Versar INC.
ENVIRONMENTAL RISK MANAGEMENT

Versar INC.

44163

PESTICIDE ANALYSIS- WATER/SOILS
ANALYTICAL DATA PACKAGE

CLIENT: VERSAR DIV.31
SITE: CDM
PROJECT: 420.1 B#4
CONTROL: 2565
DATE: 05/22/90

6850 VERSAR CENTER • P.O. BOX 1549 • SPRINGFIELD, VIRGINIA 22151 • TELEPHONE: (703) 750-3000

Versar INC.

ORIGINAL (Red)

I. NARRATIVE

II. QC SUMMARY

Versar INC.

ORIGINAL (Red)

**Pesticide Fraction Analysis Detail**
Client: Versar Div. 31; Camp, Dresser, McGee
Lab Operations Project No. 420.1 B#4
Control 2565 - Water, Soils
May 22, 1990

Please find enclosed the analytical data and calculated results for the analysis of the samples received at Versar on 23 April, 1990. The package contains raw data, calculated and summarized results, as well as any QC samples processed with the sample batch.

All standard and QC data would indicate that the analysis is valid and representative for the samples without further qualification.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager of his designee, as verified by the following signature.

Reza Karimi

Dr. Reza Karimi
Section Chief
Applied Chromatography
Laboratory Operations

Versar INC.

ORIGINAL (Red)

**Pesticide Fraction Analysis Detail**
Client: Versar Div. 31; Camp, Dresser, McGee
Lab Operations Project No. 420.1 B#4
Control 2565 - Water, Soils
May 22, 1990

Please find enclosed the analytical data and calculated results for the analysis of the samples received at Versar on 23 April, 1990. The samples were requested for analysis of full organics including pesticides and PCBs under EPA-CLP protocol. All of the samples were extracted and analyzed within the holding time prescribed in the Statement of Work. By request of the project manager, no QC extraction was performed for this batch of samples. The date of extraction was 26 April and 1 May, 1990, for the following water and soil samples respectively:

**SAMPLES**

| Field ID# | Lab ID# |
|---|---|
| Water | |
| GW1 | 16918 |
| Soil | |
| 4 | 16919 |
| 8 | 16920 |
| 9 | 16921 |
| 10 | 16922 |
| 11 | 16923 |
| 12 | 16924 |
| 13 | 16925 |
| 14 | 16926 |
| 15 | 16927 |

All criteria were adhered to during analysis. All of the calibration standard results were acceptable where required. All data has been reviewed for completeness and validity. Sample 12 contained endrin ketone above the reported detection limit, and sample 15 contained 4,4'-DDE above the reported detection limit. The remaining samples contained no pesticides or PCBs at levels above the reported detection limits.

Sample extracts were analyzed on two different packed column chromatographic systems. The primary analyses were performed with a full set of multicomponent standards to allow for quantitation of tentatively identified results. The primary analysis of these extracts was completed in three analytical sequences, water and low soils on 3%SP2100 and med soils on a mixed phase packed column system. Samples requiring further analysis were analyzed on either the 3%SP2100 or the mixed phase packed column analytical system, different from the quantitation analysis. The confirmation analysis was completed two analytical sequences.

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Linearity criteria were met prior to analysis of calibration standards and sample extracts, although linearity is not required in confirmation.

Degradation checks performed prior to, and at intervals throughout the analysis had results within the contractual limit of 20% for each analytical sequence.

DBC shift was monitored throughout the analytical sequence and remained well within the contract limit of 2.0% for packed column analyses. Where a shift exceeded the 2.0% criteria it was for an unrelated sample extract. Where "ND" was reported on the form8, DBC was not detected.

All standard comparison result qualified data for quantitation of results. The only outlying standards were observed after completion of sample analyses, therefore no reanalyses were required. Where standard comparison results exceeded the prescribed limits, sample analyses were discontinued and a new sequence was initiated. Since no sample analyses were performed after an outlying standard result, no further analyses were required.

The sample preparation section of the report includes sample comments in which each sequence is further detailed. Comments include discussion of each analytical sequence. In addition, sample preparation comments are included which may include discussion of any difficulties encountered during the analysis.

The QC section of the report includes surrogate recoveries and method blank results. Overall, QC for the case demonstrates good extraction efficiency with only three of thirteen recoveries outside the QC window limits. Internal QC included two method standards (MSTD), or spiked reagent blanks. The MSTD3063 for the low soils had only one of seven spike compounds outside the QC window limits. The MSTD3065 for the med soils had none of the seven spike compounds outside of the QC window limits. The MSTD for the water extracts broke during extraction. No qualified identifications, or significant contamination were observed in the laboratory blanks.

If you have any questions regarding the pesticide analyses detailed herein, please feel free to call me at your convenience.

Christopher E. Bunker
Data Quality Analyst
Applied Chromatography
Laboratory Operations

ORIGINAL (Red)

# WATER PESTICIDE SURROGATE RECOVERY

Lab Name: VERSAR Contract: _____

Lab Code: VERSAR Case No.: CTC # 2565 SAS No.: _____ SDG No.: _____

| | EPA SAMPLE NO. | S1 (DBC) # | OTHER |
|---|---|---|---|
| 01 | PBLK61 | 75 | |
| 02 | GW1 | 69 | |
| 03 | | | |
| 04 | | | |
| 05 | | | |
| 06 | | | |
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ADVISORY QC LIMITS (24-154)

S1 (DBC) = Dibutylchlorendate

# Column used to flag recovery values

* Values outside of QC limits

D Surrogates diluted out

page 1 of 1

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ORIGINAL (Red)

# SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: VERSAR, INC Contract: _____

Lab Code: VERSAR Case No.: R3-7 SAS No.: _____ SDG No.: 4

Level: (low/med) LOW

| | EPA SAMPLE NO. | S1 (DBC) # | OTHER |
|---|---|---|---|
| 01 | PBLK00 | 58 | |
| 02 | 8 | 10 * | |
| 03 | 10 | ND0 * | |
| 04 | 12 | 52 | |
| 05 | 13 | 25 | |
| 06 | 14 | 26 | |
| 07 | 15 | 43 | |
| 08 | | | |
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ADVISORY QC LIMITS (20-150)

S1 (DBC) = Dibutylchlorendate

# Column to be used to flag recovery values

* Values outside of QC limits

D Surrogates diluted out



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1/87 Rev

KC
5/21/90

SOIL PESTICIDE SURROGATE RECOVERY

ORIGINAL (Red)

Lab Name: VERSAR, INC Contract: _____

Lab Code: VERSAR Case No.: R3-7 SAS No.: _____ SDG No.: 4

Level: (low/med) MED

| | EPA SAMPLE NO. | S1 (DBC) # | OTHER |
|---|---|---|---|
| 01 | PBLK02 | 98 | |
| 02 | 4 | 79 | |
| 03 | 9 | 72 | |
| 04 | 11 | 175* | |
| 05 | | | |
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ADVISORY QC LIMITS (20-150)

S1 (DBC) = Dibutylchlorendate

# Column to be used to flag recovery values

* Values outside of QC limits

D Surrogates diluted out

page 1 of 1

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PESTICIDE METHOD BLANK SUMMARY

ORIGINAL (Red)

Lab Name: VERSAR, INC Contract: _____

Lab Code: VERSAR Case No.: CTL# 2565 SAS No.: _____ SDG No.: _____

Lab Sample ID: PBLK (a) Lab File ID: _____

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

Date Extracted: 04/26/90 Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed (1): 05/15/90 Date Analyzed (2): _____

Time Analyzed (1): 1713 Time Analyzed (2): _____

Instrument ID (1): C Instrument ID (2): _____

GC Column ID (1): 30mSP2100 GC Column ID (2): _____

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

| | EPA SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED 1 | DATE ANALYZED 2 |
|---|---|---|---|---|
| 01 | GW1 | 16918 | 05/15/90 | |
| 02 | | | | |
| 03 | | | | |
| 04 | | | | |
| 05 | | | | |
| 06 | | | | |
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COMMENTS: _____

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FORM IV PEST

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ORIGINAL (Red)

# PESTICIDE METHOD BLANK SUMMARY

Lab Name: VERSAR, INC Contract: _____

Lab Code: VERSAR Case No.: B3-7 SAS No.: _____ SDG No.: 4

Lab Sample ID: PBLK00 Lab File ID: _____

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

Date Extracted: 05/01/90 Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed (1): 05/18/90 Date Analyzed (2): 05/21/90

Time Analyzed (1): 1308 Time Analyzed (2): 1432

Instrument ID (1): C Instrument ID (2): A

GC Column ID (1): 30SP2100 GC Column ID (2): SP2250/SP2401

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

| | EPA SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED 1 | DATE ANALYZED 2 |
|---|---|---|---|---|
| 01 | 8 | ~~16920~~/16920 | 05/18/90 | 05/21/90 |
| 02 | 10 | ~~16923~~/16922 | 05/18/90 | 05/21/90 |
| 03 | 12 | ~~16924~~/16924 | 05/18/90 | 05/21/90 |
| 04 | 13 | ~~16925~~/16925 | 05/18/90 | 05/21/90 |
| 05 | 14 | ~~16926~~/16926 | 05/18/90 | 05/21/90 |
| 06 | 15 | ~~16927~~/16927 | 05/18/90 | 05/21/90 |
| 07 | | | | |
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COMMENTS: _____



FORM IV PEST

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ORIGINAL (Red)

# PESTICIDE METHOD BLANK SUMMARY

Lab Name: VERSAR, INC Contract: _____

Lab Code: VERSAR Case No.: R3-7 SAS No.: _____ SDG No.: 4

Lab Sample ID: RB8002 Lab File ID: _____

Matrix: (soil/water) SOIL Level: (low/med) MED

Date Extracted: 05-01-90 Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed (1): 05-06-90 Date Analyzed (2): 05-09-90

Time Analyzed (1): 0410 Time Analyzed (2): 0952

Instrument ID (1): A Instrument ID (2): C

GC Column ID (1): SP2250/SP2401 GC Column ID (2): 3% SP2100

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

| | EPA SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED 1 | DATE ANALYZED 2 |
|---|---|---|---|---|
| 01 | 4 | 16909 | 05-06-90 | 05-09-90 |
| 02 | 9 | 16911 | 05-06-90 | 05-09-90 |
| 03 | 11 | 16913 | 05-06-90 | 05-09-90 |
| 04 | | | | |
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COMMENTS: _____



FORM IV PEST 1/87 Rev

100010

5/9/90

Versar INC.

ORIGINAL
(Red)

# III. SAMPLE DATA PACKAGE

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GW1 ORIGINAL (Red)

Lab Name: VERSAR, INC. Contract:

Lab Code: VERSAR Case No.: VERSCDM SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 16918

Sample wt/vol: 1000 (g/ml) ML Lab File ID:

Level: (low/med) LOW Date Received: 04/24/90

% Moisture: not dec. dec. Date Extracted: 04/26/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 05/15/90

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.05 | U |
| 319-85-7 | beta-BHC | 0.05 | U |
| 319-86-8 | delta-BHC | 0.05 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.05 | U |
| 76-44-8 | Heptachlor | 0.05 | U |
| 309-00-2 | Aldrin | 0.05 | U |
| 1024-57-3 | Heptachlor Epoxide | 0.05 | U |
| 959-98-8 | Endosulfan I | 0.05 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin Ketone | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.10 | U |
| 5103-74-2 | gamma-Chlordane | 0.10 | U |
| 8001-35-2 | Toxaphene | 1.0 | U |
| 12674-11-2 | Aroclor-1016 | 0.50 | U |
| 11104-28-2 | Aroclor-1221 | 0.50 | U |
| 11141-16-5 | Aroclor-1232 | 0.50 | U |
| 53469-21-9 | Aroclor-1242 | 0.50 | U |
| 12672-29-6 | Aroclor-1248 | 0.50 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

KC
5/16/90

ORIGINAL
(Red)

PESTICIDE SAMPLE TABLE

EPA SAMPLE NUMBER

GW1

VERSAR# 16918

MATRIX IS: WATER

Lab Name: VERSAR, INC.

Lab Code: VERSAR

Instrument ID: C

Run Date: 05/15/90

Inject Vol 2.00 (uL)

Case No.: VERSCOM #2565

Contract:

SAS No.:

GC Column ID: 3% SP2100

Window Width: 1.0%

| COMPOUND | RT WINDOW FROM | RT WINDOW TO | SAMPLE RT | SAMPLE AREA | / CALIB FACTOR = | NG INJECTED | / INJECT VOLUME (uL) | = INJECT CONC (ug/ml) | X DF | = SAMPLE CONC (ug/L) | DETECTION LIMIT (ug/L) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 1.82 | 1.86 | 0.00 | 0 | 188290 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 0.05 | |
| beta-BHC | 1.95 | 1.99 | 0.00 | 0 | 86215 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 0.05 | |
| delta-BHC | 2.21 | 2.26 | 0.00 | 0 | 201835 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 0.05 | |
| gamma-BHC | 2.15 | 2.19 | 0.00 | 0 | 216520 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 0.05 | |
| Heptachlor | 3.48 | 3.55 | 0.00 | 0 | 185445 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 0.05 | |
| Aldrin | 4.32 | 4.41 | 0.00 | 0 | 249155 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 0.05 | |
| Hept. epoxide | 5.29 | 5.39 | 0.00 | 0 | 249250 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 0.05 | |
| Endosulfan I | 6.60 | 6.73 | 0.00 | 0 | 238750 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 0.05 | |
| Dieldrin | 7.73 | 7.89 | 0.00 | 0 | 262140 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 0.10 | |
| 4,4'-DDE | 7.70 | 7.86 | 0.00 | 0 | 204980 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 0.10 | |
| Endrin | 8.62 | 8.80 | 0.00 | 0 | 157800 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 0.10 | |
| Endosulfan II | 8.84 | 9.02 | 0.00 | 0 | 232690 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 0.10 | |
| 4,4'-DDD | 9.73 | 9.93 | 0.00 | 0 | 169935 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 0.10 | |
| Endo.sulfate | 11.37 | 11.60 | 0.00 | 0 | 135705 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 0.10 | |
| 4,4'DDT | 12.79 | 13.05 | 0.00 | 0 | 178740 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 0.10 | |
| Methoxychlor | 13.15 | 13.54 | 0.00 | 0 | 67715 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 0.50 | |
| Endrin ketone | 14.64 | 14.94 | 0.00 | 0 | 237255 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 0.10 | |
| a. Chlordane | 6.72 | 6.85 | 0.00 | 0 | 218920 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 0.10 | |
| g. Chlordane | 6.05 | 6.18 | 0.00 | 0 | 215035 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 0.10 | |
| Toxaphene | 10.92 | 11.14 | 0.00 | 0 | 143890 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 1.00 | |
| Aroclor-1016 | 3.83 | 3.91 | 0.00 | 0 | 46350 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 0.50 | |
| Aroclor-1221 | 1.84 | 1.88 | 0.00 | 0 | 3329 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 0.50 | |
| Aroclor-1232 | 3.21 | 3.27 | 0.00 | 0 | 13030 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 0.50 | |
| Aroclor-1242 | 4.53 | 4.63 | 0.00 | 0 | 41367 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 0.50 | |
| Aroclor-1248 | 7.54 | 7.70 | 0.00 | 0 | 58403 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 0.50 | |
| Aroclor-1254 | 9.53 | 9.73 | 0.00 | 0 | 110551 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 1.00 | |
| Aroclor-1260 | 13.21 | 13.47 | 0.00 | 0 | 145689 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 1.00 | |
| DBC | 26.33 | 26.86 | 26.56 | 31375 | 245425 | 0.128 | 2.00 | 0.064 | 10.00 | 0.64 | 0.10 | HIT |

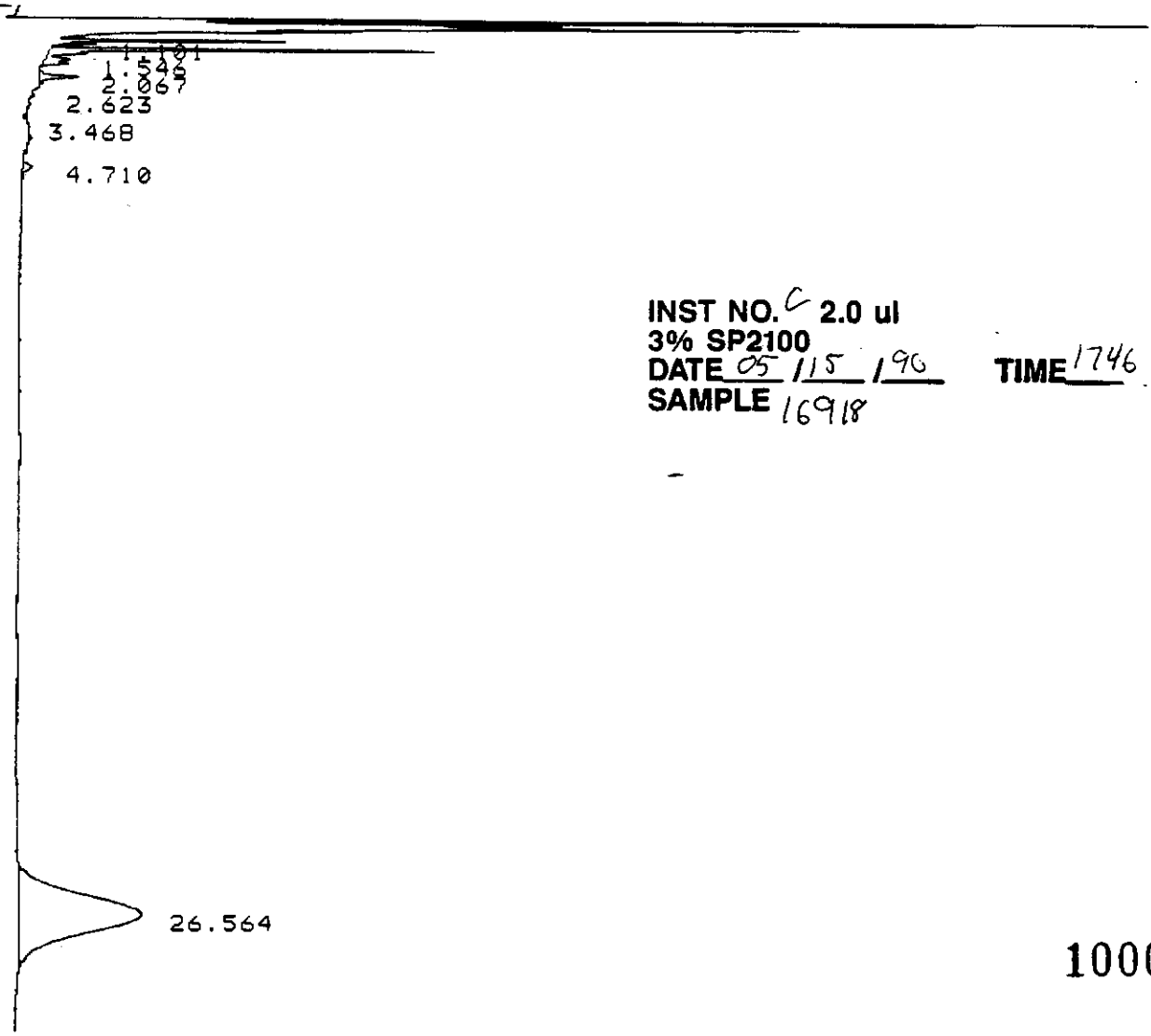
KC

100013

16-May-90

ORIGINAL
(Red)

CHART SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%




INST NO. C 2.0 ul
3% SP2100
DATE 05 / 15 / 90 TIME 1746
SAMPLE 16918

100014

ORIGINAL
(Red)

TIT L: CLP PESTICIDES 17:46 15 MAY 90

CHANNEL NO: 2 SAMPLE: 16918 METHOD: CLP-2A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | | 5055 | 1.254 | | 5055 | VV | 3.45 |
| 2 | ~~G-BHC~~ | 839 | 2.067 | -0.093 | 839 | BV | 5.95 |
| 3 | DBC | 31375 | 26.564 | 0.034 | 31375 | BB | ? 66.85 |
| TOTALS: | | 37269 | | -0.059 | 37269 | | |

DETECTED PKS: 12 REJECTED PKS: 9

DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 4.9 OFFSET: -8

K: 2 VIAL: 4 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
VERSCDM B.4 CTL2565 CLP PEST WATER

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

8 ORIGINAL (Red)

Lab Name: VERSAR, INC. Contract: _

Lab Code: VERSAR Case No.: R3-7 SAS No.: SDG No.: 4

Matrix: (soil/water) SOIL Lab Sample ID: 16920

Sample wt/vol: 30 (g/ml) G Lab File ID: ____

Level: (low/med) LOW Date Received: 04/23/90

% Moisture: not dec. 38 dec. _____ Date Extracted: 05/01/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/18/90

Cleanup: (Y/N) Y pH: 7.3 Dilution Factor: 1.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 13 | U |
| 319-85-7 | beta-BHC | 13 | U |
| 319-86-8 | delta-BHC | 13 | U |
| 58-89-9 | gamma-BHC (Lindane) | 13 | U |
| 76-44-8 | Heptachlor | 13 | U |
| 309-00-2 | Aldrin | 13 | U |
| 1024-57-3 | Heptachlor Epoxide | 13 | U |
| 959-98-8 | Endosulfan I | 13 | U |
| 60-57-1 | Dieldrin | 26 | U |
| 72-55-9 | 4,4'-DDE | 26 | U |
| 72-20-8 | Endrin | 26 | U |
| 33213-65-9 | Endosulfan II | 26 | U |
| 72-54-8 | 4,4'-DDD | 26 | U |
| 1031-07-8 | Endosulfan Sulfate | 26 | U |
| 50-29-3 | 4,4'-DDT | 26 | U |
| 72-43-5 | Methoxychlor | 130 | U |
| 53494-70-5 | Endrin Ketone | 26 | U |
| 5103-71-9 | alpha-Chlordane | 26 | U |
| 5103-74-2 | gamma-Chlordane | 26 | U |
| 8001-35-2 | Toxaphene | 260 | U |
| 12674-11-2 | Aroclor-1016 | 130 | U |
| 11104-28-2 | Aroclor-1221 | 130 | U |
| 11141-16-5 | Aroclor-1232 | 130 | U |
| 53469-21-9 | Aroclor-1242 | 130 | U |
| 12672-29-6 | Aroclor-1248 | 130 | U |
| 11097-69-1 | Aroclor-1254 | 260 | U |
| 11096-82-5 | Aroclor-1260 | 260 | U |

cf 05/21/90

100018

FORM I PEST 1/87 Rev.

ORIGINAL
(Red)

PESTICIDE SAMPLE TABLE

EPA SAMPLE NUMBER

8

VERSAR# ~~16910~~/16920

MATRIX IS: SOIL

Lab Name: VERSAR, INC. Case No.: R3-7

Lab Code: VERSAR Contract:

Instrument ID: C SAS No.:

Run Date: 05/18/90 GC Column ID: 3% SP2100

Inject Vol 2.00 (uL) Window Width: 1.0%

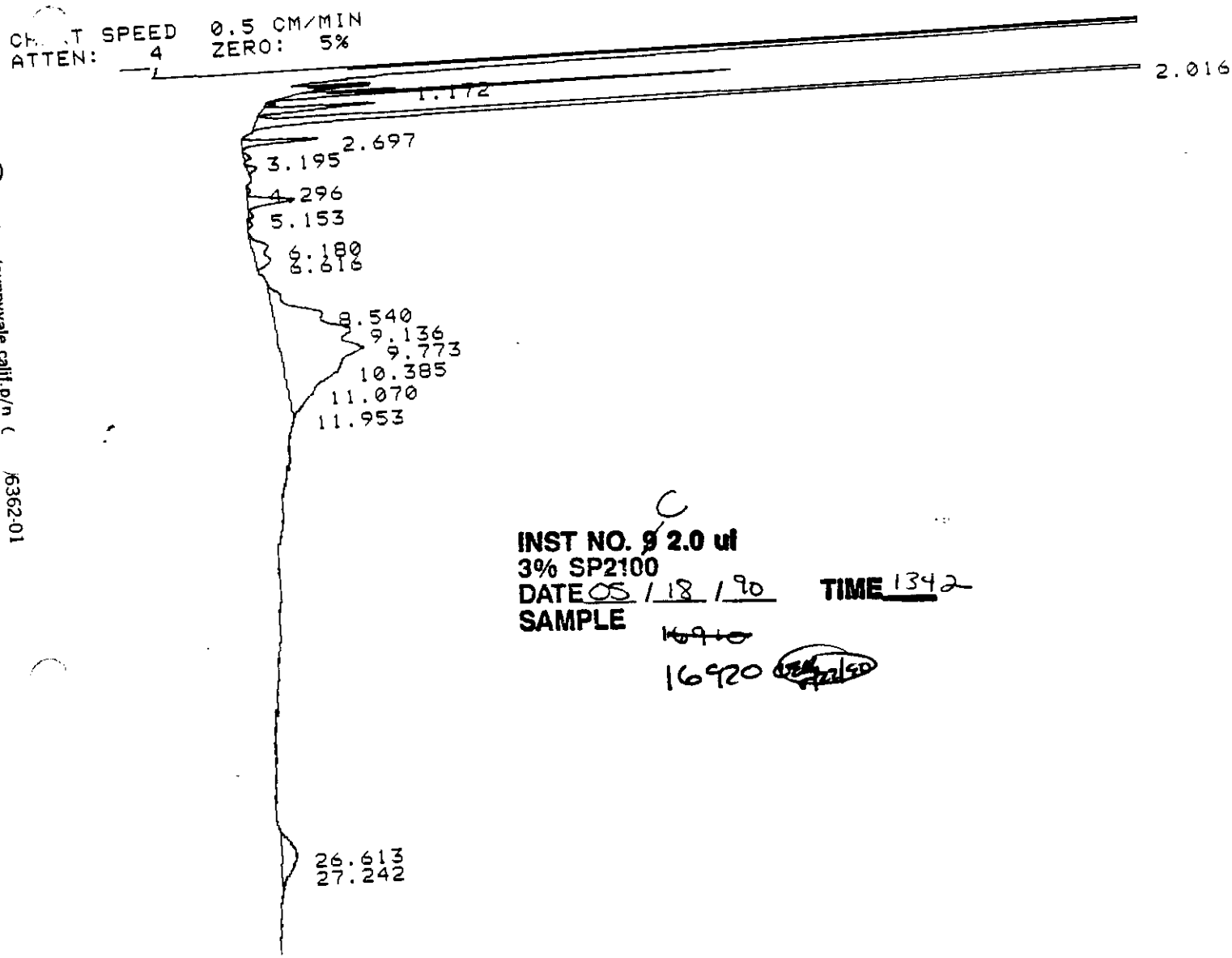
| COMPOUND | RT WINDOW FROM | RT WINDOW TO | SAMPLE RT | SAMPLE AREA | / CALIB FACTOR = | NG INJECTED | / INJECT VOLUME (uL) | = INJECT CONC (ug/ml) | X DF | = SAMPLE CONC (ug/kg) | DETECTION LIMIT (ug/kg) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 1.84 | 1.88 | 0.00 | 0 | 182880 | 0.000 | 2.00 | 0.000 | 2563.26 | 0.00 | 12.82 | |
| beta-BHC | 1.97 | 2.01 | *2.02 | 43943 | 75830 | 0.579 | 2.00 | 0.290 | 2563.26 | 742.70 | 12.82 | HIT |
| delta-BHC | 2.24 | 2.28 | 0.00 | 0 | 163995 | 0.000 | 2.00 | 0.000 | 2563.26 | 0.00 | 12.82 | |
| gamma-BHC | 2.17 | 2.22 | 0.00 | 0 | 184770 | 0.000 | 2.00 | 0.000 | 2563.26 | 0.00 | 12.82 | |
| Heptachlor | 3.52 | 3.59 | 0.00 | 0 | 175010 | 0.000 | 2.00 | 0.000 | 2563.26 | 0.00 | 12.82 | |
| Aldrin | 4.37 | 4.46 | 0.00 | 0 | 205830 | 0.000 | 2.00 | 0.000 | 2563.26 | 0.00 | 12.82 | |
| Hept. epoxide | 5.35 | 5.46 | 0.00 | 0 | 202165 | 0.000 | 2.00 | 0.000 | 2563.26 | 0.00 | 12.82 | |
| Endosulfan I | 6.68 | 6.81 | 0.00 | 0 | 192000 | 0.000 | 2.00 | 0.000 | 2563.26 | 0.00 | 12.82 | |
| Dieldrin | 7.82 | 7.98 | 0.00 | 0 | 214295 | 0.000 | 2.00 | 0.000 | 2563.26 | 0.00 | 25.63 | |
| 4,4'-DDE | 7.81 | 7.97 | 0.00 | 0 | 164995 | 0.000 | 2.00 | 0.000 | 2563.26 | 0.00 | 25.63 | |
| Endrin | 8.73 | 8.91 | 0.00 | 0 | 150735 | 0.000 | 2.00 | 0.000 | 2563.26 | 0.00 | 25.63 | |
| Endosulfan II | 8.94 | 9.12 | 0.00 | 0 | 183020 | 0.000 | 2.00 | 0.000 | 2563.26 | 0.00 | 25.63 | |
| 4,4'-DDD | 9.86 | 10.06 | 0.00 | 0 | 129995 | 0.000 | 2.00 | 0.000 | 2563.26 | 0.00 | 25.63 | |
| Endo.sulfate | 11.51 | 11.74 | 0.00 | 0 | 112700 | 0.000 | 2.00 | 0.000 | 2563.26 | 0.00 | 25.63 | |
| 4,4'DDT | 12.97 | 13.24 | 0.00 | 0 | 120365 | 0.000 | 2.00 | 0.000 | 2563.26 | 0.00 | 25.63 | |
| Methoxychlor | 13.42 | 13.81 | 0.00 | 0 | 53155 | 0.000 | 2.00 | 0.000 | 2563.26 | 0.00 | 128.16 | |
| Endrin ketone | 14.82 | 15.12 | 0.00 | 0 | 174150 | 0.000 | 2.00 | 0.000 | 2563.26 | 0.00 | 25.63 | |
| a. Chlordane | 6.81 | 6.94 | 0.00 | 0 | 171660 | 0.000 | 2.00 | 0.000 | 2563.26 | 0.00 | 25.63 | |
| g. Chlordane | 6.13 | 6.26 | 6.18 | 1302 | 178215 | 0.007 | 2.00 | 0.004 | 2563.26 | 9.36 | 25.63 | BDL |
| Toxaphene | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 2563.26 | 0.00 | 256.33 | |
| Aroclor-1016 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 2563.26 | 0.00 | 128.16 | |
| Aroclor-1221 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 2563.26 | 0.00 | 128.16 | |
| Aroclor-1232 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 2563.26 | 0.00 | 128.16 | |
| Aroclor-1242 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 2563.26 | 0.00 | 128.16 | |
| Aroclor-1248 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 2563.26 | 0.00 | 128.16 | |
| Aroclor-1254 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 2563.26 | 0.00 | 256.33 | |
| Aroclor-1260 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 2563.26 | 0.00 | 256.33 | |
| DBC | 26.72 | 27.25 | *26.65 | 2960 | 152885 | 0.019 | 2.00 | 0.010 | 2563.26 | 24.81 | 25.63 | BDL |

FALSE ID

KC 05/21/90

100017

ORIGINAL
(Red)




INST NO. ~~9~~ C 2.0 ul
3% SP2100
DATE 05 / 18 / 90 TIME 1342
SAMPLE ~~16910~~
16920

varian /sunnyvale, calif.p/n ( /6362-01

100018

TITLE: CLP PESTICIDES 13:42 18 MAY 90

ORIGINAL (Red)

CHANNEL NO: 2 SAMPLE: 1691~~0~~ 20 METHOD: CLP-2A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| | | 1104 | 1.172 | | 1104 | BV | | 2.60 |
| 2 | | 6399 | 1.263 | | 6399 | VB | | 3.25 |
| 3 | | 3360 | 1.611 | | 3360 | VV | | 6.90 |
| 4 | B-BHC | 43943 | 2.016 | 0.026 | 43943 | VB | | 5.20 |
| 5 | | 2299 | 2.697 | | 2299 | BV | | 6.75 |
| 6 | | 2560 | 4.677 | | 2560 | VV | | 12.70 |
| 7 | G-CHLORDAN | 1302 | 6.180 | -0.020 | 1302 | VV | ? | 9.20 |
| 8 | A-ENDOSULF | 1412 | 6.616 | -0.134 | 1412 | VB | ? | 9.20 |
| 9 | ENDRIN | 6240 | 8.540 | -0.280 | 6240 | BV | ? | 11.70 |
| 10 | B-ENDOSULF | 10167 | 9.136 | 0.106 | 10167 | VV | ? | 10.40 |
| 11 | DDD | 15930 | 9.773 | -0.187 | 15930 | VV | ? | 12.00 |
| 12 | ENDRIN ALD | 6657 | 10.385 | 0.415 | 6657 | VV | ? | |
| 13 | ESS | 2893 | 11.070 | -0.560 | 2893 | VV | ? | 92.80 |
| 14 | | 1995 | 26.613 | | 1995 | BV | ? | 7.70 |
| 15 | DBC 2960 | < 965 | 26.704 / 26.658 | -0.286 | 965 | VV | ? | |
| TOTALS: | | 107226 | | -0.920 | 107226 | | | |

DETECTED PKS: 25 REJECTED PKS: 10

DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 7.3 OFFSET: -8

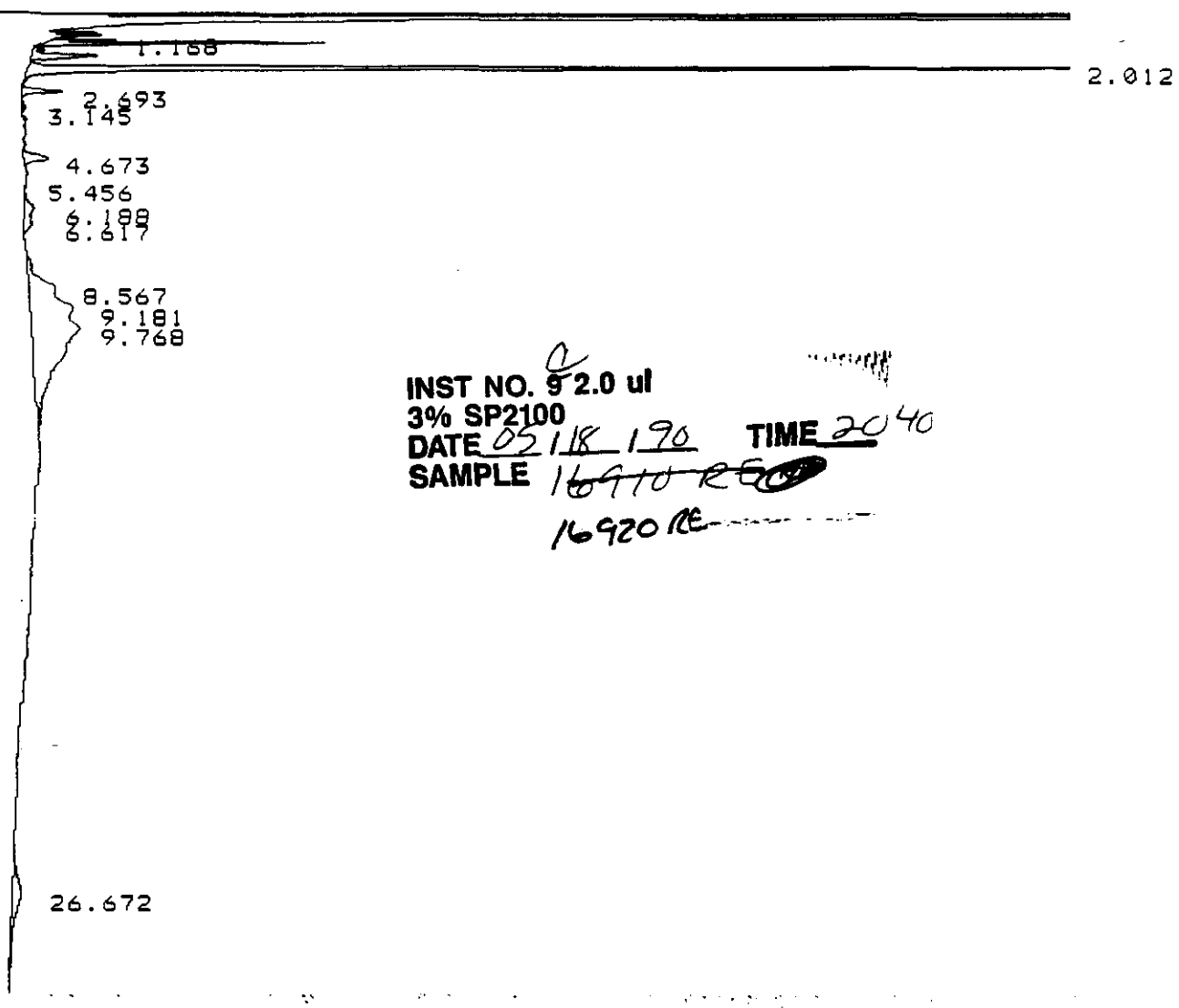
RACK: 2 VIAL: 7 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
RT= OUTSIDE RETENTION TIME WINDOW
ENGIBLOM B.2 CTL2660 CLP PEST SOIL
VERSCDM B.4 CTL2565 CLP PEST SOIL

varian /sunnyvale, calif.

ORIGINAL
(Red)

CHART SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%




INST NO. ~~9~~ a 2.0 ul
3% SP2100
DATE 05/18/90 TIME 2040
SAMPLE ~~16910 RE~~
16920 RE

100020

ORIGINAL
(Red)

T  :: CLP PESTICIDES  20:40  18 MAY 90

) CHANNEL NO: 2  SAMPLE: 169~~0~~20 RE  METHOD: CLP-2A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | | 3594 | 1.261 | | 3594 | VB | 3.30 |
| 2 | | 1814 | 1.622 | | 1814 | VV | 7.60 |
| 3 | B-BHC | 23596 | 2.012 | 0.022 | 23596 | VB | 5.10 |
| 4 | | 1082 | 2.693 | | 1082 | BB | 6.75 |
| 5 | | 1203 | 4.673 | | 1203 | BB | 12.95 |
| 6 | G-CHLORDAN | 828 | 6.188 | -0.012 | 828 | BV | ? 20.20 |
| 7 | A-ENDOSULF | 714 | 6.617 | -0.133 | 714 | VB | ? 26.95 |
| 8 | ENDRIN | 2841 | 8.567 | -0.253 | 2841 | BV | ? 33.70 |
| 9 | B-ENDOSULF | 5338 | 9.181 | 0.151 | 5338 | VV | ? 47.40 |
| 10 | DDD | 14480 | 9.768 | -0.192 | 14480 | VB | ?123.60 |
| 11 | DBC | 2786 | 26.672 | -0.318 | 2786 | BB | 60.80 |
| TOTALS: | | 58276 | | -0.735 | 58276 | | |

DETECTED PKS: 16  REJECTED PKS: 5

DIVISOR: 1.00000  MULTIPLIER: 10000.0

NOISE: 7.3  OFFSET: -15

RACK: 3  VIAL: 2  INJ: 1

N  TS:
 STRUMENT ID: C
 OLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIBLOM B.2 CTL2660 CLP PEST SOIL
VERSCDM B.4 CTL2565 CLP PEST SOIL

ORIGINAL (Red)

PESTICIDE SAMPLE TABLE

EPA SAMPLE NUMBER

8

VERSAR# ~~16910~~ 1692

MATRIX IS: SOIL

Lab Name: VERSAR, INC. Case No.: R3-7

Lab Code: VERSAR Contract:

Instrument ID: A SAS No.:

Run Date: 05/21/90 GC Column ID: SP2250/SP2401

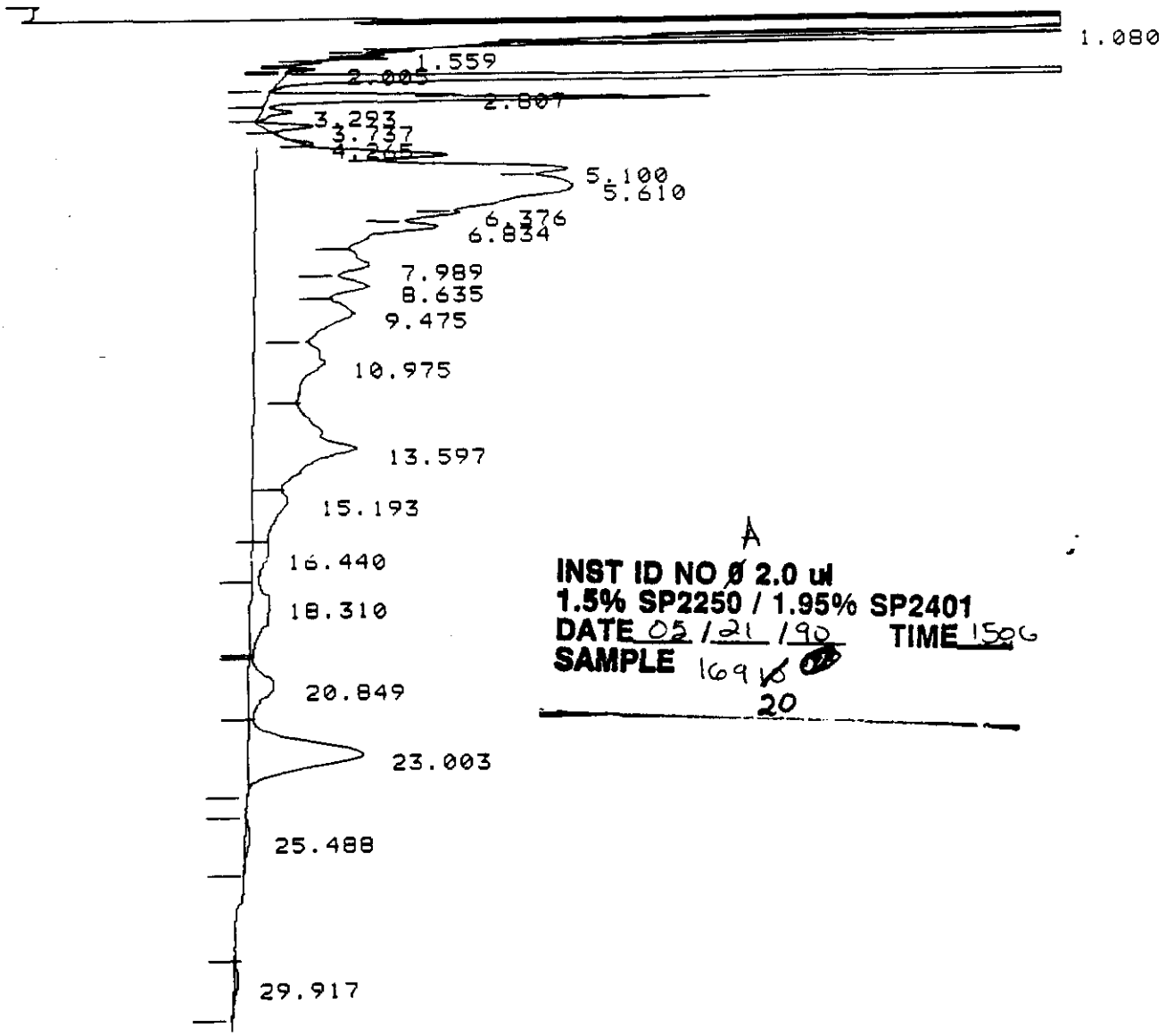
Inject Vol 2.00 (uL) Window Width: 1.0%

| COMPOUND | RT WINDOW FROM | RT WINDOW TO | SAMPLE RT | SAMPLE AREA | / CALIB FACTOR = | NG INJECTED | / INJECT VOLUME (uL) | = INJECT CONC (ug/ml) | X DF | = SAMPLE CONC (ug/kg) | DETECTION LIMIT (ug/kg) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 2.02 | 2.06 | 0.00 | 0 | 1187595 | 0.000 | 2.00 | 0.000 | 2563.26 | 0.00 | 12.82 | |
| beta-BHC | 2.81 | 2.86 | 2.81 | 12829 | 334580 | 0.0038 | 2.00 | 0.0019 | 2563.26 | 49.14 | 12.82 | Hit CB 5/24/90 |
| delta-BHC | 3.27 | 3.33 | 0.00 | 0 | 1062370 | 0.000 | 2.00 | 0.000 | 2563.26 | 0.00 | 12.82 | |
| gamma-BHC | 2.51 | 2.56 | 0.00 | 0 | 891410 | 0.000 | 2.00 | 0.000 | 2563.26 | 0.00 | 12.82 | |
| Heptachlor | 3.03 | 3.09 | 0.00 | 0 | 1008380 | 0.000 | 2.00 | 0.000 | 2563.26 | 0.00 | 12.82 | |
| Aldrin | 3.64 | 3.71 | 0.00 | 0 | 876660 | 0.000 | 2.00 | 0.000 | 2563.26 | 0.00 | 12.82 | |
| Hept. epoxide | 5.28 | 5.39 | 0.00 | 0 | 822865 | 0.000 | 2.00 | 0.000 | 2563.26 | 0.00 | 12.82 | |
| Endosulfan I | 6.59 | 6.72 | 0.00 | 0 | 770190 | 0.000 | 2.00 | 0.000 | 2563.26 | 0.00 | 12.82 | |
| Dieldrin | 7.99 | 8.15 | 0.00 | 0 | 859525 | 0.000 | 2.00 | 0.000 | 2563.26 | 0.00 | 25.63 | |
| 4,4'-DDE | 7.47 | 7.62 | 0.00 | 0 | 810045 | 0.000 | 2.00 | 0.000 | 2563.26 | 0.00 | 25.63 | |
| Endrin | 9.67 | 9.87 | 0.00 | 0 | 548840 | 0.000 | 2.00 | 0.000 | 2563.26 | 0.00 | 25.63 | |
| Endosulfan II | 11.60 | 11.84 | 0.00 | 0 | 743615 | 0.000 | 2.00 | 0.000 | 2563.26 | 0.00 | 25.63 | |
| 4,4'-DDD | 11.19 | 11.42 | 0.00 | 0 | 642785 | 0.000 | 2.00 | 0.000 | 2563.26 | 0.00 | 25.63 | |
| Endo.sulfate | 17.70 | 18.06 | 0.00 | 0 | 566175 | 0.000 | 2.00 | 0.000 | 2563.26 | 0.00 | 25.63 | |
| 4,4'DDT | 13.42 | 13.70 | 0.00 | 0 | 519900 | 0.000 | 2.00 | 0.000 | 2563.26 | 0.00 | 25.63 | |
| Methoxychlor | 25.03 | 25.53 | 0.00 | 0 | 291850 | 0.000 | 2.00 | 0.000 | 2563.26 | 0.00 | 128.16 | |
| Endrin ketone | 24.31 | 24.81 | 0.00 | 0 | 737430 | 0.000 | 2.00 | 0.000 | 2563.26 | 0.00 | 25.63 | |
| a. Chlordane | 6.36 | 6.49 | 0.00 | 0 | 858420 | 0.000 | 2.00 | 0.000 | 2563.26 | 0.00 | 25.63 | |
| g. Chlordane | 5.85 | 5.97 | 0.00 | 0 | 877705 | 0.000 | 2.00 | 0.000 | 2563.26 | 0.00 | 25.63 | |
| Toxaphene | 11.81 | 12.05 | 0.00 | 0 | 96724 | 0.000 | 2.00 | 0.000 | 2563.26 | 0.00 | 256.33 | |
| Aroclor-1016 | 2.98 | 3.04 | 0.00 | 0 | 58715 | 0.000 | 2.00 | 0.000 | 2563.26 | 0.00 | 128.16 | |
| Aroclor-1221 | 1.70 | 1.74 | 0.00 | 0 | 22629 | 0.000 | 2.00 | 0.000 | 2563.26 | 0.00 | 128.16 | |
| Aroclor-1232 | 2.76 | 2.82 | 0.00 | 0 | 22291 | 0.000 | 2.00 | 0.000 | 2563.26 | 0.00 | 128.16 | |
| Aroclor-1242 | 3.69 | 3.77 | 0.00 | 0 | 41491 | 0.000 | 2.00 | 0.000 | 2563.26 | 0.00 | 128.16 | |
| Aroclor-1248 | 5.11 | 5.21 | 0.00 | 0 | 97589 | 0.000 | 2.00 | 0.000 | 2563.26 | 0.00 | 128.16 | |
| Aroclor-1254 | 10.40 | 10.62 | 0.00 | 0 | 184691 | 0.000 | 2.00 | 0.000 | 2563.26 | 0.00 | 256.33 | |
| Aroclor-1260 | 13.25 | 13.51 | 0.00 | 0 | 297054 | 0.000 | 2.00 | 0.000 | 2563.26 | 0.00 | 256.33 | |
| DBC | 22.66 | 23.12 | 23.00 | 88646 | 779330 | 0.114 | 2.00 | 0.057 | 2563.26 | 145.78 | 25.63 | HIT |

