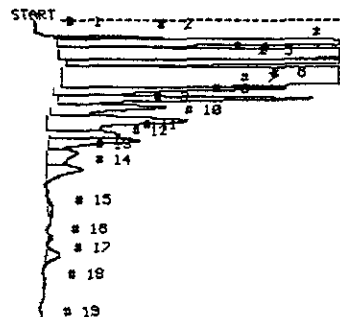


50ul.

STOP # 482.8  
 SAMPLE LIBRARY 2 JUN 22 1989 16:28  
 ANALYSIS # 33 MCARTHUR  
 INTERNAL TEMP 32 OAKLAND  
 GAIN 50 330-40.02

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	2	22.1	144.4 mUS
UNKNOWN	3	24.3	129.0 mUS
UNKNOWN	4	32.4	317.6 mUS
UNKNOWN	5	43.5	207.8 mUS
UNKNOWN	7	59.3	138.8 mUS
UNKNOWN	8	67.3	292.1 mUS
UNKNOWN	11	85.3	370.1 mUS
UNKNOWN	13	102.7	625.7 mUS
UNKNOWN	14	125.2	324.0 mUS
UNKNOWN	15	139.2	1.2 mUS
UNKNOWN	16	154.1	414.1 mUS
UNKNOWN	17	175.7	420.1 mUS
UNKNOWN	18	202.3	1.6 mUS
UNKNOWN	19	212.3	555.1 mUS
UNKNOWN	20	243.1	1.4 mUS
UNKNOWN	21	265.2	405.8 mUS
UNKNOWN	22	311.2	171.1 mUS

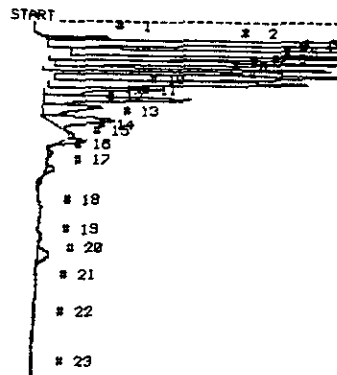
PHOTOVAC



STOP # 480.8  
 SAMPLE LIBRARY 2 JUN 22 1989 20:0  
 ANALYSIS # 48 MCARTHUR  
 INTERNAL TEMP 27 OAKLAND  
 GAIN 2 330-40.02

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	2	27.4	1.1 US
UNKNOWN	3	34.3	20.1 US
UNKNOWN	4	52.5	44.0 US
UNKNOWN	5	65.7	8.6 US
UNKNOWN	6	87.5	134.3 US
UNKNOWN	7	107.8	5.9 US
UNKNOWN	8	124.8	7.1 US
UNKNOWN	9	138.0	4.1 US
UNKNOWN	10	158.4	6.9 US
UNKNOWN	11	181.7	2.1 US
UNKNOWN	12	190.7	3.3 US
UNKNOWN	13	218.8	1.8 US
UNKNOWN	14	235.8	1.8 US
UNKNOWN	15	287.1	345.8 mUS
UNKNOWN	16	344.8	123.0 mUS
UNKNOWN	17	373.2	663.8 mUS

PHOTOVAC

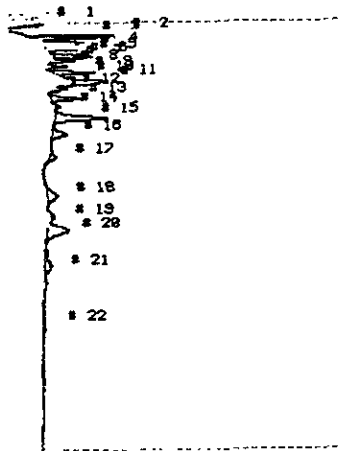


STOP # 591.8  
 SAMPLE LIBRARY 2 JUN 22 1989 20:12  
 ANALYSIS # 49 MCARTHUR  
 INTERNAL TEMP 27 OAKLAND  
 GAIN 2 330-40.02

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	26.8	598.9 mUS
UNKNOWN	2	33.7	13.7 US
UNKNOWN	3	48.8	17.4 US
UNKNOWN	4	55.8	5.6 US
UNKNOWN	5	65.2	6.9 US
UNKNOWN	6	75.9	4.4 US
UNKNOWN	7	80.5	1.7 US
UNKNOWN	8	85.9	8.5 US
UNKNOWN	9	98.2	6.1 US
UNKNOWN	10	107.5	3.0 US
UNKNOWN	11	124.4	3.7 US
UNKNOWN	12	137.8	2.0 US
UNKNOWN	13	158.4	2.4 US
UNKNOWN	14	181.2	186.4 mUS
UNKNOWN	15	190.7	595.2 mUS
UNKNOWN	16	210.6	138.3 mUS
UNKNOWN	17	235.8	276.7 mUS
UNKNOWN	20	372.2	581.7 mUS