KC
05/21/90

ORIGINAL
(Red)

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10%



ORIGINAL (Red)

TITLE: CLP PESTICIDES 15:06 21 MAY 90

CHANNEL NO: 3 SAMPLE: 1691~~0~~ 20 METHOD: CLP-3A

| P | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | | 80937 | 1.080 | | 80937 | BV | 2.45 |
| 2 | | 18945 | 1.280 | | 18945 | VV | 2.70 |
| 3 | | 997 | 1.445 | | 997 | T | 1.85 |
| 4 | | 915 | 1.559 | | 915 | T | 2.90 |
| 5 | | 2934 | 1.687 | | 2934 | VV | 2.45 |
| 6 | | 608 | 1.801 | | 608 | VB | 1.85 |
| 7 | | 1597 | 2.005 | | 1597 | BB | 3.70 |
| 8 | | 674451 | 2.276 | | 674451 | BV | 4.85 |
| 9 | | 12829 | 2.807 | | 12829 | T | ? 6.70 |
| 10 | B-BHC OUT | 49495 | 2.928 | 0.038 | 49495 | T | ? 7.30 |
| 11 | D-BHC N/A | 5214 | 3.293 | -0.067 | 5214 | T | 7.60 |
| 12 | ALDRIN N/A | 7188 | 3.737 | -0.003 | 7188 | T | 11.80 |
| 13 | | 51227 | 4.631 | | 51227 | VV | ? 14.50 |
| 14 | | 101480 | 5.100 | | 101480 | VV | ? 26.70 |
| 15 | | 253304 | 5.610 | | 253304 | VV | ? 28.40 |
| 16 | A-CHLORDAN | 48271 | 6.376 | -0.164 | 48271 | VV | ? 4.70 |
| 17 | A-ENDOSULF N/A | 92351 | 6.834 | 0.044 | 92351 | VV | ? 14.95 |
| 18 | DIELDRIN | 71256 | 7.989 | -0.231 | 71256 | VV | ? 55.90 |
| 19 | | 55938 | 8.635 | | 55938 | VV | ? 30.90 |
| 20 | | 88468 | 9.475 | | 88468 | VV | ?119.85 |
| 21 | | 88250 | 10.975 | | 88250 | VV | ? 59.00 |
| 22 | DDT N/A | 136136 | 13.597 | -0.223 | 136136 | VV | ?145.95 |
| 23 | ENDRIN ALD | 36175 | 15.193 | -0.077 | 36175 | VV | ? 76.10 |
| 24 | | 13258 | 16.440 | | 13258 | VV | ? 71.30 |
| 25 | ESS N/A | 23204 | 18.310 | 0.060 | 23204 | VV | 62.45 |
| 26 | | 20287 | 20.849 | | 20287 | VV | 44.70 |
| 27 | DBC | 88646 | 23.003 | -0.337 | 88646 | VB | 49.40 |
| 28 | METHOXYCHL N/A | 3981 | 25.488 | -0.222 | 3981 | BB | 40.25 |
| 29 | | 3494 | 29.917 | | 3494 | BB | 41.60 |
| | ALS: | 2031840 | | -1.182 | 2031840 | | |

DETECTED PKS: 31 REJECTED PKS: 2

DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 29.1 OFFSET: -16

RACK: 2 VIAL: 4 INJ: 1

NOTES:
COL: 1.5% SP2250/1.95% SP2401
AMT INJ.2UL/INSTRUMENT LETTER A
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIBLOM CTL 2660 PEST SOILS
VERSCDM CTL 2562 PEST SOIL

varian /sunnyvale,calif.p/n 03-906362-01

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10 ORIGINAL (Red)

Lab Name: VERSAR, INC. Contract: _

Lab Code: VERSAR Case No.: R3-7 SAS No.: SDG No.: 4

Matrix: (soil/water) SOIL Lab Sample ID: 16922

Sample wt/vol: 30 (g/ml) G Lab File ID: ____

Level: (low/med) LOW Date Received: 04/23/90

% Moisture: not dec. 32 dec. _____ Date Extracted: 05/01/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/18/90

GPC Cleanup: (Y/N) Y pH: 6.7 Dilution Factor: 1.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 12 | U |
| 319-85-7 | beta-BHC | 12 | U |
| 319-86-8 | delta-BHC | 12 | U |
| 58-89-9 | gamma-BHC (Lindane) | 12 | U |
| 76-44-8 | Heptachlor | 12 | U |
| 309-00-2 | Aldrin | 12 | U |
| 1024-57-3 | Heptachlor Epoxide | 12 | U |
| 959-98-8 | Endosulfan I | 12 | U |
| 60-57-1 | Dieldrin | 23 | U |
| 72-55-9 | 4,4'-DDE | 23 | U |
| 72-20-8 | Endrin | 23 | U |
| 33213-65-9 | Endosulfan II | 23 | U |
| 72-54-8 | 4,4'-DDD | 23 | U |
| 1031-07-8 | Endosulfan Sulfate | 23 | U |
| 50-29-3 | 4,4'-DDT | 23 | U |
| 72-43-5 | Methoxychlor | 120 | U |
| 53494-70-5 | Endrin Ketone | 23 | U |
| 5103-71-9 | alpha-Chlordane | 23 | U |
| 5103-74-2 | gamma-Chlordane | 23 | U |
| 8001-35-2 | Toxaphene | 230 | U |
| 12674-11-2 | Aroclor-1016 | 120 | U |
| 11104-28-2 | Aroclor-1221 | 120 | U |
| 11141-16-5 | Aroclor-1232 | 120 | U |
| 53469-21-9 | Aroclor-1242 | 120 | U |
| 12672-29-6 | Aroclor-1248 | 120 | U |
| 11097-69-1 | Aroclor-1254 | 230 | U |
| 11096-82-5 | Aroclor-1260 | 230 | U |

KC
05/21/90

100025

ORIGINAL
(Red)

PESTICIDE SAMPLE TABLE

EPA SAMPLE NUMBER

10

VERSAR#16916/16922

MATRIX IS: SOIL

Lab Name: VERSAR, INC.  Case No.: R3-7

Lab Code: VERSAR  Contract:

Instrument ID: C  SAS No.:

Run Date: 05/18/90  GC Column ID: 3% SP2100

Inject Vol 2.00 (uL)  Window Width: 1.0%

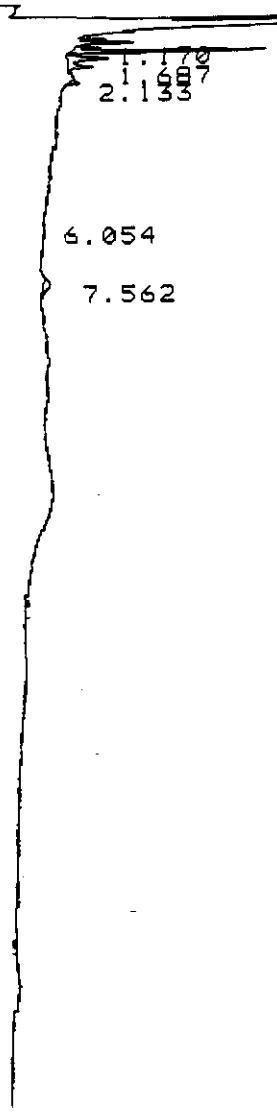
| COMPOUND | RT WINDOW FROM | RT WINDOW TO | SAMPLE RT | SAMPLE AREA | / CALIB FACTOR = | NG INJECTED | / INJECT VOLUME (uL) | = INJECT CONC (ug/ml) | X DF | = SAMPLE CONC (ug/kg) | DETECTION LIMIT (ug/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 1.84 | 1.88 | 0.00 | 0 | 182880 | 0.000 | 2.00 | 0.000 | 2338.01 | 0.00 | 11.69 |
| beta-BHC | 1.97 | 2.01 | 0.00 | 0 | 75830 | 0.000 | 2.00 | 0.000 | 2338.01 | 0.00 | 11.69 |
| delta-BHC | 2.24 | 2.28 | 0.00 | 0 | 163995 | 0.000 | 2.00 | 0.000 | 2338.01 | 0.00 | 11.69 |
| gamma-BHC | 2.17 | 2.22 | 0.00 | 0 | 184770 | 0.000 | 2.00 | 0.000 | 2338.01 | 0.00 | 11.69 |
| Heptachlor | 3.52 | 3.59 | 0.00 | 0 | 175010 | 0.000 | 2.00 | 0.000 | 2338.01 | 0.00 | 11.69 |
| Aldrin | 4.37 | 4.46 | 0.00 | 0 | 205830 | 0.000 | 2.00 | 0.000 | 2338.01 | 0.00 | 11.69 |
| Hept. epoxide | 5.35 | 5.46 | 0.00 | 0 | 202165 | 0.000 | 2.00 | 0.000 | 2338.01 | 0.00 | 11.69 |
| Endosulfan I | 6.68 | 6.81 | 0.00 | 0 | 192000 | 0.000 | 2.00 | 0.000 | 2338.01 | 0.00 | 11.69 |
| Dieldrin | 7.82 | 7.98 | 0.00 | 0 | 214295 | 0.000 | 2.00 | 0.000 | 2338.01 | 0.00 | 23.38 |
| 4,4'-DDE | 7.81 | 7.97 | 0.00 | 0 | 164995 | 0.000 | 2.00 | 0.000 | 2338.01 | 0.00 | 23.38 |
| Endrin | 8.73 | 8.91 | 0.00 | 0 | 150735 | 0.000 | 2.00 | 0.000 | 2338.01 | 0.00 | 23.38 |
| Endosulfan II | 8.94 | 9.12 | 0.00 | 0 | 183020 | 0.000 | 2.00 | 0.000 | 2338.01 | 0.00 | 23.38 |
| 4,4'-DDD | 9.86 | 10.06 | 0.00 | 0 | 129995 | 0.000 | 2.00 | 0.000 | 2338.01 | 0.00 | 23.38 |
| Endo.sulfate | 11.51 | 11.74 | 0.00 | 0 | 112700 | 0.000 | 2.00 | 0.000 | 2338.01 | 0.00 | 23.38 |
| 4,4'DDT | 12.97 | 13.24 | 0.00 | 0 | 120365 | 0.000 | 2.00 | 0.000 | 2338.01 | 0.00 | 23.38 |
| Methoxychlor | 19.42 | 19.81 | 0.00 | 0 | 53155 | 0.000 | 2.00 | 0.000 | 2338.01 | 0.00 | 116.90 |
| Endrin ketone | 14.82 | 15.12 | 0.00 | 0 | 174150 | 0.000 | 2.00 | 0.000 | 2338.01 | 0.00 | 23.38 |
| a. Chlordane | 6.81 | 6.94 | 0.00 | 0 | 171660 | 0.000 | 2.00 | 0.000 | 2338.01 | 0.00 | 23.38 |
| g. Chlordane | 6.13 | 6.26 | 0.00 | 0 | 178215 | 0.000 | 2.00 | 0.000 | 2338.01 | 0.00 | 23.38 |
| Toxaphene | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 2338.01 | 0.00 | 233.80 |
| Aroclor-1016 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 2338.01 | 0.00 | 116.90 |
| Aroclor-1221 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 2338.01 | 0.00 | 116.90 |
| Aroclor-1232 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 2338.01 | 0.00 | 116.90 |
| Aroclor-1242 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 2338.01 | 0.00 | 116.90 |
| Aroclor-1248 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 2338.01 | 0.00 | 116.90 |
| Aroclor-1254 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 2338.01 | 0.00 | 233.80 |
| Aroclor-1260 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 2338.01 | 0.00 | 233.80 |
| DBC | 26.72 | 27.25 | 0.00 | 0 | 152885 | 0.000 | 2.00 | 0.000 | 2338.01 | 0.00 | 23.38 |

KC 5/18/90

p/n 03-906362-01

ORIGINAL
(Red)

CHART SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%




INST NO. ~~9~~ C 2.0 ul
3% SP2100
DATE 05 / 18 / 90 TIME 1417
SAMPLE 1692 22

100027

ORIGINAL (Red)

TITLE: CLP PESTICIDES 14:17 18 MAY 90

CH. .NEL NO: 2 SAMPLE: 16912 METHOD: CLP-2A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | | 2140 | 1.262 | | 2140 | VV | 3.20 |
| 2 | | 793 | 1.447 | | 793 | VV | 5.30 |
| TOTALS: | | 2933 | | | 2933 | | |

DETECTED PKS: 8 REJECTED PKS: 6

DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 7.3 OFFSET: -21

RACK: 2 VIAL: 8 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIBLOM B.2 CTL2660 CLP PEST SOIL
VERSCDM B.4 CTL2565 CLP PEST SOIL

varian /sunnyvale,calif.p/n 03-906362-01

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

12 ORIGINAL (Red)

Lab Name: VERSAR, INC. Contract: _

Lab Code: VERSAR Case No.: R3-7 SAS No.: SDG No.: 4

Matrix: (soil/water) SOIL Lab Sample ID: 16924

Sample wt/vol: 30 (g/ml) G Lab File ID: ____

Level: (low/med) LOW Date Received: 04/23/90

% Moisture: not dec. 7 dec. _____ Date Extracted: 05/01/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/18/90

GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 1.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 8.6 | U |
| 319-85-7 | beta-BHC | 8.6 | U |
| 319-86-8 | delta-BHC | 8.6 | U |
| 58-89-9 | gamma-BHC (Lindane) | 8.6 | U |
| 76-44-8 | Heptachlor | 8.6 | U |
| 309-00-2 | Aldrin | 8.6 | U |
| 1024-57-3 | Heptachlor Epoxide | 8.6 | U |
| 959-98-8 | Endosulfan I | 8.6 | U |
| 60-57-1 | Dieldrin | 17 | U |
| 72-55-9 | 4,4'-DDE | 17 | U |
| 72-20-8 | Endrin | 17 | U |
| 33213-65-9 | Endosulfan II | 17 | U |
| 72-54-8 | 4,4'-DDD | 17 | U |
| 1031-07-8 | Endosulfan Sulfate | 17 | U |
| 50-29-3 | 4,4'-DDT | 17 | U |
| 72-43-5 | Methoxychlor | 86 | U |
| 53494-70-5 | Endrin Ketone | 17 | |
| 5103-71-9 | alpha-Chlordane | 17 | U |
| 5103-74-2 | gamma-Chlordane | 17 | U |
| 8001-35-2 | Toxaphene | 170 | U |
| 12674-11-2 | Aroclor-1016 | 86 | U |
| 11104-28-2 | Aroclor-1221 | 86 | U |
| 11141-16-5 | Aroclor-1232 | 86 | U |
| 53469-21-9 | Aroclor-1242 | 86 | U |
| 12672-29-6 | Aroclor-1248 | 86 | U |
| 11097-69-1 | Aroclor-1254 | 170 | U |
| 11096-82-5 | Aroclor-1260 | 170 | U |

5/22/90

05/21/90

100029

ORIGINAL
(Red)

PESTICIDE SAMPLE TABLE

EPA SAMPLE NUMBER

12

VERSAR# ~~18914~~/16924

MATRIX IS: SOIL

Lab Name: VERSAR, INC.

Lab Code: VERSAR

Instrument ID: C

Run Date: 05/18/90

Inject Vol 2.00 (uL)

Case No.: R3-7

Contract:

SAS No.:

GC Column ID: 3% SP2100

Window Width: 1.0%

| COMPOUND | RT WINDOW FROM | RT WINDOW TO | SAMPLE RT | SAMPLE AREA | / CALIB FACTOR = | NG INJECTED | / INJECT VOLUME (uL) | = INJECT CONC (ug/ml) | X DF | = SAMPLE CONC (ug/kg) | DETECTION LIMIT (ug/kg) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 1.84 | 1.88 | 0.00 | 0 | 182880 | 0.000 | 2.00 | 0.000 | 1712.66 | 0.00 | 8.56 | |
| beta-BHC | 1.37 | 2.01 | 2.02 | 2485 | 75830 | 0.033 | 2.00 | 0.016 | 1712.66 | 28.06 | 8.56 | HIT |
| delta-BHC | 2.24 | 2.28 | 0.00 | 0 | 163995 | 0.000 | 2.00 | 0.000 | 1712.66 | 0.00 | 8.56 | |
| gamma-BHC | 2.17 | 2.22 | 0.00 | 0 | 184770 | 0.000 | 2.00 | 0.000 | 1712.66 | 0.00 | 8.56 | |
| Heptachlor | 3.52 | 3.59 | 3.59 | 1195 | 175010 | 0.007 | 2.00 | 0.003 | 1712.66 | 5.85 | 8.56 | EDL |
| Aldrin | 4.37 | 4.46 | 0.00 | 0 | 205830 | 0.000 | 2.00 | 0.000 | 1712.66 | 0.00 | 8.56 | |
| Hept. epoxide | 5.35 | 5.46 | 5.42 | 3293 | 202165 | 0.016 | 2.00 | 0.008 | 1712.66 | 13.95 | 8.56 | HIT |
| Endosulfan I | 6.68 | 6.81 | 0.00 | 0 | 192000 | 0.000 | 2.00 | 0.000 | 1712.66 | 0.00 | 8.56 | |
| Dieldrin | 7.82 | 7.98 | 0.00 | 0 | 214295 | 0.000 | 2.00 | 0.000 | 1712.66 | 0.00 | 17.13 | |
| 4,4'-DDE | 7.81 | 7.97 | 0.00 | 0 | 164995 | 0.000 | 2.00 | 0.000 | 1712.66 | 0.00 | 17.13 | |
| Endrin | 8.73 | 8.91 | 8.89 | 2322 | 150735 | 0.015 | 2.00 | 0.008 | 1712.66 | 13.19 | 17.13 | EDL |
| Endosulfan II | 8.94 | 9.12 | 0.00 | 0 | 183020 | 0.000 | 2.00 | 0.000 | 1712.66 | 0.00 | 17.13 | |
| 4,4'-DDD | 9.86 | 10.06 | 0.00 | 0 | 129995 | 0.000 | 2.00 | 0.000 | 1712.66 | 0.00 | 17.13 | |
| Endo.sulfate | 11.51 | 11.74 | 0.00 | 0 | 112700 | 0.000 | 2.00 | 0.000 | 1712.66 | 0.00 | 17.13 | |
| 4,4'DDT | 12.97 | 13.24 | 0.00 | 0 | 120365 | 0.000 | 2.00 | 0.000 | 1712.66 | 0.00 | 17.13 | |
| Methoxychlor | 19.42 | 19.81 | 0.00 | 0 | 53155 | 0.000 | 2.00 | 0.000 | 1712.66 | 0.00 | 85.63 | |
| Endrin ketone | 14.82 | 15.12 | 14.95 | 3513 | 174150 | 0.020 | 2.00 | 0.010 | 1712.66 | 17.27 | 17.13 | HIT |
| a. Chlordane | 6.81 | 6.94 | 0.00 | 0 | 171660 | 0.000 | 2.00 | 0.000 | 1712.66 | 0.00 | 17.13 | |
| g. Chlordane | 6.13 | 6.26 | 6.17 | 3334 | 178215 | 0.019 | 2.00 | 0.009 | 1712.66 | 16.02 | 17.13 | EDL |
| Toxaphene | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 1712.66 | 0.00 | 171.27 | |
| Aroclor-1016 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 1712.66 | 0.00 | 85.63 | |
| Aroclor-1221 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 1712.66 | 0.00 | 85.63 | |
| Aroclor-1232 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 1712.66 | 0.00 | 85.63 | |
| Aroclor-1242 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 1712.66 | 0.00 | 85.63 | |
| Aroclor-1248 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 1712.66 | 0.00 | 85.63 | |
| Aroclor-1254 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 1712.66 | 0.00 | 171.27 | |
| Aroclor-1260 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 1712.66 | 0.00 | 171.27 | |
| DBC | 26.72 | 27.25 | *26.69 | 15950 | 152885 | 0.104 | 2.00 | 0.052 | 1712.66 | 89.34 | 17.13 | HIT |

CF 05/18/90

18-May-90

ORIGINAL
(Red)

PCB SAMPLE TABLE

EPA SAMPLE NUMBER

12

VERSAR# ~~16914~~/16924

MATRIX IS:SOIL

Lab Name: VERSAR, INC.

Lab Code: VERSAR

Instrument ID: C

Run Date: 05/18/90

Inject Vol: 2.00 (uL)

Case No.: R3-7

Contract:

SAS No.:

GC Column ID: 3% SP2100

Window Width: 1.0%

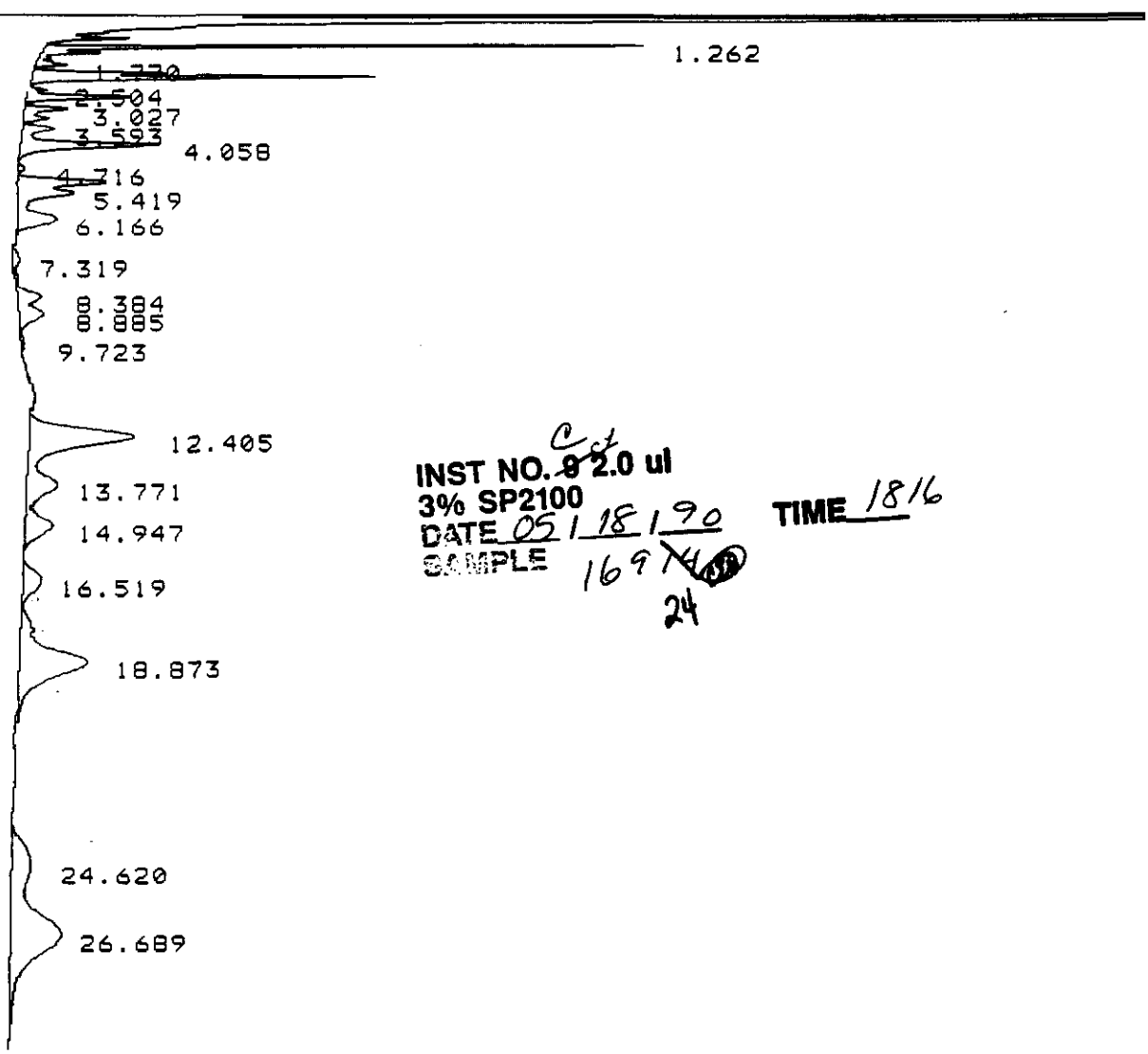
| MULTI-COMPONENT ANALYTE | RT WINDOW FROM | RT WINDOW TO | SAMPLE RETENTION TIMES | SAMPLE AREA | AREA SUM / CAL.FAC. | = NG INJECTED | / INJ VOL (ul) | = INJECT CONC (ug/ml) | X DF | = SAMPLE CONC (ug/l) | DETECTION LIMIT (ug/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3.05 | 3.12 | 0.00 | 0 | | | | | | | |
| | 3.26 | 3.32 | 0.00 | 0 | 0 | | | | | | |
| Aroclor-1248 | 3.86 | 3.94 | 0.00 | 0 | | 0.0 | 2.0 | 0.00 | 1712.66 | 0.00 | 0.00 |
| | 4.26 | 4.34 | 0.00 | 0 | | | | | | | |
| | 4.55 | 4.64 | 0.00 | 0 | 22607 | | | | | | |
| | 7.53 | 7.69 | 0.00 | 0 | | | | | | | |
| | 8.02 | 8.18 | 0.00 | 0 | 0 | | | | | | |
| Aroclor-1254 | 9.56 | 9.75 | 0.00 | 0 | | 0.0 | 2.0 | 0.00 | 1712.66 | 0.00 | 0.00 |
| | 11.20 | 11.42 | 0.00 | 0 | | | | | | | |
| | 13.26 | 13.53 | 0.00 | 0 | 54749 | | | | | | |
| | 8.94 | 9.12 | 0.00 | 0 | | | | | | | |
| | 9.54 | 9.73 | 0.00 | 0 | 0 | | | | | | |
| Aroclor-1260 | 11.32 | 11.54 | 0.00 | 0 | | 0.0 | 2.0 | 0.00 | 1712.66 | 0.00 | 0.00 |
| | 12.22 | 12.47 | 0.00 | 0 | | | | | | | |
| | 13.27 | 13.54 | 0.00 | 0 | 47517 | | | | | | |
| | 0.00 | 0.00 | 0.00 | 0 | | | | | | | |
| | 0.00 | 0.00 | 0.00 | 0 | 0 | | | | | | |
| | 0.00 | 0.00 | 0.00 | 0 | | 0.0 | 2.0 | 0.00 | 1712.66 | 0.00 | 0.00 |
| | 0.00 | 0.00 | 0.00 | 0 | | | | | | | |
| | 0.00 | 0.00 | 0.00 | 0 | 0 | | | | | | |
| | 0.00 | 0.00 | 0.00 | 0 | | | | | | | |
| | 0.00 | 0.00 | 0.00 | 0 | 0 | | | | | | |
| | 0.00 | 0.00 | 0.00 | 0 | | 0.0 | 2.0 | 0.00 | 1712.66 | 0.00 | 0.00 |
| | 0.00 | 0.00 | 0.00 | 0 | | | | | | | |
| | 0.00 | 0.00 | 0.00 | 0 | 0 | | | | | | |

cf 05/18/90

100031

ORIGINAL
(Red)

C 'T SPEED 0.5 CM/MIN
A .N: 4 ZERO: 5%




INST NO. ~~9~~ C st 2.0 ul
3% SP2100
DATE 05/18/90 TIME 1816
SAMPLE 169 ~~14~~ 24

varian /sunnyvale, calif. p/n 03-906362-01

100032

ORIGINAL
(Red)

TITLE: CLP PESTICIDES 18:16 18 MAY 90

NNEL NO: 2 SAMPLE: 169140 METHOD: CLP-2A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 7384 | 1.262 | | 7384 | BV | | 3.40 |
| 2 | | 1035 | 1.422 | | 1035 | VV | | 5.10 |
| 3 | B-BHC | 2485 | 2.015 | 0.025 | 2485 | VV | ? | 5.40 |
| 4 | G-BHC | 7147 | 2.143 | -0.047 | 7147 | VV | | 5.45 |
| 5 | | 2630 | 2.698 | | 2630 | VB | | 6.90 |
| 6 | | 1220 | 3.027 | | 1220 | BV | | 7.20 |
| 7 | | 701 | 3.295 | | 701 | VV | | 7.95 |
| | HEPTACHLOR | 1195 | 3.593 | 0.033 | 1195 | VV | | 9.70 |
| | | 5561 | 4.058 | | 5561 | VV | | 10.20 |
| 10 | | 3894 | 5.120 | | 3894 | VV | | 12.80 |
| 11 | HEPT EPOX | 3293 | 5.419 | 0.019 | 3293 | VV | ? | 16.55 |
| 12 | G-CHLORDAN | 3334 | 6.166 | -0.034 | 3334 | VB | | 22.55 |
| 13 | | 1947 | 8.384 | | 1947 | VV | ? | 21.70 |
| 14 | ENDRIN | 2322 | 8.885 | 0.065 | 2322 | VV | ? | 33.15 |
| 15 | | 12428 | 12.405 | | 12428 | BV | ? | 31.50 |
| 16 | | 4181 | 13.771 | | 4181 | VV | ? | 33.20 |
| 17 | END KETONE | 3513 | 14.947 | -0.023 | 3513 | VB | | 29.35 |
| 18 | | 2782 | 16.519 | | 2782 | BV | | 39.45 |
| 19 | METHOXYCHL | 14331 | 18.873 | -0.747 | 14331 | VB | | 47.25 |
| 20 | | 5298 | 24.620 | | 5298 | BV | ? | 40.50 |
| 21 | DBC | 15950 | 26.689 | -0.301 | 15950 | VB | ? | 54.40 |
| TOTALS: | | 102631 | | -1.010 | 102631 | | | |

DETECTED PKS: 28 REJECTED PKS: 7

DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 7.3 OFFSET: -11

RACK: 2 VIAL: 11 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
T= OUTSIDE RETENTION TIME WINDOW
GIBLOM B.2 CTL2660 CLP PEST SOIL
VERSCDM B.4 CTL2565 CLP PEST SOIL

21-May-90

ORIGINAL (Red)

PESTICIDE SAMPLE TABLE

EPA SAMPLE NUMBER

12

VERSAR# T8914/16924

MATRIX IS: SOIL

Lab Name: VERSAR, INC. Case No.: R3-7

Lab Code: VERSAR Contract:

Instrument ID: A SAS No.:

Run Date: 05/21/90 GC Column ID: SP2250/SP2401

Inject Vol 2.00 (uL) Window Width: 1.0%

| COMPOUND | RT WINDOW FROM | TO | SAMPLE RT | AREA | / CALIB FACTOR = | NG INJECTED | / INJECT VOLUME (uL) | = INJECT CONC (ug/ml) | X DF | = SAMPLE CONC (ug/kg) | DETECTION LIMIT (ug/kg) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 2.02 | 2.06 | 0.00 | 0 | 1187595 | 0.000 | 2.00 | 0.000 | 1712.66 | 0.00 | 8.56 | |
| beta-BHC | 2.81 | 2.86 | 0.00 | 0 | 334580 | 0.000 | 2.00 | 0.000 | 1712.66 | 0.00 | 8.56 | |
| delta-BHC | 3.27 | 3.33 | 0.00 | 0 | 1062370 | 0.000 | 2.00 | 0.000 | 1712.66 | 0.00 | 8.56 | |
| gamma-BHC | 2.51 | 2.56 | 0.00 | 0 | 891410 | 0.000 | 2.00 | 0.000 | 1712.66 | 0.00 | 8.56 | |
| Heptachlor | 3.03 | 3.09 | 0.00 | 0 | 1008380 | 0.000 | 2.00 | 0.000 | 1712.66 | 0.00 | 8.56 | |
| Aldrin | 3.64 | 3.71 | 0.00 | 0 | 876660 | 0.000 | 2.00 | 0.000 | 1712.66 | 0.00 | 8.56 | |
| Hept. epoxide | 5.28 | 5.39 | 0.00 | 0 | 822865 | 0.000 | 2.00 | 0.000 | 1712.66 | 0.00 | 8.56 | |
| Endosulfan I | 6.59 | 6.72 | 0.00 | 0 | 770190 | 0.000 | 2.00 | 0.000 | 1712.66 | 0.00 | 8.56 | |
| Dieldrin | 7.99 | 8.15 | 0.00 | 0 | 859525 | 0.000 | 2.00 | 0.000 | 1712.66 | 0.00 | 17.13 | |
| 4,4'-DDE | 7.47 | 7.62 | 0.00 | 0 | 810045 | 0.000 | 2.00 | 0.000 | 1712.66 | 0.00 | 17.13 | |
| Endrin | 9.67 | 9.87 | 0.00 | 0 | 548840 | 0.000 | 2.00 | 0.000 | 1712.66 | 0.00 | 17.13 | |
| Endosulfan II | 11.60 | 11.84 | 0.00 | 0 | 743615 | 0.000 | 2.00 | 0.000 | 1712.66 | 0.00 | 17.13 | |
| 4,4'-DDD | 11.19 | 11.42 | 0.00 | 0 | 642785 | 0.000 | 2.00 | 0.000 | 1712.66 | 0.00 | 17.13 | |
| Endo.sulfate | 17.70 | 18.06 | 0.00 | 0 | 566175 | 0.000 | 2.00 | 0.000 | 1712.66 | 0.00 | 17.13 | |
| 4,4'DDT | 13.42 | 13.70 | 0.00 | 0 | 519900 | 0.000 | 2.00 | 0.000 | 1712.66 | 0.00 | 17.13 | |
| Methoxychlor | 25.03 | 25.53 | 0.00 | 0 | 291850 | 0.000 | 2.00 | 0.000 | 1712.66 | 0.00 | 85.63 | |
| Endrin ketone | 24.31 | 24.81 | 24.67 | 25339 | 737430 | 0.0034 | 2.00 | 0.0017 | 1712.66 | 29.62 | 17.13 | HIT |
| a. Chlordane | 6.36 | 6.49 | 0.00 | 0 | 858420 | 0.000 | 2.00 | 0.000 | 1712.66 | 0.00 | 17.13 | |
| g. Chlordane | 5.85 | 5.97 | 0.00 | 0 | 877705 | 0.000 | 2.00 | 0.000 | 1712.66 | 0.00 | 17.13 | |
| Toxaphene | 11.81 | 12.05 | 0.00 | 0 | 96724 | 0.000 | 2.00 | 0.000 | 1712.66 | 0.00 | 171.27 | |
| Aroclor-1016 | 2.98 | 3.04 | 0.00 | 0 | 58715 | 0.000 | 2.00 | 0.000 | 1712.66 | 0.00 | 85.63 | |
| Aroclor-1221 | 1.70 | 1.74 | 0.00 | 0 | 22629 | 0.000 | 2.00 | 0.000 | 1712.66 | 0.00 | 85.63 | |
| Aroclor-1232 | 2.76 | 2.82 | 0.00 | 0 | 22291 | 0.000 | 2.00 | 0.000 | 1712.66 | 0.00 | 85.63 | |
| Aroclor-1242 | 3.69 | 3.77 | 0.00 | 0 | 41491 | 0.000 | 2.00 | 0.000 | 1712.66 | 0.00 | 85.63 | |
| Aroclor-1248 | 5.11 | 5.21 | 0.00 | 0 | 97589 | 0.000 | 2.00 | 0.000 | 1712.66 | 0.00 | 85.63 | |
| Aroclor-1254 | 10.40 | 10.62 | 0.00 | 0 | 184691 | 0.000 | 2.00 | 0.000 | 1712.66 | 0.00 | 171.27 | |
| Aroclor-1260 | 13.25 | 13.51 | 0.00 | 0 | 297054 | 0.000 | 2.00 | 0.000 | 1712.66 | 0.00 | 171.27 | |
| DBC | 22.66 | 23.12 | 22.95 | 154246 | 779330 | 0.198 | 2.00 | 0.099 | 1712.66 | 169.49 | 17.13 | HIT |

cf 05/21/90

ORIGINAL
(Red)

# PCB SAMPLE TABLE

EPA SAMPLE NUMBER

12

VERSAR# ~~15914~~/16924

MATRIX IS:SOIL

Lab Name: VERSAR, INC.

Lab Code: VERSAR

Instrument ID: A

Run Date: 05/21/90

Inject Vol: 2.00 (uL)

Case No.: R3-7

Contract:

SAS No.:

GC Column ID: SP2250/SP2401

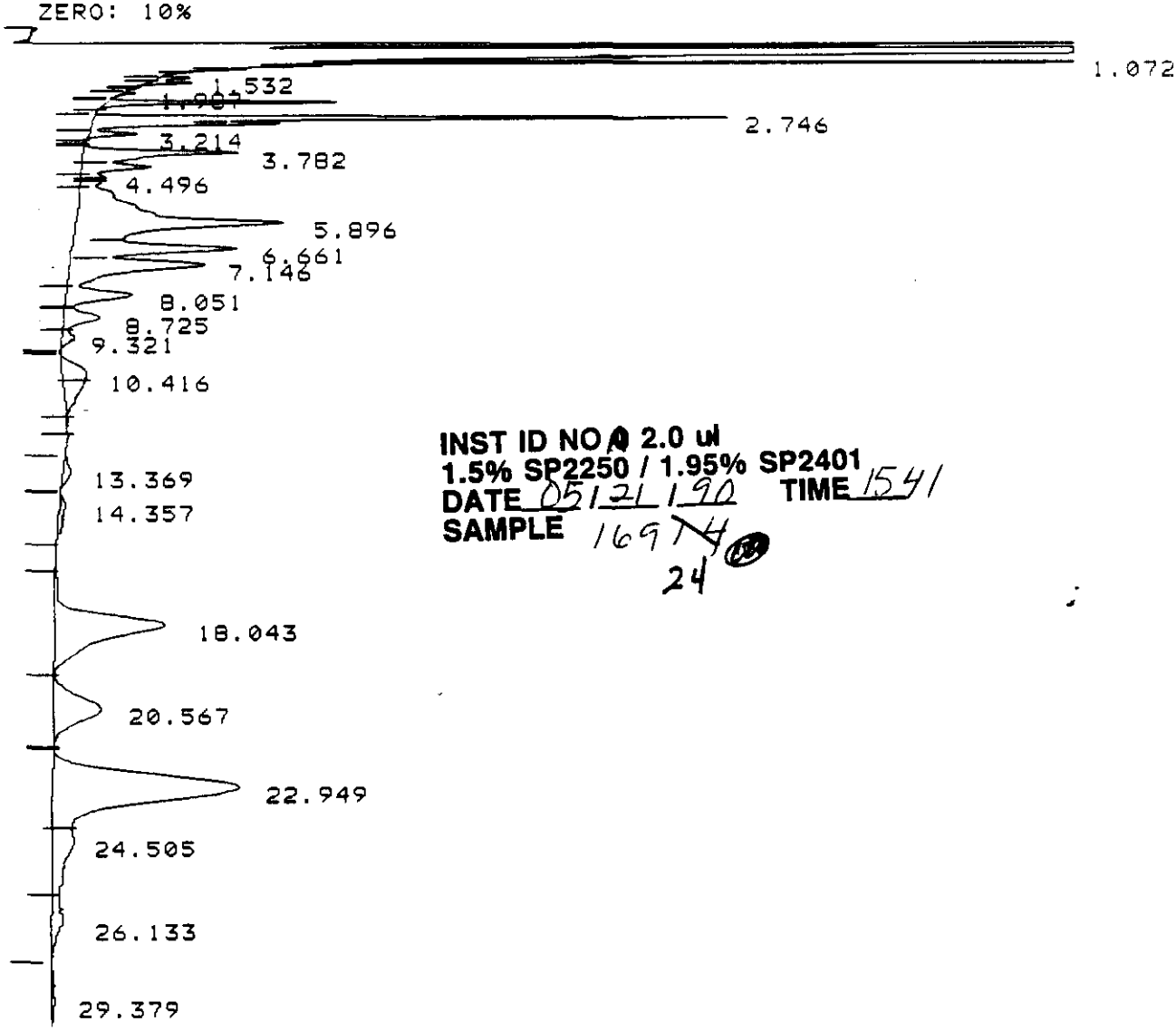
Window Width: 1.0%

| MULTI-COMPONENT ANALYTE | RT WINDOW FROM | RT WINDOW TO | SAMPLE RETENTION TIMES | SAMPLE AREA | AREA SUM / CAL.FAC. | = NG INJECTED | / INJ VOL (ul) | = INJECT CONC (ug/ml) | X DF | = SAMPLE CONC (ug/l) | DETECTION LIMIT (ug/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 4.34 | 4.43 | 0.00 | 0 | | | | | | | |
| | 4.63 | 4.73 | 0.00 | 0 | 0 | | | | | | |
| Aroclor-1248 | 5.10 | 5.21 | 0.00 | 0 | | 0.0 | 2.0 | 0.00 | 1712.66 | 0.00 | 0.00 |
| | 5.38 | 5.49 | 0.00 | 0 | | | | | | | |
| | 6.31 | 6.44 | 0.00 | 0 | 37589 | | | | | | |
| | 8.23 | 8.40 | 0.00 | 0 | | | | | | | |
| | 9.32 | 9.51 | 0.00 | 0 | 0 | | | | | | |
| Aroclor-1254 | 10.41 | 10.62 | 0.00 | 0 | | 0.0 | 2.0 | 0.00 | 1712.66 | 0.00 | 0.00 |
| | 11.78 | 12.02 | 0.00 | 0 | | | | | | | |
| | 13.27 | 13.54 | 0.00 | 0 | 184631 | | | | | | |
| | 10.41 | 10.62 | 0.00 | 0 | | | | | | | |
| | 11.76 | 12.00 | 0.00 | 0 | 0 | | | | | | |
| Aroclor-1260 | 13.25 | 13.51 | 0.00 | 0 | | 0.0 | 2.0 | 0.00 | 1712.66 | 0.00 | 0.00 |
| | 14.15 | 14.43 | 0.00 | 0 | | | | | | | |
| | 20.33 | 20.74 | 0.00 | 0 | 297054 | | | | | | |
| | 0.00 | 0.00 | 0.00 | 0 | | | | | | | |
| | 0.00 | 0.00 | 0.00 | 0 | 0 | | | | | | |
| | 0.00 | 0.00 | 0.00 | 0 | | 0.0 | 2.0 | 0.00 | 1712.66 | 0.00 | 0.00 |
| | 0.00 | 0.00 | 0.00 | 0 | | | | | | | |
| | 0.00 | 0.00 | 0.00 | 0 | 0 | | | | | | |
| | 0.00 | 0.00 | 0.00 | 0 | | | | | | | |
| | 0.00 | 0.00 | 0.00 | 0 | 0 | | | | | | |
| | 0.00 | 0.00 | 0.00 | 0 | | 0.0 | 2.0 | 0.00 | 1712.66 | 0.00 | 0.00 |
| | 0.00 | 0.00 | 0.00 | 0 | | | | | | | |
| | 0.00 | 0.00 | 0.00 | 0 | 0 | | | | | | |

CL 05/21/90

ORIGINAL
(Red)

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10%




INST ID NO A 2.0 ul
1.5% SP2250 / 1.95% SP2401
DATE 05/21/90 TIME 1541
SAMPLE 16974
24

100036

TITLE: CLP PESTICIDES 15:41 21 MAY 90

CHANNEL NO: 3 SAMPLE: 169 METHOD: CLP-3A

ORIGINAL (Red)

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | | 54220 | 1.072 | | 54220 | BV | 2.30 |
| | | 1928 | 1.172 | | 1928 | T | 1.90 |
| | | 928 | 1.273 | | 928 | T | 1.65 |
| 4 | | 2183 | 1.532 | | 2183 | BV | 3.60 |
| 5 | | 3058 | 1.682 | | 3058 | VB | 2.75 |
| 6 | | 880 | 1.987 | | 880 | BB | 3.00 |
| 7 | | 18027 | 2.269 | | 18027 | BB | 4.95 |
| 8 | | 60159 | 2.746 | | 60159 | BV | 6.20 |
| 9 | B-BHC ORT | 18498 | 2.915 | 0.025 | 18498 | VV | ? 8.30 |
| 10 | | 5186 | 3.214 | | 5186 | VB | 6.45 |
| 11 | ALDRIN | 28179 | 3.782 | 0.042 | 28179 | BV | 9.95 |
| 12 | | 12302 | 4.211 | | 12302 | VV | 12.80 |
| 13 | | 2363 | 4.496 | | 2363 | VV | ? 10.00 |
| 14 | | 1252 | 4.531 | | 1252 | VV | ? |
| 15 | | 3075 | 4.600 | | 3075 | VV | ? |
| 16 | G-CHLORDAN | 101621 | 5.896 NA | -0.124 | 101621 | VV | ? 17.80 |
| 17 | ~~A-CHLORDAN~~ | 44172 | 6.661 | 0.121 | 44172 | VV | ? 16.15 |
| 18 | A-Endosulfan | 45500 | 7.146 | | 45500 | VV | 18.60 |
| 19 | DIELDRIN NA | 19426 | 8.051 | -0.169 | 19426 | VV | 16.50 |
| 20 | | 11796 | 8.725 | | 11796 | VV | 16.45 |
| 21 | | 4063 | 9.321 | | 4063 | VB | 14.65 |
| 22 | | 10911 | 10.416 | | 10911 | BV | ? 18.80 |
| 23 | | 10383 | 10.590 | | 10383 | VB | ? 90.40 |
| 24 | | 4411 | 13.369 | | 4411 | BV | 25.40 |
| 25 | | 4477 | 14.357 | | 4477 | VB | ? 49.60 |
| 26 | ESS | 81038 | 18.043 NA | -0.207 | 81038 | BV | 42.30 |
| 27 | | 36239 | 20.567 | | 36239 | VV | 48.85 |
| 28 | DBC | 154246 | 22.949 | -0.391 | 154246 | VV | 52.40 |
| 29 | ENDRIN KET | 25339 | 24.505 | -0.555 | 25339 | VV | ? 95.95 |
| 30 | METHOXYCHL | 11057 | 26.133 | 0.423 | 11057 | VV | ?155.90 |
| 31 | | 2679 | 29.379 | | 2679 | VB | 71.35 |
| T | LS: | 779596 | | -0.835 | 779596 | | |

DETECTED PKS: 32 REJECTED PKS: 1

DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 29.1 OFFSET: -15

NA; not calculated, analyte not present in primary analysis

ACK: 2 VIAL: 5 INJ: 1

NOTES:
COL: 1.5% SP2250/1.95% SP2401
AMT INJ.2UL/INSTRUMENT LETTER A
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIBLOM CTL 2660 PEST SOILS
VERSCDM CTL 2562 PEST SOIL

varian /sunnyvale,calif.p/n 03-906302-01

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ORIGINAL (Red)

13

Lab Name: VERSAR, INC. Contract:

Lab Code: VERSAR Case No.: R3-7 SAS No.: SDG No.: 4

Matrix: (soil/water) SOIL Lab Sample ID: 16925

Sample wt/vol: 30 (g/ml) G Lab File ID:

Level: (low/med) LOW Date Received: 04/23/90

% Moisture: not dec. 60 dec. Date Extracted: 05/01/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/18/90

Cleanup: (Y/N) Y pH: 8.0 Dilution Factor: 1.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 20 | U |
| 319-85-7 | beta-BHC | 20 | U |
| 319-86-8 | delta-BHC | 20 | U |
| 58-89-9 | gamma-BHC (Lindane) | 20 | U |
| 76-44-8 | Heptachlor | 20 | U |
| 309-00-2 | Aldrin | 20 | U |
| 1024-57-3 | Heptachlor Epoxide | 20 | U |
| 959-98-8 | Endosulfan I | 20 | U |
| 60-57-1 | Dieldrin | 40 | U |
| 72-55-9 | 4,4'-DDE | 40 | U |
| 72-20-8 | Endrin | 40 | U |
| 33213-65-9 | Endosulfan II | 40 | U |
| 72-54-8 | 4,4'-DDD | 40 | U |
| 1031-07-8 | Endosulfan Sulfate | 40 | U |
| 50-29-3 | 4,4'-DDT | 40 | U |
| 72-43-5 | Methoxychlor | 200 | U |
| 53494-70-5 | Endrin Ketone | 40 | U |
| 5103-71-9 | alpha-Chlordane | 40 | U |
| 5103-74-2 | gamma-Chlordane | 40 | U |
| 8001-35-2 | Toxaphene | 400 | U |
| 12674-11-2 | Aroclor-1016 | 200 | U |
| 11104-28-2 | Aroclor-1221 | 200 | U |
| 11141-16-5 | Aroclor-1232 | 200 | U |
| 53469-21-9 | Aroclor-1242 | 200 | U |
| 12672-29-6 | Aroclor-1248 | 200 | U |
| 11097-69-1 | Aroclor-1254 | 400 | U |
| 11096-82-5 | Aroclor-1260 | 400 | U |

CL 05/21/90

100038

ORIGINAL
(Red)

PESTICIDE SAMPLE TABLE

EPA SAMPLE NUMBER

13

VERSAR# 16913-/10925

MATRIX IS: SOIL

Lab Name: VERSAR, INC.