PROBE P-13

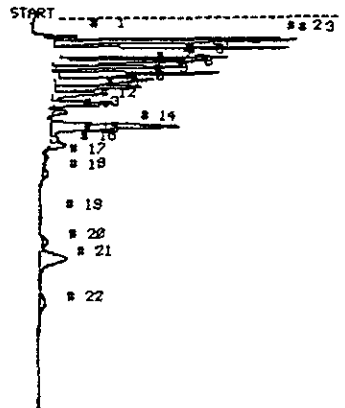
P-14  
19' 50ml  
PHOTOVAC



STOP @ 652.5  
SAMPLE LIBRARY 2 JUN 22 1989 16:53  
ANALYSIS # 35 MCARTHUR  
INTERNAL TEMP 32 OAKLAND  
GAIN 58 330-40.02

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	2	21.5	392.7 μS
UNKNOWN	3	25.4	182.6 μS
UNKNOWN	4	33.1	456.4 μS
UNKNOWN	5	44.7	763.9 μS
UNKNOWN	7	48.1	268.0 μS
UNKNOWN	7	52.3	210.4 μS
UNKNOWN	8	63.3	176.2 μS
UNKNOWN	9	63.2	125.5 μS
UNKNOWN	11	81.4	619.0 μS
UNKNOWN	12	110.3	426.2 μS
UNKNOWN	14	125.6	110.3 μS
UNKNOWN	15	142.2	1.1 μS
UNKNOWN	15	157.7	364.4 μS
UNKNOWN	17	173.1	152.5 μS
UNKNOWN	18	265.4	563.3 μS
UNKNOWN	19	322.1	272.3 μS
UNKNOWN	20	343.9	328.1 μS
UNKNOWN	21	371.2	1.4 μS
UNKNOWN	22	448.8	307.9 μS

P-14  
@ 24' 50ml  
PHOTOVAC



STOP @ 601.1  
SAMPLE LIBRARY 2 JUN 22 1989 19:30  
ANALYSIS # 46 MCARTHUR  
INTERNAL TEMP 28 OAKLAND  
GAIN 2 330-40.02

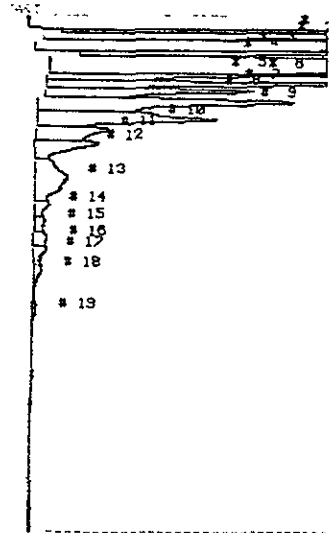
COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	27.9	220.8 μS
UNKNOWN	2	33.3	1.9 μS
UNKNOWN	3	36.8	3.4 μS
UNKNOWN	4	48.9	2.8 μS
UNKNOWN	5	52.5	1.7 μS
UNKNOWN	6	57.9	2.5 μS
UNKNOWN	7	67.3	1.9 μS
UNKNOWN	8	77.5	2.9 μS
UNKNOWN	9	67.4	2.6 μS
UNKNOWN	10	99.4	1.9 μS
UNKNOWN	11	109.0	1.0 μS
UNKNOWN	12	125.6	1.1 μS
UNKNOWN	13	138.8	289.8 μS
UNKNOWN	14	162.2	3.7 μS
UNKNOWN	15	181.7	238.6 μS
UNKNOWN	16	191.7	465.0 μS
UNKNOWN	18	235.8	144.9 μS
UNKNOWN	20	343.9	328.1 μS
UNKNOWN	21	371.2	1.4 μS
UNKNOWN	22	448.8	307.9 μS

Probe P-14



Probe P-15 19'