Lab Code: VERSAR

Instrument ID: C

Run Date: 05/18/90

Inject Vol 2.00 (uL)

Case No.: R3-7

Contract:

SAS No.:

GC Column ID: 3% SP2100

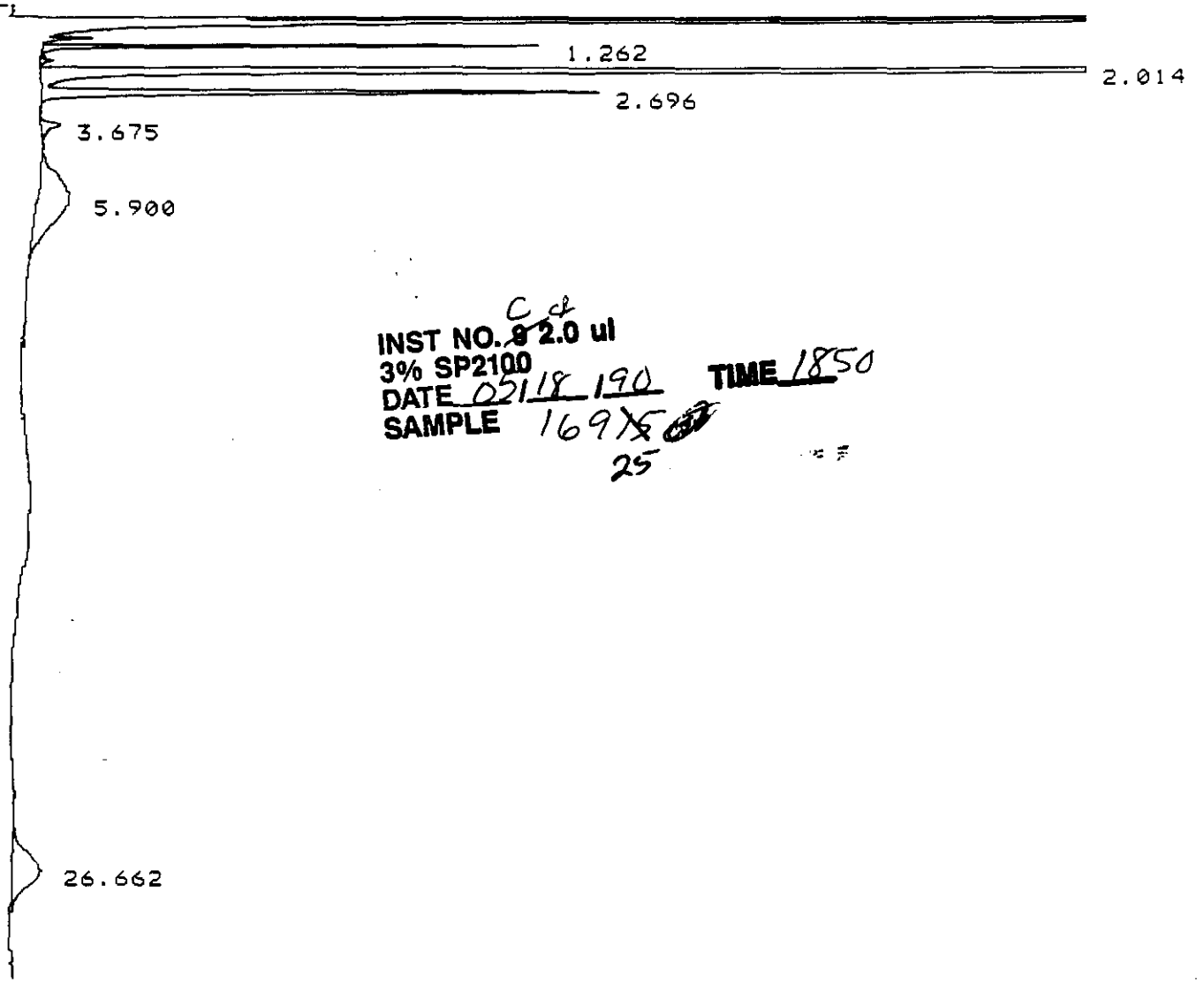
Window Width: 1.0%

| COMPOUND | RT WINDOW FROM | RT WINDOW TO | SAMPLE RT | SAMPLE AREA | / CALIB FACTOR = | NG INJECTED | / INJECT VOLUME (uL) | = INJECT CONC (ug/ml) | X DF | = SAMPLE CONC (ug/kg) | DETECTION LIMIT (ug/kg) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 1.84 | 1.88 | 0.00 | 0 | 182880 | 0.000 | 2.00 | 0.000 | 4020.99 | 0.00 | 20.10 | |
| beta-BHC | 1.97 | 2.01 | 2.01 | 134477 | 75830 | 1.773 | 2.00 | 0.887 | 4020.99 | 3565.41 | 20.10 | HIT |
| delta-BHC | 2.24 | 2.28 | 0.00 | 0 | 163995 | 0.000 | 2.00 | 0.000 | 4020.99 | 0.00 | 20.10 | |
| gamma-BHC | 2.17 | 2.22 | 0.00 | 0 | 184770 | 0.000 | 2.00 | 0.000 | 4020.99 | 0.00 | 20.10 | |
| Heptachlor | 3.52 | 3.59 | 0.00 | 0 | 175010 | 0.000 | 2.00 | 0.000 | 4020.99 | 0.00 | 20.10 | |
| Aldrin | 4.37 | 4.46 | 0.00 | 0 | 205830 | 0.000 | 2.00 | 0.000 | 4020.99 | 0.00 | 20.10 | |
| Hept. epoxide | 5.35 | 5.46 | 0.00 | 0 | 202165 | 0.000 | 2.00 | 0.000 | 4020.99 | 0.00 | 20.10 | |
| Endosulfan I | 6.68 | 6.81 | 0.00 | 0 | 192000 | 0.000 | 2.00 | 0.000 | 4020.99 | 0.00 | 20.10 | |
| Dieldrin | 7.82 | 7.98 | 0.00 | 0 | 214295 | 0.000 | 2.00 | 0.000 | 4020.99 | 0.00 | 40.21 | |
| 4,4'-DDE | 7.81 | 7.97 | 0.00 | 0 | 164995 | 0.000 | 2.00 | 0.000 | 4020.99 | 0.00 | 40.21 | |
| Endrin | 8.73 | 8.91 | 0.00 | 0 | 150735 | 0.000 | 2.00 | 0.000 | 4020.99 | 0.00 | 40.21 | |
| Endosulfan II | 8.94 | 9.12 | 0.00 | 0 | 183020 | 0.000 | 2.00 | 0.000 | 4020.99 | 0.00 | 40.21 | |
| 4,4'-DDD | 9.86 | 10.06 | 0.00 | 0 | 129995 | 0.000 | 2.00 | 0.000 | 4020.99 | 0.00 | 40.21 | |
| Endo.sulfate | 11.51 | 11.74 | 0.00 | 0 | 112700 | 0.000 | 2.00 | 0.000 | 4020.99 | 0.00 | 40.21 | |
| 4,4'DDT | 12.97 | 13.24 | 0.00 | 0 | 120365 | 0.000 | 2.00 | 0.000 | 4020.99 | 0.00 | 40.21 | |
| Methoxychlor | 13.42 | 13.81 | 0.00 | 0 | 53155 | 0.000 | 2.00 | 0.000 | 4020.99 | 0.00 | 201.05 | |
| Endrin ketone | 14.82 | 15.12 | 0.00 | 0 | 174150 | 0.000 | 2.00 | 0.000 | 4020.99 | 0.00 | 40.21 | |
| a. Chlordane | 6.81 | 6.94 | 0.00 | 0 | 171660 | 0.000 | 2.00 | 0.000 | 4020.99 | 0.00 | 40.21 | |
| g. Chlordane | 6.13 | 6.26 | 0.00 | 0 | 178215 | 0.000 | 2.00 | 0.000 | 4020.99 | 0.00 | 40.21 | |
| Toxaphene | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 4020.99 | 0.00 | 402.10 | |
| Aroclor-1016 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 4020.99 | 0.00 | 201.05 | |
| Aroclor-1221 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 4020.99 | 0.00 | 201.05 | |
| Aroclor-1232 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 4020.99 | 0.00 | 201.05 | |
| Aroclor-1242 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 4020.99 | 0.00 | 201.05 | |
| Aroclor-1248 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 4020.99 | 0.00 | 201.05 | |
| Aroclor-1254 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 4020.99 | 0.00 | 402.10 | |
| Aroclor-1260 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 4020.99 | 0.00 | 402.10 | |
| DBC | 26.72 | 27.25 | 26.66 | 7751 | 152885 | 0.051 | 2.00 | 0.025 | 4020.99 | 101.33 | 40.21 | HIT |

CF 05/18/90

ORIGINAL
(Red)

C  RT SPEED  0.5 CM/MIN
ATTEN:  4  ZERO:  5%




INST NO. ~~9~~ C d 2.0 ul
3% SP2100
DATE 02/18/90 TIME 1850
SAMPLE 169~~X~~ 25

ORIGINAL
(Red)

TITLE: CLP PESTICIDES 18:50 18 MAY 90

CHANNEL NO: 2 SAMPLE: 169 METHOD: CLP-2A

| PK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | | 6794 | 1.262 | | 6794 | BV | 3.40 |
| 2 | B-BHC | 134477 | 2.014 | 0.024 | 134477 | VV | 5.50 |
| 3 | | 15993 | 2.696 | | 15993 | VB | 7.15 |
| 4 | HEPTACHLOR | 1238 | 3.675 | 0.115 | 1238 | BB | 13.30 |
| 5 | G-CHLORDAN | 11861 | 5.900 | -0.300 | 11861 | BB | ? 80.35 |
| 6 | DBC | 7751 | 26.662 | -0.328 | 7751 | BB | ? 65.85 |
| | TALS: | 178114 | | -0.489 | 178114 | | |

DETECTED PKS: 8 REJECTED PKS: 2

DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 7.3 OFFSET: -11

RACK: 2 VIAL: 13 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIBLOM B.2 CTL2660 CLP PEST SOIL
VERSCDM B.4 CTL2565 CLP PEST SOIL

ORIGINAL (Red)

PESTICIDE SAMPLE TABLE

EPA SAMPLE NUMBER: 13

VERSAR# M5915 /16925

MATRIX IS: SOIL

Lab Name: VERSAR, INC.

Lab Code: VERSAR

Instrument ID: A

Run Date: 05/21/90

Inject Vol 2.00 (uL)

Case No.: R3-7

Contract:

SAS No.:

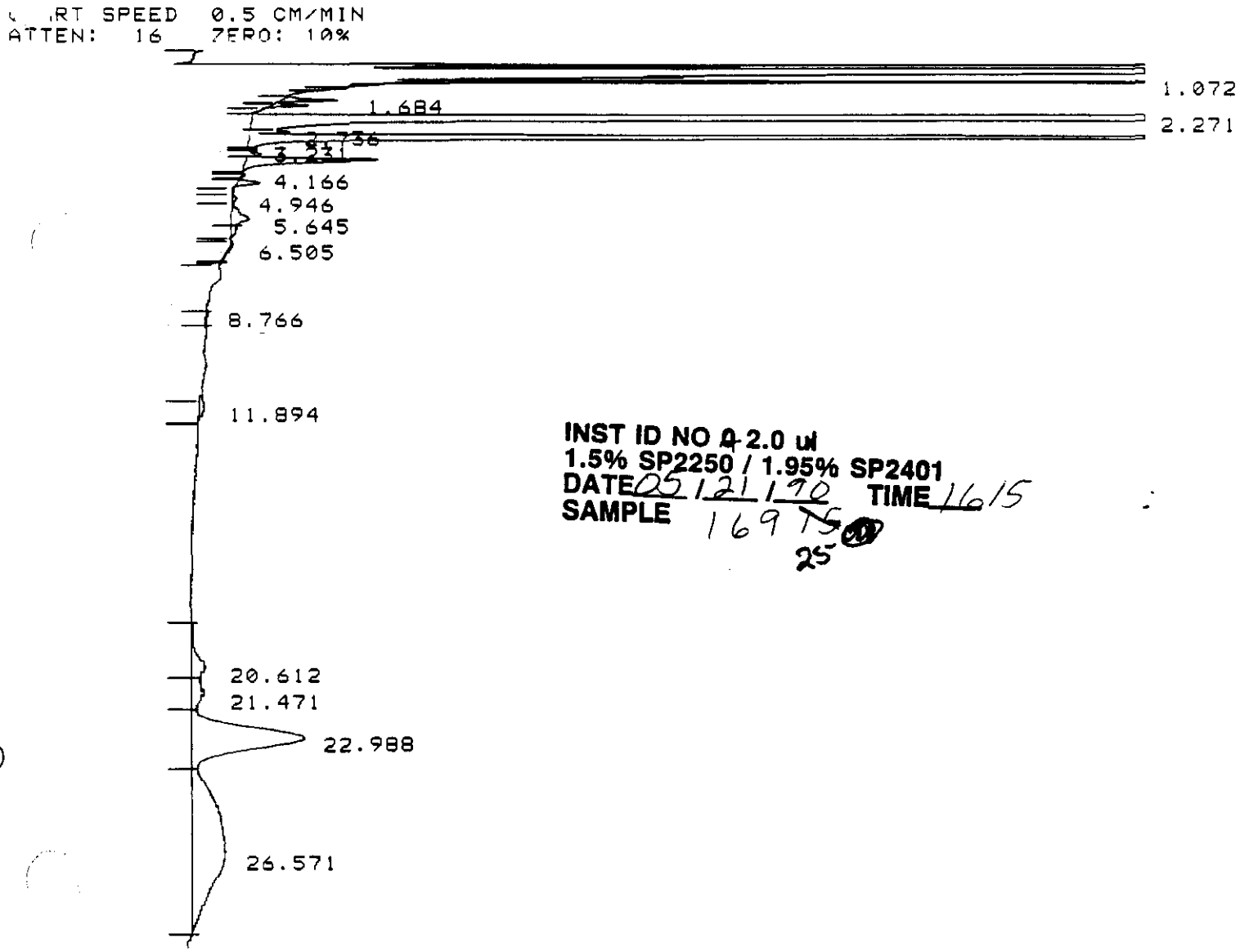
GC Column ID: SP2250/SP2401

Window Width: 1.0%

| COMPOUND | RT WINDOW FROM | RT WINDOW TO | SAMPLE RT | SAMPLE AREA | / CALIB FACTOR = | NG INJECTED | / INJECT VOLUME (uL) | = INJECT CONC (ug/ml) | X DF | = SAMPLE CONC (ug/kg) | DETECTION LIMIT (ug/kg) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 2.02 | 2.06 | 0.00 | 0 | 1187595 | 0.000 | 2.00 | 0.000 | 4020.99 | 0.00 | 20.10 | |
| beta-BHC | 2.81 | 2.86 | 0.00 | 0 | 334580 | 0.000 | 2.00 | 0.000 | 4020.99 | 0.00 | 20.10 | |
| delta-BHC | 3.27 | 3.33 | 0.00 | 0 | 1062370 | 0.000 | 2.00 | 0.000 | 4020.99 | 0.00 | 20.10 | |
| gamma-BHC | 2.51 | 2.56 | 0.00 | 0 | 891410 | 0.000 | 2.00 | 0.000 | 4020.99 | 0.00 | 20.10 | |
| Heptachlor | 3.03 | 3.09 | 0.00 | 0 | 1008380 | 0.000 | 2.00 | 0.000 | 4020.99 | 0.00 | 20.10 | |
| Aldrin | 3.64 | 3.71 | 0.00 | 0 | 876660 | 0.000 | 2.00 | 0.000 | 4020.99 | 0.00 | 20.10 | |
| Hept. epoxide | 5.28 | 5.39 | 0.00 | 0 | 822865 | 0.000 | 2.00 | 0.000 | 4020.99 | 0.00 | 20.10 | |
| Endosulfan I | 6.59 | 6.72 | 0.00 | 0 | 770190 | 0.000 | 2.00 | 0.000 | 4020.99 | 0.00 | 20.10 | |
| Dieldrin | 7.99 | 8.15 | 0.00 | 0 | 859525 | 0.000 | 2.00 | 0.000 | 4020.99 | 0.00 | 40.21 | |
| 4,4'-DDE | 7.47 | 7.62 | 0.00 | 0 | 810045 | 0.000 | 2.00 | 0.000 | 4020.99 | 0.00 | 40.21 | |
| Endrin | 9.67 | 9.87 | 0.00 | 0 | 548840 | 0.000 | 2.00 | 0.000 | 4020.99 | 0.00 | 40.21 | |
| Endosulfan II | 11.60 | 11.84 | 0.00 | 0 | 743615 | 0.000 | 2.00 | 0.000 | 4020.99 | 0.00 | 40.21 | |
| 4,4'-DDD | 11.19 | 11.42 | 0.00 | 0 | 642785 | 0.000 | 2.00 | 0.000 | 4020.99 | 0.00 | 40.21 | |
| Endo.sulfate | 17.70 | 18.06 | 0.00 | 0 | 566175 | 0.000 | 2.00 | 0.000 | 4020.99 | 0.00 | 40.21 | |
| 4,4'DDT | 13.42 | 13.70 | 0.00 | 0 | 519900 | 0.000 | 2.00 | 0.000 | 4020.99 | 0.00 | 40.21 | |
| Methoxychlor | 25.03 | 25.53 | 0.00 | 0 | 291850 | 0.000 | 2.00 | 0.000 | 4020.99 | 0.00 | 201.05 | |
| Endrin ketone | 24.31 | 24.81 | 0.00 | 0 | 737430 | 0.000 | 2.00 | 0.000 | 4020.99 | 0.00 | 40.21 | |
| a. Chlordane | 6.36 | 6.49 | 0.00 | 0 | 858420 | 0.000 | 2.00 | 0.000 | 4020.99 | 0.00 | 40.21 | |
| g. Chlordane | 5.85 | 5.97 | 0.00 | 0 | 877705 | 0.000 | 2.00 | 0.000 | 4020.99 | 0.00 | 40.21 | |
| Toxaphene | 11.81 | 12.05 | 0.00 | 0 | 36724 | 0.000 | 2.00 | 0.000 | 4020.99 | 0.00 | 402.10 | |
| Aroclor-1016 | 2.98 | 3.04 | 0.00 | 0 | 58715 | 0.000 | 2.00 | 0.000 | 4020.99 | 0.00 | 201.05 | |
| Aroclor-1221 | 1.70 | 1.74 | 0.00 | 0 | 22629 | 0.000 | 2.00 | 0.000 | 4020.99 | 0.00 | 201.05 | |
| Aroclor-1232 | 2.76 | 2.82 | 0.00 | 0 | 22291 | 0.000 | 2.00 | 0.000 | 4020.99 | 0.00 | 201.05 | |
| Aroclor-1242 | 3.69 | 3.77 | 0.00 | 0 | 41491 | 0.000 | 2.00 | 0.000 | 4020.99 | 0.00 | 201.05 | |
| Aroclor-1248 | 5.11 | 5.21 | 0.00 | 0 | 97589 | 0.000 | 2.00 | 0.000 | 4020.99 | 0.00 | 201.05 | |
| Aroclor-1254 | 10.40 | 10.62 | 0.00 | 0 | 184631 | 0.000 | 2.00 | 0.000 | 4020.99 | 0.00 | 402.10 | |
| Aroclor-1260 | 13.25 | 13.51 | 0.00 | 0 | 297054 | 0.000 | 2.00 | 0.000 | 4020.99 | 0.00 | 402.10 | |
| DBC | 22.66 | 23.12 | 22.99 | 90112 | 779330 | 0.116 | 2.00 | 0.058 | 4020.99 | 232.47 | 40.21 | HIT |

Cf 05/21/90

ORIGINAL
(Red)




INST ID NO 4 2.0 ul
1.5% SP2250 / 1.95% SP2401
DATE 05/21/90 TIME 1615
SAMPLE 169 TS 25

ORIGINAL (Red)

TITLE: CLP PESTICIDES 16:15 21 MAY 90

CHANNEL NO: 3 SAMPLE: 1691 METHOD: CLP-3A

| P | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | | 66663 | 1.072 | | 66663 | BV | 2.35 |
| 2 | | 547 | 1.271 | | 547 | T | 1.85 |
| 3 | | 4855 | 1.684 | | 4855 | BV | 3.55 |
| 4 | | 2869 | 1.853 | | 2869 | VB | 3.55 |
| 5 | | 1881340 | 2.271 | | 1881340 | BV | 5.85 |
| 6 | B-BHC | 176533 | 2.928 | 0.038 | 176533 | VV | 6.10 |
| 7 | ALDRIN | 20903 | 3.674 | -0.066 | 20903 | VB | 8.35 |
| 8 | | 3098 | 4.431 | | 3098 | VB | 7.55 |
| 9 | | 905 | 4.946 | | 905 | BV | 9.90 |
| 10 | | 6261 | 5.645 | | 6261 | VV | ? 17.25 |
| 11 | G-CHLORDAN | 1785 | 5.854 | -0.166 | 1785 | VB | ? 35.90 |
| 12 | A-CHLORDAN | 1345 | 6.505 | -0.035 | 1345 | BB | 9.75 |
| 13 | | 665 | 8.766 | | 665 | BB | ? 12.85 |
| 14 | B-ENDOSULF | 1787 | 11.894 | -0.056 | 1787 | BB | ? 21.65 |
| 15 | | 11430 | 20.612 | | 11430 | BV | ? 20.70 |
| 16 | | 9947 | 21.471 | | 9947 | VV | ? 17.60 |
| 17 | DBC | 90112 | 22.988 | -0.352 | 90112 | VV | ? 46.65 |
| 18 | - | 108598 | 26.571 | | 108598 | VB | ? 45.00 |
| TOTALS: | | 2389640 | | -0.637 | 2389640 | | |

DETECTED PKS: 23 REJECTED PKS: 5

DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 29.1 OFFSET: -60

RPCK: 2 VIAL: 7 INJ: 1

N S:
COL: 1.5% SP2250/1.95% SP2401
AMT INJ.2UL/INSTRUMENT LETTER A
ORT* OUTSIDE RETENTION TIME WINDOW
ENGIBLOM CTL 2660 PEST SOILS
VERSCDM CTL 2562 PEST SOIL

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

14 ORIGINAL (Red)

Lab Name: VERSAR, INC. Contract: _

Lab Code: VERSAR Case No.: R3-7 SAS No.: SDG No.: 4

Matrix: (soil/water) SOIL Lab Sample ID: 16926

Sample wt/vol: 30 (g/ml) G Lab File ID: ____

Level: (low/med) LOW Date Received: 04/23/90

% Moisture: not dec. 51 dec. _____ Date Extracted: 05/01/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/18/90

G Cleanup: (Y/N) Y pH: 9.3 Dilution Factor: 1.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 16 | U |
| 319-85-7 | beta-BHC | 16 | U |
| 319-86-8 | delta-BHC | 16 | U |
| 58-89-9 | gamma-BHC (Lindane) | 16 | U |
| 76-44-8 | Heptachlor | 16 | U |
| 309-00-2 | Aldrin | 16 | U |
| 1024-57-3 | Heptachlor Epoxide | 16 | U |
| 959-98-8 | Endosulfan I | 16 | U |
| 60-57-1 | Dieldrin | 32 | U |
| 72-55-9 | 4,4'-DDE | 32 | U |
| 72-20-8 | Endrin | 32 | U |
| 33213-65-9 | Endosulfan II | 32 | U |
| 72-54-8 | 4,4'-DDD | 32 | U |
| 1031-07-8 | Endosulfan Sulfate | 32 | U |
| 50-29-3 | 4,4'-DDT | 32 | U |
| 72-43-5 | Methoxychlor | 160 | U |
| 53494-70-5 | Endrin Ketone | 32 | U |
| 5103-71-9 | alpha-Chlordane | 32 | U |
| 5103-74-2 | gamma-Chlordane | 32 | U |
| 8001-35-2 | Toxaphene | 320 | U |
| 12674-11-2 | Aroclor-1016 | 160 | U |
| 11104-28-2 | Aroclor-1221 | 160 | U |
| 11141-16-5 | Aroclor-1232 | 160 | U |
| 53469-21-9 | Aroclor-1242 | 160 | U |
| 12672-29-6 | Aroclor-1248 | 160 | U |
| 11097-69-1 | Aroclor-1254 | 320 | U |
| 11096-82-5 | Aroclor-1260 | 320 | U |

Cf 05/21/90

100045

ORIGINAL (Red)

PESTICIDE SAMPLE TABLE

EPA SAMPLE NUMBER: 14

VERSAR# 16918 /169260

MATRIX IS: SOIL

Lab Name: VERSAR, INC. Case No.: R3-7

Lab Code: VERSAR Contract:

Instrument ID: C SAS No.:

Run Date: 05/18/90 GC Column ID: 3% SP2100

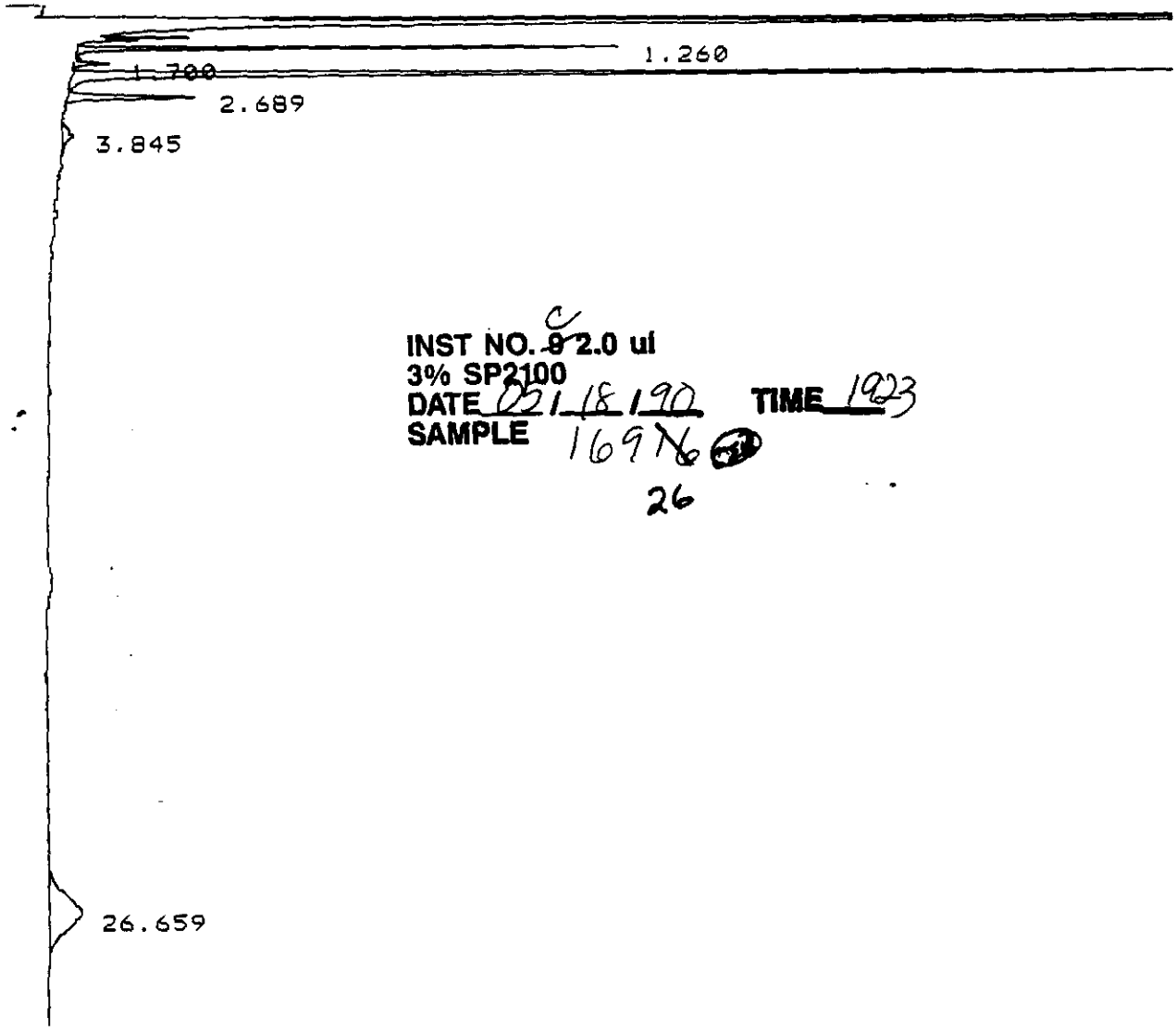
Inject Vol 2.00 (uL) Window Width: 1.0%

| COMPOUND | RT WINDOW FROM | RT WINDOW TO | SAMPLE RT | SAMPLE AREA | / CALIB FACTOR = | NG INJECTED | / INJECT VOLUME (uL) | = INJECT CONC (ug/ml) | X DF | = SAMPLE CONC (ug/kg) | DETECTION LIMIT (ug/kg) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 1.84 | 1.88 | 0.00 | 0 | 182880 | 0.000 | 2.00 | 0.000 | 3231.79 | 0.00 | 16.16 | |
| beta-BHC | 1.97 | 2.01 | 2.01 | 24337 | 75830 | 0.321 | 2.00 | 0.160 | 3231.79 | 518.61 | 16.16 | HIT |
| delta-BHC | 2.24 | 2.28 | 0.00 | 0 | 163995 | 0.000 | 2.00 | 0.000 | 3231.79 | 0.00 | 16.16 | |
| gamma-BHC | 2.17 | 2.22 | 0.00 | 0 | 184770 | 0.000 | 2.00 | 0.000 | 3231.79 | 0.00 | 16.16 | |
| Heptachlor | 3.52 | 3.59 | 0.00 | 0 | 175010 | 0.000 | 2.00 | 0.000 | 3231.79 | 0.00 | 16.16 | |
| Aldrin | 4.37 | 4.46 | 0.00 | 0 | 205830 | 0.000 | 2.00 | 0.000 | 3231.79 | 0.00 | 16.16 | |
| Hept. epoxide | 5.35 | 5.46 | 0.00 | 0 | 202165 | 0.000 | 2.00 | 0.000 | 3231.79 | 0.00 | 16.16 | |
| Endosulfan I | 6.68 | 6.81 | 0.00 | 0 | 192000 | 0.000 | 2.00 | 0.000 | 3231.79 | 0.00 | 16.16 | |
| Dieldrin | 7.82 | 7.98 | 0.00 | 0 | 214295 | 0.000 | 2.00 | 0.000 | 3231.79 | 0.00 | 32.32 | |
| 4,4'-DDE | 7.81 | 7.97 | 0.00 | 0 | 164995 | 0.000 | 2.00 | 0.000 | 3231.79 | 0.00 | 32.32 | |
| Endrin | 8.73 | 8.91 | 0.00 | 0 | 150735 | 0.000 | 2.00 | 0.000 | 3231.79 | 0.00 | 32.32 | |
| Endosulfan II | 8.94 | 9.12 | 0.00 | 0 | 183020 | 0.000 | 2.00 | 0.000 | 3231.79 | 0.00 | 32.32 | |
| 4,4'-DDD | 9.86 | 10.06 | 0.00 | 0 | 129995 | 0.000 | 2.00 | 0.000 | 3231.79 | 0.00 | 32.32 | |
| Endo. sulfate | 11.51 | 11.74 | 0.00 | 0 | 112700 | 0.000 | 2.00 | 0.000 | 3231.79 | 0.00 | 32.32 | |
| 4,4'DDT | 12.97 | 13.24 | 0.00 | 0 | 120365 | 0.000 | 2.00 | 0.000 | 3231.79 | 0.00 | 32.32 | |
| Methoxychlor | 19.42 | 19.81 | 0.00 | 0 | 53155 | 0.000 | 2.00 | 0.000 | 3231.79 | 0.00 | 161.59 | |
| Endrin ketone | 14.82 | 15.12 | 0.00 | 0 | 174150 | 0.000 | 2.00 | 0.000 | 3231.79 | 0.00 | 32.32 | |
| a. Chlordane | 6.81 | 6.94 | 0.00 | 0 | 171660 | 0.000 | 2.00 | 0.000 | 3231.79 | 0.00 | 32.32 | |
| g. Chlordane | 6.13 | 6.26 | 0.00 | 0 | 178215 | 0.000 | 2.00 | 0.000 | 3231.79 | 0.00 | 32.32 | |
| Toxaphene | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 3231.79 | 0.00 | 323.18 | |
| Aroclor-1016 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 3231.79 | 0.00 | 161.59 | |
| Aroclor-1221 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 3231.79 | 0.00 | 161.59 | |
| Aroclor-1232 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 3231.79 | 0.00 | 161.59 | |
| Aroclor-1242 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 3231.79 | 0.00 | 161.59 | |
| Aroclor-1248 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 3231.79 | 0.00 | 161.59 | |
| Aroclor-1254 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 3231.79 | 0.00 | 323.18 | |
| Aroclor-1260 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 3231.79 | 0.00 | 323.18 | |
| DBC | 26.72 | 27.25 | 26.66 | 7822 | 152885 | 0.051 | 2.00 | 0.026 | 3231.79 | 82.67 | 32.32 | HIT |

CL 05/18/90

ORIGINAL
(Red)

CH+ SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%




INST NO. ~~9~~ C 2.0 ul
3% SP2100
DATE 02/18/90 TIME 1923
SAMPLE 16976
26

varian /sunnyvale, calif. p/n 03-906362-01

ORIGINAL
(Red)

TITLE: CLP PESTICIDES 19:23 18 MAY 90

CHANNEL NO: 2 SAMPLE: 1691 26 METHOD: CLP-2A

| PEAK | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | | 7000 | 1.260 | | 7000 | BV | 3.40 |
| 2 | B-BHC | 24337 | 2.012 | 0.022 | 24337 | BB | 5.10 |
| 3 | | 3299 | 2.689 | | 3299 | BB | 6.85 |
| 4 | | 794 | 3.845 | | 794 | BB | ? 29.40 |
| 5 | DBC | 7822 | 26.659 | -0.331 | 7822 | BB | ? 71.60 |
| TOTALS: | | 43252 | | -0.309 | 43252 | | |

DETECTED PKS: 7 REJECTED PKS: 2

DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 7.3 OFFSET: -12

RACK: 2 VIAL: 14 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT* OUTSIDE RETENTION TIME WINDOW
ENGIBLOM B.2 CTL2660 CLP PEST SOIL
VERSCDM B.4 CTL2565 CLP PEST SOIL

21-May-90

ORIGINAL
(Red)

PESTICIDE SAMPLE TABLE

EPA SAMPLE NUMBER

14

VERSAR# ~~16916~~ /16920

MATRIX IS: SOIL

Lab Name: VERSAR, INC.  Case No.: R3-7

Lab Code: VERSAR  Contract:

Instrument ID: A  SAS No.:

Run Date: 05/21/90  GC Column ID: SP2250/SP2401

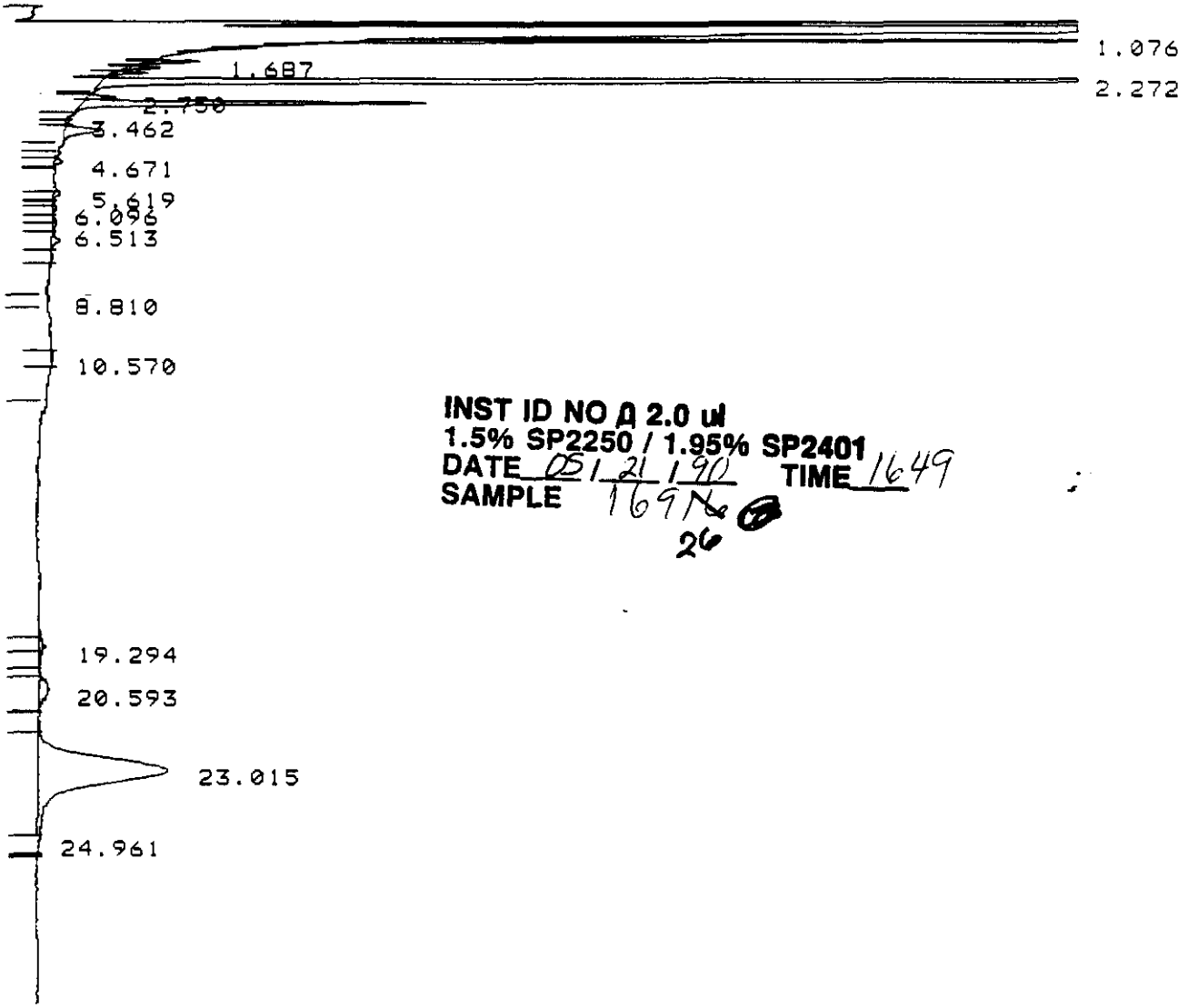
Inject Vol 2.00 (uL)  Window Width: 1.0%

| COMPOUND | RT WINDOW FROM | RT WINDOW TO | SAMPLE RT | SAMPLE AREA | / CALIB FACTOR = | NG INJECTED | / INJECT VOLUME (uL) | = INJECT CONC (ug/ml) | X DF | = SAMPLE CONC (ug/kg) | DETECTION LIMIT (ug/kg) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 2.02 | 2.06 | 0.00 | 0 | 1187595 | 0.000 | 2.00 | 0.000 | 3231.79 | 0.00 | 16.16 | |
| beta-BHC | 2.81 | 2.86 | 0.00 | 0 | 334580 | 0.000 | 2.00 | 0.000 | 3231.79 | 0.00 | 16.16 | |
| delta-BHC | 3.27 | 3.33 | 0.00 | 0 | 1062370 | 0.000 | 2.00 | 0.000 | 3231.79 | 0.00 | 16.16 | |
| gamma-BHC | 2.51 | 2.56 | 0.00 | 0 | 891410 | 0.000 | 2.00 | 0.000 | 3231.79 | 0.00 | 16.16 | |
| Heptachlor | 3.03 | 3.09 | 0.00 | 0 | 1008380 | 0.000 | 2.00 | 0.000 | 3231.79 | 0.00 | 16.16 | |
| Aldrin | 3.64 | 3.71 | 0.00 | 0 | 876660 | 0.000 | 2.00 | 0.000 | 3231.79 | 0.00 | 16.16 | |
| Hept. epoxide | 5.28 | 5.39 | 0.00 | 0 | 822865 | 0.000 | 2.00 | 0.000 | 3231.79 | 0.00 | 16.16 | |
| Endosulfan I | 6.59 | 6.72 | 0.00 | 0 | 770190 | 0.000 | 2.00 | 0.000 | 3231.79 | 0.00 | 16.16 | |
| Dieldrin | 7.99 | 8.15 | 0.00 | 0 | 859525 | 0.000 | 2.00 | 0.000 | 3231.79 | 0.00 | 32.32 | |
| 4,4'-DDE | 7.47 | 7.62 | 0.00 | 0 | 810045 | 0.000 | 2.00 | 0.000 | 3231.79 | 0.00 | 32.32 | |
| Endrin | 9.67 | 9.87 | 0.00 | 0 | 548840 | 0.000 | 2.00 | 0.000 | 3231.79 | 0.00 | 32.32 | |
| Endosulfan II | 11.60 | 11.84 | 0.00 | 0 | 743615 | 0.000 | 2.00 | 0.000 | 3231.79 | 0.00 | 32.32 | |
| 4,4'-DDD | 11.19 | 11.42 | 0.00 | 0 | 642785 | 0.000 | 2.00 | 0.000 | 3231.79 | 0.00 | 32.32 | |
| Endo.sulfate | 17.70 | 18.06 | 0.00 | 0 | 566175 | 0.000 | 2.00 | 0.000 | 3231.79 | 0.00 | 32.32 | |
| 4,4'DDT | 13.42 | 13.70 | 0.00 | 0 | 519900 | 0.000 | 2.00 | 0.000 | 3231.79 | 0.00 | 32.32 | |
| Methoxychlor | 25.03 | 25.53 | 0.00 | 0 | 291850 | 0.000 | 2.00 | 0.000 | 3231.79 | 0.00 | 161.59 | |
| Endrin ketone | 24.31 | 24.81 | 0.00 | 0 | 737430 | 0.000 | 2.00 | 0.000 | 3231.79 | 0.00 | 32.32 | |
| a. Chlordane | 6.36 | 6.49 | 0.00 | 0 | 858420 | 0.000 | 2.00 | 0.000 | 3231.79 | 0.00 | 32.32 | |
| g. Chlordane | 5.85 | 5.97 | 0.00 | 0 | 877705 | 0.000 | 2.00 | 0.000 | 3231.79 | 0.00 | 32.32 | |
| Toxaphene | 11.81 | 12.05 | 0.00 | 0 | 96724 | 0.000 | 2.00 | 0.000 | 3231.79 | 0.00 | 323.18 | |
| Aroclor-1016 | 2.98 | 3.04 | 0.00 | 0 | 58715 | 0.000 | 2.00 | 0.000 | 3231.79 | 0.00 | 161.59 | |
| Aroclor-1221 | 1.70 | 1.74 | 0.00 | 0 | 22629 | 0.000 | 2.00 | 0.000 | 3231.79 | 0.00 | 161.59 | |
| Aroclor-1232 | 2.76 | 2.82 | 0.00 | 0 | 22291 | 0.000 | 2.00 | 0.000 | 3231.79 | 0.00 | 161.59 | |
| Aroclor-1242 | 3.69 | 3.77 | 0.00 | 0 | 41491 | 0.000 | 2.00 | 0.000 | 3231.79 | 0.00 | 161.59 | |
| Aroclor-1248 | 5.11 | 5.21 | 0.00 | 0 | 97589 | 0.000 | 2.00 | 0.000 | 3231.79 | 0.00 | 161.59 | |
| Aroclor-1254 | 10.40 | 10.62 | 0.00 | 0 | 184691 | 0.000 | 2.00 | 0.000 | 3231.79 | 0.00 | 323.18 | |
| Aroclor-1260 | 13.25 | 13.51 | 0.00 | 0 | 297054 | 0.000 | 2.00 | 0.000 | 3231.79 | 0.00 | 323.18 | |
| DBC | 22.66 | 23.12 | 23.02 | 102156 | 779330 | 0.131 | 2.00 | 0.066 | 3231.79 | 211.81 | 32.32 | HIT |

Cf 05/21/90

ORIGINAL
(Red)

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10%




INST ID NO A 2.0 ul
1.5% SP2250 / 1.95% SP2401
DATE 05/21/90 TIME 1649
SAMPLE 1697 B
26

100050

ORIGINAL (Red)

TITLE: CLP PESTICIDES 16:49 21 MAY 90

CHANNEL NO: 3 SAMPLE: 1691 METHOD: CLP-3A

| F NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | | 72946 | 1.076 | | 72946 | BB | 2.45 |
| 2 | | 838 | 1.274 | | 838 | BB | 1.70 |
| 3 | | 2473 | 1.687 | | 2473 | BV | 3.05 |
| 4 | | 1763 | 1.857 | | 1763 | VV | 3.25 |
| 5 | | 1950 | 2.015 NA | | 1950 | VB | 3.50 |
| 6 | | 280606 | 2.272 | | 280606 | BB | 4.55 |
| 7 | | 2194 | 2.750 | | 2194 | BV | 5.40 |
| 8 | B-BHC ✓ OR | 32161 | 2.932 | 0.042 | 32161 | VB | 6.10 |
| 9 | ALDRIN | 6183 | 3.735 | -0.005 | 6183 | VB | 11.30 |
| 10 | | 846 | 4.671 | | 846 | BB | 7.70 |
| 11 | | 634 | 5.619 | | 634 | BB | ? 6.20 |
| 12 | G-CHLORDAN | 636 | 6.096 | 0.076 | 636 | BV | ? 12.20 |
| 13 | A-CHLORDAN OR | 714 | 6.513 | -0.027 | 714 | VV | ? 28.40 |
| 14 | | 1965 | 7.063 | | 1965 | VB | 12.30 |
| 15 | | 527 | 8.810 | | 527 | BB | ? 14.40 |
| 16 | | 779 | 10.570 | | 779 | BB | ? 13.15 |
| 17 | | 1635 | 19.294 | | 1635 | BV | ? 27.80 |
| 18 | | 720 | 19.415 | | 720 | VB | ? |
| 19 | | 4351 | 20.593 | | 4351 | BB | ? 35.80 |
| 20 | DBC | 102156 | 23.015 | -0.325 | 102156 | BV | 48.30 |
| TOTALS: | | 516077 | | -0.239 | 516077 | | |

DETECTED PKS: 23 REJECTED PKS: 3

NA: not calculated, analyte not present in primary analysis

DIVISOR: 1.00000 MULTIPLIER: 10000.0

M E: 29.1 OFFSET: 1

RACK: 2 VIAL: 8 INJ: 1

NOTES:
COL: 1.5% SP2250/1.95% SP2401
AMT INJ.2UL/INSTRUMENT LETTER A
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIBLOM CTL 2660 PEST SOILS
VERSCDM CTL 2562 PEST SOIL

varian /sunnyvale, calif. p/n 03-906362-01

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

15

Lab Name: VERSAR, INC. Contract:

Lab Code: VERSAR Case No.: R3-7 SAS No.: SDG No.: 4

Matrix: (soil/water) SOIL Lab Sample ID: 16927

Sample wt/vol: 30 (g/ml) G Lab File ID:

Level: (low/med) LOW Date Received: 04/23/90

% Moisture: not dec. 8 dec. Date Extracted: 05/01/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/18/90

GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 1.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 8.7 | U |
| 319-85-7 | beta-BHC | 8.7 | U |
| 319-86-8 | delta-BHC | 8.7 | U |
| 58-89-9 | gamma-BHC (Lindane) | 8.7 | U |
| 76-44-8 | Heptachlor | 8.7 | U |
| 309-00-2 | Aldrin | 8.7 | U |
| 1024-57-3 | Heptachlor Epoxide | 8.7 | U |
| 959-98-8 | Endosulfan I | 8.7 | U |
| 60-57-1 | Dieldrin | 17 | U |
| 72-55-9 | 4,4'-DDE | 18 | |
| 72-20-8 | Endrin | 17 | U |
| 33213-65-9 | Endosulfan II | 17 | U |
| 72-54-8 | 4,4'-DDD | 17 | U |
| 1031-07-8 | Endosulfan Sulfate | 17 | U |
| 50-29-3 | 4,4'-DDT | 17 | U |
| 72-43-5 | Methoxychlor | 87 | U |
| 53494-70-5 | Endrin Ketone | 17 | U |
| 5103-71-9 | alpha-Chlordane | 17 | U |
| 5103-74-2 | gamma-Chlordane | 17 | U |
| 8001-35-2 | Toxaphene | 170 | U |
| 12674-11-2 | Aroclor-1016 | 87 | U |
| 11104-28-2 | Aroclor-1221 | 87 | U |
| 11141-16-5 | Aroclor-1232 | 87 | U |
| 53469-21-9 | Aroclor-1242 | 87 | U |
| 12672-29-6 | Aroclor-1248 | 87 | U |
| 11097-69-1 | Aroclor-1254 | 170 | U |
| 11096-82-5 | Aroclor-1260 | 170 | U |