PHOTOVAC

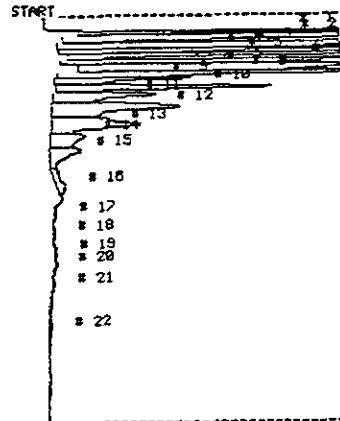


STOP @ 800.0  
 SAMPLE LIBRARY 2 JUN 22 1989 17:13  
 ANALYSIS # 36 MCARTHUR  
 INTERNAL TEMP 31 OAKLAND  
 GAIN 5 330-40.02

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.5	6.8 US
UNKNOWN	2	32.8	12.4 US
UNKNOWN	3	47.8	24.1 US
UNKNOWN	4	52.9	7.4 US
UNKNOWN	5	61.5	49.1 US
UNKNOWN	6	70.8	5.9 US
UNKNOWN	7	80.8	11.0 US
UNKNOWN	8	89.9	7.8 US
UNKNOWN	9	99.4	3.1 US
UNKNOWN	10	114.1	4.9 US
UNKNOWN	11	125.8	3.3 US
UNKNOWN	12	145.2	5.9 US
UNKNOWN	13	174.2	4.5 US
UNKNOWN	14	191.2	1.9 US
UNKNOWN	15	214.2	1.7 US
UNKNOWN	16	269.8	849.7 #US

P-15 5ul @ 19'

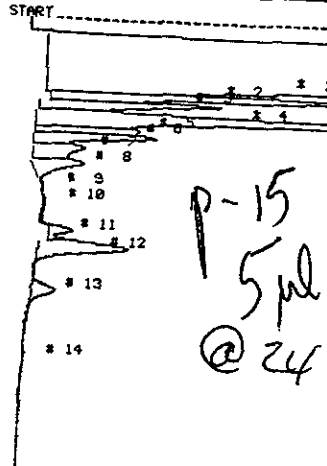
PHOTOVAC



STOP @ 829.4  
 SAMPLE LIBRARY 2 JUN 22 1989 17:33  
 ANALYSIS # 39 MCARTHUR  
 INTERNAL TEMP 31 OAKLAND  
 GAIN 5 330-40.02

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	26.4	3.6 US
UNKNOWN	2	30.1	15.3 US
UNKNOWN	3	46.8	16.2 US
UNKNOWN	4	52.9	4.3 US
UNKNOWN	5	61.5	7.0 US
UNKNOWN	6	70.8	7.5 US
UNKNOWN	7	80.8	11.0 US
UNKNOWN	8	89.9	7.8 US
UNKNOWN	9	99.4	3.1 US
UNKNOWN	10	114.1	4.9 US
UNKNOWN	11	125.8	3.3 US
UNKNOWN	12	145.2	5.9 US
UNKNOWN	13	174.2	4.5 US
UNKNOWN	14	191.2	1.9 US
UNKNOWN	15	214.2	1.7 US
UNKNOWN	16	269.8	849.7 #US

PHOTOVAC

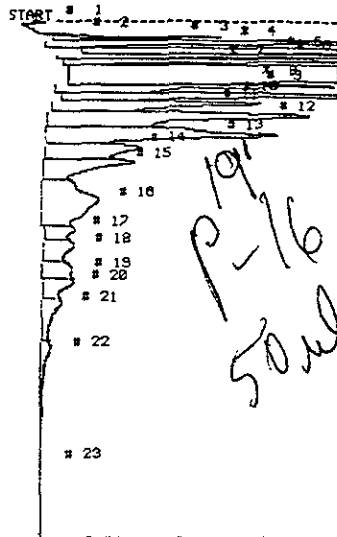


STOP @ 890.4  
 SAMPLE LIBRARY 2 JUN 22 1989 19:08  
 ANALYSIS # 45 MCARTHUR  
 INTERNAL TEMP 29 OAKLAND  
 GAIN 2 330-40.02

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	66.5	1.3 KUS
UNKNOWN	2	120.3	14.1 US
UNKNOWN	3	134.8	6.4 US
UNKNOWN	4	155.8	25.2 US
UNKNOWN	5	178.7	2.7 US
UNKNOWN	6	188.2	4.7 US
UNKNOWN	7	205.8	3.1 US
UNKNOWN	8	230.4	2.7 US
UNKNOWN	10	290.7	196.7 #US
UNKNOWN	11	336.7	1.4 US
UNKNOWN	12	363.2	5.2 US
UNKNOWN	13	431.1	1.0 US
UNKNOWN	14	534.1	118.4 #US