KC
05/22/90

PESTICIDE SAMPLE TABLE

EPA SAMPLE NUMBER

15

VERSAR# ~~18947~~/16927

MATRIX IS: WATER

Lab Name: VERSAR, INC. Case No.: R3-7

Lab Code: VERSAR Contract:

Instrument ID: C SAS No.:

Run Date: 05/18/90 GC Column ID: 3% SP2100

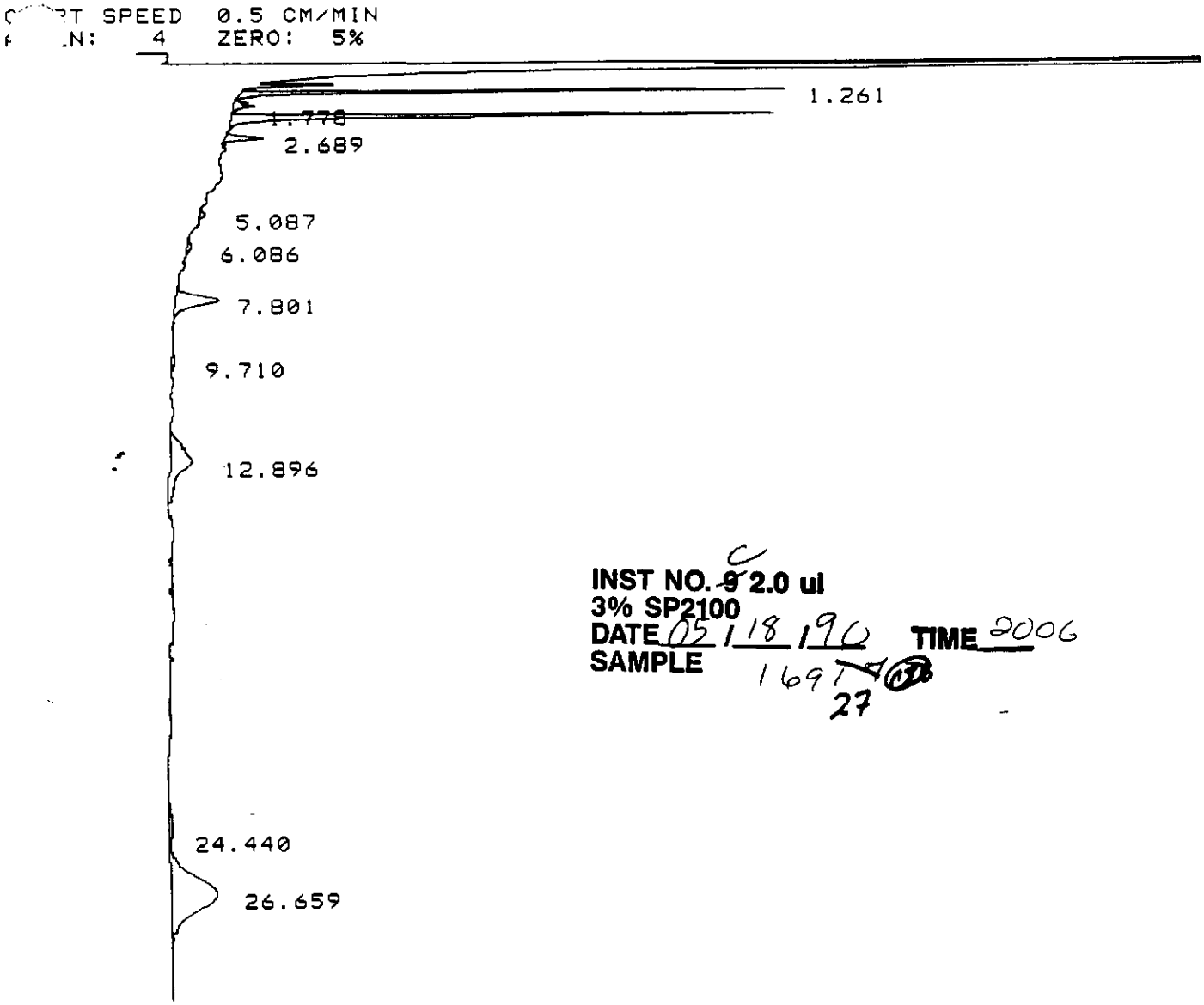
Inject Vol 2.00 (uL) Window Width: 1.0%

| COMPOUND | RT WINDOW FROM | RT WINDOW TO | SAMPLE RT | SAMPLE AREA | / CALIB FACTOR = | NG INJECTED | / INJECT VOLUME (uL) | = INJECT CONC (ug/ml) | X DF | = SAMPLE CONC (ug/kg) | DETECTION LIMIT (ug/kg) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 1.84 | 1.88 | 0.00 | 0 | 182880 | 0.000 | 2.00 | 0.000 | 1734.22 | 0.00 | 8.67 | |
| beta-BHC | 1.97 | 2.01 | 2.01 | 11636 | 75830 | 0.153 | 2.00 | 0.077 | 1734.22 | 133.06 | 8.67 | HIT |
| delta-BHC | 2.24 | 2.28 | 0.00 | 0 | 163995 | 0.000 | 2.00 | 0.000 | 1734.22 | 0.00 | 8.67 | |
| gamma-BHC | 2.17 | 2.22 | 0.00 | 0 | 184770 | 0.000 | 2.00 | 0.000 | 1734.22 | 0.00 | 8.67 | |
| Heptachlor | 3.52 | 3.59 | 0.00 | 0 | 175010 | 0.000 | 2.00 | 0.000 | 1734.22 | 0.00 | 8.67 | |
| Aldrin | 4.37 | 4.46 | 0.00 | 0 | 205830 | 0.000 | 2.00 | 0.000 | 1734.22 | 0.00 | 8.67 | |
| Hept. epoxide | 5.35 | 5.46 | 0.00 | 0 | 202165 | 0.000 | 2.00 | 0.000 | 1734.22 | 0.00 | 8.67 | |
| Endosulfan I | 6.68 | 6.81 | 0.00 | 0 | 192000 | 0.000 | 2.00 | 0.000 | 1734.22 | 0.00 | 8.67 | |
| Dieldrin | 7.82 | 7.98 | **7.80 | 3379 | 214295 | 0.016 | 2.00 | 0.008 | 1734.22 | 13.67 | 17.34 | EQL |
| 4,4'-DDE | 7.81 | 7.97 | **7.80 | 3379 | 164995 | 0.020 | 2.00 | 0.010 | 1734.22 | 17.76 | 17.34 | HIT |
| Endrin | 8.73 | 8.91 | 0.00 | 0 | 150735 | 0.000 | 2.00 | 0.000 | 1734.22 | 0.00 | 17.34 | |
| Endosulfan II | 8.94 | 9.12 | 0.00 | 0 | 183020 | 0.000 | 2.00 | 0.000 | 1734.22 | 0.00 | 17.34 | |
| 4,4'-DDD | 9.86 | 10.06 | 0.00 | 0 | 129995 | 0.000 | 2.00 | 0.000 | 1734.22 | 0.00 | 17.34 | |
| Endo.sulfate | 11.51 | 11.74 | 0.00 | 0 | 112700 | 0.000 | 2.00 | 0.000 | 1734.22 | 0.00 | 17.34 | |
| 4,4'DDT | 12.97 | 13.24 | 0.00 | 0 | 120365 | 0.000 | 2.00 | 0.000 | 1734.22 | 0.00 | 17.34 | |
| Methoxychlor | 13.42 | 13.81 | 0.00 | 0 | 53155 | 0.000 | 2.00 | 0.000 | 1734.22 | 0.00 | 86.71 | |
| Endrin ketone | 14.82 | 15.12 | 0.00 | 0 | 174150 | 0.000 | 2.00 | 0.000 | 1734.22 | 0.00 | 17.34 | |
| a. Chlordane | 6.81 | 6.94 | 0.00 | 0 | 171660 | 0.000 | 2.00 | 0.000 | 1734.22 | 0.00 | 17.34 | |
| g. Chlordane | 6.13 | 6.26 | 0.00 | 0 | 178215 | 0.000 | 2.00 | 0.000 | 1734.22 | 0.00 | 17.34 | |
| Toxaphene | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 1734.22 | 0.00 | 173.42 | |
| Aroclor-1016 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 1734.22 | 0.00 | 86.71 | |
| Aroclor-1221 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 1734.22 | 0.00 | 86.71 | |
| Aroclor-1232 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 1734.22 | 0.00 | 86.71 | |
| Aroclor-1242 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 1734.22 | 0.00 | 86.71 | |
| Aroclor-1248 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 1734.22 | 0.00 | 86.71 | |
| Aroclor-1254 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 1734.22 | 0.00 | 173.42 | |
| Aroclor-1260 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 1734.22 | 0.00 | 173.42 | |
| DBC | 26.72 | 27.25 | *26.65 | 13131 | 152885 | 0.086 | 2.00 | 0.043 | 1734.22 | 74.47 | 17.34 | HIT |

KC
05/21/90

** - Dieldrin & DDE coelute on 3% SP2100 column.

100053




INST NO. ~~9~~ C 2.0 ul
3% SP2100
DATE 05/18/90 TIME 2006
SAMPLE 1697-27

varian /sunnyvale, calif. p/n 03-906362-01

TITLE: CLP PESTICIDES 20:06 18 MAY 90

CHANNEL NO: 2 SAMPLE: 1691 METHOD: CLP-2A

| PE NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | | 7783 | 1.261 | | 7783 | BV | 3.45 |
| 2 | B-BHC | 11636 | 2.012 | 0.022 | 11636 | VB | 5.05 |
| 3 | | 1086 | 2.689 | | 1086 | BB | ? 6.85 |
| 4 | DDE/DIELD. | 3379 | 7.801 | -0.089 | 3379 | BB | ? 18.90 |
| 5 | DDT | 5016 | 12.896 | -0.204 | 5016 | BB | ? 41.65 |
| 6 | | 766 | 24.440 | | 766 | BV | ? 11.70 |
| 7 | DBC | 13131 | 26.659 | -0.331 | 13131 | VB | ? 56.80 |
| TOTALS: | | 42797 | | -0.602 | 42797 | | |

DETECTED PKS: 13 REJECTED PKS: 6

DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 7.3 OFFSET: 2

RACK: 3 VIAL: 1 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIBLOM B.2 CTL2660 CLP PEST SOIL
VERSCDM B.4 CTL2565 CLP PEST SOIL

PESTICIDE SAMPLE TABLE

EPA SAMPLE NUMBER

15

VERSAR# ~~16942~~/16927

MATRIX IS: SOIL

Lab Name: VERSAR, INC.

Lab Code: VERSAR

Instrument ID: A

Run Date: 05/21/90

Inject Vol 2.00 (uL)

Case No.: R3-7

Contract:

SAS No.:

GC Column ID: SP2250/SP2401

Window Width: 1.0%

| COMPOUND | RT WINDOW FROM | RT WINDOW TO | SAMPLE RT | SAMPLE AREA | / CALIB FACTOR = | NG INJECTED | / INJECT VOLUME (uL) | = INJECT CONC (ug/ml) | X DF | = SAMPLE CONC (ug/kg) | DETECTION LIMIT (ug/kg) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 2.02 | 2.06 | 0.00 | 0 | 1187595 | 0.000 | 2.00 | 0.000 | 1734.22 | 0.00 | 8.67 | |
| beta-BHC | 2.81 | 2.86 | 0.00 | 0 | 334580 | 0.000 | 2.00 | 0.000 | 1734.22 | 0.00 | 8.67 | .077 |
| delta-BHC | 3.27 | 3.33 | 0.00 | 0 | 1062370 | 0.000 | 2.00 | 0.000 | 1734.22 | 0.00 | 8.67 | .274 |
| gamma-BHC | 2.51 | 2.56 | 0.00 | 0 | 891410 | 0.000 | 2.00 | 0.000 | 1734.22 | 0.00 | 8.67 | |
| Heptachlor | 3.03 | 3.09 | 0.00 | 0 | 1008380 | 0.000 | 2.00 | 0.000 | 1734.22 | 0.00 | 8.67 | |
| Aldrin | 3.64 | 3.71 | 0.00 | 0 | 876660 | 0.000 | 2.00 | 0.000 | 1734.22 | 0.00 | 8.67 | |
| Hept. epoxide | 5.28 | 5.39 | 0.00 | 0 | 822865 | 0.000 | 2.00 | 0.000 | 1734.22 | 0.00 | 8.67 | |
| Endosulfan I | 6.59 | 6.72 | 0.00 | 0 | 770190 | 0.000 | 2.00 | 0.000 | 1734.22 | 0.00 | 8.67 | |
| Dieldrin | 7.99 | 8.15 | 0.00 | 0 | 859525 | 0.000 | 2.00 | 0.000 | 1734.22 | 0.00 | 17.34 | |
| 4,4'-DDE | 7.47 | 7.62 | 7.59 | 21048 | 810045 | 0.026 | 2.00 | 0.013 | 1734.22 | 22.53 | 17.34 | HIT |
| Endrin | 9.67 | 9.87 | 0.00 | 0 | 548840 | 0.000 | 2.00 | 0.000 | 1734.22 | 0.00 | 17.34 | |
| Endosulfan II | 11.60 | 11.84 | 0.00 | 0 | 743615 | 0.000 | 2.00 | 0.000 | 1734.22 | 0.00 | 17.34 | |
| 4,4'-DDD | 11.13 | 11.42 | 0.00 | 0 | 642785 | 0.000 | 2.00 | 0.000 | 1734.22 | 0.00 | 17.34 | |
| F[illegible] sulfate | 17.70 | 18.06 | 0.00 | 0 | 566175 | 0.000 | 2.00 | 0.000 | 1734.22 | 0.00 | 17.34 | |
| [illegible] DDT | 13.42 | 13.70 | 0.00 | 0 | 519900 | 0.000 | 2.00 | 0.000 | 1734.22 | 0.00 | 17.34 | |
| Methoxychlor | 25.03 | 25.53 | 0.00 | 0 | 291850 | 0.000 | 2.00 | 0.000 | 1734.22 | 0.00 | 86.71 | |
| Endrin ketone | 24.31 | 24.81 | 0.00 | 0 | 737430 | 0.000 | 2.00 | 0.000 | 1734.22 | 0.00 | 17.34 | |
| a. Chlordane | 6.36 | 6.49 | 0.00 | 0 | 858420 | 0.000 | 2.00 | 0.000 | 1734.22 | 0.00 | 17.34 | |
| g. Chlordane | 5.85 | 5.97 | 0.00 | 0 | 877705 | 0.000 | 2.00 | 0.000 | 1734.22 | 0.00 | 17.34 | |
| Toxaphene | 11.81 | 12.05 | 0.00 | 0 | 96724 | 0.000 | 2.00 | 0.000 | 1734.22 | 0.00 | 173.42 | |
| Aroclor-1016 | 2.98 | 3.04 | 0.00 | 0 | 58715 | 0.000 | 2.00 | 0.000 | 1734.22 | 0.00 | 86.71 | |
| Aroclor-1221 | 1.70 | 1.74 | 0.00 | 0 | 22629 | 0.000 | 2.00 | 0.000 | 1734.22 | 0.00 | 86.71 | |
| Aroclor-1232 | 2.76 | 2.82 | 0.00 | 0 | 22291 | 0.000 | 2.00 | 0.000 | 1734.22 | 0.00 | 86.71 | |
| Aroclor-1242 | 3.69 | 3.77 | 0.00 | 0 | 41491 | 0.000 | 2.00 | 0.000 | 1734.22 | 0.00 | 86.71 | |
| Aroclor-1248 | 5.11 | 5.21 | 0.00 | 0 | 97589 | 0.000 | 2.00 | 0.000 | 1734.22 | 0.00 | 86.71 | |
| Aroclor-1254 | 10.40 | 10.62 | 0.00 | 0 | 184691 | 0.000 | 2.00 | 0.000 | 1734.22 | 0.00 | 173.42 | |
| Aroclor-1260 | 13.25 | 13.51 | 0.00 | 0 | 297054 | 0.000 | 2.00 | 0.000 | 1734.22 | 0.00 | 173.42 | |
| DBC | 22.66 | 23.12 | 23.03 | 99848 | 779330 | 0.128 | 2.00 | 0.064 | 1734.22 | 111.09 | 17.34 | HIT |

cf 05/21/90

TITLE: CLP PESTICIDES 17:56 21 MAY 90

CHANNEL NO: 3 SAMPLE: 1691 27 METHOD: CLP-3A

| P | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 48549 | 1.077 | | 48549 | BV | | 2.25 |
| 2 | | 1711 | 1.187 | | 1711 | T | | 1.90 |
| 3 | | 1008 | 1.278 | | 1008 | T | | 1.75 |
| 4 | | 4045 | 1.687 | | 4045 | BB | ? | 5.00 |
| 5 | | 589 | 1.992 | | 589 | BB | | 1.90 |
| 6 | | 79306 | 2.274 | | 79306 | BB | | 4.65 |
| 7 | | 2804 | 2.754 | | 2804 | BV | | 5.90 |
| 8 | B-BHC ORT | 6247 | 2.933 | 0.043 | 6247 | VB | | 6.10 |
| 9 | ALDRIN | 7685 | 3.750 | 0.010 | 7685 | BV | | 11.45 |
| 10 | | 556 | 4.724 | | 556 | BV | ? | 7.30 |
| 11 | | 684 | 4.965 | | 684 | VV | ? | 2.60 |
| 12 | | 606 | 4.997 | | 606 | VV | ? | 15.90 |
| 13 | | 1758 | 5.626 | | 1758 | VV | ? | 14.40 |
| 14 | | 965 | 5.918 | | 965 | VV | ? | 12.50 |
| 15 | G-CHLORDAN | 918 | 5.942 | -0.078 | 918 | VB | ? | 13.10 |
| 16 | A-CHLORDAN NA | 519 | 6.461 | -0.079 | 519 | BV | | 10.00 |
| 17 | | 4043 | 7.104 | | 4043 | VV | | 15.50 |
| 18 | DDE | 21048 | 7.591 | -0.089 | 21048 | VB | | 15.40 |
| 19 | | 1436 | 8.865 | | 1436 | BV | | 18.00 |
| 20 | | 1926 | 9.451 | | 1926 | VV | | 19.10 |
| 21 | | 5561 | 10.585 | | 5561 | VV | | 21.30 |
| 22 | | 1957 | 11.361 | | 1957 | VV | | 20.00 |
| 23 | DDD NA | 1139 | 11.640 | 0.120 | 1139 | T | ? | 63.60 |
| 24 | DDT | 23063 | 13.639 | -0.181 | 23063 | BB | | 29.10 |
| 25 | | 4721 | 17.303 | | 4721 | BV | ? | 44.00 |
| 26 | ESS ORT | 12157 | 18.072 | -0.178 | 12157 | VV | ? | 56.25 |
| 27 | | 12713 | 20.631 | | 12713 | VV | | 43.75 |
| 28 | DBC | 99848 | 23.026 | -0.314 | 99848 | VB | | 47.15 |
| TOTALS: | | 347562 | | -0.746 | 347562 | | | |

DETECTED PKS: 31 REJECTED PKS: 3

NA: not calculated, analyte not present in primary analysis

DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 29.1 OFFSET: -35

PACK: 2 VIAL: 11 INJ: 1

NOTES:
COL: 1.5% SP2250/1.95% SP2401
AMT INJ.2UL/INSTRUMENT LETTER A
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIBLOM CTL 2660 PEST SOILS
VERSCDM CTL 2562 PEST SOIL

DD

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

4

Lab Name: VERSAR, INC. Contract:

b Code: VERSAR Case No.: R3-7 SAS No.: SDG No.: 4

Matrix: (soil/water) SOIL Lab Sample ID: 16909

Sample wt/vol: 1.02 (g/ml) G Lab File ID:

Level: (low/med) MED Date Received: 04/23/90

% Moisture: not dec. 13.8 dec. Date Extracted: 05/01/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/06/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 68 | U |
| 319-85-7 | beta-BHC | 68 | U |
| 319-86-8 | delta-BHC | 68 | U |
| 58-89-9 | gamma-BHC (Lindane) | 68 | U |
| 76-44-8 | Heptachlor | 68 | U |
| 309-00-2 | Aldrin | 68 | U |
| 1024-57-3 | Heptachlor Epoxide | 68 | U |
| 959-98-8 | Endosulfan I | 68 | U |
| 60-57-1 | Dieldrin | 140 | U |
| 72-55-9 | 4,4'-DDE | 140 | U |
| 72-20-8 | Endrin | 140 | U |
| 33213-65-9 | Endosulfan II | 140 | U |
| 72-54-8 | 4,4'-DDD | 140 | U |
| 1031-07-8 | Endosulfan Sulfate | 140 | U |
| 50-29-3 | 4,4'-DDT | 140 | U |
| 72-43-5 | Methoxychlor | 680 | U |
| 53494-70-5 | Endrin Ketone | 140 | U |
| 5103-71-9 | alpha-Chlordane | 140 | U |
| 5103-74-2 | gamma-Chlordane | 140 | U |
| 8001-35-2 | Toxaphene | 1400 | U |
| 12674-11-2 | Aroclor-1016 | 680 | U |
| 11104-28-2 | Aroclor-1221 | 680 | U |
| 11141-16-5 | Aroclor-1232 | 680 | U |
| 53469-21-9 | Aroclor-1242 | 680 | U |
| 12672-29-6 | Aroclor-1248 | 680 | U |
| 11097-69-1 | Aroclor-1254 | 1400 | U |
| 11096-82-5 | Aroclor-1260 | 1400 | U |

PESTICIDE SAMPLE TABLE

EPA SAMPLE NUMBER

4

VERSAR# 16909

MATRIX IS: SOIL

Lab Name: VERSAR, INC.

Lab Code: VERSAR

Instrument ID: A

Run Date: 05/06/90

Inject Vol 2.00 (uL)

Case No.: R3-7

Contract:

SAS No.:

GC Column ID: SP2250/SP2401

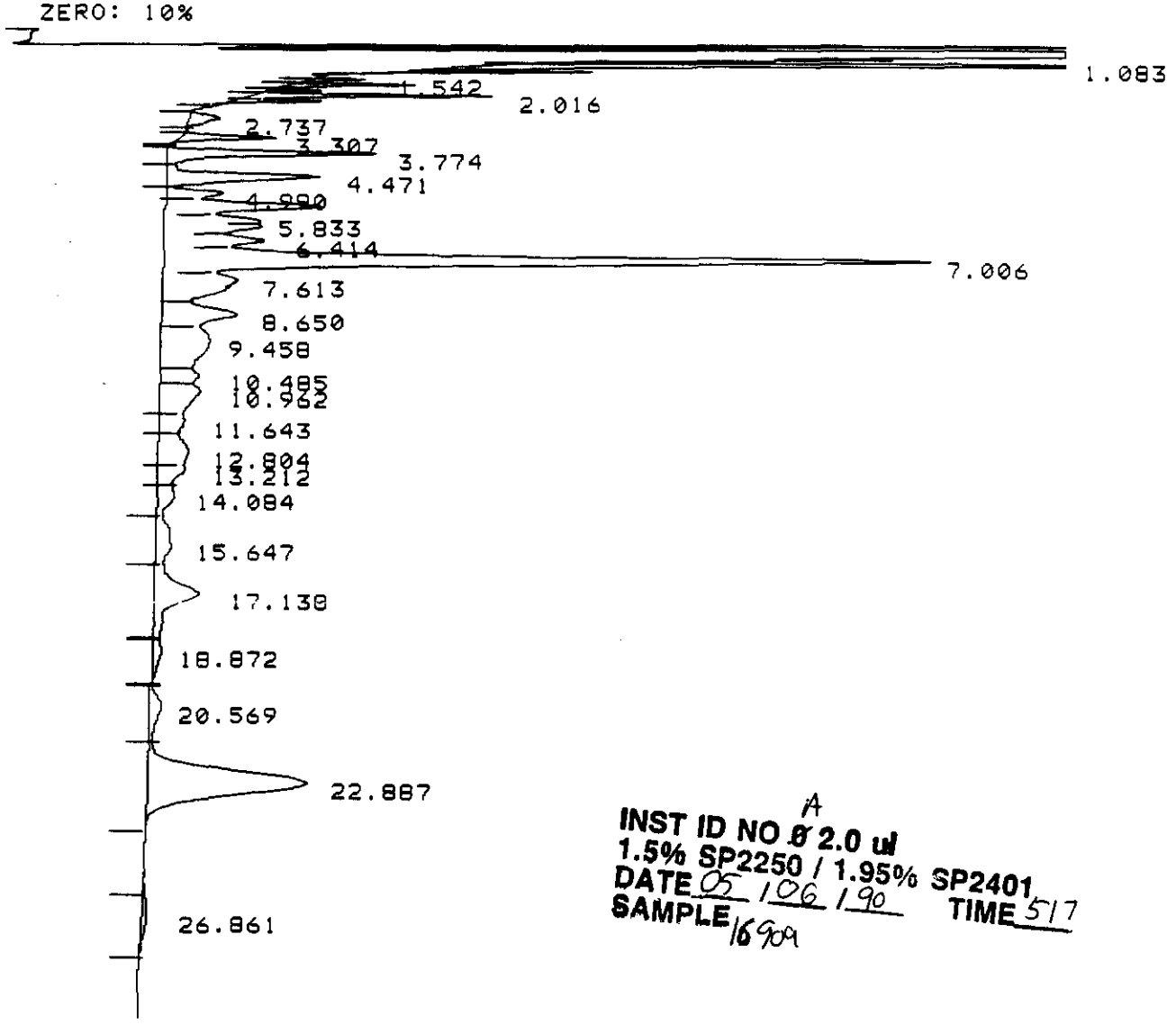
Window Width: 1.0%

| COMPOUND | RT WINDOW FROM | RT WINDOW TO | SAMPLE RT | SAMPLE AREA | / CALIB FACTOR = | NG INJECTED | / INJECT VOLUME (uL) | = INJECT CONC (ug/ml) | X DF | = SAMPLE CONC (ug/kg) | DETECTION LIMIT (ug/kg) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 2.03 | 2.07 | 0.00 | 0 | 1086290 | 0.000 | 2.00 | 0.000 | 13659.52 | 0.00 | 68.30 | |
| beta-BHC | 2.81 | 2.87 | 0.00 | 0 | 308685 | 0.000 | 2.00 | 0.000 | 13659.52 | 0.00 | 68.30 | |
| delta-BHC | 3.28 | 3.34 | 3.31 | 11796 | 974375 | 0.012 | 2.00 | 0.006 | 13659.52 | 82.68 | 68.30 | HIT |
| gamma-BHC | 2.51 | 2.56 | 0.00 | 0 | 934015 | 0.000 | 2.00 | 0.000 | 13659.52 | 0.00 | 68.30 | |
| Heptachlor | 3.04 | 3.10 | 0.00 | 0 | 919020 | 0.000 | 2.00 | 0.000 | 13659.52 | 0.00 | 68.30 | |
| Aldrin | 3.64 | 3.72 | 0.00 | 0 | 910090 | 0.000 | 2.00 | 0.000 | 13659.52 | 0.00 | 68.30 | |
| Hept. epoxide | 5.30 | 5.40 | 5.38 | 37390 | 868365 | 0.043 | 2.00 | 0.022 | 13659.52 | 294.08 | 68.30 | HIT |
| Endosulfan I | 6.61 | 6.74 | 0.00 | 0 | 799290 | 0.000 | 2.00 | 0.000 | 13659.52 | 0.00 | 68.30 | |
| Dieldrin | 8.01 | 8.17 | 0.00 | 0 | 870345 | 0.000 | 2.00 | 0.000 | 13659.52 | 0.00 | 136.60 | |
| 4,4'-DDE | 7.48 | 7.63 | 7.61 | 41800 | 735660 | 0.057 | 2.00 | 0.028 | 13659.52 | 388.07 | 136.60 | HIT |
| Endrin | 9.70 | 9.89 | 0.00 | 0 | 525950 | 0.000 | 2.00 | 0.000 | 13659.52 | 0.00 | 136.60 | |
| Endosulfan II | 11.63 | 11.86 | 11.64 | 11971 | 776255 | 0.015 | 2.00 | 0.008 | 13659.52 | 105.33 | 136.60 | BDL |
| 4,4'-DDD | 11.21 | 11.44 | 0.00 | 0 | 598660 | 0.000 | 2.00 | 0.000 | 13659.52 | 0.00 | 136.60 | |
| Endo.sulfate | 17.76 | 18.12 | 0.00 | 0 | 515975 | 0.000 | 2.00 | 0.000 | 13659.52 | 0.00 | 136.60 | |
| 4,4'DDT | 13.45 | 13.72 | 0.00 | 0 | 577460 | 0.000 | 2.00 | 0.000 | 13659.52 | 0.00 | 136.60 | |
| Methoxychlor | 25.06 | 25.57 | 0.00 | 0 | 259000 | 0.000 | 2.00 | 0.000 | 13659.52 | 0.00 | 682.98 | |
| Endrin ketone | 24.37 | 24.86 | 0.00 | 0 | 776485 | 0.000 | 2.00 | 0.000 | 13659.52 | 0.00 | 136.60 | |
| a. Chlordane | 6.37 | 6.50 | 6.41 | 27388 | 783300 | 0.035 | 2.00 | 0.017 | 13659.52 | 238.80 | 136.60 | HIT |
| g. Chlordane | 5.86 | 5.98 | 5.98 | 22433 | 806505 | 0.028 | 2.00 | 0.014 | 13659.52 | 189.97 | 136.60 | HIT |
| Toxaphene | 10.47 | 10.69 | 0.00 | 0 | 195275 | 0.000 | 2.00 | 0.000 | 13659.52 | 0.00 | 1365.95 | |
| Aroclor-1016 | 2.73 | 2.79 | 0.00 | 0 | 69855 | 0.000 | 2.00 | 0.000 | 13659.52 | 0.00 | 682.98 | |
| Aroclor-1221 | 2.34 | 2.38 | 0.00 | 0 | 3258 | 0.000 | 2.00 | 0.000 | 13659.52 | 0.00 | 682.98 | |
| Aroclor-1232 | 3.01 | 3.07 | 0.00 | 0 | 10260 | 0.000 | 2.00 | 0.000 | 13659.52 | 0.00 | 682.98 | |
| Aroclor-1242 | 3.47 | 3.55 | 0.00 | 0 | 68429 | 0.000 | 2.00 | 0.000 | 13659.52 | 0.00 | 682.98 | |
| Aroclor-1248 | 3.26 | 3.32 | 0.00 | 0 | 55353 | 0.000 | 2.00 | 0.000 | 13659.52 | 0.00 | 682.98 | |
| Aroclor-1254 | 9.32 | 9.50 | 0.00 | 0 | 191151 | 0.000 | 2.00 | 0.000 | 13659.52 | 0.00 | 1365.95 | |
| Aroclor-1260 | 13.28 | 13.54 | 0.00 | 0 | 284536 | 0.000 | 2.00 | 0.000 | 13659.52 | 0.00 | 1365.95 | |
| DBC | 22.69 | 23.15 | 22.89 | 115336 | 730565 | 0.158 | 2.00 | 0.079 | 13659.52 | 1078.23 | 136.60 | HIT |

CA 05/08/90

100060

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10%




INST ID NO A 2.0 ul
1.5% SP2250 / 1.95% SP2401
DATE 05 / 06 / 90 TIME 517
SAMPLE 16909

100061

TITLE: CLP PESTICIDES 5:17 6 MAY 90

CHANNEL NO: 3 SAMPLE: 16909 METHOD: CLP-3A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | | 206312 | 1.083 | | 206312 | BV | 2.85 |
| 2 | | 7134 | 1.276 | | 7134 | T | 2.35 |
| 3 | | 3088 | 1.542 | | 3088 | BV | 3.25 |
| 4 | | 7966 | 1.689 | | 7966 | VV | 3.75 |
| 5 | | 2911 | 1.854 | | 2911 | VV | 3.25 |
| 6 | | 19126 | 2.016 | | 19126 | VV | 4.75 |
| 7 | | 7296 | 2.183 | | 7296 | VB | 3.95 |
| 8 | | 6837 | 2.737 | | 6837 | BB | ? 20.20 |
| 9 | D-BHC | 11796 | 3.307 | -0.053 | 11796 | BB | 7.30 |
| 10 | ALDRIN | 33027 | 3.774 | 0.034 | 33027 | BV | 9.65 |
| 11 | | 34681 | 4.471 | | 34681 | VV | 14.50 |
| 12 | | 12043 | 4.990 | | 12043 | VV | ? 12.90 |
| 13 | HEPT EPOX | 37390 | 5.376 | -0.064 | 37390 | VV | 15.15 |
| 14 | | 18801 | 5.833 | | 18801 | VV | ? 23.20 |
| 15 | G-CHLORDAN | 22433 | 5.978 | -0.042 | 22433 | VV | ? 5.40 |
| | A-CHLORDAN | 27388 | 6.414 | -0.126 | 27388 | VV | ? 20.90 |
| | | 203007 | 7.006 | | 203007 | VV | ? 12.90 |
| 18 | DDE | 41800 | 7.613 | -0.067 | 41800 | VV | ? 44.20 |
| 19 | | 33171 | 8.650 | | 33171 | VV | ? 32.35 |
| 20 | | 45205 | 9.458 | | 45205 | VV | ? 50.20 |
| 21 | | 14328 | 10.485 | | 14328 | VV | ? 20.80 |
| 22 | | 25507 | 10.962 | | 25507 | VV | ? 64.05 |
| 23 | DDD | 11971 | 11.643 | 0.123 | 11971 | VV | ? |
| 24 | | 21379 | 12.804 | | 21379 | VV | ? 55.00 |
| 25 | | 10835 | 13.212 | | 10835 | VV | ? 48.30 |
| 26 | DDT | 9939 | 14.084 | 0.264 | 9939 | VV | ? 23.95 |
| 27 | ENDRIN ALD | 15275 | 15.647 | 0.377 | 15275 | VV | 54.90 |
| 28 | | 35545 | 17.138 | | 35545 | VV | 34.35 |
| 29 | | 6675 | 18.872 | | 6675 | VV | ? 21.95 |
| 30 | | 8930 | 20.569 | | 8930 | VV | 42.35 |
| 31 | DBC | 115336 | 22.887 | -0.453 | 115336 | VB | 46.65 |
| 32 | | 5379 | 26.861 | | 5379 | BB | 59.00 |
| TOTALS: | | 1062510 | | -0.007 | 1062510 | | |

DETECTED PKS: 32 REJECTED PKS: 0

DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 35.2 OFFSET: -15

RACK: 4 VIAL: 8 INJ: 1

NOTES:
): 1.5% SP2250/1.95% SP2401
INJ.2UL/INSTRUMENT LETTER A
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIALBA CTL#'S 2521,2544 PEST SOILS
ENGIHARL CTL# 2534,2542 PEST SOILS & H2O'S
VERSCDM CTL# 2565 PEST SOIL

D

PESTICIDE SAMPLE TABLE

EPA SAMPLE NUMBER

4

VERSAR# 16909

MATRIX IS: SOIL

Lab Name: VERSAR, INC. Case No.: R3-7

Lab Code: VERSAR Contract:

Instrument ID: C SAS No.:

Run Date: 05/09/90 GC Column ID: 3% SP2100

Inject Vol 2.00 (uL) Window Width: 1.0%

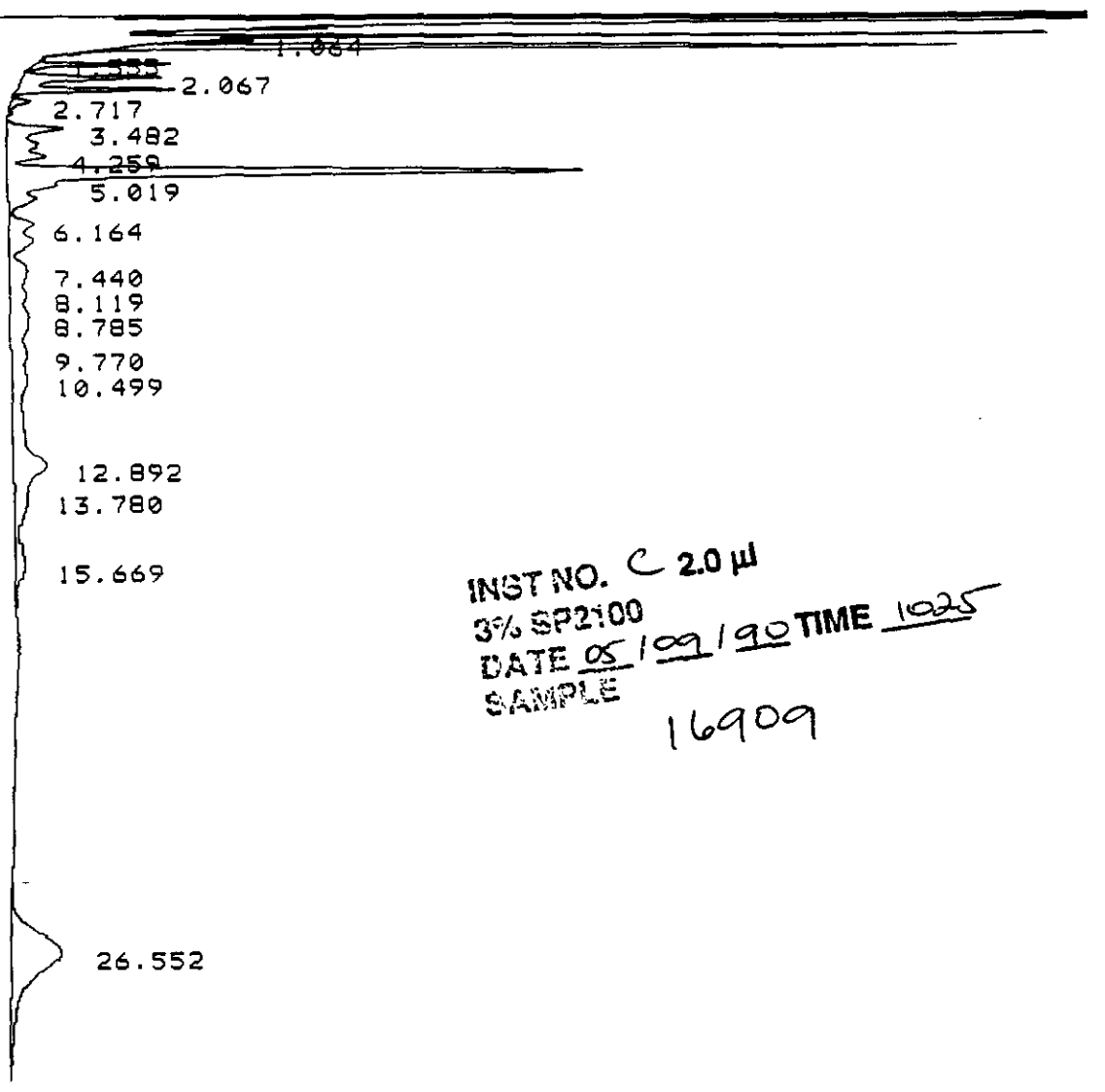
| COMPOUND | RT WINDOW FROM | RT WINDOW TO | SAMPLE RT | SAMPLE AREA | / CALIB FACTOR = | NG INJECTED | / INJECT VOLUME (uL) | = INJECT CONC (ug/ml) | X DF | = SAMPLE CONC (ug/kg) | DETECTION LIMIT (ug/kg) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 1.83 | 1.86 | 0.00 | 0 | 169700 | 0.000 | 2.00 | 0.000 | 13659.52 | 0.00 | 68.30 | |
| beta-BHC | 1.95 | 1.99 | 0.00 | 0 | 71885 | 0.000 | 2.00 | 0.000 | 13659.52 | 0.00 | 68.30 | |
| delta-BHC | 2.21 | 2.26 | 0.00 | 0 | 157285 | 0.000 | 2.00 | 0.000 | 13659.52 | 0.00 | 68.30 | |
| gamma-BHC | 2.15 | 2.19 | 0.00 | 0 | 161580 | 0.000 | 2.00 | 0.000 | 13659.52 | 0.00 | 68.30 | |
| Heptachlor | 3.48 | 3.55 | 0.00 | 0 | 159080 | 0.000 | 2.00 | 0.000 | 13659.52 | 0.00 | 68.30 | |
| Aldrin | 4.31 | 4.40 | 0.00 | 0 | 180455 | 0.000 | 2.00 | 0.000 | 13659.52 | 0.00 | 68.30 | |
| Hept. epoxide | 5.27 | 5.38 | 0.00 | 0 | 178090 | 0.000 | 2.00 | 0.000 | 13659.52 | 0.00 | 68.30 | |
| Endosulfan I | 6.58 | 6.72 | 0.00 | 0 | 170465 | 0.000 | 2.00 | 0.000 | 13659.52 | 0.00 | 68.30 | |
| Dieldrin | 7.71 | 7.87 | 0.00 | 0 | 186530 | 0.000 | 2.00 | 0.000 | 13659.52 | 0.00 | 136.60 | |
| 4,4'-DDE | 7.69 | 7.85 | 0.00 | 0 | 157740 | 0.000 | 2.00 | 0.000 | 13659.52 | 0.00 | 136.60 | |
| Endrin | 8.61 | 8.78 | 0.00 | 0 | 125095 | 0.000 | 2.00 | 0.000 | 13659.52 | 0.00 | 136.60 | |
| Endosulfan II | 8.81 | 8.99 | 0.00 | 0 | 166375 | 0.000 | 2.00 | 0.000 | 13659.52 | 0.00 | 136.60 | |
| 4,4'-DDD | 9.71 | 9.90 | 0.00 | 0 | 126510 | 0.000 | 2.00 | 0.000 | 13659.52 | 0.00 | 136.60 | |
| Endo.sulfate | 11.34 | 11.57 | 0.00 | 0 | 109675 | 0.000 | 2.00 | 0.000 | 13659.52 | 0.00 | 136.60 | |
| 4,4'DDT | 12.75 | 13.01 | 0.00 | 0 | 120595 | 0.000 | 2.00 | 0.000 | 13659.52 | 0.00 | 136.60 | |
| Methoxychlor | 19.11 | 19.50 | 0.00 | 0 | 51455 | 0.000 | 2.00 | 0.000 | 13659.52 | 0.00 | 682.98 | |
| Endrin ketone | 14.59 | 14.89 | 0.00 | 0 | 165390 | 0.000 | 2.00 | 0.000 | 13659.52 | 0.00 | 136.60 | |
| a. Chlordane | 6.71 | 6.84 | 0.00 | 0 | 164465 | 0.000 | 2.00 | 0.000 | 13659.52 | 0.00 | 136.60 | |
| g. Chlordane | 6.04 | 6.17 | 6.16 | 1801 | 169450 | 0.011 | 2.00 | 0.005 | 13659.52 | 72.59 | 136.60 | BDL |
| Toxaphene | 10.88 | 11.10 | 0.00 | 0 | 75165 | 0.000 | 2.00 | 0.000 | 13659.52 | 0.00 | 1365.95 | |
| Aroclor-1016 | 2.59 | 2.65 | 0.00 | 0 | 24479 | 0.000 | 2.00 | 0.000 | 13659.52 | 0.00 | 682.98 | |
| Aroclor-1221 | 1.49 | 1.52 | 0.00 | 0 | 5837 | 0.000 | 2.00 | 0.000 | 13659.52 | 0.00 | 682.98 | |
| Aroclor-1232 | 1.84 | 1.88 | 0.00 | 0 | 6800 | 0.000 | 2.00 | 0.000 | 13659.52 | 0.00 | 682.98 | |
| Aroclor-1242 | 3.84 | 3.92 | 0.00 | 0 | 15170 | 0.000 | 2.00 | 0.000 | 13659.52 | 0.00 | 682.98 | |
| Aroclor-1248 | 4.53 | 4.63 | 0.00 | 0 | 40008 | 0.000 | 2.00 | 0.000 | 13659.52 | 0.00 | 682.98 | |
| Aroclor-1254 | 7.50 | 7.66 | 0.00 | 0 | 62448 | 0.000 | 2.00 | 0.000 | 13659.52 | 0.00 | 1365.95 | |
| Aroclor-1260 | 13.19 | 13.45 | 0.00 | 0 | 82974 | 0.000 | 2.00 | 0.000 | 13659.52 | 0.00 | 1365.95 | |
| DBC | 26.29 | 26.82 | 26.55 | 15412 | 168665 | 0.091 | 2.00 | 0.046 | 13659.52 | 624.08 | 136.60 | HIT |

D

100063

09-May-90

CHART SPEED 0.5 CM/MIN
A N: 4 ZERO: 5%




INST NO. C 2.0 µl
3% SP2100
DATE 05/09/90 TIME 1025
SAMPLE
16909

varian /sunnyvale, calif.p/n 03-9v-o362-00

TITLE: CLP PESTICIDES 10:25 9 MAY 90

CHANNEL NO: 2 SAMPLE: 16909 METHOD: CLP-2A

| PEAK | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| | | 16340 | 1.256 | | 16340 | VV | ? | 6.45 |
| 2 | | 2229 | 1.697 | | 2229 | VV | | 4.25 |
| 3 | G-BHC N/A | 4006 | 2.067 | -0.093 | 4006 | VV | | 6.75 |
| 4 | | 3425 | 2.406 | | 3425 | VV | | 5.60 |
| 5 | HEPTACHLOR N/A | 2582 | 3.482 | -0.018 | 2582 | BV | | 13.20 |
| 6 | | 2141 | 3.895 | | 2141 | VV | ? | 14.20 |
| 7 | ALDRIN N/A | 1790 | 4.259 | -0.081 | 1790 | VV | ? | 12.70 |
| 8 | | 24122 | 4.711 | | 24122 | VV | | 11.35 |
| 9 | | 1852 | 5.019 | | 1852 | VV | ? | 25.30 |
| 10 | HEPT EPOX N/A ORT | 1853 | 5.441 | 0.131 | 1853 | VV | ? | 24.40 |
| 11 | G-CHLORDAN | 1801 | 6.164 | 0.074 | 1801 | VV | ? | 20.30 |
| 12 | A-ENDOSULF N/A | 2316 | 6.609 | -0.021 | 2316 | VV | ? | 31.70 |
| 13 | DDE/DIELD. ORT | 2395 | 7.440 | 0.330 | 2395 | VV | ? | 38.00 |
| 14 | | 1490 | 8.119 | | 1490 | VV | ? | 20.30 |
| 15 | B-ENDOSULF N/A | 3319 | 8.785 | -0.105 | 3319 | VV | ? | 52.80 |
| 16 | DDD N/A | 1893 | 9.770 | -0.020 | 1893 | VV | ? | 32.80 |
| 17 | | 2673 | 10.499 | | 2673 | VV | ? | 30.40 |
| 18 | DDT N/A | 8072 | 12.892 | 0.032 | 8072 | VV | | 66.40 |
| 19 | | 2170 | 13.780 | | 2170 | VV | ? | 5.30 |
| 20 | | 2137 | 15.669 | | 2137 | VB | ? | 40.00 |
| 21 | DBC | 15412 | 26.552 | 0.022 | 15412 | BB | ? | 76.75 |
| TOTALS: | | 104018 | | -0.409 | 104018 | | | |

DETECTED PKS: 26 REJECTED PKS: 5

DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 4.9 OFFSET: -9

R : 4 VIAL: 1 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIHARL 2534 WATER PEST/CLP

N/A - Analyte not present in primary analysis.

D

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9

Lab Name: VERSAR, INC. Contract:

b Code: VERSAR Case No.: R3-7 SAS No.: SDG No.: 4

Matrix: (soil/water) SOIL Lab Sample ID: 16911

Sample wt/vol: 1.00 (g/ml) G Lab File ID:

Level: (low/med) MED Date Received: 04/23/90

% Moisture: not dec. 16.1 dec. Date Extracted: 05/01/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/06/90

GPC Cleanup: (Y/N) N pH: 7.6 Dilution Factor: 1.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 72 | U |
| 319-85-7 | beta-BHC | 72 | U |
| 319-86-8 | delta-BHC | 72 | U |
| 58-89-9 | gamma-BHC (Lindane) | 72 | U |
| 76-44-8 | Heptachlor | 72 | U |
| 309-00-2 | Aldrin | 72 | U |
| 1024-57-3 | Heptachlor Epoxide | 72 | U |
| 959-98-8 | Endosulfan I | 72 | U |
| 60-57-1 | Dieldrin | 140 | U |
| 72-55-9 | 4,4'-DDE | 140 | U |
| 72-20-8 | Endrin | 140 | U |
| 33213-65-9 | Endosulfan II | 140 | U |
| 72-54-8 | 4,4'-DDD | 140 | U |
| 1031-07-8 | Endosulfan Sulfate | 140 | U |
| 50-29-3 | 4,4'-DDT | 140 | U |
| 72-43-5 | Methoxychlor | 720 | U |
| 53494-70-5 | Endrin Ketone | 140 | U |
| 5103-71-9 | alpha-Chlordane | 140 | U |
| 5103-74-2 | gamma-Chlordane | 140 | U |
| 8001-35-2 | Toxaphene | 1400 | U |
| 12674-11-2 | Aroclor-1016 | 720 | U |
| 11104-28-2 | Aroclor-1221 | 720 | U |
| 11141-16-5 | Aroclor-1232 | 720 | U |
| 53469-21-9 | Aroclor-1242 | 720 | U |
| 12672-29-6 | Aroclor-1248 | 720 | U |
| 11097-69-1 | Aroclor-1254 | 1400 | U |
| 11096-82-5 | Aroclor-1260 | 1400 | U |

FORM I PEST 1/87 Rev.

D

100065

JQ 5/9/90

PESTICIDE SAMPLE TABLE

EPA SAMPLE NUMBER

3

VERSAR# 16911

MATRIX IS: SOIL

Lab Name: VERSAR, INC.

Lab Code: VERSAR

Instrument ID: A

Run Date: 05/06/90

Inject Vol 2.00 (uL)

Case No.: R3-7

Contract:

SAS No.:

GC Column ID: SP2250/SP2401

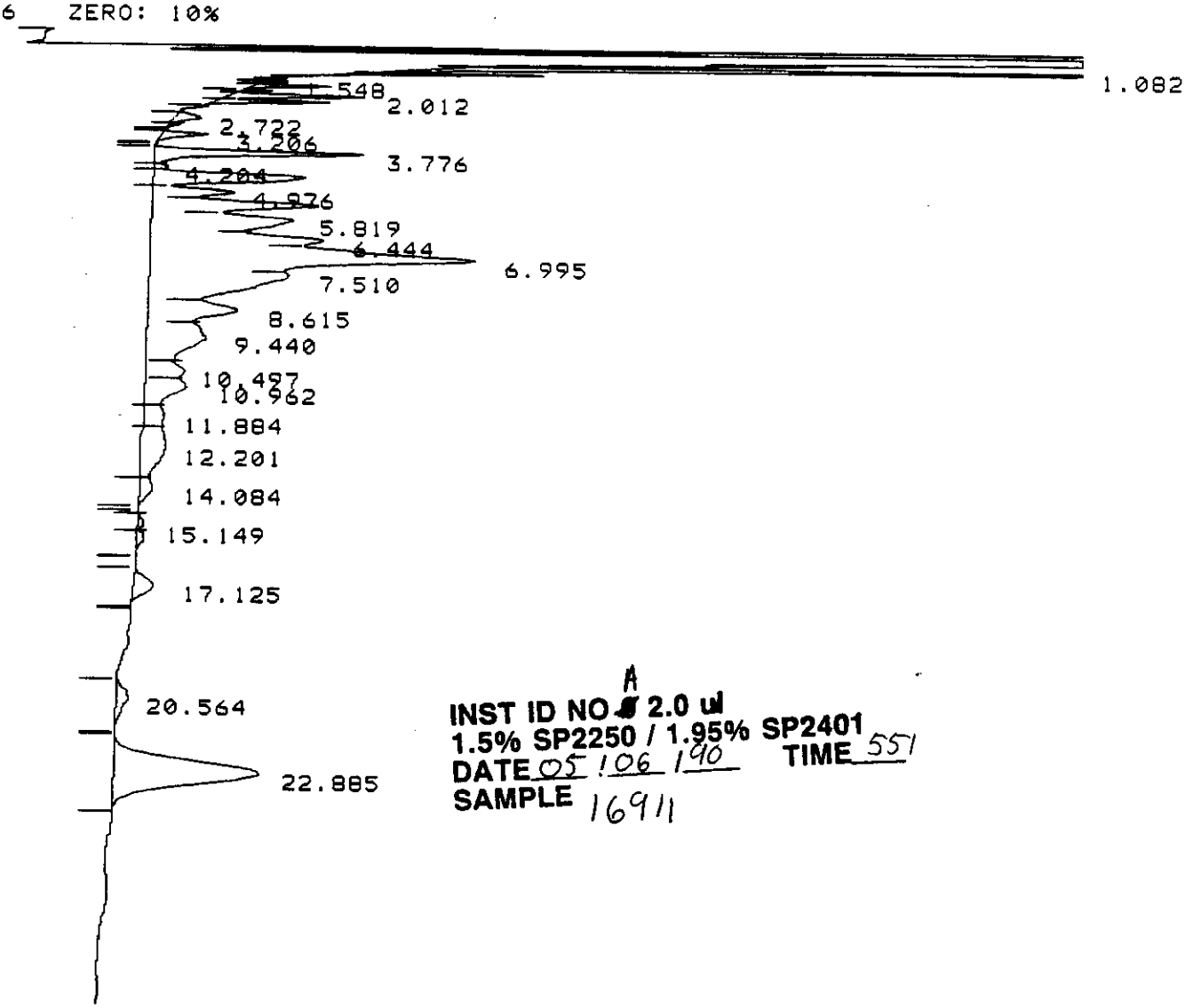
Window Width: 1.0%

| COMPOUND | RT WINDOW FROM | RT WINDOW TO | SAMPLE RT | SAMPLE AREA | / CALIB FACTOR = | NG INJECTED | / INJECT VOLUME (uL) | = INJECT CONC (ug/ml) | X DF | = SAMPLE CONC (ug/kg) | DETECTION LIMIT (ug/kg) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 2.03 | 2.07 | 0.00 | 0 | 1086290 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 71.57 | |
| beta-BHC | 2.81 | 2.87 | 0.00 | 0 | 308685 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 71.57 | |
| delta-BHC | 3.28 | 3.34 | 0.00 | 0 | 974375 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 71.57 | |
| gamma-BHC | 2.51 | 2.56 | 0.00 | 0 | 934015 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 71.57 | |
| Heptachlor | 3.04 | 3.10 | 0.00 | 0 | 919020 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 71.57 | |
| Aldrin | 3.64 | 3.72 | 0.00 | 0 | 910090 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 71.57 | |
| Hept. epoxide | 5.30 | 5.40 | 5.37 | 43006 | 868365 | 0.050 | 2.00 | 0.025 | 14314.66 | 354.47 | 71.57 | HIT |
| Endosulfan I | 6.61 | 6.74 | 0.00 | 0 | 799290 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 71.57 | |
| Dieldrin | 8.01 | 8.17 | 0.00 | 0 | 870345 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 143.15 | |
| 4,4'-DDE | 7.48 | 7.63 | 7.51 | 79961 | 735660 | 0.109 | 2.00 | 0.054 | 14314.66 | 777.95 | 143.15 | HIT |
| Endrin | 9.70 | 9.89 | 0.00 | 0 | 525950 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 143.15 | |
| Endosulfan II | 11.63 | 11.86 | 0.00 | 0 | 776255 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 143.15 | |
| 4,4'-DDD | 11.21 | 11.44 | 0.00 | 0 | 598660 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 143.15 | |
| Endo.sulfate | 17.76 | 18.12 | 0.00 | 0 | 515975 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 143.15 | |
| 4,4'DDT | 13.45 | 13.72 | 0.00 | 0 | 577460 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 143.15 | |
| Methoxychlor | 25.06 | 25.57 | 0.00 | 0 | 259000 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 715.73 | |
| Endrin ketone | 24.37 | 24.86 | 0.00 | 0 | 776485 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 143.15 | |
| a. Chlordane | 6.37 | 6.50 | 6.44 | 50497 | 783300 | 0.064 | 2.00 | 0.032 | 14314.66 | 461.41 | 143.15 | HIT |
| g. Chlordane | 5.86 | 5.98 | 0.00 | 0 | 806505 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 143.15 | |
| Toxaphene | 10.47 | 10.69 | 0.00 | 0 | 195275 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 1431.47 | |
| Aroclor-1016 | 2.73 | 2.79 | 0.00 | 0 | 69855 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 715.73 | |
| Aroclor-1221 | 2.34 | 2.38 | 0.00 | 0 | 3258 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 715.73 | |
| Aroclor-1232 | 3.01 | 3.07 | 0.00 | 0 | 10260 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 715.73 | |
| Aroclor-1242 | 3.47 | 3.55 | 0.00 | 0 | 68429 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 715.73 | |
| Aroclor-1248 | 3.26 | 3.32 | 0.00 | 0 | 55353 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 715.73 | |
| Aroclor-1254 | 9.32 | 9.50 | 0.00 | 0 | 191151 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 1431.47 | |
| Aroclor-1260 | 13.28 | 13.54 | 0.00 | 0 | 284536 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 1431.47 | |
| DBC | 22.69 | 23.15 | 22.89 | 104877 | 730565 | 0.144 | 2.00 | 0.072 | 14314.66 | 1027.48 | 143.15 | HIT |

05/08/90

100067

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10%




INST ID NO A 2.0 ul
1.5% SP2250 / 1.95% SP2401
DATE 05/06/90 TIME 551
SAMPLE 16911

100068

TITLE: CLP PESTICIDES 5:51 6 MAY 90

CHANNEL NO: 3 SAMPLE: 16911 METHOD: CLP-3A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | | 131011 | 1.082 | | 131011 | BV | 2.80 |
| 2 | | 8782 | 1.276 | | 8782 | VB | 2.45 |
| 3 | | 1408 | 1.548 | | 1408 | BV | 3.05 |
| 4 | | 5073 | 1.687 | | 5073 | VV | 3.65 |
| 5 | | 1601 | 1.852 | | 1601 | VV | 3.05 |
| 6 | | 12099 | 2.012 | | 12099 | VV | 5.50 |
| 7 | | 8387 | 2.183 | | 8387 | VB | 4.20 |
| 8 | | 4479 | 2.722 | | 4479 | BV | ? 18.40 |
| 9 | B-BHC | 880 | 2.897 | 0.007 | 880 | VB | 2.65 |
| 10 | HEPTACHLOR | 5465 | 3.206 | 0.086 | 5465 | BB | 7.20 |
| 11 | ALDRIN | 31478 | 3.776 | 0.036 | 31478 | BV | 8.90 |
| 12 | | 1788 | 4.204 | | 1788 | VV | ? 9.10 |
| 13 | | 39281 | 4.496 | | 39281 | VV | 18.00 |
| | | 16624 | 4.976 | | 16624 | VV | ? 13.10 |
| | HEPT EPOX | 43006 | 5.367 | -0.073 | 43006 | VV | 17.70 |
| 16 | | 56680 | 5.819 | | 56680 | VV | ? 23.40 |
| 17 | A-CHLORDAN | 50497 | 6.444 | -0.096 | 50497 | VV | ? 29.70 |
| 18 | | 148472 | 6.995 | | 148472 | VV | ? 33.00 |
| 19 | DDE | 79961 | 7.510 | -0.170 | 79961 | VV | ? 81.15 |
| 20 | | 39975 | 8.615 | | 39975 | VV | ? 41.35 |
| 21 | | 46846 | 9.440 | | 46846 | VV | ? 75.25 |
| 22 | | 16144 | 10.497 | | 16144 | VV | ? 31.30 |
| 23 | | 21884 | 10.962 | | 21884 | VV | ? 41.30 |
| 24 | B-ENDOSULFAN | 11132 | 11.884 | -0.066 | 11132 | VV | ? 28.20 |
| 25 | | 25198 | 12.201 | | 25198 | VV | ?140.80 |
| 26 | DDT | 6115 | 14.084 | 0.264 | 6115 | VB | 17.10 |
| 27 | ENDRIN ALD | 1577 | 15.149 | -0.121 | 1577 | BV | ? 25.30 |
| 28 | | 2075 | 15.399 | | 2075 | VB | ? 55.60 |
| 29 | | 9675 | 17.125 | | 9675 | BB | 28.55 |
| 30 | | 7795 | 20.564 | | 7795 | BV | 43.25 |
| 31 | DBC | 104877 | 22.885 | -0.455 | 104877 | VB | 46.95 |
| TOTALS: | | 940265 | | -0.588 | 940265 | | |

DETECTED PKS: 31 REJECTED PKS: 0

DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 35.2 OFFSET: -81

RACK: 4 VIAL: 10 INJ: 1

NO[illegible]:
[illegible]: 1.5% SP2250/1.95% SP2401
AMT INJ.2UL/INSTRUMENT LETTER A
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIALBA CTL#'S 2521,2544 PEST SOILS
ENGIHARL CTL# 2534,2542 PEST SOILS & H2O'S
VERSCDM CTL# 2565 PEST SOIL

D

PESTICIDE SAMPLE TABLE

EPA SAMPLE NUMBER

9

VERSAR# 16911

MATRIX IS: SOIL

Lab Name: VERSAR, INC. Case No.: R3-7

Lab Code: VERSAR Contract:

Instrument ID: C SAS No.:

Run Date: 05/09/90 GC Column ID: 3% SP2100

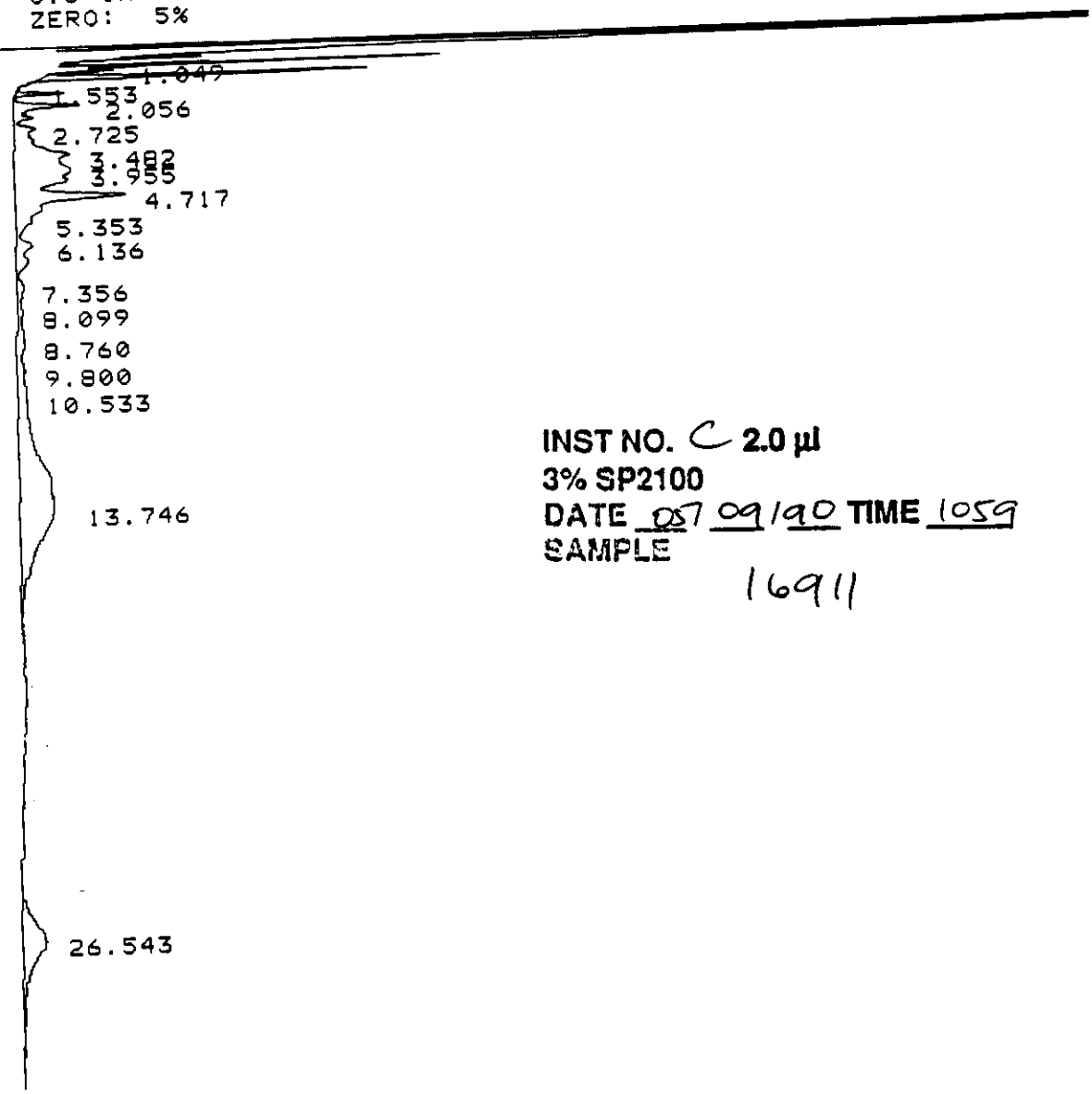
Inject Vol 2.00 (uL) Window Width: 1.0%

| COMPOUND | RT WINDOW FROM | RT WINDOW TO | SAMPLE RT | SAMPLE AREA | / CALIB FACTOR = | NG INJECTED | / INJECT VOLUME (uL) | = INJECT CONC (ug/ml) | X DF | = SAMPLE CONC (ug/kg) | DETECTION LIMIT (ug/kg) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 1.83 | 1.86 | 0.00 | 0 | 169700 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 71.57 | |
| beta-BHC | 1.95 | 1.99 | 0.00 | 0 | 71885 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 71.57 | |
| delta-BHC | 2.21 | 2.26 | 0.00 | 0 | 157285 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 71.57 | |
| gamma-BHC | 2.15 | 2.19 | 0.00 | 0 | 161580 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 71.57 | |
| Heptachlor | 3.48 | 3.55 | 0.00 | 0 | 159080 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 71.57 | |
| Aldrin | 4.31 | 4.40 | 0.00 | 0 | 180455 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 71.57 | |
| Hept. epoxide | 5.27 | 5.38 | 5.35 | 1103 | 178090 | 0.006 | 2.00 | 0.003 | 14314.66 | 44.33 | 71.57 | BDL |
| Endosulfan I | 6.58 | 6.72 | 0.00 | 0 | 170465 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 71.57 | |
| Dieldrin | 7.71 | 7.87 | 0.00 | 0 | 186530 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 143.15 | |
| 4,4'-DDE | 7.69 | 7.85 | 0.00 | 0 | 157740 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 143.15 | |
| Endrin | 8.61 | 8.78 | 0.00 | 0 | 125095 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 143.15 | |
| Endosulfan II | 8.81 | 8.99 | 0.00 | 0 | 166375 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 143.15 | |
| 4,4'-DDD | 9.71 | 9.90 | 0.00 | 0 | 126510 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 143.15 | |
| Endo.sulfate | 11.34 | 11.57 | 0.00 | 0 | 109675 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 143.15 | |
| 4,4'DDT | 12.75 | 13.01 | 0.00 | 0 | 120595 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 143.15 | |
| Methoxychlor | 19.11 | 19.50 | 0.00 | 0 | 51455 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 715.73 | |
| Endrin ketone | 14.59 | 14.89 | 0.00 | 0 | 165390 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 143.15 | |
| a. Chlordane | 6.71 | 6.84 | 0.00 | 0 | 164465 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 143.15 | |
| g. Chlordane | 6.04 | 6.17 | 0.00 | 0 | 169450 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 143.15 | |
| Toxaphene | 10.88 | 11.10 | 0.00 | 0 | 75165 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 1431.47 | |
| Aroclor-1016 | 2.59 | 2.65 | 0.00 | 0 | 24479 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 715.73 | |
| Aroclor-1221 | 1.49 | 1.52 | 0.00 | 0 | 5837 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 715.73 | |
| Aroclor-1232 | 1.84 | 1.88 | 0.00 | 0 | 6800 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 715.73 | |
| Aroclor-1242 | 3.84 | 3.92 | 0.00 | 0 | 15170 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 715.73 | |
| Aroclor-1248 | 4.53 | 4.63 | 0.00 | 0 | 40008 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 715.73 | |
| Aroclor-1254 | 7.50 | 7.66 | 0.00 | 0 | 62448 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 1431.47 | |
| Aroclor-1260 | 13.19 | 13.45 | 0.00 | 0 | 82974 | 0.000 | 2.00 | 0.000 | 14314.66 | 0.00 | 1431.47 | |
| DBC | 26.29 | 26.82 | 26.54 | 7360 | 168665 | 0.044 | 2.00 | 0.022 | 14314.66 | 312.32 | 143.15 | HIT |

D

p/n 03-906362-00

CHART SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%




INST NO. C 2.0 µl
3% SP2100
DATE 057 09/90 TIME 1059
SAMPLE
16911

TITLE: CLP PESTICIDES 10:59 9 MAY 90

CHANNEL NO: 2 SAMPLE: 16911 METHOD: CLP-2A

| P | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | | 5052 | 1.254 | | 5052 | VB | 3.55 |
| 2 | | 820 | 1.690 | | 820 | VV | 4.25 |
| 3 | G-BHC N/A | 1936 | 2.056 | -0.104 | 1936 | VV | 7.15 |
| 4 | | 884 | 2.725 | | 884 | VV | ? 7.00 |
| 5 | HEPTACHLOR N/A | 4263 | 3.482 | -0.018 | 4263 | VV | ? 14.60 |
| 6 | | 5120 | 3.955 | | 5120 | VV | ? 28.20 |
| 7 | ALDRIN N/A | 3070 | 4.241 | -0.099 | 3070 | VV | ? 30.35 |
| 8 | | 6200 | 4.717 | | 6200 | VV | 13.50 |
| 9 | | 1583 | 5.056 | | 1583 | VV | ? 16.25 |
| 10 | HEPT EPOX | 1103 | 5.353 | 0.043 | 1103 | VV | ? 32.30 |
| 11 | G-CHLORDAN N/A | 1274 | 6.136 | 0.046 | 1274 | VV | 20.40 |
| 12 | A-ENDOSULF N/A | 1110 | 6.586 | -0.044 | 1110 | VV | ? 22.35 |
| 13 | | 997 | 7.356 | | 997 | VV | 31.20 |
| 14 | ENDRIN N/A | 1293 | 8.760 | 0.080 | 1293 | VV | 43.20 |
| 15 | DDD N/A | 793 | 9.800 | 0.010 | 793 | VV | ? 28.80 |
| 16 | | 1483 | 10.533 | | 1483 | VV | ? 36.80 |
| 17 | | 22476 | 13.746 | | 22476 | VB | ?118.40 |
| 18 | DBC | 7360 | 26.543 | 0.013 | 7360 | BB | 72.00 |
| TOTALS: | | 66817 | | -0.073 | 66817 | | |

DETECTED PKS: 25 REJECTED PKS: 7

DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 4.9 OFFSET: -12

ROCK: 4 VIAL: 2 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIHARL 2534 WATER PEST/CLP

N/A - Analyte not present in primary analysis.

varian /sunnyvale, calif. p/n 03-90636-00

D

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

11

Lab Name: VERSAR, INC. Contract:

b Code: VERSAR Case No.: R3-7 SAS No.: SDG No.: 4

Matrix: (soil/water) SOIL Lab Sample ID: 16913

Sample wt/vol: 1.14 (g/ml) G Lab File ID:

Level: (low/med) MED Date Received: 04/23/90

% Moisture: not dec. 60.4 dec. Date Extracted: 05/01/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/06/90

GPC Cleanup: (Y/N) N pH: 7.2 Dilution Factor: 1.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 130 | U |
| 319-85-7 | beta-BHC | 130 | U |
| 319-86-8 | delta-BHC | 130 | U |
| 58-89-9 | gamma-BHC (Lindane) | 130 | U |
| 76-44-8 | Heptachlor | 130 | U |
| 309-00-2 | Aldrin | 130 | U |
| 1024-57-3 | Heptachlor Epoxide | 130 | U |
| 959-98-8 | Endosulfan I | 130 | U |
| 60-57-1 | Dieldrin | 270 | U |
| 72-55-9 | 4,4'-DDE | 270 | U |
| 72-20-8 | Endrin | 270 | U |
| 33213-65-9 | Endosulfan II | 270 | U |
| 72-54-8 | 4,4'-DDD | 270 | U |
| 1031-07-8 | Endosulfan Sulfate | 270 | U |
| 50-29-3 | 4,4'-DDT | 270 | U |
| 72-43-5 | Methoxychlor | 1300 | U |
| 53494-70-5 | Endrin Ketone | 270 | U |
| 5103-71-9 | alpha-Chlordane | 270 | U |
| 5103-74-2 | gamma-Chlordane | 270 | U |
| 8001-35-2 | Toxaphene | 2700 | U |
| 12674-11-2 | Aroclor-1016 | 1300 | U |
| 11104-28-2 | Aroclor-1221 | 1300 | U |
| 11141-16-5 | Aroclor-1232 | 1300 | U |
| 53469-21-9 | Aroclor-1242 | 1300 | U |
| 12672-29-6 | Aroclor-1248 | 1300 | U |
| 11097-69-1 | Aroclor-1254 | 2700 | U |
| 11096-82-5 | Aroclor-1260 | 2700 | U |



100073
ga
5/9/90

PESTICIDE SAMPLE TABLE

EPA SAMPLE NUMBER

11

VERSAR# 16913

MATRIX IS: SOIL

Lab Name: VERSAR, INC.

Lab Code: VERSAR

Instrument ID: A

Run Date: 05/06/90

Inject Vol 2.00 (uL)

Case No.: R3-7

Contract:

SAS No.:

GC Column ID: SP2250/SP2401

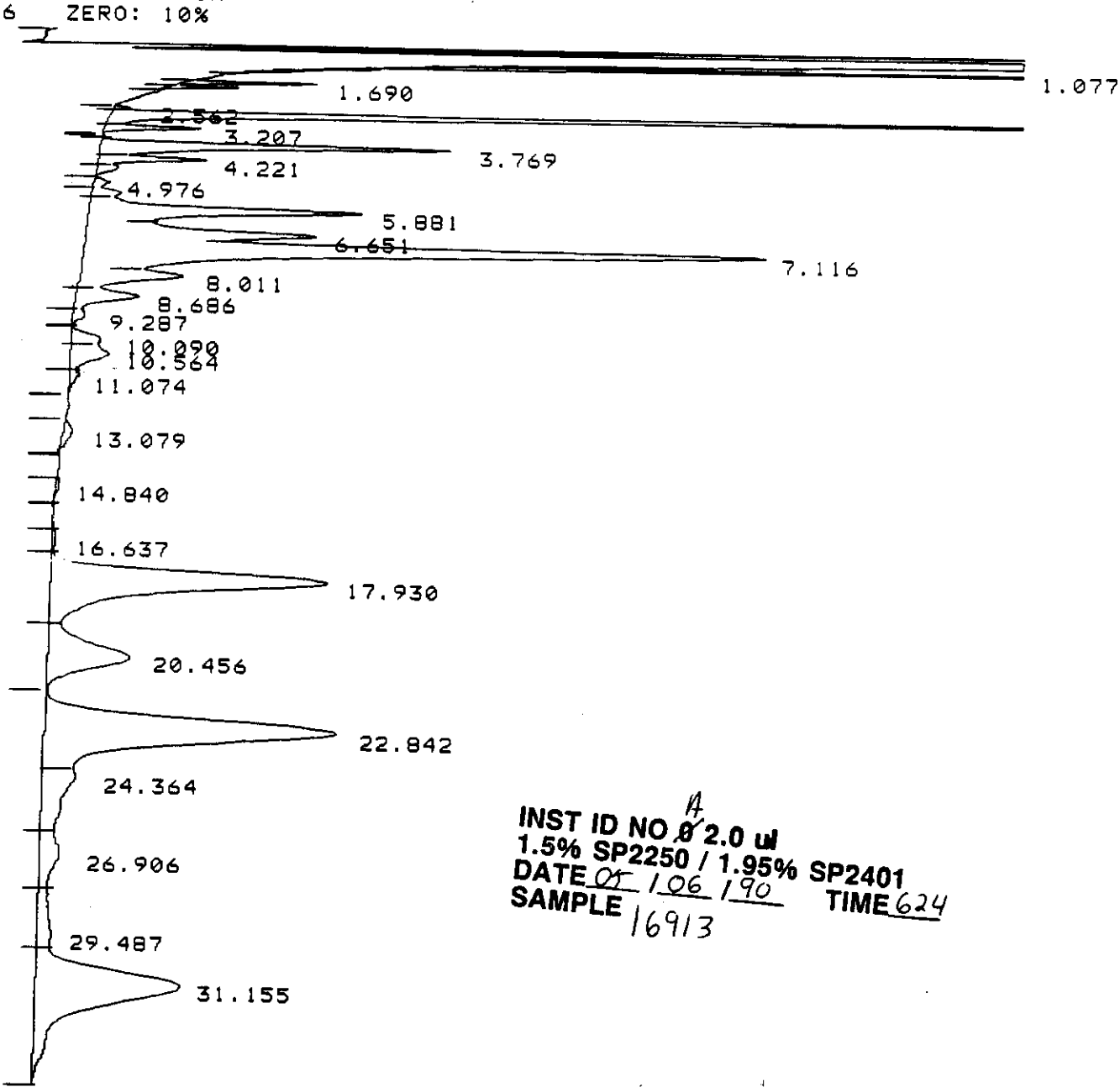
Window Width: 1.0%

| COMPOUND | RT WINDOW FROM | RT WINDOW TO | SAMPLE RT | SAMPLE AREA | / CALIB FACTOR = | NG INJECTED | / INJECT VOLUME (uL) | = INJECT CONC (ug/ml) | X DF | = SAMPLE CONC (ug/kg) | DETECTION LIMIT (ug/kg) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 2.03 | 2.07 | 0.00 | 0 | 1086290 | 0.000 | 2.00 | 0.000 | 26603.76 | 0.00 | 133.02 | |
| beta-BHC | 2.81 | 2.87 | 0.00 | 0 | 308685 | 0.000 | 2.00 | 0.000 | 26603.76 | 0.00 | 133.02 | |
| delta-BHC | 3.28 | 3.34 | 0.00 | 0 | 974375 | 0.000 | 2.00 | 0.000 | 26603.76 | 0.00 | 133.02 | |
| gamma-BHC | 2.51 | 2.56 | 0.00 | 0 | 934015 | 0.000 | 2.00 | 0.000 | 26603.76 | 0.00 | 133.02 | |
| Heptachlor | 3.04 | 3.10 | 0.00 | 0 | 919020 | 0.000 | 2.00 | 0.000 | 26603.76 | 0.00 | 133.02 | |
| Aldrin | 3.64 | 3.72 | 0.00 | 0 | 910090 | 0.000 | 2.00 | 0.000 | 26603.76 | 0.00 | 133.02 | |
| Hept. epoxide | 5.30 | 5.40 | 5.32 | 6215 | 868365 | 0.007 | 2.00 | 0.004 | 26603.76 | 95.20 | 133.02 | RDL |
| Endosulfan I | 6.61 | 6.74 | 6.65 | 76906 | 799290 | 0.096 | 2.00 | 0.048 | 26603.76 | 1279.88 | 133.02 | HIT |
| Dieldrin | 8.01 | 8.17 | 8.01 | 38224 | 870345 | 0.044 | 2.00 | 0.022 | 26603.76 | 584.19 | 266.04 | HIT |
| 4,4'-DDE | 7.48 | 7.63 | 0.00 | 0 | 735660 | 0.000 | 2.00 | 0.000 | 26603.76 | 0.00 | 266.04 | |
| Endrin | 9.70 | 9.89 | 0.00 | 0 | 525950 | 0.000 | 2.00 | 0.000 | 26603.76 | 0.00 | 266.04 | |
| Endosulfan II | 11.63 | 11.86 | 0.00 | 0 | 776255 | 0.000 | 2.00 | 0.000 | 26603.76 | 0.00 | 266.04 | |
| 4,4'-DDD | 11.21 | 11.44 | 0.00 | 0 | 598660 | 0.000 | 2.00 | 0.000 | 26603.76 | 0.00 | 266.04 | |
| Endo.sulfate | 17.76 | 18.12 | 17.93 | 197998 | 515975 | 0.384 | 2.00 | 0.192 | 26603.76 | 5104.40 | 266.04 | HIT |
| 4,4'DDT | 13.45 | 13.72 | 0.00 | 0 | 577460 | 0.000 | 2.00 | 0.000 | 26603.76 | 0.00 | 266.04 | |
| Methoxychlor | 25.06 | 25.57 | 0.00 | 0 | 259000 | 0.000 | 2.00 | 0.000 | 26603.76 | 0.00 | 1330.19 | |
| Endrin ketone | 24.37 | 24.86 | 24.36 | 40353 | 776485 | 0.052 | 2.00 | 0.026 | 26603.76 | 691.28 | 266.04 | HIT |
| a. Chlordane | 6.37 | 6.50 | 0.00 | 0 | 783300 | 0.000 | 2.00 | 0.000 | 26603.76 | 0.00 | 266.04 | |
| g. Chlordane | 5.86 | 5.98 | 5.88 | 80638 | 806505 | 0.100 | 2.00 | 0.050 | 26603.76 | 1329.98 | 266.04 | HIT |
| Toxaphene | 10.47 | 10.69 | 0.00 | 0 | 135275 | 0.000 | 2.00 | 0.000 | 26603.76 | 0.00 | 2660.38 | |
| Aroclor-1016 | 2.73 | 2.79 | 0.00 | 0 | 69855 | 0.000 | 2.00 | 0.000 | 26603.76 | 0.00 | 1330.19 | |
| Aroclor-1221 | 2.34 | 2.38 | 0.00 | 0 | 3258 | 0.000 | 2.00 | 0.000 | 26603.76 | 0.00 | 1330.19 | |
| Aroclor-1232 | 3.01 | 3.07 | 0.00 | 0 | 10260 | 0.000 | 2.00 | 0.000 | 26603.76 | 0.00 | 1330.19 | |
| Aroclor-1242 | 3.47 | 3.55 | 0.00 | 0 | 68429 | 0.000 | 2.00 | 0.000 | 26603.76 | 0.00 | 1330.19 | |
| Aroclor-1248 | 3.26 | 3.32 | 0.00 | 0 | 55353 | 0.000 | 2.00 | 0.000 | 26603.76 | 0.00 | 1330.19 | |
| Aroclor-1254 | 9.32 | 9.50 | 0.00 | 0 | 191151 | 0.000 | 2.00 | 0.000 | 26603.76 | 0.00 | 2660.38 | |
| Aroclor-1260 | 13.28 | 13.54 | 0.00 | 0 | 284536 | 0.000 | 2.00 | 0.000 | 26603.76 | 0.00 | 2660.38 | |
| DBC | 22.69 | 23.15 | 22.84 | 255737 | 730565 | 0.350 | 2.00 | 0.175 | 26603.76 | 4656.37 | 266.04 | HIT |

C+ 05/08/90

100074
08-May-90

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10%




INST ID NO ~~0~~ A 2.0 ul
1.5% SP2250 / 1.95% SP2401
DATE 05 / 06 / 90 TIME 624
SAMPLE 16913

TITLE: CLP PESTICIDES 6:24 6 MAY 90

CHANNEL NO: 3 SAMPLE: 16913 METHOD: CLP-3A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 105835 | 1.077 | | 105835 | BV | | 2.40 |
| 2 | | 1365 | 1.182 | | 1365 | T | | 1.50 |
| 3 | | 852 | 1.272 | | 852 | T | | 1.50 |
| 4 | | 8451 | 1.690 | | 8451 | BV | | 3.80 |
| 5 | | 4222 | 1.854 | | 4222 | VB | | 3.55 |
| 6 | G-BHC | 1158 | 2.562 | -0.018 | 1158 | BV | ? | 5.60 |
| 7 | | 142823 | 2.742 | | 142823 | VV | | 6.05 |
| 8 | HEPTACHLOR | 11746 | 3.207 | 0.087 | 11746 | VB | | 6.70 |
| 9 | ALDRIN | 64796 | 3.769 | 0.029 | 64796 | VV | | 9.90 |
| 10 | | 17187 | 4.221 | | 17187 | VV | | 9.50 |
| 11 | | 4656 | 4.487 | | 4656 | VV | ? | 13.50 |
| 12 | | 2925 | 4.976 | | 2925 | VV | | 12.95 |
| 13 | HEPT EPOX | 6215 | 5.321 | -0.119 | 6215 | VV | ? | 13.40 |
| [illegible] | G-CHLORDAN | 80638 | 5.881 | -0.139 | 80638 | VV | | 15.00 |
| [illegible] | A-CHLORDAN | 76906 | 6.651 | 0.111 | 76906 | VV | ? | 20.10 |
| 16 | | 244847 | 7.116 | | 244847 | VV | | 19.00 |
| 17 | DIELDRIN | 38224 | 8.011 | -0.209 | 38224 | VV | ? | 25.10 |
| 18 | | 21593 | 8.686 | | 21593 | VV | | 16.90 |
| 19 | | 3684 | 9.287 | | 3684 | VV | | 11.80 |
| 20 | ENDRIN | 9940 | 10.090 | 0.130 | 9940 | VV | ? | 24.20 |
| 21 | | 19107 | 10.564 | | 19107 | VV | ? | 38.00 |
| 22 | | 3752 | 11.074 | | 3752 | VB | ? | 49.10 |
| 23 | | 5182 | 13.079 | | 5182 | BB | | 26.40 |
| 24 | ENDRIN ALD | 1668 | 14.840 | -0.430 | 1668 | BB | | 21.35 |
| 25 | | 2317 | 16.637 | | 2317 | BV | ? | 39.30 |
| 26 | ESS | 197998 | 17.930 | -0.320 | 197998 | VV | ? | 51.60 |
| 27 | | 73856 | 20.456 | | 73856 | VV | | 51.15 |
| 28 | DBC | 255737 | 22.842 | -0.498 | 255737 | VV | | 50.85 |
| 29 | ENDRIN KET | 40353 | 24.364 | -0.696 | 40353 | VV | ? | 120.35 |
| 30 | | 24115 | 26.906 | | 24115 | VV | ? | 78.45 |
| 31 | | 19070 | 29.487 | | 19070 | VV | ? | 61.40 |
| 32 | | 178586 | 31.155 | | 178586 | VB | | 66.40 |
| TOTALS: | | 1669800 | | -2.072 | 1669800 | | | |

DETECTED PKS: 33 REJECTED PKS: 1

DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 35.2 OFFSET: -66

RACK: 4 VIAL: 11 INJ: 1

NO[illegible]:
COL: 1.5% SP2250/1.95% SP2401
AMT INJ.2UL/INSTRUMENT LETTER A
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIALBA CTL#'S 2521,2544 PEST SOILS
ENGIHARL CTL# 2534,2542 PEST SOILS & H2O'S
VERSCDM CTL# 2565 PEST SOIL

D

PESTICIDE SAMPLE TABLE

EPA SAMPLE NUMBER

11

VERSAR# 16913

MATRIX IS: SOIL

Lab Name: VERSAR, INC.

Lab Code: VERSAR

Instrument ID: C

Run Date: 05/09/90

Inject Vol 2.00 (uL)

Case No.: R3-7

Contract:

SAS No.:

GC Column ID: 3% SP2100

Window Width: 1.0%

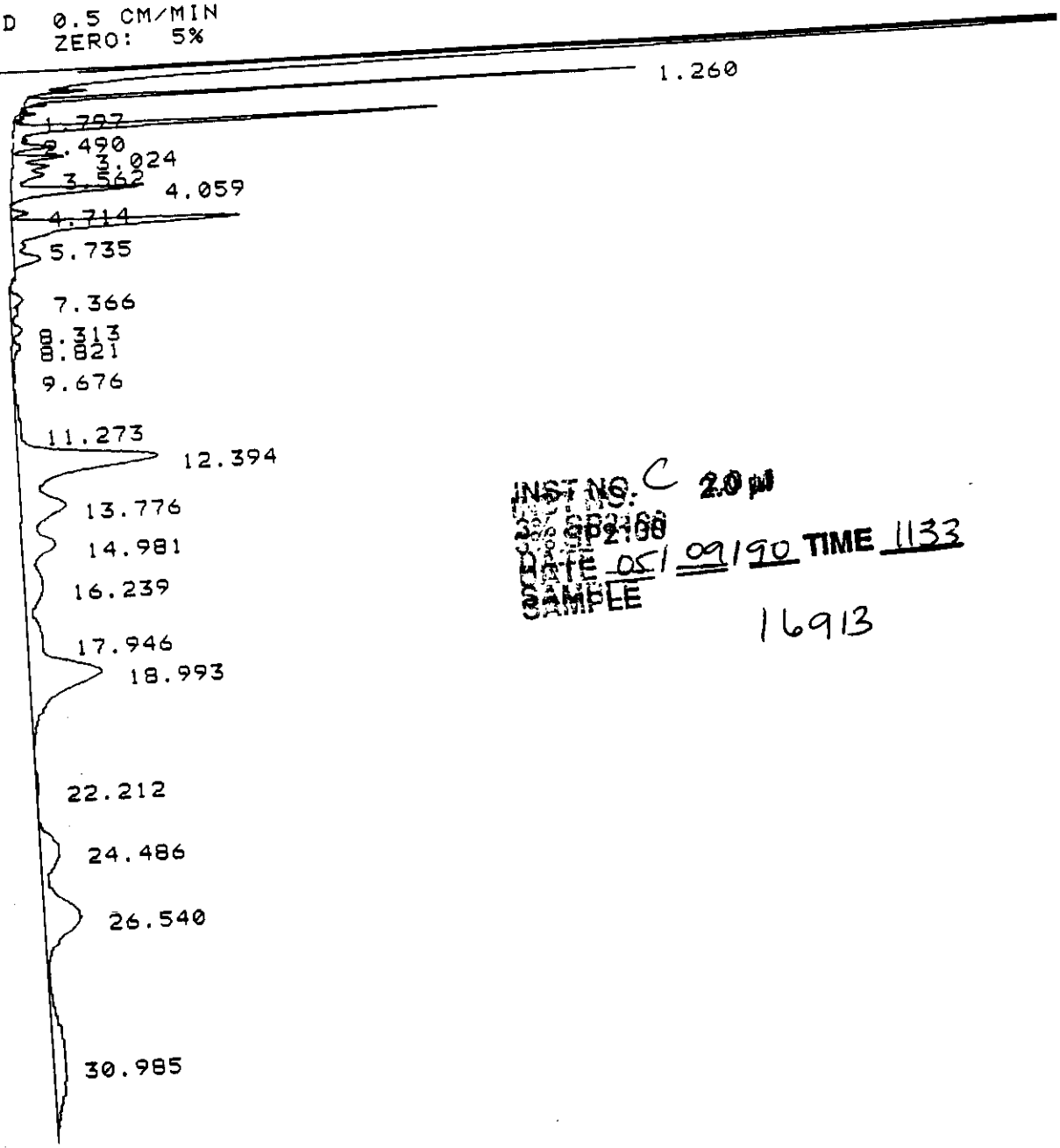
| COMPOUND | RT WINDOW FROM | RT WINDOW TO | SAMPLE RT | SAMPLE AREA | / CALIB FACTOR = | NG INJECTED | / INJECT VOLUME (uL) | = INJECT CONC (ug/ml) | X DF | = SAMPLE CONC (ug/kg) | DETECTION LIMIT (ug/kg) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 1.83 | 1.86 | 0.00 | 0 | 169700 | 0.000 | 2.00 | 0.000 | 26603.76 | 0.00 | 133.02 | |
| beta-BHC | 1.95 | 1.99 | 0.00 | 0 | 71885 | 0.000 | 2.00 | 0.000 | 26603.76 | 0.00 | 133.02 | |
| delta-BHC | 2.21 | 2.26 | 0.00 | 0 | 157285 | 0.000 | 2.00 | 0.000 | 26603.76 | 0.00 | 133.02 | |
| gamma-BHC | 2.15 | 2.19 | 0.00 | 0 | 161580 | 0.000 | 2.00 | 0.000 | 26603.76 | 0.00 | 133.02 | |
| Heptachlor | 3.48 | 3.55 | 0.00 | 0 | 159080 | 0.000 | 2.00 | 0.000 | 26603.76 | 0.00 | 133.02 | |
| Aldrin | 4.31 | 4.40 | 0.00 | 0 | 180455 | 0.000 | 2.00 | 0.000 | 26603.76 | 0.00 | 133.02 | |
| Hept. epoxide | 5.27 | 5.38 | 0.00 | 0 | 178090 | 0.000 | 2.00 | 0.000 | 26603.76 | 0.00 | 133.02 | |
| Endosulfan I | 6.58 | 6.72 | 0.00 | 0 | 170465 | 0.000 | 2.00 | 0.000 | 26603.76 | 0.00 | 133.02 | |
| Dieldrin | 7.71 | 7.87 | 0.00 | 0 | 186530 | 0.000 | 2.00 | 0.000 | 26603.76 | 0.00 | 266.04 | |
| 4,4'-DDE | 7.69 | 7.85 | 0.00 | 0 | 157740 | 0.000 | 2.00 | 0.000 | 26603.76 | 0.00 | 266.04 | |
| Endrin | 8.61 | 8.78 | 0.00 | 0 | 125095 | 0.000 | 2.00 | 0.000 | 26603.76 | 0.00 | 266.04 | |
| Endosulfan II | 8.81 | 8.99 | 0.00 | 0 | 166375 | 0.000 | 2.00 | 0.000 | 26603.76 | 0.00 | 266.04 | |
| 4,4'-DDD | 9.71 | 9.90 | 0.00 | 0 | 126510 | 0.000 | 2.00 | 0.000 | 26603.76 | 0.00 | 266.04 | |
| Endo.sulfate | 11.34 | 11.57 | 0.00 | 0 | 109675 | 0.000 | 2.00 | 0.000 | 26603.76 | 0.00 | 266.04 | |
| 4,4'DDT | 12.75 | 13.01 | 0.00 | 0 | 120595 | 0.000 | 2.00 | 0.000 | 26603.76 | 0.00 | 266.04 | |
| Methoxychlor | 19.11 | 19.50 | 0.00 | 0 | 51455 | 0.000 | 2.00 | 0.000 | 26603.76 | 0.00 | 1330.19 | |
| Endrin ketone | 14.59 | 14.89 | 0.00 | 0 | 165390 | 0.000 | 2.00 | 0.000 | 26603.76 | 0.00 | 266.04 | |
| a. Chlordane | 6.71 | 6.84 | 0.00 | 0 | 164465 | 0.000 | 2.00 | 0.000 | 26603.76 | 0.00 | 266.04 | |
| g. Chlordane | 6.04 | 6.17 | 6.12 | 2030 | 169450 | 0.012 | 2.00 | 0.006 | 26603.76 | 159.36 | 266.04 | BDL |
| Toxaphene | 10.88 | 11.10 | 0.00 | 0 | 75165 | 0.000 | 2.00 | 0.000 | 26603.76 | 0.00 | 2660.38 | |
| Aroclor-1016 | 2.59 | 2.65 | 0.00 | 0 | 24479 | 0.000 | 2.00 | 0.000 | 26603.76 | 0.00 | 1330.19 | |
| Aroclor-1221 | 1.49 | 1.52 | 0.00 | 0 | 5837 | 0.000 | 2.00 | 0.000 | 26603.76 | 0.00 | 1330.19 | |
| Aroclor-1232 | 1.84 | 1.88 | 0.00 | 0 | 6800 | 0.000 | 2.00 | 0.000 | 26603.76 | 0.00 | 1330.19 | |
| Aroclor-1242 | 3.84 | 3.92 | 0.00 | 0 | 15170 | 0.000 | 2.00 | 0.000 | 26603.76 | 0.00 | 1330.19 | |
| Aroclor-1248 | 4.53 | 4.63 | 0.00 | 0 | 40008 | 0.000 | 2.00 | 0.000 | 26603.76 | 0.00 | 1330.19 | |
| Aroclor-1254 | 7.50 | 7.66 | 0.00 | 0 | 62448 | 0.000 | 2.00 | 0.000 | 26603.76 | 0.00 | 2660.38 | |
| Aroclor-1260 | 13.19 | 13.45 | 0.00 | 0 | 82974 | 0.000 | 2.00 | 0.000 | 26603.76 | 0.00 | 2660.38 | |
| DBC | 26.29 | 26.82 | 26.54 | 10890 | 168665 | 0.065 | 2.00 | 0.032 | 26603.76 | 858.85 | 266.04 | HIT |

D

100077

09-May-90

CHART SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%




INST NO. C 2.0 µl
DATE 05/09/90 TIME 1133
SAMPLE 16913

varian /sunnyvale, .ff.p/n 03-906362-00

100078

TITLE: CLP PESTICIDES 11:33 9 MAY 90

CH .EL NO: 2 SAMPLE: 16913 METHOD: CLP-2A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | | 8564 | 1.260 | | 8564 | BV | 3.45 |
| 2 | G-BHC N/A | 11208 | 2.141 | -0.019 | 11208 | VV | 5.90 |
| 3 | | 1322 | 2.694 | | 1322 | VV | ? 7.30 |
| 4 | | 1641 | 3.024 | | 1641 | VV | 7.40 |
| 5 | | 1461 | 3.302 | | 1461 | VV | ? 9.50 |
| 6 | HEPTACHLOR N/A | 1899 | 3.562 | 0.062 | 1899 | VV | ? 15.90 |
| 7 | | 5704 | 4.059 | | 5704 | VB | 10.30 |
| 8 | HEPT EPOX N/A | 12766 | 5.110 | -0.200 | 12766 | VV | 12.70 |
| 9 | G-CHLORDAN | 2030 | 6.118 | 0.028 | 2030 | VB | ? 15.00 |
| 10 | | 908 | 7.366 | | 908 | BV | 19.60 |
| 11 | ENDRIN N/A | 743 | 8.313 | -0.367 | 743 | VV | 18.00 |
| 12 | B-ENDOSULF N/A | 715 | 8.821 | -0.069 | 715 | VV | 21.60 |
| 13 | ESS ORT | 1292 | 11.273 | -0.177 | 1292 | VV | ? 5.60 |
| 14 | DDT N/A | 20533 | 12.394 | -0.466 | 20533 | VV | ? 33.40 |
| 15 | | 8282 | 13.776 | | 8282 | VV | ? 49.40 |
| 16 | END KETONE ORT | 5329 | 14.981 | 0.251 | 5329 | VV | 45.60 |
| 17 | | 4751 | 16.239 | | 4751 | VV | ? 75.05 |
| 18 | | 2938 | 17.946 | | 2938 | VV | ? 51.20 |
| 19 | METHOXYCHL N/A | 16976 | 18.993 | -0.297 | 16976 | VV | 54.40 |
| 20 | | 5099 | 24.486 | | 5099 | VV | 67.70 |
| 21 | DBC | 10890 | 26.540 | 0.010 | 10890 | VV | 72.15 |
| 22 | | 8482 | 30.985 | | 8482 | VB | 112.00 |
| TOTALS: | | 133533 | | -1.244 | 133533 | | |

D CTED PKS: 33 REJECTED PKS: 11

DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 4.9 OFFSET: -16

RACK: 4 VIAL: 4 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIHARL 2534 WATER PEST/CLP
N/A - Analyte not present in primary analysis.

varian /sum, ale, calif p/n 03

100079

Versar INC.