PROBE P-15

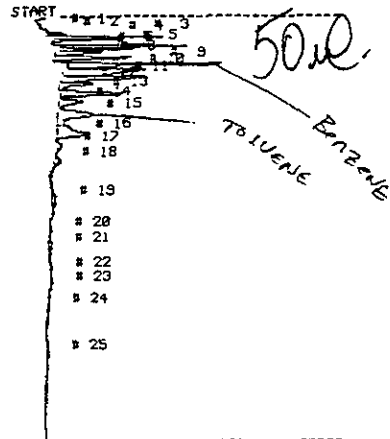
PHOTOVAC



STOP # 800.0  
 SAMPLE LIBRARY 2 JUN 22 1989 18:18  
 ANALYSIS # 41 MCARTHUR  
 INTERNAL TEMP 29 OAKLAND  
 GAIN 50 330-40.02

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	2	22.3	287.2 mUS
UNKNOWN	3	25.9	1.5 US
UNKNOWN	4	32.3	13.8 US
UNKNOWN	5	46.8	17.0 US
UNKNOWN	8	53.9	5.7 US
UNKNOWN	7	62.6	7.9 US
UNKNOWN	8	83.3	153.0 US
UNKNOWN	9	103.0	7.1 US
UNKNOWN	10	117.1	13.1 US
UNKNOWN	11	131.8	7.2 US
UNKNOWN	12	151.2	13.0 US
UNKNOWN	13	181.7	12.3 US
UNKNOWN	14	200.4	5.6 US
UNKNOWN	15	223.8	5.7 US
UNKNOWN	16	283.5	9.0 US
UNKNOWN	17	330.4	2.1 US
UNKNOWN	18	354.7	2.7 US
UNKNOWN	19	393.2	2.2 US
UNKNOWN	20	412.4	2.4 US
UNKNOWN	21	446.0	2.4 US
UNKNOWN	22	516.1	1.3 US

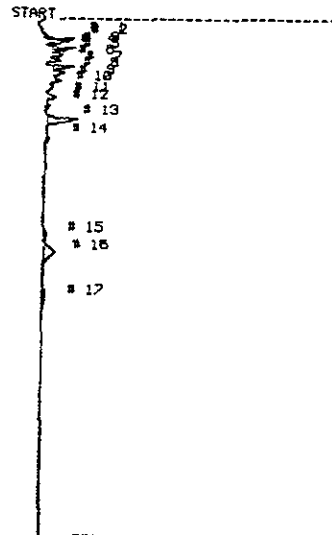
PHOTOVAC



STOP # 855.7  
 SAMPLE LIBRARY 2 JUN 22 1989 18:31  
 ANALYSIS # 42 MCARTHUR  
 INTERNAL TEMP 29 OAKLAND  
 GAIN 10 330-40.02

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	3	32.2	704.0 mUS
UNKNOWN	4	34.8	553.7 mUS
UNKNOWN	5	47.5	1.3 US
UNKNOWN	6	50.9	726.2 mUS
UNKNOWN	7	56.1	718.4 mUS
UNKNOWN	8	65.3	936.2 mUS
UNKNOWN	9	75.3	2.3 US
UNKNOWN	10	85.9	2.1 US
UNKNOWN	11	96.4	1.7 US
UNKNOWN	12	105.7	738.0 mUS
UNKNOWN	13	121.8	1.3 US
UNKNOWN	14	134.8	607.1 mUS
UNKNOWN	15	154.8	1.4 US
UNKNOWN	16	185.7	1.1 US
UNKNOWN	17	205.2	138.2 mUS
UNKNOWN	18	228.0	127.4 mUS
UNKNOWN	19	289.1	249.8 mUS

PHOTOVAC



STOP # 800.0  
 SAMPLE LIBRARY 2 JUN 22 1989 19:09  
 ANALYSIS # 47 MCARTHUR  
 INTERNAL TEMP 27 OAKLAND  
 GAIN 10 330-40.02

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	3	48.3	209.3 mUS
UNKNOWN	4	52.1	126.8 mUS
UNKNOWN	5	57.5	141.0 mUS
UNKNOWN	6	66.7	104.0 mUS
UNKNOWN	7	76.3	334.6 mUS
UNKNOWN	8	86.2	211.5 mUS
UNKNOWN	11	125.2	120.2 mUS
UNKNOWN	13	162.2	747.7 mUS
UNKNOWN	16	371.2	489.4 mUS
UNKNOWN	17	440.0	139.4 mUS

PROBE P16