# IV. STANDARDS DATA

DD

8D

D

# PESTICIDE EVALUATION STANDARDS SUMMARY

Lab Name:_____VERSAR_____ Contract:_____

Lab Code: ____VERSAR Case No.: R3-7 SAS No.: SDG No.:4

Instrument ID: ____A GC Column ID: ___SP2250/SP2401

Dates of Analyses:__05/05/90 to __05/07/90

D

## Evaluation Check for Linearity

| PESTICIDE | CALIBRATION FACTOR EVAL MIX A | CALIBRATION FACTOR EVAL MIX B | CALIBRATION FACTOR EVAL MIX C | %RSD (</= 10.0%) | |
|---|---|---|---|---|---|
| ALDRIN_____ | 821400 | 819675 | 839610 | 1.3 | |
| ENDRIN_____ | 496750 | 510500 | 526210 | 2.9 | (1) |
| 4,4'-DDT____ | 463350 | 504375 | 511740 | 5.3 | |
| DBC_____ | 662400 | 675750 | 661800 | 1.2 | |

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

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

| | | DATE ANALYZED | TIME ANALYZED | ENDRIN | 4,4'-DDT | COMBINED (2) | |
|---|---|---|---|---|---|---|---|
| | INITIAL | | | | | | |
| 01 | EVAL MIX B | 05/05/90 | 0736 | 0.0 | 0.0 | | |
| 02 | EVAL MIX B | 05/05/90 | 1830 | 0.0 | 0.0 | | |
| 03 | EVAL MIX B | 05/06/90 | 0119 | 0.0 | 7.3 | | |
| 04 | EVAL MIX B | 05/07/90 | 1505 | 0.0 | 11.5 | | LSB 5/20/90 |
| 05 | EVAL MIX B | | | | | | |
| 06 | EVAL MIX B | | | | | | |
| 07 | EVAL MIX B | | | | | | |
| 08 | EVAL MIX B | | | | | | |
| 09 | EVAL MIX B | | | | | | |
| 10 | EVAL MIX B | | | | | | |
| 11 | EVAL MIX B | | | | | | |
| 12 | EVAL MIX B | | | | | | |
| 13 | EVAL MIX B | | | | | | |
| 14 | EVAL MIX B | | | | | | |

(2) See Form instructions.

FORM VIII PEST-1

100081

D

D

8E

D PESTICIDE EVALUATION STANDARDS SUMMARY

Lab Name:_____VERSAR_____ Contract:_____

Lab Code: ____VERSAR Case No.: R3-7 SAS No.: SDG No.:4

Instrument ID: ____A GC Column ID: ___SP2250/SP2401

Dates of Analyses:__05/05/90 to __05/07/90

D

| | EPA SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | % D | * |
|---|---|---|---|---|---|---|
| 01 | _EVALA | B787 | 05/05/90 | 0702 | 0.000 | |
| 02 | _EVALB | B788 | 05/05/90 | 0736 | 0.298 | |
| 03 | _EVALC | B789 | 05/05/90 | 0810 | 0.478 | |
| 04 | _INDA | B973 | 05/05/90 | 0953 | 0.570 | |
| 05 | _INDB | B974 | 05/05/90 | 1027 | 0.610 | |
| 06 | _AR1660 | B699 | 05/05/90 | 1137 | 0.715 | |
| 07 | _TOXAPH | B767 | 05/05/90 | 1246 | 0.829 | |
| 08 | _AR1242 | B762 | 05/05/90 | 1357 | 0.522 | |
| 09 | _AR1248 | B696 | 05/05/90 | 1431 | 0.487 | |
| 10 | _AR1254 | B761 | 05/05/90 | 1505 | 0.487 | |
| 11 | _ZZZZZ | ZZZZZ | 05/05/90 | 1539 | 0.408 | |
| 12 | _ZZZZZ | ZZZZZ | 05/05/90 | 1613 | 0.312 | |
| 13 | _ZZZZZ | ZZZZZ | 05/05/90 | 1648 | 0.246 | |
| 14 | _ZZZZZ | ZZZZZ | 05/05/90 | 1721 | 0.202 | |
| 15 | _ZZZZZ | ZZZZZ | 05/05/90 | 1755 | 0.039 | |
| 16 | _EVALB | B788 | 05/05/90 | 1830 | 0.092 | |
| 17 | _ZZZZZ | ZZZZZ | 05/05/90 | 1904 | 0.009 | |
| 18 | _ZZZZZ | ZZZZZ | 05/05/90 | 1938 | 0.009 | |
| 19 | _ZZZZZ | ZZZZZ | 05/05/90 | 2012 | 0.127 | |
| 20 | _ZZZZZ | ZZZZZ | 05/05/90 | 2045 | 0.176 | |
| 21 | _ZZZZZ | ZZZZZ | 05/05/90 | 2119 | 0.513 | |
| 22 | _INDA | B973 | 05/05/90 | 2153 | 0.369 | |
| 23 | _ZZZZZ | ZZZZZ | 05/05/90 | 2227 | ND | * |
| 24 | _ZZZZZ | ZZZZZ | 05/05/90 | 2301 | 0.114 | |
| 25 | _ZZZZZ | ZZZZZ | 05/05/90 | 2336 | 0.044 | |
| 26 | _ZZZZZ | ZZZZZ | 05/06/90 | 0011 | 0.026 | |
| 27 | _ZZZZZ | ZZZZZ | 05/06/90 | 0045 | 0.013 | |
| 28 | _EVALB | B788 | 05/06/90 | 0119 | 0.110 | |
| 29 | _ZZZZZ | ZZZZZ | 05/06/90 | 0153 | 0.233 | |
| 30 | _ZZZZZ | ZZZZZ | 05/06/90 | 0227 | 0.241 | |
| 31 | _ZZZZZ | ZZZZZ | 05/06/90 | 0301 | 0.290 | |
| 32 | _ZZZZZ | ZZZZZ | 05/06/90 | 0336 | 0.294 | |
| 33 | _PBLK02 | RB8002 | 05/06/90 | 0410 | 0.303 | |
| 34 | _INDB | B974 | 05/06/90 | 0443 | 0.316 | |
| 35 | _4 | 16909 | 05/06/90 | 0517 | 0.434 | |
| 36 | _9 | 16911 | 05/06/90 | 0551 | 0.426 | |
| 37 | _11 | 16913 | 05/06/90 | 0624 | 0.237 | |
| 38 | _ZZZZZ | ZZZZZ | 05/06/90 | 0703 | 0.180 | |

* Values outside of QC limits (2.0% for packed columns, 0.3% for capillary columns)

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8E

D PESTICIDE EVALUATION STANDARDS SUMMARY

Lab Name:_____VERSAR_____ Contract:_____

Lab Code: ____VERSAR Case No.: R3-7 SAS No.: SDG No.:4

Instrument ID: ____A GC Column ID: ___SP2250/SP2401

Dates of Analyses:__05/05/90 to __05/07/90

D

| | EPA SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | % D | * |
|---|---|---|---|---|---|---|
| 01 | _EVALA | B787 | 05/05/90 | 0702 | 0.000 | |
| 02 | _EVALB | B788 | 05/05/90 | 0736 | 0.298 | |
| 03 | _EVALC | B789 | 05/05/90 | 0810 | 0.478 | |
| 39 | _ZZZZZ | ZZZZZ | 05/06/90 | 0740 | 0.307 | |
| 40 | _EVALB | B788 | 05/07/90 | 1505 | 0.535 | |
| 41 | _ZZZZZ | ZZZZZ | 05/07/90 | 1619 | 0.720 | |
| 42 | _ZZZZZ | ZZZZZ | 05/07/90 | 1834 | 0.110 | |
| 43 | _INDA | B973 | 05/07/90 | 2242 | 0.663 | |
| 44 | _INDB | B974 | 05/07/90 | 2316 | 0.584 | |
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* Values outside of QC limits (2.0% for packed columns, 0.3% for capillary columns)



FORM VIII PEST-2

D

| | EPA SAMPLE NO. | ALDRIN AREA | ENDRIN AREA | ENDRIN A AREA | ENDRIN K AREA | DDT AREA | DDE AREA | DDD AREA | DBC RT | DBC AREA | CONC (ug/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | EVALA | 16428 | 9935 | 0 | 0 | 9267 | 0 | 0 | 22.788 | 13248 | 0.01 |
| 02 | EVALB | 32787 | 20420 | 0 | 0 | 20175 | 0 | 0 | 22.856 | 27030 | 0.02 |
| 03 | EVALC | 83961 | 52621 | 0 | 0 | 51174 | 0 | 0 | 22.897 | 66180 | 0.05 |
| 04 | INDA | | | | | | | | 22.918 | | |
| 05 | INDB | | | | | | | | 22.927 | | |
| 06 | AR1660 | | | | | | | | 22.951 | | |
| 07 | TOXAPH | | | | | | | | 22.977 | | |
| 08 | AR1242 | | | | | | | | 22.907 | | |
| 09 | AR1248 | | | | | | | | 22.899 | | |
| 10 | AR1254 | | | | | | | | 22.899 | | |
| 11 | ZZZZZ | | | | | | | | 22.881 | | |
| 12 | ZZZZZ | | | | | | | | 22.859 | | |
| 13 | ZZZZZ | | | | | | | | 22.844 | | |
| 14 | ZZZZZ | | | | | | | | 22.834 | | |
| 15 | ZZZZZ | | | | | | | | 22.797 | | |
| 16 | EVALB | 35416 | 21523 | 0 | 0 | 20727 | 0 | 0 | 22.767 | 29267 | 0.02 |
| 17 | ZZZZZ | | | | | | | | 22.786 | | |
| 18 | ZZZZZ | | | | | | | | 22.79 | | |
| 19 | ZZZZZ | | | | | | | | 22.817 | | |
| 20 | ZZZZZ | | | | | | | | 22.828 | | |
| 21 | ZZZZZ | | | | | | | | 22.671 | | |
| 22 | INDA | | | | | | | | 22.872 | | |
| 23 | ZZZZZ | | | | | | | | 0 | | |
| 24 | ZZZZZ | | | | | | | | 22.814 | | |
| 25 | ZZZZZ | | | | | | | | 22.778 | | |
| 26 | ZZZZZ | | | | | | | | 22.782 | | |
| 27 | ZZZZZ | | | | | | | | 22.791 | | |
| 28 | EVALB | 34243 | 21719 | 0 | 0 | 18857 | 0 | 1479 | 22.813 | 28651 | 0.02 |
| 29 | ZZZZZ | | | | | | | | 22.841 | | |
| 30 | ZZZZZ | | | | | | | | 22.843 | | |
| 31 | ZZZZZ | | | | | | | | 22.854 | | |
| 32 | ZZZZZ | | | | | | | | 22.855 | | |
| 33 | PBLK02 | | | | | | | | 22.857 | | |
| 34 | INDB | | | | | | | | 22.86 | | |
| 35 | 4 | | | | | | | | 22.887 | | |
| 36 | 9 | | | | | | | | 22.885 | | |
| 37 | 11 | | | | | | | | 22.842 | | |
| 38 | ZZZZZ | | | | | | | | 22.829 | | |

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D

| | EPA SAMPLE NO. | ALDRIN AREA | ENDRIN AREA | ENDRIN A AREA | ENDRIN K AREA | DDT AREA | DDE AREA | DDD AREA | DBC RT | DBC AREA | CONC (ug/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | _EVALA | 16428 | 9935 | 0 | 0 | 9267 | 0 | 0 | 22.788 | 13248 | 0.01 |
| 02 | _EVALB | 32787 | 20420 | 0 | 0 | 20175 | 0 | 0 | 22.856 | 27030 | 0.02 |
| 03 | _EVALC | 83961 | 52621 | 0 | 0 | 51174 | 0 | 0 | 22.897 | 66180 | 0.05 |
| 39 | _ZZZZZ | | | | | | | | 22.858 | | |
| 40 | _EVALB | 32015 | 20847 | 0 | 0 | 19604 | 0 | 2544 | 22.91 | 26382 | 0.02 |
| 41 | _ZZZZZ | | | | | | | | 22.952 | | |
| 42 | _ZZZZZ | | | | | | | | 22.813 | | |
| 43 | _INDA | | | | | | | | 22.939 | | |
| 44 | _INDB | | | | | | | | 22.921 | | |
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8D

# PESTICIDE EVALUATION STANDARDS SUMMARY

Lab Name:_____VERSAR_____ Contract:_____

Lab Code: ____VERSAR Case No.: VERSCDM SAS No.: SDG No.:

Instrument ID: ____C GC Column ID: ___3% SP2100

Dates of Analyses:__05/15/90 to __05/16/90

## Evaluation Check for Linearity

| PESTICIDE | CALIBRATION FACTOR EVAL MIX A | CALIBRATION FACTOR EVAL MIX B | CALIBRATION FACTOR EVAL MIX C | %RSD (</= 10.0%) | |
|---|---|---|---|---|---|
| ALDRIN_____ | 238600 | 263250 | 244770 | 5.1 | |
| ENDRIN_____ | 167250 | 180175 | 167610 | 4.3 | (1) |
| 4,4'-DDT____ | 150600 | 160100 | 159930 | 3.5 | |
| DBC_____ | 228300 | 249275 | 238360 | 4.4 | |

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

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

| | | DATE ANALYZED | TIME ANALYZED | ENDRIN | 4,4'-DDT | COMBINED (2) |
|---|---|---|---|---|---|---|
| | INITIAL | | | | | |
| 01 | EVAL MIX B | 05/15/90 | 1134 | | | 0.0 |
| 02 | EVAL MIX B | 05/16/90 | 0010 | | | 0.0 |
| 03 | EVAL MIX B | | | | | |
| 04 | EVAL MIX B | | | | | |
| 05 | EVAL MIX B | | | | | |
| 06 | EVAL MIX B | | | | | |
| 07 | EVAL MIX B | | | | | |
| 08 | EVAL MIX B | | | | | |
| 09 | EVAL MIX B | | | | | |
| 10 | EVAL MIX B | | | | | |
| 11 | EVAL MIX B | | | | | |
| 12 | EVAL MIX B | | | | | |
| 13 | EVAL MIX B | | | | | |
| 14 | EVAL MIX B | | | | | |

(2) See Form instructions.

KC
5/16/90

8E

PESTICIDE EVALUATION STANDARDS SUMMARY

Lab Name:_____VERSAR_____ Contract:_____

Lab Code: ____VERSAR Case No.: VERSCDM SAS No.: SDG No.:

Instrument ID: ____C GC Column ID: ___3% SP2100

Dates of Analyses:__05/15/90 to __05/16/90

| | EPA SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | % D | * |
|---|---|---|---|---|---|---|
| 01 | _EVALA | B787 | 05/15/90 | 1100 | 0.000 | |
| 02 | _EVALB | B788 | 05/15/90 | 1134 | 0.191 | |
| 03 | _EVALC | B789 | 05/15/90 | 1208 | 0.449 | |
| 04 | _INDA | B775 | 05/15/90 | 1316 | 0.416 | |
| 05 | _INDB | B776 | 05/15/90 | 1350 | 0.382 | |
| 06 | _TOXAPH | B767 | 05/15/90 | 1423 | 0.461 | |
| 07 | _AR1660 | B699 | 05/15/90 | 1457 | 0.494 | |
| 08 | _AR1242 | B762 | 05/15/90 | 1531 | 0.367 | |
| 09 | _AR1248 | B948 | 05/15/90 | 1605 | 0.457 | |
| 10 | _AR1254 | B761 | 05/15/90 | 1639 | 0.311 | |
| 11 | _PBLK61 | RB7961 | 05/15/90 | 1713 | 0.337 | |
| 12 | _GW1 | 16918 | 05/15/90 | 1746 | 0.543 | |
| 13 | _ZZZZZ | ZZZZZ | 05/15/90 | 2115 | 0.333 | |
| 14 | _ZZZZZ | ZZZZZ | 05/15/90 | 2159 | 0.783 | |
| 15 | _ZZZZZ | ZZZZZ | 05/15/90 | 2242 | 0.872 | |
| 16 | _EVALB | B788 | 05/16/90 | 0010 | 0.887 | |
| 17 | _ZZZZZ | ZZZZZ | 05/16/90 | 0054 | ND | * |
| 18 | _ZZZZZ | ZZZZZ | 05/16/90 | 0138 | 1.587 | |
| 19 | _ZZZZZ | ZZZZZ | 05/16/90 | 0221 | 3.302 | * |
| 20 | _ZZZZZ | ZZZZZ | 05/16/90 | 0305 | 3.868 | * |
| 21 | _ZZZZZ | ZZZZZ | 05/16/90 | 0521 | 0.711 | |
| 22 | _INDA | B973 | 05/16/90 | 1011 | 0.198 | |
| 23 | _INDB | B974 | 05/16/90 | 1148 | 0.805 | |
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* Values outside of QC limits (2.0% for packed columns, 0.3% for capillary columns)

KC 5/16/90



FORM VIII PEST-2

| | EPA SAMPLE NO. | ALDRIN AREA | ENDRIN AREA | ENDRIN A AREA | ENDRIN K AREA | DDT AREA | DDE AREA | DDD AREA | DBC RT | DBC AREA | CONC (ug/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | EVALA | 4772 | 3345 | 0 | 0 | 3012 | 0 | 0 | 26.709 | 4566 | 0.01 |
| 02 | EVALB | 10530 | 7207 | 0 | 0 | 6404 | 0 | 0 | 26.658 | 9971 | 0.02 |
| 03 | EVALC | 24477 | 16761 | 0 | 0 | 15993 | 0 | 0 | 26.589 | 23836 | 0.05 |
| 04 | INDA | | | | | | | | 26.598 | | |
| 05 | INDB | | | | | | | | 26.607 | | |
| 06 | TOXAPH | | | | | | | | 26.586 | | |
| 07 | AR1660 | | | | | | | | 26.577 | | |
| 08 | AR1242 | | | | | | | | 26.611 | | |
| 09 | AR1248 | | | | | | | | 26.587 | | |
| 10 | AR1254 | | | | | | | | 26.626 | | |
| 11 | PBLK61 | | | | | | | | 26.619 | | |
| 12 | GW1 | | | | | | | | 26.564 | | |
| 13 | ZZZZZ | | | | | | | | 26.62 | | |
| 14 | ZZZZZ | | | | | | | | 26.5 | | |
| 15 | ZZZZZ | | | | | | | | 26.476 | | |
| 16 | EVALB | 10108 | 7006 | 0 | 0 | 5850 | 0 | 0 | 26.472 | 9353 | 0.02 |
| 17 | ZZZZZ | | | | | | | | 0 | | |
| 18 | ZZZZZ | | | | | | | | 27.133 | | |
| 19 | ZZZZZ | | | | | | | | 27.591 | | |
| 20 | ZZZZZ | | | | | | | | 27.742 | | |
| 21 | ZZZZZ | | | | | | | | 26.899 | | |
| 22 | INDA | | | | | | | | 26.762 | | |
| 23 | INDB | | | | | | | | 26.324 | | |
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KC
5/16/90

8D

# PESTICIDE EVALUATION STANDARDS SUMMARY

Lab Name:_____VERSAR_____ Contract:_____

Lab Code: ____VERSAR Case No.: R3-7 SAS No.: SDG No.:4

Instrument ID: ____C GC Column ID: ___3% SP2100

Dates of Analyses:__05/18/90 to __05/18/90

## Evaluation Check for Linearity

| PESTICIDE | CALIBRATION FACTOR EVAL MIX A | CALIBRATION FACTOR EVAL MIX B | CALIBRATION FACTOR EVAL MIX C | %RSD (</= 10.0%) | |
|---|---|---|---|---|---|
| ALDRIN_____ | 210000 | 211175 | 181710 | 8.3 | |
| ENDRIN_____ | 151550 | 172900 | 146230 | 9.0 | (1) |
| 4,4'-DDT____ | 118100 | 112825 | 105450 | 5.6 | |
| DBC_____ | 163850 | 185100 | 167780 | 6.5 | |

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

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

| | | DATE ANALYZED | TIME ANALYZED | ENDRIN | 4,4'-DDT | COMBINED (2) |
|---|---|---|---|---|---|---|
| | INITIAL | | | | | |
| 01 | EVAL MIX B | 05/18/90 | 0536 | | | 0.0 |
| 02 | EVAL MIX B | 05/18/90 | 1742 | | | 0.0 |
| 03 | EVAL MIX B | | | | | |
| 04 | EVAL MIX B | | | | | |
| 05 | EVAL MIX B | | | | | |
| 06 | EVAL MIX B | | | | | |
| 07 | EVAL MIX B | | | | | |
| 08 | EVAL MIX B | | | | | |
| 09 | EVAL MIX B | | | | | |
| 10 | EVAL MIX B | | | | | |
| 11 | EVAL MIX B | | | | | |
| 12 | EVAL MIX B | | | | | |
| 13 | EVAL MIX B | | | | | |
| 14 | EVAL MIX B | | | | | |

(2) See Form instructions.

cf 05/18/90

FORM VIII PEST-1

8E
PESTICIDE EVALUATION STANDARDS SUMMARY

Lab Name: VERSAR Contract: _____

Lab Code: VERSAR Case No.: R3-7 SAS No.: SDG No.: 4

Instrument ID: C GC Column ID: 3% SP2100

Dates of Analyses: 05/18/90 to 05/18/90

| | EPA SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | % D | * |
|---|---|---|---|---|---|---|
| 01 | EVALA | B787 | 05/18/90 | 0502 | 0.000 | |
| 02 | EVALB | B788 | 05/18/90 | 0536 | 0.207 | |
| 03 | EVALC | B789 | 05/18/90 | 0610 | 0.141 | |
| 04 | INDA | B973 | 05/18/90 | 0718 | 0.081 | |
| 05 | INDB | B974 | 05/18/90 | 0752 | 0.100 | |
| 06 | TOXAPH | B767 | 05/18/90 | 0910 | 1.185 | |
| 07 | AR1660 | B699 | 05/18/90 | 0943 | 1.199 | |
| 08 | AR1242 | B762 | 05/18/90 | 1018 | 1.170 | |
| 09 | AR1248 | B948 | 05/18/90 | 1051 | 1.188 | |
| 10 | AR1254 | B761 | 05/18/90 | 1125 | 1.229 | |
| 11 | ZZZZZ | ZZZZZ | 05/18/90 | 1159 | 1.355 | |
| 12 | ZZZZZ | ZZZZZ | 05/18/90 | 1233 | 1.259 | |
| 13 | PBLK00 | RB8000 | 05/18/90 | 1308 | 1.448 | |
| 14 | 8 | 16920 | 05/18/90 | 1342 | 1.311 | * |
| 15 | 10 | 16922 | 05/18/90 | 1417 | ND | |
| 16 | EVALB | B788 | 05/18/90 | 1742 | 1.159 | |
| 17 | 12 | 16924 | 05/18/90 | 1816 | 1.196 | |
| 18 | 13 | 16925 | 05/18/90 | 1850 | 1.296 | |
| 19 | 14 | 16926 | 05/18/90 | 1923 | 1.307 | |
| 20 | 15 | 16927 | 05/18/90 | 2006 | 1.307 | |
| 21 | 8 | 16920 RE | 05/18/90 | 2040 | 1.259 | |
| 22 | INDB | B974 | 05/18/90 | 2221 | 1.285 | |
| 23 | INDA | B973 | 05/18/90 | 2300 | 1.370 | |
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FC 05/21/90

ND: DBC not determined

* Values outside of QC limits (2.0% for packed columns, 0.3% for capillary columns)

CF 05/08/90

| | EPA SAMPLE NO. | ALDRIN AREA | ENDRIN AREA | ENDRIN A AREA | ENDRIN K AREA | DDT AREA | DDE AREA | DDD AREA | DBC RT | DBC AREA | CONC (ug/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | EVALA | 4200 | 3031 | 0 | 0 | 2362 | 0 | 0 | 27.012 | 3277 | 0.01 |
| 02 | EVALB | 8447 | 6916 | 0 | 0 | 4513 | 0 | 0 | 26.956 | 7404 | 0.02 |
| 03 | EVALC | 18171 | 14623 | 0 | 0 | 10545 | 0 | 0 | 26.974 | 16778 | 0.05 |
| 04 | INDA | | | | | | | | 26.99 | | |
| 05 | INDB | | | | | | | | 26.985 | | |
| 06 | TOXAPH | | | | | | | | 26.632 | | |
| 07 | AR1660 | | | | | | | | 26.688 | | |
| 08 | AR1242 | | | | | | | | 26.696 | | |
| 09 | AR1248 | | | | | | | | 26.691 | | |
| 10 | AR1254 | | | | | | | | 26.68 | | |
| 11 | ZZZZZ | | | | | | | | 26.646 | | |
| 12 | ZZZZZ | | | | | | | | 26.672 | | |
| 13 | PBLK00 | | | | | | | | 26.621 | | |
| 14 | 8 | | | | | | | | 26.658 | | |
| 15 | 10 | | | | | | | | 0 | | |
| 16 | EVALB | 4525 | 3789 | 0 | 0 | 2418 | 0 | 0 | 26.699 | 4223 | 0.02 |
| 17 | 12 | | | | | | | | 26.689 | | |
| 18 | 13 | | | | | | | | 26.662 | | |
| 19 | 14 | | | | | | | | 26.659 | | |
| 20 | 15 | | | | | | | | 26.659 | | |
| 21 | 8 | | | | | | | | 26.672 | | |
| 22 | INDB | | | | | | | | 26.665 | | |
| 23 | INDA | | | | | | | | 26.642 | | |
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# PESTICIDE EVALUATION STANDARDS SUMMARY

Lab Name:_____VERSAR_____ Contract:_____

Lab Code: ____VERSAR Case No.: R3-7 SAS No.: SDG No.:4

Instrument ID: ____C GC Column ID: ___3% SP2100

Dates of Analyses:__05/08/90 to __05/09/90

D

## Evaluation Check for Linearity

| PESTICIDE | CALIBRATION FACTOR EVAL MIX A | CALIBRATION FACTOR EVAL MIX B | CALIBRATION FACTOR EVAL MIX C | %RSD (<= 10.0%) | |
|---|---|---|---|---|---|
| ALDRIN_____ | 189200 | 177660 | 169060 | 5.6 | |
| ENDRIN_____ | 135500 | 129530 | 125315 | 3.9 | (1) |
| 4,4'-DDT____ | 116000 | 111340 | 110780 | 2.5 | |
| DBC_____ | 176775 | 165400 | 163835 | 4.2 | |

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

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

| | | DATE ANALYZED | TIME ANALYZED | ENDRIN | 4,4'-DDT | COMBINED (2) |
|---|---|---|---|---|---|---|
| | INITIAL | | | | | |
| 01 | EVAL MIX B | 05/08/90 | 0928 | | | 3.0 |
| 02 | EVAL MIX B | 05/08/90 | 1802 | | | 0.0 |
| 03 | EVAL MIX B | 05/08/90 | 2325 | | | 0.0 |
| 04 | EVAL MIX B | 05/09/90 | 1211 | | | 0.0 |
| 05 | EVAL MIX B | | | | | |
| 06 | EVAL MIX B | | | | | |
| 07 | EVAL MIX B | | | | | |
| 08 | EVAL MIX B | | | | | |
| 09 | EVAL MIX B | | | | | |
| 10 | EVAL MIX B | | | | | |
| 11 | EVAL MIX B | | | | | |
| 12 | EVAL MIX B | | | | | |
| 13 | EVAL MIX B | | | | | |
| 14 | EVAL MIX B | | | | | |

(2) See Form instructions.

FORM VIII PEST-1

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ga 5/9/90

100092

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8E

D

# PESTICIDE EVALUATION STANDARDS SUMMARY

Lab Name:_____VERSAR_____ Contract:_____

Lab Code: ____VERSAR Case No.: R3-7 SAS No.: SDG No.:4

Instrument ID: ____C GC Column ID: ___3% SP2100

Dates of Analyses:__05/08/90 to __05/09/90

D

| | EPA SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | % D | * |
|---|---|---|---|---|---|---|
| 01 | _EVALA | B788 | 05/08/90 | 0854 | 0.000 | |
| 02 | _EVALB | B789 | 05/08/90 | 0928 | 0.110 | |
| 03 | _EVALC | B790 | 05/08/90 | 1001 | 0.136 | |
| 04 | _INDA | B973 | 05/08/90 | 1035 | 0.298 | |
| 05 | _INDB | B974 | 05/08/90 | 1109 | 0.325 | |
| 06 | _TOXAPH | B767 | 05/08/90 | 1143 | 0.325 | |
| 07 | _AR1660 | B699 | 05/08/90 | 1216 | 0.336 | |
| 08 | _AR1242 | B762 | 05/08/90 | 1251 | 0.374 | |
| 09 | _AR1248 | B948 | 05/08/90 | 1325 | 0.351 | |
| 10 | _AR1254 | B761 | 05/08/90 | 1358 | 0.416 | |
| 11 | _ZZZZZ | ZZZZZ | 05/08/90 | 1508 | 0.306 | |
| 12 | _ZZZZZ | ZZZZZ | 05/08/90 | 1542 | 0.846 | |
| 13 | _ZZZZZ | ZZZZZ | 05/08/90 | 1618 | 0.336 | |
| 14 | _ZZZZZ | ZZZZZ | 05/08/90 | 1652 | 0.348 | |
| 15 | _ZZZZZ | ZZZZZ | 05/08/90 | 1728 | 0.298 | |
| 16 | _EVALB | B789 | 05/08/90 | 1802 | 0.374 | |
| 17 | _ZZZZZ | ZZZZZ | 05/08/90 | 1836 | 0.397 | |
| 18 | _ZZZZZ | ZZZZZ | 05/08/90 | 1910 | 0.431 | |
| 19 | _ZZZZZ | ZZZZZ | 05/08/90 | 1943 | 0.374 | |
| 20 | _ZZZZZ | ZZZZZ | 05/08/90 | 2017 | 0.412 | |
| 21 | _ZZZZZ | ZZZZZ | 05/08/90 | 2050 | 0.329 | |
| 22 | _INDA | B973 | 05/08/90 | 2124 | 0.397 | |
| 23 | _ZZZZZ | ZZZZZ | 05/08/90 | 2218 | 0.344 | |
| 24 | _ZZZZZ | ZZZZZ | 05/08/90 | 2251 | 0.355 | |
| 25 | _EVALB | B789 | 05/08/90 | 2325 | 0.151 | |
| 26 | _INDA | B973 | 05/09/90 | 0000 | 0.298 | |
| 27 | _INDB | B974 | 05/09/90 | 0033 | 0.314 | |
| 28 | _ZZZZZ | ZZZZZ | 05/09/90 | 0107 | 0.291 | |
| 29 | _PBLK02 | RB8002 | 05/09/90 | 0952 | 0.128 | |
| 30 | _4 | 16909 | 05/09/90 | 1025 | 0.302 | |
| 31 | _9 | 16911 | 05/09/90 | 1059 | 0.268 | |
| 32 | _11 | 16913 | 05/09/90 | 1133 | 0.257 | |
| 33 | _EVALB | B789 | 05/09/90 | 1211 | 0.340 | |
| 34 | _INDA | B973 | 05/09/90 | 1614 | 0.370 | |
| 35 | _INDB | B974 | 05/09/90 | 1647 | 0.321 | |
| 36 | | | | | | |
| 37 | | | | | | |
| 38 | | | | | | |

* Values outside of QC limits (2.0% for packed columns, 0.3% for capillary columns)



FORM VIII PEST-2

100093

gc 5/9/90

D

| | EPA SAMPLE NO. | ALDRIN AREA | ENDRIN AREA | ENDRIN A AREA | ENDRIN K AREA | DDT AREA | DDE AREA | DDD AREA | DBC RT | DBC AREA | CONC (ug/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | EVALA | 7568 | 5420 | 0 | 0 | 4640 | 0 | 0 | 26.472 | 7071 | 0.02 |
| 02 | EVALB | 17766 | 12953 | 0 | 0 | 11134 | 0 | 753 | 26.501 | 16540 | 0.05 |
| 03 | EVALC | 33812 | 25063 | 0 | 844 | 22156 | 0 | 1661 | 26.508 | 32767 | 0.1 |
| 04 | INDA | | | | | | | | 26.551 | | |
| 05 | INDB | | | | | | | | 26.558 | | |
| 06 | TOXAPH | | | | | | | | 26.558 | | |
| 07 | AR1660 | | | | | | | | 26.561 | | |
| 08 | AR1242 | | | | | | | | 26.571 | | |
| 09 | AR1248 | | | | | | | | 26.565 | | |
| 10 | AR1254 | | | | | | | | 26.582 | | |
| 11 | ZZZZZ | | | | | | | | 26.553 | | |
| 12 | ZZZZZ | | | | | | | | 26.248 | | |
| 13 | ZZZZZ | | | | | | | | 26.561 | | |
| 14 | ZZZZZ | | | | | | | | 26.564 | | |
| 15 | ZZZZZ | | | | | | | | 26.551 | | |
| 16 | EVALB | 20551 | 14625 | 0 | 0 | 12827 | 0 | 0 | 26.571 | 20338 | 0.05 |
| 17 | ZZZZZ | | | | | | | | 26.577 | | |
| 18 | ZZZZZ | | | | | | | | 26.586 | | |
| 19 | ZZZZZ | | | | | | | | 26.571 | | |
| 20 | ZZZZZ | | | | | | | | 26.581 | | |
| 21 | ZZZZZ | | | | | | | | 26.559 | | |
| 22 | INDA | | | | | | | | 26.577 | | |
| 23 | ZZZZZ | | | | | | | | 26.563 | | |
| 24 | ZZZZZ | | | | | | | | 26.566 | | |
| 25 | EVALB | 18520 | 12879 | 0 | 0 | 10812 | 0 | 0 | 26.512 | 16384 | 0.05 |
| 26 | INDA | | | | | | | | 26.551 | | |
| 27 | INDB | | | | | | | | 26.555 | | |
| 28 | ZZZZZ | | | | | | | | 26.549 | | |
| 29 | PBLK02 | | | | | | | | 26.506 | | |
| 30 | 4 | | | | | | | | 26.552 | | |
| 31 | 9 | | | | | | | | 26.543 | | |
| 32 | 11 | | | | | | | | 26.54 | | |
| 33 | EVALB | 7502 | 5064 | 0 | 0 | 6164 | 0 | 0 | 26.562 | 12027 | 0.05 |
| 34 | INDA | | | | | | | | 26.57 | | |
| 35 | INDB | | | | | | | | 26.557 | | |
| 36 | | | | | | | | | | | |
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8D
PESTICIDE EVALUATION STANDARDS SUMMARY

Lab Name: VERSAR  Contract: _____

Lab Code: VERSAR  Case No.: R3-7  SAS No.: _____  SDG No.: 4

Instrument ID: A  GC Column ID: SP2250/SP2401

Dates of Analyses: 05/21/90 to 05/21/90

Evaluation Check for Linearity

| PESTICIDE | CALIBRATION FACTOR EVAL MIX A | CALIBRATION FACTOR EVAL MIX B | CALIBRATION FACTOR EVAL MIX C | XRSD (</= 10.0%) | |
|---|---|---|---|---|---|
| ALDRIN | 695950 | 712700 | 744020 | 3.4 | |
| ENDRIN | 413250 | 448600 | 441790 | 4.3 | (1) |
| 4,4'-DDT | 420500 | 453375 | 473240 | 5.9 | |
| DBC | 605800 | 597275 | 631580 | 2.9 | |

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

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

| | | DATE ANALYZED | TIME ANALYZED | ENDRIN | 4,4'-DDT | COMBINED (2) |
|---|---|---|---|---|---|---|
| | INITIAL | | | | | |
| 01 | EVAL MIX B | 05/21/90 | 0843 | 0.0 | 0.0 | |
| 02 | EVAL MIX B | 05/21/90 | 1722 | 0.0 | 0.0 | |
| 03 | EVAL MIX B | | | | | |
| 04 | EVAL MIX B | | | | | |
| 05 | EVAL MIX B | | | | | |
| 06 | EVAL MIX B | | | | | |
| 07 | EVAL MIX B | | | | | |
| 08 | EVAL MIX B | | | | | |
| 09 | EVAL MIX B | | | | | |
| 10 | EVAL MIX B | | | | | |
| 11 | EVAL MIX B | | | | | |
| 12 | EVAL MIX B | | | | | |
| 13 | EVAL MIX B | | | | | |
| 14 | EVAL MIX B | | | | | |

(2) See Form instructions.

Cf 05/21/90

FORM VIII PEST-1

8E

# PESTICIDE EVALUATION STANDARDS SUMMARY

Lab Name: VERSAR Contract: _____

Lab Code: VERSAR Case No.: R3-7 SAS No.: SDG No.: 4

Instrument ID: A GC Column ID: SP2250/SP2401

Dates of Analyses: 05/21/90 to 05/21/90

| | EPA SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | % D | * |
|---|---|---|---|---|---|---|
| 01 | EVALA | B787 | 05/21/90 | 0809 | 0.000 | |
| 02 | EVALB | B788 | 05/21/90 | 0843 | 0.057 | |
| 03 | EVALC | B789 | 05/21/90 | 0916 | 0.109 | |
| 04 | INDA | B973 | 05/21/90 | 1024 | 0.197 | |
| 05 | INDB | B973 | 05/21/90 | 1058 | 0.236 | |
| 06 | TOXAPH | B767 | 05/21/90 | 1132 | 0.175 | |
| 07 | AR1660 | B699 | 05/21/90 | 1207 | 0.241 | |
| 08 | AR1242 | B762 | 05/21/90 | 1241 | 0.271 | |
| 09 | AR1248 | B948 | 05/21/90 | 1315 | 0.337 | |
| 10 | AR1254 | B761 | 05/21/90 | 1349 | 0.285 | |
| 11 | PBLK00 | RB8000 | 05/21/90 | 1432 | 0.495 | |
| 12 | 8 | 16920 | 05/21/90 | 1506 | 0.727 | |
| 13 | 12 | 16924 | 05/21/90 | 1541 | 0.490 | |
| 14 | 13 | 16925 | 05/21/90 | 1615 | 0.661 | |
| 15 | 14 | 16926 KC 05/22/90 | 05/21/90 | 1649 | 0.779 | |
| 16 | EVALB | B788 | 05/21/90 | 1722 | 0.806 | |
| 17 | 15 | 16927 | 05/21/90 | 1756 | 0.828 | |
| 18 | ZZZZZ | ZZZZZ | 05/21/90 | 1830 | 0.832 | |
| 19 | ZZZZZ | ZZZZZ | 05/21/90 | 1904 | 0.893 | |
| 20 | INDA | B973 | 05/21/90 | 1938 | 0.766 | |
| 21 | INDB | B974 | 05/21/90 | 2011 | 0.723 | |
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* Values outside of QC limits (2.0% for packed columns, 0.3% for capillary columns)

CF 05/21/90



FORM VIII PEST-2

| | EPA SAMPLE NO. | ALDRIN AREA | ENDRIN AREA | ENDRIN A AREA | ENDRIN K AREA | DDT AREA | DDE AREA | DDD AREA | DBC RT | DBC AREA | CONC (ug/ml) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | EVALA | 13919 | 8265 | 0 | 0 | 8410 | 0 | 0 | 22.837 | 12116 | 0.01 |
| 02 | EVALB | 28508 | 17944 | 0 | 0 | 18135 | 0 | 0 | 22.85 | 23891 | 0.02 |
| 03 | EVALC | 74402 | 44179 | 0 | 0 | 47324 | 0 | 0 | 22.862 | 63158 | 0.05 |
| 04 | INDA | | | | | | | | 22.882 | | |
| 05 | INDB | | | | | | | | 22.891 | | |
| 06 | TOXAPH | | | | | | | | 22.877 | | |
| 07 | AR1660 | | | | | | | | 22.892 | | |
| 08 | AR1242 | | | | | | | | 22.899 | | |
| 09 | AR1248 | | | | | | | | 22.914 | | |
| 10 | AR1254 | | | | | | | | 22.902 | | |
| 11 | PBLK00 | | | | | | | | 22.95 | | |
| 12 | 8 | | | | | | | | 23.003 | | |
| 13 | 12 | | | | | | | | 22.949 | | |
| 14 | 13 | | | | | | | | 22.988 | | |
| 15 | 14 | | | | | | | | 23.015 | | |
| 16 | EVALB | 27367 | 18952 | 0 | 0 | 17240 | 0 | 0 | 23.021 | 23310 | 0.02 |
| 17 | 15 | | | | | | | | 23.026 | | |
| 18 | ZZZZZ | | | | | | | | 23.027 | | |
| 19 | ZZZZZ | | | | | | | | 23.041 | | |
| 20 | INDA | | | | | | | | 23.012 | | |
| 21 | INDB | | | | | | | | 23.002 | | |
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C J 05/21/90

PESTICIDE/PCB STANDARDS ENTRY FORM

Lab Name: VERSAR, INC. Case No.: R3-7

Lab Code: VERSAR Contract:

Instrument ID: A SAS No.:

Run Date: 05/05,06/90 GC Column ID: SP2250/SP2401

Inject Vol: 2.00 (uL) Window Width: 1.0%

| COMPOUND | CONC. IN STD (uG/ML) | WINDOW WIDTH | FIRST STD RT | FIRST STD RAW AREA | SECOND STD RT | SECOND STD RAW AREA | THIRD STD RT | THIRD STD RAW AREA |
|---|---|---|---|---|---|---|---|---|
| lpha-BHC | 0.10 | 0.02 | 2.05 | 217258 | 0.00 | 0 | 2.04 | 236346 |
| .eta-BHC | 0.10 | 0.03 | 2.84 | 61737 | 0.00 | 0 | 2.84 | 66801 |
| delta-BHC | 0.10 | 0.03 | 3.31 | 194875 | 0.00 | 0 | 3.30 | 207546 |
| gamma-BHC | 0.10 | 0.03 | 2.54 | 186803 | 2.53 | 195490 | 0.00 | 0 |
| Heptachlor | 0.10 | 0.03 | 3.07 | 183804 | 0.00 | 0 | 3.07 | 192497 |
| Aldrin | 0.10 | 0.04 | 3.68 | 182018 | 3.67 | 189949 | 0.00 | 0 |
| Hept. epoxide | 0.10 | 0.05 | 5.35 | 173673 | 5.34 | 180966 | 0.00 | 0 |
| Endosulfan I | 0.10 | 0.07 | 6.68 | 159858 | 6.67 | 166642 | 0.00 | 0 |
| Dieldrin | 0.10 | 0.08 | 8.09 | 174069 | 8.08 | 183578 | 0.00 | 0 |
| ^.4'-DDE | 0.10 | 0.08 | 7.56 | 147132 | 0.00 | 0 | 7.54 | 159101 |
| .drin | 0.10 | 0.10 | 9.80 | 105190 | 0.00 | 0 | 9.77 | 111518 |
| Endosulfan II | 0.10 | 0.12 | 11.75 | 155251 | 11.73 | 171268 | 0.00 | 0 |
| 4,4'-DDD | 0.10 | 0.11 | 11.33 | 119732 | 0.00 | 0 | 11.29 | 128549 |
| Endo.sulfate | 0.10 | 0.18 | 17.94 | 103195 | 0.00 | 0 | 17.89 | 113064 |
| 4,4'DDT | 0.10 | 0.14 | 13.59 | 115492 | 13.56 | 97661 | 0.00 | 0 |
| Methoxychlor | 0.10 | 0.25 | 25.31 | 51800 | 0.00 | 0 | 25.23 | 50724 |
| Endrin ketone | 0.10 | 0.25 | 24.62 | 155297 | 24.57 | 158081 | 0.00 | 0 |
| . Chlordane | 0.10 | 0.06 | 6.44 | 156660 | 0.00 | 0 | 6.42 | 168939 |
| g. Chlordane | 0.10 | 0.06 | 5.92 | 161301 | 0.00 | 0 | 5.91 | 175764 |
| Toxaphene | 2.50 | 0.11 | 10.58 | 976375 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1016 | 1.00 | 0.03 | 2.76 | 139710 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1221 | 5.00 | 0.02 | 2.36 | 32580 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1232 | 2.50 | 0.03 | 3.04 | 51300 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1242 | 2.50 | 0.04 | 3.51 | 342145 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1248 | 1.00 | 0.03 | 3.29 | 110706 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1254 | 1.00 | 0.09 | 9.41 | 382302 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1260 | 1.00 | 0.13 | 13.41 | 569072 | 0.00 | 0 | 0.00 | 0 |
| DBC | 0.10 | 0.23 | 22.92 | 146113 | 22.87 | 152921 | 22.86 | 156079 |

PESTICIDE/PCB STANDARDS ENTRY FORM

Lab Name: VERSAR, INC. Case No.: R3-7

Lab Code: VERSAR Contract:

Instrument ID: A SAS No.:

Run Date: 05/05,07/90 GC Column ID: SP2250/SP2401

Inject Vol: 2.00 (uL) Window Width: 1.0%

| COMPOUND | CONC. IN STD (uG/ML) | WINDOW WIDTH | FIRST STD RT | FIRST STD RAW AREA | FOURTH STD RT | FOURTH STD RAW AREA | FIFTH STD RT | FIFTH STD RAW AREA |
|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 0.10 | 0.02 | 2.05 | 217258 | 0.00 | 0 | 2.05 | 201470 |
| eta-BHC | 0.10 | 0.03 | 2.84 | 61737 | 0.00 | 0 | 2.85 | 58514 |
| delta-BHC | 0.10 | 0.03 | 3.31 | 194875 | 0.00 | 0 | 3.31 | 181241 |
| gamma-BHC | 0.10 | 0.03 | 2.54 | 186803 | 2.54 | 178483 | 0.00 | 0 |
| Heptachlor | 0.10 | 0.03 | 3.07 | 183804 | 0.00 | 0 | 3.08 | 160168 |
| Aldrin | 0.10 | 0.04 | 3.68 | 182018 | 3.68 | 172772 | 0.00 | 0 |
| Hept. epoxide | 0.10 | 0.05 | 5.35 | 173673 | 5.35 | 168336 | 0.00 | 0 |
| Endosulfan I | 0.10 | 0.07 | 6.68 | 159858 | 6.68 | 155735 | 0.00 | 0 |
| Dieldrin | 0.10 | 0.08 | 8.09 | 174069 | 8.10 | 169195 | 0.00 | 0 |
| 4,4'-DDE | 0.10 | 0.08 | 7.56 | 147132 | 0.00 | 0 | 7.56 | 137040 |
| Endrin | 0.10 | 0.10 | 9.80 | 105190 | 0.00 | 0 | 9.80 | 92619 |
| Endosulfan II | 0.10 | 0.12 | 11.75 | 155251 | 11.76 | 164973 | 0.00 | 0 |
| 4,4'-DDD | 0.10 | 0.11 | 11.33 | 119732 | 0.00 | 0 | 11.33 | 111709 |
| Endo.sulfate | 0.10 | 0.18 | 17.94 | 103195 | 0.00 | 0 | 17.93 | 94937 |
| 4,4'DDT | 0.10 | 0.14 | 13.59 | 115492 | 13.60 | 81669 | 0.00 | 0 |
| Methoxychlor | 0.10 | 0.25 | 25.31 | 51800 | 0.00 | 0 | 25.30 | 37087 |
| Endrin ketone | 0.10 | 0.25 | 24.62 | 155297 | 24.64 | 144347 | 0.00 | 0 |
| a. Chlordane | 0.10 | 0.06 | 6.44 | 156660 | 0.00 | 0 | 6.44 | 145090 |
| . Chlordane | 0.10 | 0.06 | 5.92 | 161301 | 0.00 | 0 | 5.93 | 151541 |
| foxaphene | 2.50 | 0.11 | 10.58 | 976375 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1016 | 1.00 | 0.03 | 2.76 | 139710 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1221 | 5.00 | 0.02 | 2.36 | 32580 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1232 | 2.50 | 0.03 | 3.04 | 51300 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1242 | 2.50 | 0.04 | 3.51 | 342145 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1248 | 1.00 | 0.03 | 3.29 | 110706 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1254 | 1.00 | 0.09 | 9.41 | 382302 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1260 | 1.00 | 0.13 | 13.41 | 569072 | 0.00 | 0 | 0.00 | 0 |
| DBC | 0.10 | 0.23 | 22.92 | 146113 | 22.94 | 140405 | 22.92 | 133936 |

08-May-90

# PESTICIDE/PCB STANDARDS SUMMARY

ORIGINAL (Red)

Lab Name:_____VERSAR, INC. Contract:_____

Lab Code: ____VERSAR Case No.:R3-7 SAS No.:__ SDG NO.: _____4

Instrument ID:_____A GC Column ID: ___SP2250/SP2401

| | | |
|---|---|---|
| DATE(S) OF ANALYSIS | FROM:____05/05/90 TO:____05/05/90 | DATE OF ANALYSIS _05/05/90 |
| TIME(S) OF ANALYSIS | FROM:____0953 TO:____1505 | TIME OF ANALYSIS _2153 |
| | | EPA SAMPLE NO. (STANDARD) ___INDA |

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALIBRATION FACTOR | RT | CALIBRATION FACTOR | QNT Y/N | %D |
|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 2.05 | 2.03 | 2.07 | 1086290 | 0.00 | 0 | Y | 0 |
| beta-BHC | 2.84 | 2.81 | 2.87 | 308685 | 0.00 | 0 | Y | 0 |
| delta-BHC | 3.31 | 3.28 | 3.34 | 974375 | 0.00 | 0 | Y | 0 |
| gamma-BHC | 2.54 | 2.51 | 2.56 | 934015 | 2.53 | 977450 | Y | -5 |
| Heptachlor | 3.07 | 3.04 | 3.10 | 919020 | 0.00 | 0 | Y | 0 |
| Aldrin | 3.68 | 3.64 | 3.72 | 910090 | 3.67 | 949745 | Y | -4 |
| Hept. epoxide | 5.35 | 5.30 | 5.40 | 868365 | 5.34 | 904830 | Y | -4 |
| Endosulfan I | 6.68 | 6.61 | 6.74 | 799290 | 6.67 | 833210 | Y | -4 |
| Dieldrin | 8.09 | 8.01 | 8.17 | 870345 | 8.08 | 917890 | Y | -5 |
| 4,4'-DDE | 7.56 | 7.48 | 7.63 | 735660 | 0.00 | 0 | Y | 0 |
| Endrin | 9.80 | 9.70 | 9.89 | 525950 | 0.00 | 0 | Y | 0 |
| Endosulfan II | 11.75 | 11.63 | 11.86 | 776255 | 11.73 | 856340 | Y | -10 |
| 4,4'-DDD | 11.33 | 11.21 | 11.44 | 598660 | 0.00 | 0 | Y | 0 |
| Endo.sulfate | 17.94 | 17.76 | 18.12 | 515975 | 0.00 | 0 | Y | 0 |
| 4,4'DDT | 13.59 | 13.45 | 13.72 | 577460 | 13.56 | 488305 | Y | 15 |
| Methoxychlor | 25.31 | 25.06 | 25.57 | 259000 | 0.00 | 0 | Y | 0 |
| Endrin ketone | 24.62 | 24.37 | 24.86 | 776485 | 24.57 | 790405 | Y | -2 |
| a. Chlordane | 6.44 | 6.37 | 6.50 | 783300 | 0.00 | 0 | Y | 0 |
| g. Chlordane | 5.92 | 5.86 | 5.98 | 806505 | 0.00 | 0 | Y | 0 |
| Toxaphene | 10.58 | 10.47 | 10.69 | 195275 | 0.00 | 0 | Y | 0 |
| Aroclor-1016 | 2.76 | 2.73 | 2.79 | 69855 | 0.00 | 0 | Y | 0 |
| Aroclor-1221 | 2.36 | 2.34 | 2.38 | 3258 | 0.00 | 0 | Y | 0 |
| Aroclor-1232 | 3.04 | 3.01 | 3.07 | 10260 | 0.00 | 0 | Y | 0 |
| Aroclor-1242 | 3.51 | 3.47 | 3.55 | 68429 | 0.00 | 0 | Y | 0 |
| Aroclor-1248 | 3.29 | 3.26 | 3.32 | 55353 | 0.00 | 0 | Y | 0 |
| Aroclor-1254 | 9.41 | 9.32 | 9.50 | 191151 | 0.00 | 0 | Y | 0 |
| Aroclor-1260 | 13.41 | 13.28 | 13.54 | 284536 | 0.00 | 0 | Y | 0 |

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

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

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

ORIGINAL (Red)

# PESTICIDE/PCB STANDARDS SUMMARY

Lab Name:_____VERSAR, INC. Contract:_____

Lab Code: ____VERSAR Case No.:R3-7 SAS No.:__ SDG NO.: _____4

Instrument ID:_____A GC Column ID: ___SP2250/SP2401

| | | |
|---|---|---|
| DATE(S) OF ANALYSIS | FROM:____05/05/90 TO:____05/05/90 | DATE OF ANALYSIS _05/06/90 |
| TIME(S) OF ANALYSIS | FROM:____0953 TO:____1505 | TIME OF ANALYSIS _0443 |
| | | EPA SAMPLE NO. (STANDARD) ___INDB |

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALIBRATION FACTOR | RT | CALIBRATION FACTOR | QNT Y/N | %D |
|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 2.05 | 2.03 | 2.07 | 1086290 | 2.04 | 1181730 | Y | -9 |
| beta-BHC | 2.84 | 2.81 | 2.87 | 308685 | 2.84 | 334005 | Y | -8 |
| delta-BHC | 3.31 | 3.28 | 3.34 | 974375 | 3.30 | 1037730 | Y | -7 |
| gamma-BHC | 2.54 | 2.51 | 2.56 | 934015 | 0.00 | 0 | Y | 0 |
| Heptachlor | 3.07 | 3.04 | 3.10 | 919020 | 3.07 | 962485 | Y | -5 |
| Aldrin | 3.68 | 3.64 | 3.72 | 910090 | 0.00 | 0 | Y | 0 |
| Hept. epoxide | 5.35 | 5.30 | 5.40 | 868365 | 0.00 | 0 | Y | 0 |
| Endosulfan I | 6.68 | 6.61 | 6.74 | 799290 | 0.00 | 0 | Y | 0 |
| Dieldrin | 8.09 | 8.01 | 8.17 | 870345 | 0.00 | 0 | Y | 0 |
| 4,4'-DDE | 7.56 | 7.48 | 7.63 | 735660 | 7.54 | 795505 | Y | -8 |
| Endrin | 9.80 | 9.70 | 9.89 | 525950 | 9.77 | 557590 | Y | -6 |
| Endosulfan II | 11.75 | 11.63 | 11.86 | 776255 | 0.00 | 0 | Y | 0 |
| 4,4'-DDD | 11.33 | 11.21 | 11.44 | 598660 | 11.29 | 642745 | Y | -7 |
| Endo.sulfate | 17.94 | 17.76 | 18.12 | 515975 | 17.89 | 565320 | Y | -10 |
| 4,4'DDT | 13.59 | 13.45 | 13.72 | 577460 | 0.00 | 0 | Y | 0 |
| Methoxychlor | 25.31 | 25.06 | 25.57 | 259000 | 25.23 | 253620 | Y | 2 |
| Endrin ketone | 24.62 | 24.37 | 24.86 | 776485 | 0.00 | 0 | Y | 0 |
| a. Chlordane | 6.44 | 6.37 | 6.50 | 783300 | 6.42 | 844695 | Y | -8 |
| g. Chlordane | 5.92 | 5.86 | 5.98 | 806505 | 5.91 | 878820 | Y | -9 |
| Toxaphene | 10.58 | 10.47 | 10.69 | 195275 | 0.00 | 0 | Y | 0 |
| Aroclor-1016 | 2.76 | 2.73 | 2.79 | 69855 | 0.00 | 0 | Y | 0 |
| Aroclor-1221 | 2.36 | 2.34 | 2.38 | 3258 | 0.00 | 0 | Y | 0 |
| Aroclor-1232 | 3.04 | 3.01 | 3.07 | 10260 | 0.00 | 0 | Y | 0 |
| Aroclor-1242 | 3.51 | 3.47 | 3.55 | 68429 | 0.00 | 0 | Y | 0 |
| Aroclor-1248 | 3.29 | 3.26 | 3.32 | 55353 | 0.00 | 0 | Y | 0 |
| Aroclor-1254 | 9.41 | 9.32 | 9.50 | 191151 | 0.00 | 0 | Y | 0 |
| Aroclor-1260 | 13.41 | 13.28 | 13.54 | 284536 | 0.00 | 0 | Y | 0 |

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

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

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

page_2_of_2_

# PESTICIDE/PCB STANDARDS SUMMARY

ORIGINAL (Red)

Lab Name:_____VERSAR, INC. Contract:_____

Lab Code: ____VERSAR Case No.:R3-7 SAS No.:__ SDG NO.: _____4

Instrument ID:_____A GC Column ID: ___SP2250/SP2401

| | |
|---|---|
| DATE(S) OF ANALYSIS FROM:____05/05/90 TO:____05/05/90 | DATE OF ANALYSIS _05/07/90 |
| TIME(S) OF ANALYSIS FROM:____0953 TO:____1505 | TIME OF ANALYSIS _2242 |
| | EPA SAMPLE NO. (STANDARD) ___INDA |

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALIBRATION FACTOR | RT | CALIBRATION FACTOR | QNT Y/N | %D |
|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 2.05 | 2.03 | 2.07 | 1086290 | 0.00 | 0 | Y | 0 |
| beta-BHC | 2.84 | 2.81 | 2.87 | 308685 | 0.00 | 0 | Y | 0 |
| delta-BHC | 3.31 | 3.28 | 3.34 | 974375 | 0.00 | 0 | Y | 0 |
| gamma-BHC | 2.54 | 2.51 | 2.56 | 934015 | 2.54 | 892415 | Y | 4 |
| Heptachlor | 3.07 | 3.04 | 3.10 | 919020 | 0.00 | 0 | Y | 0 |
| Aldrin | 3.68 | 3.64 | 3.72 | 910090 | 3.68 | 863860 | Y | 5 |
| Hept. epoxide | 5.35 | 5.30 | 5.40 | 868365 | 5.35 | 841680 | Y | 3 |
| Endosulfan I | 6.68 | 6.61 | 6.74 | 799290 | 6.68 | 778675 | Y | 3 |
| Dieldrin | 8.09 | 8.01 | 8.17 | 870345 | 8.10 | 845975 | Y | 3 |
| 4,4'-DDE | 7.56 | 7.48 | 7.63 | 735660 | 0.00 | 0 | Y | 0 |
| Endrin | 9.80 | 9.70 | 9.89 | 525950 | 0.00 | 0 | Y | 0 |
| Endosulfan II | 11.75 | 11.63 | 11.86 | 776255 | 11.76 | 824865 | Y | -6 |
| 4,4'-DDD | 11.33 | 11.21 | 11.44 | 598660 | 0.00 | 0 | Y | 0 |
| Endo.sulfate | 17.94 | 17.76 | 18.12 | 515975 | 0.00 | 0 | Y | 0 |
| 4,4'DDT | 13.59 | 13.45 | 13.72 | 577460 | 13.60 | 408345 | Y | 29 |
| Methoxychlor | 25.31 | 25.06 | 25.57 | 259000 | 0.00 | 0 | Y | 0 |
| Endrin ketone | 24.62 | 24.37 | 24.86 | 776485 | 24.64 | 721735 | Y | 7 |
| a. Chlordane | 6.44 | 6.37 | 6.50 | 783300 | 0.00 | 0 | Y | 0 |
| g. Chlordane | 5.92 | 5.86 | 5.98 | 806505 | 0.00 | 0 | Y | 0 |
| Toxaphene | 10.58 | 10.47 | 10.69 | 195275 | 0.00 | 0 | Y | 0 |
| Aroclor-1016 | 2.76 | 2.73 | 2.79 | 69855 | 0.00 | 0 | Y | 0 |
| Aroclor-1221 | 2.36 | 2.34 | 2.38 | 3258 | 0.00 | 0 | Y | 0 |
| Aroclor-1232 | 3.04 | 3.01 | 3.07 | 10260 | 0.00 | 0 | Y | 0 |
| Aroclor-1242 | 3.51 | 3.47 | 3.55 | 68429 | 0.00 | 0 | Y | 0 |
| Aroclor-1248 | 3.29 | 3.26 | 3.32 | 55353 | 0.00 | 0 | Y | 0 |
| Aroclor-1254 | 9.41 | 9.32 | 9.50 | 191151 | 0.00 | 0 | Y | 0 |
| Aroclor-1260 | 13.41 | 13.28 | 13.54 | 284536 | 0.00 | 0 | Y | 0 |

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

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

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

# PESTICIDE/PCB STANDARDS SUMMARY

ORIGINAL (Red)

Lab Name:_____VERSAR, INC. Contract:_____

Lab Code: ____VERSAR Case No.:R3-7 SAS No.:__ SDG NO.: _____4

Instrument ID:_____A GC Column ID: ___SP2250/SP2401

| | |
|---|---|
| DATE(S) OF ANALYSIS FROM:____05/05/90 TO:____05/05/90 | DATE OF ANALYSIS _05/07/90 |
| TIME(S) OF ANALYSIS FROM:____0953 TO:____1505 | TIME OF ANALYSIS _2316 |
| | EPA SAMPLE NO. (STANDARD) ___INDB |

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALIBRATION FACTOR | RT | CALIBRATION FACTOR | QNT Y/N | %D |
|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 2.05 | 2.03 | 2.07 | 1086290 | 2.05 | 1007350 | Y | 7 |
| beta-BHC | 2.84 | 2.81 | 2.87 | 308685 | 2.85 | 292570 | Y | 5 |
| delta-BHC | 3.31 | 3.28 | 3.34 | 974375 | 3.31 | 906205 | Y | 7 |
| gamma-BHC | 2.54 | 2.51 | 2.56 | 934015 | 0.00 | 0 | Y | 0 |
| Heptachlor | 3.07 | 3.04 | 3.10 | 919020 | 3.08 | 800840 | Y | 13 |
| Aldrin | 3.68 | 3.64 | 3.72 | 910090 | 0.00 | 0 | Y | 0 |
| Hept. epoxide | 5.35 | 5.30 | 5.40 | 868365 | 0.00 | 0 | Y | 0 |
| Endosulfan I | 6.68 | 6.61 | 6.74 | 799290 | 0.00 | 0 | Y | 0 |
| Dieldrin | 8.09 | 8.01 | 8.17 | 870345 | 0.00 | 0 | Y | 0 |
| 4,4'-DDE | 7.56 | 7.48 | 7.63 | 735660 | 7.56 | 685200 | Y | 7 |
| Endrin | 9.80 | 9.70 | 9.89 | 525950 | 9.80 | 463095 | Y | 12 |
| Endosulfan II | 11.75 | 11.63 | 11.86 | 776255 | 0.00 | 0 | Y | 0 |
| 4,4'-DDD | 11.33 | 11.21 | 11.44 | 598660 | 11.33 | 558545 | Y | 7 |
| Endo.sulfate | 17.94 | 17.76 | 18.12 | 515975 | 17.93 | 474685 | Y | 8 |
| 4,4'DDT | 13.59 | 13.45 | 13.72 | 577460 | 0.00 | 0 | Y | 0 |
| Methoxychlor | 25.31 | 25.06 | 25.57 | 259000 | 25.30 | 185435 | Y | 28 |
| Endrin ketone | 24.62 | 24.37 | 24.86 | 776485 | 0.00 | 0 | Y | 0 |
| a. Chlordane | 6.44 | 6.37 | 6.50 | 783300 | 6.44 | 725450 | Y | 7 |
| g. Chlordane | 5.92 | 5.86 | 5.98 | 806505 | 5.93 | 757705 | Y | 6 |
| Toxaphene | 10.58 | 10.47 | 10.69 | 195275 | 0.00 | 0 | Y | 0 |
| Aroclor-1016 | 2.76 | 2.73 | 2.79 | 69855 | 0.00 | 0 | Y | 0 |
| Aroclor-1221 | 2.36 | 2.34 | 2.38 | 3258 | 0.00 | 0 | Y | 0 |
| Aroclor-1232 | 3.04 | 3.01 | 3.07 | 10260 | 0.00 | 0 | Y | 0 |
| Aroclor-1242 | 3.51 | 3.47 | 3.55 | 68429 | 0.00 | 0 | Y | 0 |
| Aroclor-1248 | 3.29 | 3.26 | 3.32 | 55353 | 0.00 | 0 | Y | 0 |
| Aroclor-1254 | 9.41 | 9.32 | 9.50 | 191151 | 0.00 | 0 | Y | 0 |
| Aroclor-1260 | 13.41 | 13.28 | 13.54 | 284536 | 0.00 | 0 | Y | 0 |

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

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

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

ORIGINAL
(Red)

PCB STANDARD TABLE

Lab Name: VERSAR, INC. Case No.: R3-7

Lab Code: VERSAR Contract:

Instrument ID: A SAS No.:

Run Date: 05/05,06/90 GC Column ID: SP2250/2401

Inject Vol: 2.00 (uL) Window Width: 1% PCBSTDA

| MULTI-COMPONENT ANALYTE | STAND CONC (ug/ml) | PEAK # | BEGINNING STANDARD RT | BEGINNING STANDARD AREA | CAL. FACTOR | FINAL STANDARD RT | FINAL STANDARD AREA | CAL. FACTOR | %D RT | %D CAL FACTOR |
|---|---|---|---|---|---|---|---|---|---|---|
| | 2.50 | 1 | 8.00 | 163554 | | X | 0 | | 100 | |
| | | 2 | 8.93 | 182082 | | X | 0 | | 100 | |
| Toxaphene | | 3 | 10.58 | 185507 | 195275 | X | 0 | 0 | 100 | 100 |
| | | 4 | 11.98 | 296244 | | X | 0 | | 100 | |
| | | 5 | 13.09 | 148388 | | X | 0 | | 100 | |
| | 1.00 | 1 | 1.90 | 14677 | | X | 0 | | 100 | |
| | | 2 | 2.39 | 21124 | | X | 0 | | 100 | |
| Aroclor-1016 | | 3 | 2.76 | 22614 | 63855 | X | 0 | 0 | 100 | 100 |
| | | 4 | 3.02 | 56254 | | X | 0 | | 100 | |
| | | 5 | 3.30 | 25040 | | X | 0 | | 100 | |
| | 5.00 | 1 | 1.71 | 3549 | | X | 0 | | 100 | |
| | | 2 | 1.86 | 5999 | | X | 0 | | 100 | |
| Aroclor-1221 | | 3 | 2.36 | 4546 | 3258 | X | 0 | 0 | 100 | 100 |
| | | 4 | 3.05 | 10483 | | X | 0 | | 100 | |
| | | 5 | 3.24 | 8007 | | X | 0 | | 100 | |
| | 2.50 | 1 | 1.86 | 9347 | | X | 0 | | 100 | |
| | | 2 | 2.35 | 28934 | | X | 0 | | 100 | |
| Aroclor-1232 | | 3 | 3.04 | 5738 | 10260 | X | 0 | 0 | 100 | 100 |
| | | 4 | 3.83 | 4374 | | X | 0 | | 100 | |
| | | 5 | 4.25 | 2905 | | X | 0 | | 100 | |
| | 2.50 | 1 | 3.02 | 128112 | | X | 0 | | 100 | |
| | | 2 | 3.29 | 52226 | | X | 0 | | 100 | |
| Aroclor-1242 | | 3 | 3.51 | 39918 | 68429 | X | 0 | 0 | 100 | 100 |
| | | 4 | 3.73 | 65929 | | X | 0 | | 100 | |
| | | 5 | 4.39 | 55961 | | X | 0 | | 100 | |

ORIGINAL (Red)

PCB STANDARD TABLE

Lab Name: VERSAR, INC. Case No.: R3-7

Lab Code: VERSAR Contract:

Instrument ID: A SAS No.:

Run Date: 05/05,06/90 GC Column ID: SP2250/SP2401

Inject Vol: 2.00 (uL) Window Width: 1.0% PCBSTDA

| MULTI-COMPONENT ANALYTE | STAND CONC (ug/ml) | PEAK # | BEGINNING STANDARD RT | BEGINNING STANDARD AREA | CAL. FACTOR | | FINAL STANDARD RT | FINAL STANDARD AREA | CAL. FACTOR | %D RT | %D CAL FACTOR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2.50 | 1 | 3.02 | 128112 | | X | | 0 | | 100 | |
| | | 2 | 3.29 | 52226 | | X | | 0 | | 100 | |
| Aroclor-1242 | | 3 | 3.51 | 39918 | 68429 | X | | 0 | 0 | 100 | 100 |
| | | 4 | 3.73 | 65929 | | X | | 0 | | 100 | |
| | | 5 | 4.39 | 55961 | | X | | 0 | | 100 | |
| | 1.00 | 1 | 2.38 | 8242 | | X | | 0 | | 100 | |
| | | 2 | 3.02 | 38246 | | X | | 0 | | 100 | |
| Aroclor-1248 | | 3 | 3.29 | 10386 | 55353 | X | | 0 | 0 | 100 | 100 |
| | | 4 | 4.39 | 28761 | | X | | 0 | | 100 | |
| | | 5 | 5.16 | 25071 | | X | | 0 | | 100 | |
| | 1.00 | 1 | 7.74 | 53121 | | X | | 0 | | 100 | |
| | | 2 | 8.32 | 72171 | | X | | 0 | | 100 | |
| Aroclor-1254 | | 3 | 9.41 | 114565 | 191151 | X | | 0 | 0 | 100 | 100 |
| | | 4 | 10.51 | 70387 | | X | | 0 | | 100 | |
| | | 5 | 11.90 | 72057 | | X | | 0 | | 100 | |
| | 1.00 | 1 | 10.54 | 141789 | | X | | 0 | | 100 | |
| | | 2 | 11.91 | 82624 | | X | | 0 | | 100 | |
| Aroclor-1260 | | 3 | 13.41 | 154816 | 284536 | X | | 0 | 0 | 100 | 100 |
| | | 4 | 14.32 | 117862 | | X | | 0 | | 100 | |
| | | 5 | 17.46 | 71981 | | X | | 0 | | 100 | |
| | 1.00 | 1 | X | 0 | | X | | 0 | | 0 | |
| | | 2 | X | 0 | | X | | 0 | | 0 | |
| Aroclor-1242 | | 3 | X | 0 | 0 | X | | 0 | 0 | 0 | 0 |
| | | 4 | X | 0 | | X | | 0 | | 0 | |
| | | 5 | X | 0 | | X | | 0 | | 0 | |

100105

08-May-90

ORIGINAL (Red)

# PESTICIDE/PCB STANDARDS ENTRY FORM

Lab Name: VERSAR, INC. Case No.: VERSCDM #2565

Lab Code: VERSAR Contract:

Instrument ID: C SAS No.:

Run Date: 05/15,16/90 GC Column ID: 3% SP2100

Inject Vol: 2.00 (uL) Window Width: 1.0%

| COMPOUND | CONC. IN STD (uG/ML) | WINDOW WIDTH | FIRST STD RT | FIRST STD RAW AREA | SECOND STD RT | SECOND STD RAW AREA | THIRD STD RT | THIRD STD RAW AREA |
|---|---|---|---|---|---|---|---|---|
| lpha-BHC | 0.10 | 0.02 | 1.84 | 37658 | 0.00 | 0 | 1.84 | 29039 |
| beta-BHC | 0.10 | 0.02 | 1.97 | 17243 | 0.00 | 0 | 1.98 | 14997 |
| delta-BHC | 0.10 | 0.02 | 2.23 | 40367 | 0.00 | 0 | 2.24 | 49940 |
| gamma-BHC | 0.10 | 0.02 | 2.17 | 43304 | 2.15 | 33236 | 0.00 | 0 |
| Heptachlor | 0.10 | 0.04 | 3.51 | 37089 | 0.00 | 0 | 3.52 | 29102 |
| Aldrin | 0.10 | 0.04 | 4.37 | 49831 | 4.35 | 50515 | 0.00 | 0 |
| Hept. epoxide | 0.10 | 0.05 | 5.34 | 49850 | 5.34 | 50450 | 0.00 | 0 |
| Endosulfan I | 0.10 | 0.07 | 6.66 | 47750 | 6.67 | 47108 | 0.00 | 0 |
| Dieldrin | 0.10 | 0.08 | 7.81 | 52428 | 7.82 | 52240 | 0.00 | 0 |
| 4'-DDE | 0.10 | 0.08 | 7.78 | 40996 | 0.00 | 0 | 7.85 | 42038 |
| Endrin | 0.10 | 0.09 | 8.71 | 31560 | 0.00 | 0 | 8.78 | 38113 |
| Endosulfan II | 0.10 | 0.09 | 8.93 | 46538 | 8.95 | 43938 | 0.00 | 0 |
| 4,4'-DDD | 0.10 | 0.10 | 9.83 | 33987 | 0.00 | 0 | 9.93 | 36511 |
| Endo.sulfate | 0.10 | 0.11 | 11.49 | 27141 | 0.00 | 0 | 11.60 | 32225 |
| 4,4'DDT | 0.10 | 0.13 | 12.92 | 35748 | 12.99 | 30239 | 0.00 | 0 |
| Methoxychlor | 0.10 | 0.19 | 19.34 | 13543 | 0.00 | 0 | 19.58 | 14838 |
| Endrin ketone | 0.10 | 0.15 | 14.79 | 47451 | 14.86 | 47449 | 0.00 | 0 |
| a. Chlordane | 0.10 | 0.07 | 6.79 | 43784 | 0.00 | 0 | 6.82 | 53408 |
| g. Chlordane | 0.10 | 0.06 | 6.12 | 43007 | 0.00 | 0 | 6.15 | 37083 |
| Toxaphene | 2.50 | 0.11 | 11.03 | 719450 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1016 | 1.00 | 0.04 | 3.87 | 92700 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1221 | 5.00 | 0.02 | 1.86 | 33290 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1232 | 2.50 | 0.03 | 3.24 | 65150 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1242 | 2.50 | 0.05 | 4.58 | 206835 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1248 | 1.00 | 0.08 | 7.62 | 116806 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1254 | 1.00 | 0.10 | 9.63 | 221102 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1260 | 1.00 | 0.13 | 13.34 | 291378 | 0.00 | 0 | 0.00 | 0 |
| DBC | 0.10 | 0.27 | 26.60 | 49085 | 26.76 | 48128 | 26.92 | 45321 |

KC 5-16-90

100106

ORIGINAL (Red)

# PESTICIDE/PCB STANDARDS SUMMARY

Lab Name:_____VERSAR, INC. Contract:_____

Lab Code: ____VERSAR Case No.:VERSCDM SAS No.:__ SDG NO.: _____

Instrument ID:_____C GC Column ID: ___3% SP2100

| | | | |
|---|---|---|---|
| DATE(S) OF ANALYSIS | FROM:____05/15/90 | DATE OF ANALYSIS | _05/16/90 |
| | TO:____05/15/90 | TIME OF ANALYSIS | _1011 |
| TIME(S) OF ANALYSIS | FROM:____1316 | EPA SAMPLE NO. (STANDARD) | ___INDA |
| | TO:____1639 | | |

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALIBRATION FACTOR | RT | CALIBRATION FACTOR | QNT Y/N | %D |
|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 1.84 | 1.82 | 1.86 | 188290 | 0.00 | 0 | Y | 0 |
| beta-BHC | 1.97 | 1.95 | 1.99 | 86215 | 0.00 | 0 | Y | 0 |
| delta-BHC | 2.23 | 2.21 | 2.26 | 201835 | 0.00 | 0 | Y | 0 |
| gamma-BHC | 2.17 | 2.15 | 2.19 | 216520 | 2.15 | 166180 | Y | 23 |
| Heptachlor | 3.51 | 3.48 | 3.55 | 185445 | 0.00 | 0 | Y | 0 |
| Aldrin | 4.37 | 4.32 | 4.41 | 249155 | 4.35 | 252575 | Y | -1 |
| Hept. epoxide | 5.34 | 5.29 | 5.39 | 249250 | 5.34 | 252250 | Y | -1 |
| Endosulfan I | 6.66 | 6.60 | 6.73 | 238750 | 6.67 | 235540 | Y | 1 |
| Dieldrin | 7.81 | 7.73 | 7.89 | 262140 | 7.82 | 261200 | Y | 0 |
| 4,4'-DDE | 7.78 | 7.70 | 7.86 | 204980 | 0.00 | 0 | Y | 0 |
| Endrin | 8.71 | 8.62 | 8.80 | 157800 | 0.00 | 0 | Y | 0 |
| Endosulfan II | 8.93 | 8.84 | 9.02 | 232690 | 8.95 | 219690 | Y | 6 |
| 4,4'-DDD | 9.83 | 9.73 | 9.93 | 169935 | 0.00 | 0 | Y | 0 |
| Endo.sulfate | 11.49 | 11.37 | 11.60 | 135705 | 0.00 | 0 | Y | 0 |
| 4,4'DDT | 12.92 | 12.79 | 13.05 | 178740 | 12.99 | 151195 | Y | 15 |
| Methoxychlor | 19.34 | 19.15 | 19.54 | 67715 | 0.00 | 0 | Y | 0 |
| Endrin ketone | 14.79 | 14.64 | 14.94 | 237255 | 14.86 | 237245 | Y | 0 |
| a. Chlordane | 6.79 | 6.72 | 6.85 | 218920 | 0.00 | 0 | Y | 0 |
| g. Chlordane | 6.12 | 6.05 | 6.18 | 215035 | 0.00 | 0 | Y | 0 |
| Toxaphene | 11.03 | 10.92 | 11.14 | 143890 | 0.00 | 0 | Y | 0 |
| Aroclor-1016 | 3.87 | 3.83 | 3.91 | 46350 | 0.00 | 0 | Y | 0 |
| Aroclor-1221 | 1.86 | 1.84 | 1.88 | 3329 | 0.00 | 0 | Y | 0 |
| Aroclor-1232 | 3.24 | 3.21 | 3.27 | 13030 | 0.00 | 0 | Y | 0 |
| Aroclor-1242 | 4.58 | 4.53 | 4.63 | 41367 | 0.00 | 0 | Y | 0 |
| Aroclor-1248 | 7.62 | 7.54 | 7.70 | 58403 | 0.00 | 0 | Y | 0 |
| Aroclor-1254 | 9.63 | 9.53 | 9.73 | 110551 | 0.00 | 0 | Y | 0 |
| Aroclor-1260 | 13.34 | 13.21 | 13.47 | 145689 | 0.00 | 0 | Y | 0 |

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

KC 5-16-90

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

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

page_1_of_2_

# PESTICIDE/PCB STANDARDS SUMMARY

ORIGINAL (Red)

Lab Name:_____VERSAR, INC. Contract:_____

Lab Code: ____VERSAR Case No.:VERSCDM SAS No.:__ SDG NO.: _____

Instrument ID:_____C GC Column ID: ___3% SP2100

| | | |
|---|---|---|
| DATE(S) OF ANALYSIS | FROM:____05/15/90 TO:____05/15/90 | DATE OF ANALYSIS _05/16/90 |
| TIME(S) OF ANALYSIS | FROM:____1316 TO:____1639 | TIME OF ANALYSIS _1148 |
| | | EPA SAMPLE NO. (STANDARD) ___INDB |

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALIBRATION FACTOR | RT | CALIBRATION FACTOR | QNT Y/N | XD |
|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 1.84 | 1.82 | 1.86 | 188290 | 1.84 | 145195 | Y | 23 |
| beta-BHC | 1.97 | 1.95 | 1.99 | 86215 | 1.98 | 74985 | Y | 13 |
| delta-BHC | 2.23 | 2.21 | 2.26 | 201835 | 2.24 | 249700 | Y | -24 |
| gamma-BHC | 2.17 | 2.15 | 2.19 | 216520 | 0.00 | 0 | Y | 0 |
| Heptachlor | 3.51 | 3.48 | 3.55 | 185445 | 3.52 | 145510 | Y | 22 |
| Aldrin | 4.37 | 4.32 | 4.41 | 249155 | 0.00 | 0 | Y | 0 |
| Hept. epoxide | 5.34 | 5.29 | 5.39 | 249250 | 0.00 | 0 | Y | 0 |
| Endosulfan I | 6.66 | 6.60 | 6.73 | 238750 | 0.00 | 0 | Y | 0 |
| Dieldrin | 7.81 | 7.73 | 7.89 | 262140 | 0.00 | 0 | Y | 0 |
| 4,4'-DDE | 7.78 | 7.70 | 7.86 | 204980 | 7.85 | 210190 | Y | -3 |
| Endrin | 8.71 | 8.62 | 8.80 | 157800 | 8.78 | 190565 | Y | -21 |
| Endosulfan II | 8.93 | 8.84 | 9.02 | 232690 | 0.00 | 0 | Y | 0 |
| 4,4'-DDD | 9.83 | 9.73 | 9.93 | 169935 | 9.93 | 182555 | Y | -7 |
| Endo.sulfate | 11.49 | 11.37 | 11.60 | 135705 | 11.60 | 161125 | Y | -19 |
| 4,4'DDT | 12.92 | 12.79 | 13.05 | 178740 | 0.00 | 0 | Y | 0 |
| Methoxychlor | 19.34 | 19.15 | 19.54 | 67715 | 19.58 | 74190 | Y | -10 |
| Endrin ketone | 14.79 | 14.64 | 14.94 | 237255 | 0.00 | 0 | Y | 0 |
| a. Chlordane | 6.79 | 6.72 | 6.85 | 218920 | 6.82 | 267040 | Y | -22 |
| g. Chlordane | 6.12 | 6.05 | 6.18 | 215035 | 6.15 | 185415 | Y | 14 |
| Toxaphene | 11.03 | 10.92 | 11.14 | 143890 | 0.00 | 0 | Y | 0 |
| Aroclor-1016 | 3.87 | 3.83 | 3.91 | 46350 | 0.00 | 0 | Y | 0 |
| Aroclor-1221 | 1.86 | 1.84 | 1.88 | 3329 | 0.00 | 0 | Y | 0 |
| Aroclor-1232 | 3.24 | 3.21 | 3.27 | 13030 | 0.00 | 0 | Y | 0 |
| Aroclor-1242 | 4.58 | 4.53 | 4.63 | 41367 | 0.00 | 0 | Y | 0 |
| Aroclor-1248 | 7.62 | 7.54 | 7.70 | 58403 | 0.00 | 0 | Y | 0 |
| Aroclor-1254 | 9.63 | 9.53 | 9.73 | 110551 | 0.00 | 0 | Y | 0 |
| Aroclor-1260 | 13.34 | 13.21 | 13.47 | 145689 | 0.00 | 0 | Y | 0 |

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

KC 5-18-90

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

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

ORIGINAL
(Red)

PCB STANDARD TABLE

Lab Name: VERSAR, INC. Case No.: VERSCOM #2565

Lab Code: Contract:

Instrument ID: C SAS No.:

Run Date: 05/15,16/90 GC Column ID: 3%SP2100

Inject Vol: 2.00 (uL) Window Width: 1.0%

| MULTI-COMPONENT ANALYTE | STAND CONC (ug/ml) | PEAK # | BEGINNING STANDARD RT | BEGINNING STANDARD AREA | CAL. FACTOR | FINAL STANDARD RT | FINAL STANDARD AREA | CAL. FACTOR | %D RT | %D CAL FACTOR |
|---|---|---|---|---|---|---|---|---|---|---|
| | 2.50 | 1 | 7.47 | 55339 | | X | 0 | | 100 | |
| | | 2 | 9.56 | 196345 | | X | 0 | | 100 | |
| TOXAPHENE | | 3 | 11.03 | 98795 | 143890 | X | 0 | 0 | 100 | 100 |
| | | 4 | 12.79 | 212916 | | X | 0 | | 100 | |
| | | 5 | 15.03 | 156057 | | X | 0 | | 100 | |
| | 1.00 | 1 | 3.07 | 28235 | | X | 0 | | 100 | |
| | | 2 | 3.28 | 21476 | | X | 0 | | 100 | |
| Aroclor-1016 | | 3 | 3.87 | 15971 | 46350 | X | 0 | 0 | 100 | 100 |
| | | 4 | 4.29 | 12988 | | X | 0 | | 100 | |
| | | 5 | 4.58 | 14030 | | X | 0 | | 100 | |
| | 5.00 | 1 | 1.50 | 1019 | | X | 0 | | 100 | |
| | | 2 | 1.71 | 3139 | | X | 0 | | 100 | |
| Aroclor-1221 | | 3 | 1.86 | 13115 | 3329 | X | 0 | 0 | 100 | 100 |
| | | 4 | 2.35 | 9573 | | X | 0 | | 100 | |
| | | 5 | 2.60 | 6440 | | X | 0 | | 100 | |
| | 2.50 | 1 | 2.35 | 9573 | | X | 0 | | 100 | |
| | | 2 | 3.04 | 21582 | | X | 0 | | 100 | |
| Aroclor-1232 | | 3 | 3.24 | 14939 | 13030 | X | 0 | 0 | 100 | 100 |
| | | 4 | 3.84 | 9898 | | X | 0 | | 100 | |
| | | 5 | 4.25 | 9157 | | X | 0 | | 100 | |
| | 2.50 | 1 | 3.88 | 32443 | | X | 0 | | 100 | |
| | | 2 | 4.29 | 29101 | | X | 0 | | 100 | |
| Aroclor-1242 | | 3 | 4.58 | 32202 | 41367 | X | 0 | 0 | 100 | 100 |
| | | 4 | 5.48 | 66327 | | X | 0 | | 100 | |
| | | 5 | 6.10 | 46761 | | X | 0 | | 100 | |

EC

ORIGINAL (Red)

PCB STANDARD TABLE

Lab Name: VERSAR, INC. Case No.: VERSCDM #2565

Lab Code: Contract:

Instrument ID: C SAS No.:

Run Date: 05/15,16/90 GC Column ID: 3%SP2100

Inject Vol: 2.00 (uL) Window Width: 1.0%

| MULTI-COMPONENT ANALYTE | STAND CONC (ug/ml) | PEAK # | BEGINNING STANDARD RT | BEGINNING STANDARD AREA | CAL. FACTOR | FINAL STANDARD RT | FINAL STANDARD AREA | CAL. FACTOR | %D RT | %D CAL FACTOR |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1.00 | 1 | 5.47 | 53128 | | X | 0 | | 100 | |
| | | 2 | 6.10 | 23916 | | X | 0 | | 100 | |
| Aroclor-1248 | | 3 | 7.62 | 11282 | 58403 | X | 0 | 0 | 100 | 100 |
| | | 4 | 8.05 | 13181 | | X | 0 | | 100 | |
| | | 5 | 9.92 | 15298 | | X | 0 | | 100 | |
| | 1.00 | 1 | 7.59 | 24624 | | X | 0 | | 100 | |
| | | 2 | 8.08 | 36984 | | X | 0 | | 100 | |
| Aroclor-1254 | | 3 | 9.63 | 60896 | 110551 | X | 0 | 0 | 100 | 100 |
| | | 4 | 11.28 | 48872 | | X | 0 | | 100 | |
| | | 5 | 13.36 | 49725 | | X | 0 | | 100 | |
| | 1.00 | 1 | 11.37 | 64483 | | X | 0 | | 100 | |
| | | 2 | 12.28 | 27394 | | X | 0 | | 100 | |
| Aroclor-1260 | | 3 | 13.34 | 60609 | 145689 | X | 0 | 0 | 100 | 100 |
| | | 4 | 15.41 | 59451 | | X | 0 | | 100 | |
| | | 5 | 21.46 | 79440 | | X | 0 | | 100 | |
| | 1.00 | 1 | X | 0 | | X | 0 | | 0 | |
| | | 2 | X | 0 | | X | 0 | | 0 | |
| | | 3 | X | 0 | 0 | X | 0 | 0 | 0 | 0 |
| | | 4 | X | 0 | | X | 0 | | 0 | |
| | | 5 | X | 0 | | X | 0 | | 0 | |
| | 1.00 | 1 | X | 0 | | X | 0 | | 0 | |
| | | 2 | X | 0 | | X | 0 | | 0 | |
| | | 3 | X | 0 | 0 | X | 0 | 0 | 0 | 0 |
| | | 4 | X | 0 | | X | 0 | | 0 | |
| | | 5 | X | 0 | | X | 0 | | 0 | |

KC

(Rev)

# PESTICIDE/PCB STANDARDS ENTRY FORM

Lab Name: VERSAR, INC. Case No.: R3-7

Lab Code: VERSAR Contract:

Instrument ID: C SAS No.:

Run Date: 05/18/90 GC Column ID: 3% SP2100

Inject Vol: 2.00 (uL) Window Width: 1.0%

| COMPOUND | CONC. IN STD (uG/ML) | WINDOW WIDTH | FIRST STD RT | FIRST STD RAW AREA | SECOND STD RT | SECOND STD RAW AREA | THIRD STD RT | THIRD STD RAW AREA |
|---|---|---|---|---|---|---|---|---|
| .lpha-BHC | 0.10 | 0.02 | 1.86 | 36576 | 1.85 | 15088 | 0.00 | 0 |
| beta-BHC | 0.10 | 0.02 | 1.99 | 15166 | 1.98 | 6214 | 0.00 | 0 |
| delta-BHC | 0.10 | 0.02 | 2.26 | 32799 | 2.24 | 12889 | 0.00 | 0 |
| gamma-BHC | 0.10 | 0.02 | 2.19 | 36954 | 0.00 | 0 | 2.18 | 11614 |
| Heptachlor | 0.10 | 0.04 | 3.56 | 35002 | 3.52 | 13743 | 0.00 | 0 |
| Aldrin | 0.10 | 0.04 | 4.41 | 41166 | 0.00 | 0 | 4.37 | 12202 |
| Hept. epoxide | 0.10 | 0.05 | 5.40 | 40433 | 0.00 | 0 | 5.35 | 11889 |
| Endosulfan I | 0.10 | 0.07 | 6.75 | 38400 | 0.00 | 0 | 6.68 | 11249 |
| Dieldrin | 0.10 | 0.08 | 7.90 | 42859 | 0.00 | 0 | 7.82 | 12502 |
| 4'-DDE | 0.10 | 0.08 | 7.89 | 32999 | 7.81 | 12309 | 0.00 | 0 |
| Endrin | 0.10 | 0.09 | 8.82 | 30147 | 8.73 | 11163 | 0.00 | 0 |
| Endosulfan II | 0.10 | 0.09 | 9.03 | 36604 | 0.00 | 0 | 8.93 | 10614 |
| 4,4'-DDD | 0.10 | 0.10 | 9.96 | 25999 | 9.86 | 9634 | 0.00 | 0 |
| Endo.sulfate | 0.10 | 0.12 | 11.63 | 22540 | 11.50 | 8369 | 0.00 | 0 |
| 4,4'DDT | 0.10 | 0.13 | 13.10 | 24073 | 0.00 | 0 | 12.95 | 5657 |
| Methoxychlor | 0.10 | 0.20 | 19.62 | 10631 | 19.39 | 3574 | 0.00 | 0 |
| ndrin ketone | 0.10 | 0.15 | 14.97 | 34830 | 0.00 | 0 | 14.80 | 9582 |
| a. Chlordane | 0.10 | 0.07 | 6.88 | 34332 | 6.81 | 13000 | 0.00 | 0 |
| g. Chlordane | 0.10 | 0.06 | 6.20 | 35643 | 6.13 | 13623 | 0.00 | 0 |
| Toxaphene | 2.50 | 0.10 | 9.61 | 158055 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1016 | 1.00 | 0.05 | 4.60 | 41064 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1221 | 5.00 | 0.02 | 1.85 | 61630 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1232 | 2.50 | 0.03 | 3.04 | 56650 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1242 | 2.50 | 0.05 | 4.60 | 86835 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1248 | 1.00 | 0.04 | 3.90 | 45214 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1254 | 1.00 | 0.10 | 9.66 | 109498 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1260 | 1.00 | 0.11 | 11.43 | 95034 | 0.00 | 0 | 0.00 | 0 |
| DBC | 0.10 | 0.27 | 26.99 | 30577 | 26.67 | 11696 | 26.64 | 10101 |

KC
05/22/90

ORIGINAL (Red)

# PESTICIDE/PCB STANDARDS SUMMARY

Lab Name:_____VERSAR, INC. Contract:_____

Lab Code: ____VERSAR Case No.:R3-7 SAS No.:__ SDG NO.: _____4

Instrument ID:_____C GC Column ID: ___3% SP2100

| | | |
|---|---|---|
| DATE(S) OF ANALYSIS | FROM:____05/18/90<br>TO:____05/18/90 | DATE OF ANALYSIS _05/18/90 |
| TIME(S) OF ANALYSIS | FROM:____0718<br>TO:____0752 | TIME OF ANALYSIS _2221<br>EPA SAMPLE NO. (STANDARD) B974 ___INDB |

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALIBRATION FACTOR | RT | CALIBRATION FACTOR | QNT Y/N | %D |
|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 1.86 | 1.84 | 1.88 | 182880 | 1.85 | 75440 | Y | 59 |
| beta-BHC | 1.99 | 1.97 | 2.01 | 75830 | 1.98 | 31070 | Y | 59 |
| delta-BHC | 2.26 | 2.24 | 2.28 | 163995 | 2.24 | 64445 | Y | 61 |
| gamma-BHC | 2.19 | 2.17 | 2.22 | 184770 | 0.00 | 0 | Y | 0 |
| Heptachlor | 3.56 | 3.52 | 3.59 | 175010 | 3.52 | 68715 | Y | 61 |
| Aldrin | 4.41 | 4.37 | 4.46 | 205830 | 0.00 | 0 | Y | 0 |
| Hept. epoxide | 5.40 | 5.35 | 5.46 | 202165 | 0.00 | 0 | Y | 0 |
| Endosulfan I | 6.75 | 6.68 | 6.81 | 192000 | 0.00 | 0 | Y | 0 |
| Dieldrin | 7.90 | 7.82 | 7.98 | 214295 | 0.00 | 0 | Y | 0 |
| 4,4'-DDE | 7.89 | 7.81 | 7.97 | 164995 | 7.81 | 61545 | Y | 63 |
| Endrin | 8.82 | 8.73 | 8.91 | 150735 | 8.73 | 55815 | Y | 63 |
| Endosulfan II | 9.03 | 8.94 | 9.12 | 183020 | 0.00 | 0 | Y | 0 |
| 4,4'-DDD | 9.96 | 9.86 | 10.06 | 129995 | 9.86 | 48170 | Y | 63 |
| Endo.sulfate | 11.63 | 11.51 | 11.74 | 112700 | 11.50 | 41845 | Y | 63 |
| 4,4'DDT | 13.10 | 12.97 | 13.24 | 120365 | 0.00 | 0 | Y | 0 |
| Methoxychlor | 19.62 | 19.42 | 19.81 | 53155 | 19.39 | 17870 | Y | 66 |
| Endrin ketone | 14.97 | 14.82 | 15.12 | 174150 | 0.00 | 0 | Y | 0 |
| a. Chlordane | 6.88 | 6.81 | 6.94 | 171660 | 6.81 | 65000 | Y | 62 |
| g. Chlordane | 6.20 | 6.13 | 6.26 | 178215 | 6.13 | 68115 | Y | 62 |
| Toxaphene | 9.61 | 9.51 | 9.71 | 31611 | 0.00 | 0 | Y | 0 |
| Aroclor-1016 | 4.60 | 4.55 | 4.65 | 20532 | 0.00 | 0 | Y | 0 |
| Aroclor-1221 | 1.85 | 1.83 | 1.87 | 6163 | 0.00 | 0 | Y | 0 |
| Aroclor-1232 | 3.04 | 3.01 | 3.07 | 11330 | 0.00 | 0 | Y | 0 |
| Aroclor-1242 | 4.60 | 4.55 | 4.65 | 17367 | 0.00 | 0 | Y | 0 |
| Aroclor-1248 | 3.90 | 3.86 | 3.94 | 22607 | 0.00 | 0 | Y | 0 |
| Aroclor-1254 | 9.66 | 9.56 | 9.76 | 54749 | 0.00 | 0 | Y | 0 |
| Aroclor-1260 | 11.43 | 11.32 | 11.54 | 47517 | 0.00 | 0 | Y | 0 |

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

KC 05/22/90

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

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

ORIGINAL (Red)



# PESTICIDE/PCB STANDARDS SUMMARY

Lab Name:_____VERSAR, INC. Contract:_____

Lab Code: ____VERSAR Case No.:R3-7 SAS No.:__ SDG NO.: _____4

Instrument ID:_____C GC Column ID: ___3% SP2100

| | | |
|---|---|---|
| DATE(S) OF ANALYSIS | FROM:____05/18/90 TO:____05/18/90 | DATE OF ANALYSIS _05/18/90 |
| TIME(S) OF ANALYSIS | FROM:____0718 TO:____0752 | TIME OF ANALYSIS _2300 |
| | | EPA SAMPLE NO. (STANDARD) B973 ___INDA |

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALIBRATION FACTOR | RT | CALIBRATION FACTOR | QNT Y/N | %D |
|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 1.86 | 1.84 | 1.88 | 182880 | 0.00 | 0 | Y | 0 |
| beta-BHC | 1.99 | 1.97 | 2.01 | 75830 | 0.00 | 0 | Y | 0 |
| delta-BHC | 2.26 | 2.24 | 2.28 | 163995 | 0.00 | 0 | Y | 0 |
| gamma-BHC | 2.19 | 2.17 | 2.22 | 184770 | 2.18 | 58070 | Y | 69 |
| Heptachlor | 3.56 | 3.52 | 3.59 | 175010 | 0.00 | 0 | Y | 0 |
| Aldrin | 4.41 | 4.37 | 4.46 | 205830 | 4.37 | 61010 | Y | 70 |
| Hept. epoxide | 5.40 | 5.35 | 5.46 | 202165 | 5.35 | 59445 | Y | 71 |
| Endosulfan I | 6.75 | 6.68 | 6.81 | 192000 | 6.68 | 56245 | Y | 71 |
| Dieldrin | 7.90 | 7.82 | 7.98 | 214295 | 7.82 | 62510 | Y | 71 |
| 4,4'-DDE | 7.89 | 7.81 | 7.97 | 164995 | 0.00 | 0 | Y | 0 |
| Endrin | 8.82 | 8.73 | 8.91 | 150735 | 0.00 | 0 | Y | 0 |
| Endosulfan II | 9.03 | 8.94 | 9.12 | 183020 | 8.93 | 53070 | Y | 71 |
| 4,4'-DDD | 9.96 | 9.86 | 10.06 | 129995 | 0.00 | 0 | Y | 0 |
| Endo.sulfate | 11.63 | 11.51 | 11.74 | 112700 | 0.00 | 0 | Y | 0 |
| 4,4'DDT | 13.10 | 12.97 | 13.24 | 120365 | 12.95 | 28285 | Y | 77 |
| Methoxychlor | 19.62 | 19.42 | 19.81 | 53155 | 0.00 | 0 | Y | 0 |
| Endrin ketone | 14.97 | 14.82 | 15.12 | 174150 | 14.80 | 47910 | Y | 72 |
| a. Chlordane | 6.88 | 6.81 | 6.94 | 171660 | 0.00 | 0 | Y | 0 |
| g. Chlordane | 6.20 | 6.13 | 6.26 | 178215 | 0.00 | 0 | Y | 0 |
| Toxaphene | 9.61 | 9.51 | 9.71 | 31611 | 0.00 | 0 | Y | 0 |
| Aroclor-1016 | 4.60 | 4.55 | 4.65 | 20532 | 0.00 | 0 | Y | 0 |
| Aroclor-1221 | 1.85 | 1.83 | 1.87 | 6163 | 0.00 | 0 | Y | 0 |
| Aroclor-1232 | 3.04 | 3.01 | 3.07 | 11330 | 0.00 | 0 | Y | 0 |
| Aroclor-1242 | 4.60 | 4.55 | 4.65 | 17367 | 0.00 | 0 | Y | 0 |
| Aroclor-1248 | 3.90 | 3.86 | 3.94 | 22607 | 0.00 | 0 | Y | 0 |
| Aroclor-1254 | 9.66 | 9.56 | 9.76 | 54749 | 0.00 | 0 | Y | 0 |
| Aroclor-1260 | 11.43 | 11.32 | 11.54 | 47517 | 0.00 | 0 | Y | 0 |

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

KC 05/22/90

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

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

page_2_of_2_

ORIGINAL (Red)

PCB STANDARD TABLE

R3-7

Lab Name: VERSAR, INC. Case No.: VERSCOM #2565

Lab Code: VERSAR Contract:

Instrument ID: C SAS No.:

Run Date: 05/18/90 GC Column ID: 3%SP2100

Inject Vol: 2.00 (uL) Window Width: 1.0%

| MULTI-COMPONENT ANALYTE | STAND CONC (ug/ml) | PEAK # | BEGINNING STANDARD RT | BEGINNING STANDARD AREA | CAL. FACTOR | FINAL STANDARD RT | FINAL STANDARD AREA | CAL. FACTOR | %D RT | %D CAL FACTOR |
|---|---|---|---|---|---|---|---|---|---|---|
| | 2.50 | 1 | 7.50 | 16065 | | X | 0 | | 100 | |
| | | 2 | 8.59 | 11844 | | X | 0 | | 100 | |
| TOXAPHENE | | 3 | 9.61 | 51860 | 31611 | X | 0 | 0 | 100 | 100 |
| | | 4 | 11.07 | 25390 | | X | 0 | | 100 | |
| | | 5 | 12.86 | 52895 | | X | 0 | | 100 | |
| | 1.00 | 1 | 3.09 | 14088 | | X | 0 | | 100 | |
| | | 2 | 3.89 | 7028 | | X | 0 | | 100 | |
| Aroclor-1016 | | 3 | 4.60 | 5946 | 20532 | X | 0 | 0 | 100 | 100 |
| | | 4 | 5.57 | 7563 | | X | 0 | | 100 | |
| | | 5 | 6.56 | 6439 | | X | 0 | | 100 | |
| | 5.00 | 1 | 1.11 | 7152 | | X | 0 | | 100 | |
| | | 2 | 1.71 | 11086 | | X | 0 | | 100 | |
| Aroclor-1221 | | 3 | 1.85 | 34845 | 6163 | X | 0 | 0 | 100 | 100 |
| | | 4 | 2.35 | 6966 | | X | 0 | | 100 | |
| | | 5 | 2.60 | 1585 | | X | 0 | | 100 | |
| | 2.50 | 1 | 2.35 | 9573 | | X | 0 | | 100 | |
| | | 2 | 2.60 | 6440 | | X | 0 | | 100 | |
| Aroclor-1232 | | 3 | 3.04 | 21582 | 11330 | X | 0 | 0 | 100 | 100 |
| | | 4 | 3.84 | 9898 | | X | 0 | | 100 | |
| | | 5 | 4.25 | 9157 | | X | 0 | | 100 | |
| | 2.50 | 1 | 3.89 | 14568 | | X | 0 | | 100 | |
| | | 2 | 4.31 | 13529 | | X | 0 | | 100 | |
| Aroclor-1242 | | 3 | 4.60 | 13341 | 17367 | X | 0 | 0 | 100 | 100 |
| | | 4 | 5.49 | 30281 | | X | 0 | | 100 | |
| | | 5 | 6.12 | 15117 | | X | 0 | | 100 | |

KC
5/18/90

ORIGINAL
(Red)

PCB STANDARD TABLE

Lab Name: VERSAR, INC. Case No.: R3-7

Lab Code: VERSAR Contract:

Instrument ID: C SAS No.:

Run Date: 05/18/90 GC Column ID: 3%SP2100

Inject Vol: 2.00 (uL) Window Width: 1.0%

| MULTI-COMPONENT ANALYTE | STAND CONC (ug/ml) | PEAK # | BEGINNING STANDARD RT | BEGINNING STANDARD AREA | CAL. FACTOR | FINAL STANDARD RT | FINAL STANDARD AREA | CAL. FACTOR | %D RT | %D CAL FACTOR |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1.00 | 1 | 3.09 | 11151 | | X | 0 | | 100 | |
| | | 2 | 3.29 | 5850 | | X | 0 | | 100 | |
| Aroclor-1248 | | 3 | 3.90 | 10835 | 22607 | X | 0 | 0 | 100 | 100 |
| | | 4 | 4.30 | 8178 | | X | 0 | | 100 | |
| | | 5 | 4.60 | 9199 | | X | 0 | | 100 | |
| | 1.00 | 1 | 7.61 | 12860 | | X | 0 | | 100 | |
| | | 2 | 8.10 | 17663 | | X | 0 | | 100 | |
| Aroclor-1254 | | 3 | 9.66 | 30262 | 54749 | X | 0 | 0 | 100 | 100 |
| | | 4 | 11.31 | 24099 | | X | 0 | | 100 | |
| | | 5 | 13.40 | 24613 | | X | 0 | | 100 | |
| | 1.00 | 1 | 9.03 | 9741 | | X | 0 | | 100 | |
| | | 2 | 9.64 | 15599 | | X | 0 | | 100 | |
| Aroclor-1260 | | 3 | 11.43 | 30019 | 47517 | X | 0 | 0 | 100 | 100 |
| | | 4 | 12.34 | 12209 | | X | 0 | | 100 | |
| | | 5 | 13.41 | 27465 | | X | 0 | | 100 | |
| | 1.00 | 1 | X | 0 | | X | 0 | | 0 | |
| | | 2 | X | 0 | | X | 0 | | 0 | |
| | | 3 | X | 0 | 0 | X | 0 | 0 | 0 | 0 |
| | | 4 | X | 0 | | X | 0 | | 0 | |
| | | 5 | X | 0 | | X | 0 | | 0 | |
| | 1.00 | 1 | X | 0 | | X | 0 | | 0 | |
| | | 2 | X | 0 | | X | 0 | | 0 | |
| | | 3 | X | 0 | 0 | X | 0 | 0 | 0 | 0 |
| | | 4 | X | 0 | | X | 0 | | 0 | |
| | | 5 | X | 0 | | X | 0 | | 0 | |

KC
5/18/90

DD

ORIGINAL
(Red)

# PESTICIDE/PCB STANDARDS ENTRY FORM

Lab Name: VERSAR, INC. Case No.: VERSCDM 2565

Lab Code: VERSAR Contract:

Instrument ID: C SAS No.:

Run Date: 05/08,09/90 GC Column ID: 3% SP2100

Inject Vol: 2.00 (uL) Window Width: 1.0%

| COMPOUND | CONC. IN STD (uG/ML) | WINDOW WIDTH | FIRST STD RT | FIRST STD RAW AREA | SECOND STD RT | SECOND STD RAW AREA | THIRD STD RT | THIRD STD RAW AREA |
|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 0.10 | 0.02 | 1.84 | 33940 | 0.00 | 0 | 0.00 | 0 |
| beta-BHC | 0.10 | 0.02 | 1.97 | 14377 | 0.00 | 0 | 0.00 | 0 |
| delta-BHC | 0.10 | 0.02 | 2.23 | 31457 | 0.00 | 0 | 0.00 | 0 |
| gamma-BHC | 0.10 | 0.02 | 2.17 | 32316 | 2.18 | 36416 | 2.18 | 32205 |
| Heptachlor | 0.10 | 0.04 | 3.51 | 31816 | 0.00 | 0 | 0.00 | 0 |
| Aldrin | 0.10 | 0.04 | 4.36 | 36091 | 4.37 | 40617 | 4.37 | 36165 |
| Hept. epoxide | 0.10 | 0.05 | 5.33 | 35618 | 5.34 | 40213 | 5.34 | 36204 |
| Endosulfan I | 0.10 | 0.07 | 6.65 | 34093 | 6.66 | 38674 | 6.66 | 34459 |
| Dieldrin | 0.10 | 0.08 | 7.79 | 37306 | 7.81 | 42163 | 7.81 | 37235 |
| 4,4'-DDE | 0.10 | 0.08 | 7.77 | 31548 | 0.00 | 0 | 0.00 | 0 |
| Endrin | 0.10 | 0.09 | 8.69 | 25019 | 0.00 | 0 | 0.00 | 0 |
| Endosulfan II | 0.10 | 0.09 | 8.90 | 33275 | 8.92 | 37415 | 8.92 | 32997 |
| 4,4'-DDD | 0.10 | 0.10 | 9.81 | 25302 | 0.00 | 0 | 0.00 | 0 |
| Endo. sulfate | 0.10 | 0.11 | 11.46 | 21935 | 0.00 | 0 | 0.00 | 0 |
| 4,4'DDT | 0.10 | 0.13 | 12.88 | 24119 | 12.90 | 27664 | 12.90 | 22735 |
| Methoxychlor | 0.10 | 0.19 | 19.31 | 10291 | 0.00 | 0 | 0.00 | 0 |
| Endrin ketone | 0.10 | 0.15 | 14.74 | 33078 | 14.77 | 38335 | 14.76 | 32717 |
| a. Chlordane | 0.10 | 0.07 | 6.77 | 32893 | 0.00 | 0 | 0.00 | 0 |
| g. Chlordane | 0.10 | 0.06 | 6.11 | 33890 | 0.00 | 0 | 0.00 | 0 |
| Toxaphene | 2.50 | 0.11 | 10.99 | 375825 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1016 | 1.00 | 0.03 | 2.62 | 48958 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1221 | 5.00 | 0.02 | 1.50 | 58370 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1232 | 2.50 | 0.02 | 1.86 | 34000 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1242 | 2.50 | 0.04 | 3.88 | 75850 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1248 | 1.00 | 0.05 | 4.58 | 80016 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1254 | 1.00 | 0.08 | 7.58 | 124896 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1260 | 1.00 | 0.13 | 13.32 | 165948 | 0.00 | 0 | 0.00 | 0 |
| DBC | 0.10 | 0.27 | 26.55 | 33733 | 26.58 | 38267 | 26.55 | 33813 |

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09-May-90

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ORIGINAL
(Red)

# PESTICIDE/PCB STANDARDS ENTRY FORM

Lab Name: VERSAR, INC. Case No.: R3-7

Lab Code: VERSAR Contract:

Instrument ID: C SAS No.:

Run Date: 05/08,09/90 GC Column ID: 3% SP2100

Inject Vol: 2.00 (uL) Window Width: 1.0%

| COMPOUND | CONC. IN STD (uG/ML) | WINDOW WIDTH | FIRST STD RT | FIRST STD RAW AREA | FOURTH STD RT | FOURTH STD RAW AREA | FIFTH STD RT | FIFTH STD RAW AREA |
|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 0.10 | 0.02 | 1.84 | 33940 | 1.85 | 35836 | 0.00 | 0 |
| beta-BHC | 0.10 | 0.02 | 1.97 | 14377 | 1.98 | 15251 | 0.00 | 0 |
| delta-BHC | 0.10 | 0.02 | 2.23 | 31457 | 2.24 | 32946 | 0.00 | 0 |
| gamma-BHC | 0.10 | 0.02 | 2.17 | 32316 | 0.00 | 0 | 2.17 | 15256 |
| Heptachlor | 0.10 | 0.04 | 3.51 | 31816 | 3.52 | 33793 | 0.00 | 0 |
| Aldrin | 0.10 | 0.04 | 4.36 | 36091 | 0.00 | 0 | 4.36 | 16320 |
| Hept. epoxide | 0.10 | 0.05 | 5.33 | 35618 | 0.00 | 0 | 5.33 | 15866 |
| Endosulfan I | 0.10 | 0.07 | 6.65 | 34093 | 0.00 | 0 | 6.66 | 15090 |
| Dieldrin | 0.10 | 0.08 | 7.79 | 37306 | 0.00 | 0 | 7.80 | 16433 |
| 4,4'-DDE | 0.10 | 0.08 | 7.77 | 31548 | 7.78 | 33643 | 0.00 | 0 |
| Endrin | 0.10 | 0.09 | 8.69 | 25019 | 8.70 | 26364 | 0.00 | 0 |
| Endosulfan II | 0.10 | 0.09 | 8.90 | 33275 | 0.00 | 0 | 8.91 | 14152 |
| 4,4'-DDD | 0.10 | 0.10 | 9.81 | 25302 | 9.81 | 26568 | 0.00 | 0 |
| Endo.sulfate | 0.10 | 0.11 | 11.46 | 21935 | 11.47 | 22878 | 0.00 | 0 |
| 4,4'DDT | 0.10 | 0.13 | 12.88 | 24119 | 0.00 | 0 | 12.90 | 8864 |
| Methoxychlor | 0.10 | 0.19 | 19.31 | 10291 | 19.31 | 10936 | 0.00 | 0 |
| Endrin ketone | 0.10 | 0.15 | 14.74 | 33078 | 0.00 | 0 | 14.76 | 13610 |
| a. Chlordane | 0.10 | 0.07 | 6.77 | 32893 | 6.78 | 35183 | 0.00 | 0 |
| g. Chlordane | 0.10 | 0.06 | 6.11 | 33890 | 6.12 | 36375 | 0.00 | 0 |
| Toxaphene | 2.50 | 0.11 | 10.99 | 375825 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1016 | 1.00 | 0.03 | 2.62 | 48958 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1221 | 5.00 | 0.02 | 1.50 | 58370 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1232 | 2.50 | 0.02 | 1.86 | 34000 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1242 | 2.50 | 0.04 | 3.88 | 75850 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1248 | 1.00 | 0.05 | 4.58 | 80016 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1254 | 1.00 | 0.08 | 7.58 | 124896 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1260 | 1.00 | 0.13 | 13.32 | 165948 | 0.00 | 0 | 0.00 | 0 |
| DBC | 0.10 | 0.27 | 26.55 | 33733 | 26.56 | 34414 | 26.57 | 14010 |

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09-May-90

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ORIGINAL (Red)

# PESTICIDE/PCB STANDARDS ENTRY FORM

Lab Name: VERSAR, INC. Case No.: R3-7

Lab Code: VERSAR Contract:

Instrument ID: C SAS No.:

Run Date: 05/08,09/90 GC Column ID: 3% SP2100

Inject Vol: 2.00 (uL) Window Width: 1.0%

| COMPOUND | CONC. IN STD (uG/ML) | WINDOW WIDTH | FIRST STD RT | FIRST STD RAW AREA | SIXTH STD RT | SIXTH STD RAW AREA | SEVENTH STD RT | SEVENTH STD RAW AREA |
|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 0.10 | 0.02 | 1.84 | 33940 | 1.85 | 14760 | 0.00 | 0 |
| beta-BHC | 0.10 | 0.02 | 1.97 | 14377 | 1.97 | 6177 | 0.00 | 0 |
| delta-BHC | 0.10 | 0.02 | 2.23 | 31457 | 2.24 | 12876 | 0.00 | 0 |
| gamma-BHC | 0.10 | 0.02 | 2.17 | 32316 | 0.00 | 0 | 0.00 | 0 |
| Heptachlor | 0.10 | 0.04 | 3.51 | 31816 | 3.51 | 13038 | 0.00 | 0 |
| Aldrin | 0.10 | 0.04 | 4.36 | 36091 | 0.00 | 0 | 0.00 | 0 |
| Hept. epoxide | 0.10 | 0.05 | 5.33 | 35618 | 0.00 | 0 | 0.00 | 0 |
| Endosulfan I | 0.10 | 0.07 | 6.65 | 34093 | 0.00 | 0 | 0.00 | 0 |
| Dieldrin | 0.10 | 0.08 | 7.79 | 37306 | 0.00 | 0 | 0.00 | 0 |
| 4,4'-DDE | 0.10 | 0.08 | 7.77 | 31548 | 7.77 | 12831 | 0.00 | 0 |
| Endrin | 0.10 | 0.09 | 8.69 | 25019 | 8.70 | 10003 | 0.00 | 0 |
| Endosulfan II | 0.10 | 0.09 | 8.90 | 33275 | 0.00 | 0 | 0.00 | 0 |
| 4,4'-DDD | 0.10 | 0.10 | 9.81 | 25302 | 9.81 | 10038 | 0.00 | 0 |
| Endo.sulfate | 0.10 | 0.11 | 11.46 | 21935 | 11.46 | 8457 | 0.00 | 0 |
| 4,4'DDT | 0.10 | 0.13 | 12.88 | 24119 | 0.00 | 0 | 0.00 | 0 |
| Methoxychlor | 0.10 | 0.19 | 19.31 | 10291 | 19.30 | 3472 | 0.00 | 0 |
| Endrin ketone | 0.10 | 0.15 | 14.74 | 33078 | 0.00 | 0 | 0.00 | 0 |
| a. Chlordane | 0.10 | 0.07 | 6.77 | 32893 | 6.78 | 13442 | 0.00 | 0 |
| g. Chlordane | 0.10 | 0.06 | 6.11 | 33890 | 6.11 | 13958 | 0.00 | 0 |
| Toxaphene | 2.50 | 0.11 | 10.99 | 375825 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1016 | 1.00 | 0.03 | 2.62 | 48958 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1221 | 5.00 | 0.02 | 1.50 | 58370 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1232 | 2.50 | 0.02 | 1.86 | 34000 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1242 | 2.50 | 0.04 | 3.88 | 75850 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1248 | 1.00 | 0.05 | 4.58 | 80016 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1254 | 1.00 | 0.08 | 7.58 | 124896 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1260 | 1.00 | 0.13 | 13.32 | 165948 | 0.00 | 0 | 0.00 | 0 |
| DBC | 0.10 | 0.27 | 26.55 | 33733 | 26.56 | 12298 | 0.00 | 0 |

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09-May-90

ORIGINAL (Red)

# PESTICIDE/PCB STANDARDS SUMMARY

Lab Name:_____VERSAR, INC. Contract:_____

Lab Code: ____VERSAR Case No.:R3-7 SAS No.:__ SDG NO.: _____4

Instrument ID:_____C GC Column ID: ___3% SP2100

| | | | |
|---|---|---|---|
| DATE(S) OF ANALYSIS | FROM:____05/08/90 | DATE OF ANALYSIS | _05/08/90 |
| | TO:____05/08/90 | TIME OF ANALYSIS | _2124 |
| TIME(S) OF ANALYSIS | FROM:____1035 | EPA SAMPLE NO. | B973 |
| | TO:____1358 | (STANDARD) | ___INDA |

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALIBRATION FACTOR | RT | CALIBRATION FACTOR | QNT Y/N | %D |
|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 1.84 | 1.83 | 1.86 | 169700 | 0.00 | 0 | Y | 0 |
| beta-BHC | 1.97 | 1.95 | 1.99 | 71885 | 0.00 | 0 | Y | 0 |
| delta-BHC | 2.23 | 2.21 | 2.26 | 157285 | 0.00 | 0 | Y | 0 |
| gamma-BHC | 2.17 | 2.15 | 2.19 | 161580 | 2.18 | 182080 | Y | -13 |
| Heptachlor | 3.51 | 3.48 | 3.55 | 159080 | 0.00 | 0 | Y | 0 |
| Aldrin | 4.36 | 4.31 | 4.40 | 180455 | 4.37 | 203085 | Y | -13 |
| Hept. epoxide | 5.33 | 5.27 | 5.38 | 178090 | 5.34 | 201065 | Y | -13 |
| Endosulfan I | 6.65 | 6.58 | 6.72 | 170465 | 6.66 | 193370 | Y | -13 |
| Dieldrin | 7.79 | 7.71 | 7.87 | 186530 | 7.81 | 210815 | Y | -13 |
| 4,4'-DDE | 7.77 | 7.69 | 7.85 | 157740 | 0.00 | 0 | Y | 0 |
| Endrin | 8.69 | 8.61 | 8.78 | 125095 | 0.00 | 0 | Y | 0 |
| Endosulfan II | 8.90 | 8.81 | 8.99 | 166375 | 8.92 | 187075 | Y | -12 |
| 4,4'-DDD | 9.81 | 9.71 | 9.90 | 126510 | 0.00 | 0 | Y | 0 |
| Endo.sulfate | 11.46 | 11.34 | 11.57 | 109675 | 0.00 | 0 | Y | 0 |
| 4,4'DDT | 12.88 | 12.75 | 13.01 | 120595 | 12.90 | 138320 | Y | -15 |
| Methoxychlor | 19.31 | 19.11 | 19.50 | 51455 | 0.00 | 0 | Y | 0 |
| Endrin ketone | 14.74 | 14.59 | 14.89 | 165390 | 14.77 | 191675 | Y | -16 |
| a. Chlordane | 6.77 | 6.71 | 6.84 | 164465 | 0.00 | 0 | Y | 0 |
| g. Chlordane | 6.11 | 6.04 | 6.17 | 169450 | 0.00 | 0 | Y | 0 |
| Toxaphene | 10.99 | 10.88 | 11.10 | 75165 | 0.00 | 0 | Y | 0 |
| Aroclor-1016 | 2.62 | 2.59 | 2.65 | 24479 | 0.00 | 0 | Y | 0 |
| Aroclor-1221 | 1.50 | 1.49 | 1.52 | 5837 | 0.00 | 0 | Y | 0 |
| Aroclor-1232 | 1.86 | 1.84 | 1.88 | 6800 | 0.00 | 0 | Y | 0 |
| Aroclor-1242 | 3.88 | 3.84 | 3.92 | 15170 | 0.00 | 0 | Y | 0 |
| Aroclor-1248 | 4.58 | 4.53 | 4.63 | 40008 | 0.00 | 0 | Y | 0 |
| Aroclor-1254 | 7.58 | 7.50 | 7.66 | 62448 | 0.00 | 0 | Y | 0 |
| Aroclor-1260 | 13.32 | 13.19 | 13.45 | 82974 | 0.00 | 0 | Y | 0 |

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

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

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



100119

5/9/90

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# PESTICIDE/PCB STANDARDS SUMMARY

ORIGINAL (Red)

Lab Name:_____VERSAR, INC. Contract:_____

Lab Code: ____VERSAR Case No.:R3-7 SAS No.:__ SDG NO.: _____4

Instrument ID:_____C GC Column ID: ___3% SP2100

D

| | | |
|---|---|---|
| DATE(S) OF ANALYSIS | FROM:____05/08/90<br>TO:____05/08/90 | DATE OF ANALYSIS _05/09/90 |
| TIME(S) OF ANALYSIS | FROM:____1035<br>TO:____1358 | TIME OF ANALYSIS _0000<br>EPA SAMPLE NO. (STANDARD) B973 ___INDA |

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALIBRATION FACTOR | RT | CALIBRATION FACTOR | QNT Y/N | %D |
|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 1.84 | 1.83 | 1.86 | 169700 | 0.00 | 0 | Y | 0 |
| beta-BHC | 1.97 | 1.95 | 1.99 | 71885 | 0.00 | 0 | Y | 0 |
| delta-BHC | 2.23 | 2.21 | 2.26 | 157285 | 0.00 | 0 | Y | 0 |
| gamma-BHC | 2.17 | 2.15 | 2.19 | 161580 | 2.18 | 161025 | Y | 0 |
| Heptachlor | 3.51 | 3.48 | 3.55 | 159080 | 0.00 | 0 | Y | 0 |
| Aldrin | 4.36 | 4.31 | 4.40 | 180455 | 4.37 | 180825 | Y | 0 |
| Hept. epoxide | 5.33 | 5.27 | 5.38 | 178090 | 5.34 | 181020 | Y | -2 |
| Endosulfan I | 6.65 | 6.58 | 6.72 | 170465 | 6.66 | 172295 | Y | -1 |
| Dieldrin | 7.79 | 7.71 | 7.87 | 186530 | 7.81 | 186175 | Y | 0 |
| 4,4'-DDE | 7.77 | 7.69 | 7.85 | 157740 | 0.00 | 0 | Y | 0 |
| Endrin | 8.69 | 8.61 | 8.78 | 125095 | 0.00 | 0 | Y | 0 |
| Endosulfan II | 8.90 | 8.81 | 8.99 | 166375 | 8.92 | 164985 | Y | 1 |
| 4,4'-DDD | 9.81 | 9.71 | 9.90 | 126510 | 0.00 | 0 | Y | 0 |
| Endo.sulfate | 11.46 | 11.34 | 11.57 | 109675 | 0.00 | 0 | Y | 0 |
| 4,4'DDT | 12.88 | 12.75 | 13.01 | 120595 | 12.90 | 113675 | Y | 6 |
| Methoxychlor | 19.31 | 19.11 | 19.50 | 51455 | 0.00 | 0 | Y | 0 |
| Endrin ketone | 14.74 | 14.59 | 14.89 | 165390 | 14.76 | 163585 | Y | 1 |
| a. Chlordane | 6.77 | 6.71 | 6.84 | 164465 | 0.00 | 0 | Y | 0 |
| g. Chlordane | 6.11 | 6.04 | 6.17 | 169450 | 0.00 | 0 | Y | 0 |
| Toxaphene | 10.99 | 10.88 | 11.10 | 75165 | 0.00 | 0 | Y | 0 |
| Aroclor-1016 | 2.62 | 2.59 | 2.65 | 24479 | 0.00 | 0 | Y | 0 |
| Aroclor-1221 | 1.50 | 1.49 | 1.52 | 5837 | 0.00 | 0 | Y | 0 |
| Aroclor-1232 | 1.86 | 1.84 | 1.88 | 6800 | 0.00 | 0 | Y | 0 |
| Aroclor-1242 | 3.88 | 3.84 | 3.92 | 15170 | 0.00 | 0 | Y | 0 |
| Aroclor-1248 | 4.58 | 4.53 | 4.63 | 40008 | 0.00 | 0 | Y | 0 |
| Aroclor-1254 | 7.58 | 7.50 | 7.66 | 62448 | 0.00 | 0 | Y | 0 |
| Aroclor-1260 | 13.32 | 13.19 | 13.45 | 82974 | 0.00 | 0 | Y | 0 |

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

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

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



FORM IX PEST 1/87 REV.

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100120
5/9/90

# PESTICIDE/PCB STANDARDS SUMMARY

ORIGINAL (Red)

Lab Name:_____VERSAR, INC. Contract:_____

Lab Code: ____VERSAR Case No.:R3-7 SAS No.:__ SDG NO.: _____4

Instrument ID:_____C GC Column ID: ___3% SP2100

| | | |
|---|---|---|
| DATE(S) OF ANALYSIS | FROM:____05/08/90 TO:____05/08/90 | DATE OF ANALYSIS _05/09/90 |
| TIME(S) OF ANALYSIS | FROM:____1035 TO:____1358 | TIME OF ANALYSIS _0033 |
| | | EPA SAMPLE NO. (STANDARD) B974 ___INDB |

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALIBRATION FACTOR | RT | CALIBRATION FACTOR | QNT Y/N | %D |
|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 1.84 | 1.83 | 1.86 | 169700 | 1.85 | 179180 | Y | -6 |
| beta-BHC | 1.97 | 1.95 | 1.99 | 71885 | 1.98 | 76255 | Y | -6 |
| delta-BHC | 2.23 | 2.21 | 2.26 | 157285 | 2.24 | 164730 | Y | -5 |
| gamma-BHC | 2.17 | 2.15 | 2.19 | 161580 | 0.00 | 0 | Y | 0 |
| Heptachlor | 3.51 | 3.48 | 3.55 | 159080 | 3.52 | 168965 | Y | -6 |
| Aldrin | 4.36 | 4.31 | 4.40 | 180455 | 0.00 | 0 | Y | 0 |
| Hept. epoxide | 5.33 | 5.27 | 5.38 | 178090 | 0.00 | 0 | Y | 0 |
| Endosulfan I | 6.65 | 6.58 | 6.72 | 170465 | 0.00 | 0 | Y | 0 |
| Dieldrin | 7.79 | 7.71 | 7.87 | 186530 | 0.00 | 0 | Y | 0 |
| 4,4'-DDE | 7.77 | 7.69 | 7.85 | 157740 | 7.78 | 168215 | Y | -7 |
| Endrin | 8.69 | 8.61 | 8.78 | 125095 | 8.70 | 131820 | Y | -5 |
| Endosulfan II | 8.90 | 8.81 | 8.99 | 166375 | 0.00 | 0 | Y | 0 |
| 4,4'-DDD | 9.81 | 9.71 | 9.90 | 126510 | 9.81 | 132840 | Y | -5 |
| Endo.sulfate | 11.46 | 11.34 | 11.57 | 109675 | 11.47 | 114390 | Y | -4 |
| 4,4'DDT | 12.88 | 12.75 | 13.01 | 120595 | 0.00 | 0 | Y | 0 |
| Methoxychlor | 19.31 | 19.11 | 19.50 | 51455 | 19.31 | 54680 | Y | -6 |
| Endrin ketone | 14.74 | 14.59 | 14.89 | 165390 | 0.00 | 0 | Y | 0 |
| a. Chlordane | 6.77 | 6.71 | 6.84 | 164465 | 6.78 | 175915 | Y | -7 |
| g. Chlordane | 6.11 | 6.04 | 6.17 | 169450 | 6.12 | 181875 | Y | -7 |
| Toxaphene | 10.99 | 10.88 | 11.10 | 75165 | 0.00 | 0 | Y | 0 |
| Aroclor-1016 | 2.62 | 2.59 | 2.65 | 24479 | 0.00 | 0 | Y | 0 |
| Aroclor-1221 | 1.50 | 1.49 | 1.52 | 5837 | 0.00 | 0 | Y | 0 |
| Aroclor-1232 | 1.86 | 1.84 | 1.88 | 6800 | 0.00 | 0 | Y | 0 |
| Aroclor-1242 | 3.88 | 3.84 | 3.92 | 15170 | 0.00 | 0 | Y | 0 |
| Aroclor-1248 | 4.58 | 4.53 | 4.63 | 40008 | 0.00 | 0 | Y | 0 |
| Aroclor-1254 | 7.58 | 7.50 | 7.66 | 62448 | 0.00 | 0 | Y | 0 |
| Aroclor-1260 | 13.32 | 13.19 | 13.45 | 82974 | 0.00 | 0 | Y | 0 |

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

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

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



FORM IX PEST 1/87 REV.

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# PESTICIDE/PCB STANDARDS SUMMARY

ORIGINAL (Red)

Lab Name:_____VERSAR, INC. Contract:_____

Lab Code: ____VERSAR Case No.:R3-7 SAS No.:__ SDG NO.: _____4

Instrument ID:_____C GC Column ID: ___3% SP2100

D

| | | |
|---|---|---|
| DATE(S) OF ANALYSIS | FROM:____05/08/90<br>TO:____05/08/90 | DATE OF ANALYSIS _05/09/90 |
| TIME(S) OF ANALYSIS | FROM:____1035<br>TO:____1358 | TIME OF ANALYSIS _1614<br>EPA SAMPLE NO. (STANDARD) B973 ___INDA |

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALIBRATION FACTOR | RT | CALIBRATION FACTOR | QNT Y/N | %D |
|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 1.84 | 1.83 | 1.86 | 169700 | 0.00 | 0 | Y | 0 |
| beta-BHC | 1.97 | 1.95 | 1.99 | 71885 | 0.00 | 0 | Y | 0 |
| delta-BHC | 2.23 | 2.21 | 2.26 | 157285 | 0.00 | 0 | Y | 0 |
| gamma-BHC | 2.17 | 2.15 | 2.19 | 161580 | 2.17 | 76280 | Y | 53 |
| Heptachlor | 3.51 | 3.48 | 3.55 | 159080 | 0.00 | 0 | Y | 0 |
| Aldrin | 4.36 | 4.31 | 4.40 | 180455 | 4.36 | 81600 | Y | 55 |
| Hept. epoxide | 5.33 | 5.27 | 5.38 | 178090 | 5.33 | 79330 | Y | 55 |
| Endosulfan I | 6.65 | 6.58 | 6.72 | 170465 | 6.66 | 75450 | Y | 56 |
| Dieldrin | 7.79 | 7.71 | 7.87 | 186530 | 7.80 | 82165 | Y | 56 |
| 4,4'-DDE | 7.77 | 7.69 | 7.85 | 157740 | 0.00 | 0 | Y | 0 |
| Endrin | 8.69 | 8.61 | 8.78 | 125095 | 0.00 | 0 | Y | 0 |
| Endosulfan II | 8.90 | 8.81 | 8.99 | 166375 | 8.91 | 70760 | Y | 57 |
| 4,4'-DDD | 9.81 | 9.71 | 9.90 | 126510 | 0.00 | 0 | Y | 0 |
| Endo.sulfate | 11.46 | 11.34 | 11.57 | 109675 | 0.00 | 0 | Y | 0 |
| 4,4'DDT | 12.88 | 12.75 | 13.01 | 120595 | 12.90 | 44320 | Y | 63 |
| Methoxychlor | 19.31 | 19.11 | 19.50 | 51455 | 0.00 | 0 | Y | 0 |
| Endrin ketone | 14.74 | 14.59 | 14.89 | 165390 | 14.76 | 68050 | Y | 59 |
| a. Chlordane | 6.77 | 6.71 | 6.84 | 164465 | 0.00 | 0 | Y | 0 |
| g. Chlordane | 6.11 | 6.04 | 6.17 | 169450 | 0.00 | 0 | Y | 0 |
| Toxaphene | 10.99 | 10.88 | 11.10 | 75165 | 0.00 | 0 | Y | 0 |
| Aroclor-1016 | 2.62 | 2.59 | 2.65 | 24479 | 0.00 | 0 | Y | 0 |
| Aroclor-1221 | 1.50 | 1.49 | 1.52 | 5837 | 0.00 | 0 | Y | 0 |
| Aroclor-1232 | 1.86 | 1.84 | 1.88 | 6800 | 0.00 | 0 | Y | 0 |
| Aroclor-1242 | 3.88 | 3.84 | 3.92 | 15170 | 0.00 | 0 | Y | 0 |
| Aroclor-1248 | 4.58 | 4.53 | 4.63 | 40008 | 0.00 | 0 | Y | 0 |
| Aroclor-1254 | 7.58 | 7.50 | 7.66 | 62448 | 0.00 | 0 | Y | 0 |
| Aroclor-1260 | 13.32 | 13.19 | 13.45 | 82974 | 0.00 | 0 | Y | 0 |

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

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

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



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# PESTICIDE/PCB STANDARDS SUMMARY

ORIGINAL (Red)

Lab Name: VERSAR, INC. Contract: _____

Lab Code: VERSAR Case No.: R3-7 SAS No.: __ SDG NO.: 4

Instrument ID: C GC Column ID: 3% SP2100

| | | | |
|---|---|---|---|
| DATE(S) OF ANALYSIS | FROM: 05/08/90 | DATE OF ANALYSIS | 05/09/90 |
| | TO: 05/08/90 | TIME OF ANALYSIS | 1647 |
| TIME(S) OF ANALYSIS | FROM: 1035 | EPA SAMPLE NO. | B974 |
| | TO: 1358 | (STANDARD) | INDB |

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALIBRATION FACTOR | RT | CALIBRATION FACTOR | QNT Y/N | %D |
|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 1.84 | 1.83 | 1.86 | 169700 | 1.85 | 73800 | Y | 57 |
| beta-BHC | 1.97 | 1.95 | 1.99 | 71885 | 1.97 | 30885 | Y | 57 |
| delta-BHC | 2.23 | 2.21 | 2.26 | 157285 | 2.24 | 64380 | Y | 59 |
| gamma-BHC | 2.17 | 2.15 | 2.19 | 161580 | 0.00 | 0 | Y | 0 |
| Heptachlor | 3.51 | 3.48 | 3.55 | 159080 | 3.51 | 65190 | Y | 59 |
| Aldrin | 4.36 | 4.31 | 4.40 | 180455 | 0.00 | 0 | Y | 0 |
| Hept. epoxide | 5.33 | 5.27 | 5.38 | 178090 | 0.00 | 0 | Y | 0 |
| Endosulfan I | 6.65 | 6.58 | 6.72 | 170465 | 0.00 | 0 | Y | 0 |
| Dieldrin | 7.79 | 7.71 | 7.87 | 186530 | 0.00 | 0 | Y | 0 |
| 4,4'-DDE | 7.77 | 7.69 | 7.85 | 157740 | 7.77 | 64155 | Y | 59 |
| Endrin | 8.69 | 8.61 | 8.78 | 125095 | 8.70 | 50015 | Y | 60 |
| Endosulfan II | 8.90 | 8.81 | 8.99 | 166375 | 0.00 | 0 | Y | 0 |
| 4,4'-DDD | 9.81 | 9.71 | 9.90 | 126510 | 9.81 | 50190 | Y | 60 |
| Endo.sulfate | 11.46 | 11.34 | 11.57 | 109675 | 11.46 | 42285 | Y | 61 |
| 4,4'DDT | 12.88 | 12.75 | 13.01 | 120595 | 0.00 | 0 | Y | 0 |
| Methoxychlor | 19.31 | 19.11 | 19.50 | 51455 | 19.30 | 17360 | Y | 66 |
| Endrin ketone | 14.74 | 14.59 | 14.89 | 165390 | 0.00 | 0 | Y | 0 |
| a. Chlordane | 6.77 | 6.71 | 6.84 | 164465 | 6.78 | 67210 | Y | 59 |
| g. Chlordane | 6.11 | 6.04 | 6.17 | 169450 | 6.11 | 69790 | Y | 59 |
| Toxaphene | 10.99 | 10.88 | 11.10 | 75165 | 0.00 | 0 | Y | 0 |
| Aroclor-1016 | 2.62 | 2.59 | 2.65 | 24479 | 0.00 | 0 | Y | 0 |
| Aroclor-1221 | 1.50 | 1.49 | 1.52 | 5837 | 0.00 | 0 | Y | 0 |
| Aroclor-1232 | 1.86 | 1.84 | 1.88 | 6800 | 0.00 | 0 | Y | 0 |
| Aroclor-1242 | 3.88 | 3.84 | 3.92 | 15170 | 0.00 | 0 | Y | 0 |
| Aroclor-1248 | 4.58 | 4.53 | 4.63 | 40008 | 0.00 | 0 | Y | 0 |
| Aroclor-1254 | 7.58 | 7.50 | 7.66 | 62448 | 0.00 | 0 | Y | 0 |
| Aroclor-1260 | 13.32 | 13.19 | 13.45 | 82974 | 0.00 | 0 | Y | 0 |

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

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

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



100123
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ORIGINAL (Red)

PCB STANDARD TABLE

Lab Name: VERSAR, INC. Case No.: R3-7

Lab Code: VERSAR Contract:

Instrument ID: C SAS No.:

Run Date: 05/08,09/90 GC Column ID: 3% SP2100

Inject Vol: 2.00 (uL) Window Width: 1.0% PCBSTDA

| MULTI-COMPONENT ANALYTE | STAND CONC (ug/ml) | PEAK # | BEGINNING STANDARD RT | BEGINNING STANDARD AREA | CAL. FACTOR | FINAL STANDARD RT | FINAL STANDARD AREA | CAL. FACTOR | %D RT | %D CAL FACTOR |
|---|---|---|---|---|---|---|---|---|---|---|
| | 2.50 | 1 | 7.45 | 35752 | | X | 0 | | 100 | |
| | | 2 | 9.54 | 91464 | | X | 0 | | 100 | |
| Toxaphene | | 3 | 10.99 | 63701 | 75165 | X | 0 | 0 | 100 | 100 |
| | | 4 | 12.77 | 116585 | | X | 0 | | 100 | |
| | | 5 | 15.87 | 68325 | | X | 0 | | 100 | |
| | 5.00 | 1 | 1.11 | 7152 | | X | 0 | | 100 | |
| | | 2 | 1.35 | 1921 | | X | 0 | | 100 | |
| Aroclor-1221 | | 3 | 1.50 | 3361 | 5837 | X | 0 | 0 | 100 | 100 |
| | | 4 | 1.71 | 11086 | | X | 0 | | 100 | |
| | | 5 | 1.85 | 34845 | | X | 0 | | 100 | |
| | 2.50 | 1 | 1.11 | 1735 | | X | 0 | | 100 | |
| | | 2 | 1.71 | 3139 | | X | 0 | | 100 | |
| Aroclor-1232 | | 3 | 1.86 | 13115 | 6800 | X | 0 | 0 | 100 | 100 |
| | | 4 | 2.35 | 9573 | | X | 0 | | 100 | |
| | | 5 | 2.60 | 6440 | | X | 0 | | 100 | |
| | 1.00 | 1 | X | 0 | | X | 0 | | 0 | |
| | | 2 | X | 0 | | X | 0 | | 0 | |
| | | 3 | X | 0 | 0 | X | 0 | 0 | 0 | 0 |
| | | 4 | X | 0 | | X | 0 | | 0 | |
| | | 5 | X | 0 | | X | 0 | | 0 | |
| | 1.00 | 1 | X | 0 | | X | 0 | | 0 | |
| | | 2 | X | 0 | | X | 0 | | 0 | |
| | | 3 | X | 0 | 0 | X | 0 | 0 | 0 | 0 |
| | | 4 | X | 0 | | X | 0 | | 0 | |
| | | 5 | X | 0 | | X | 0 | | 0 | |

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100124

09-May-90

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ORIGINAL (Red)

PCB STANDARD TABLE

Lab Name: VERSAR, INC. Case No.: R3-7

Lab Code: VERSAR Contract:

Instrument ID: C SAS No.:

Run Date: 05/08,09/90 GC Column ID: 3% SP2100

Inject Vol: 2.00 (uL) Window Width: 1.0% PCBSTDB

| MULTI-COMPONENT ANALYTE | STAND CONC (ug/ml) | PEAK # | BEGINNING STANDARD RT | BEGINNING STANDARD AREA | CAL. FACTOR | FINAL STANDARD RT | FINAL STANDARD AREA | CAL. FACTOR | %D RT | %D CAL FACTOR |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1.00 | 1 | 1.87 | 4408 | | X | 0 | | 100 | |
| | | 2 | 2.38 | 7335 | | X | 0 | | 100 | |
| Aroclor-1016 | | 3 | 2.62 | 5473 | 24479 | X | 0 | 0 | 100 | 100 |
| | | 4 | 3.07 | 18563 | | X | 0 | | 100 | |
| | | 5 | 3.28 | 13178 | | X | 0 | | 100 | |
| | 2.50 | 1 | 2.38 | 14512 | | X | 0 | | 100 | |
| | | 2 | 2.62 | 11082 | | X | 0 | | 100 | |
| Aroclor-1242 | | 3 | 3.88 | 17675 | 15170 | X | 0 | 0 | 100 | 100 |
| | | 4 | 4.29 | 16228 | | X | 0 | | 100 | |
| | | 5 | 4.58 | 16351 | | X | 0 | | 100 | |
| | 1.00 | 1 | 3.88 | 13561 | | X | 0 | | 100 | |
| | | 2 | 4.28 | 10071 | | X | 0 | | 100 | |
| Aroclor-1248 | | 3 | 4.58 | 11818 | 40008 | X | 0 | 0 | 100 | 100 |
| | | 4 | 5.47 | 31110 | | X | 0 | | 100 | |
| | | 5 | 6.09 | 13456 | | X | 0 | | 100 | |
| | 1.00 | 1 | 5.54 | 17768 | | X | 0 | | 100 | |
| | | 2 | 6.54 | 26816 | | X | 0 | | 100 | |
| Aroclor-1254 | | 3 | 7.58 | 16956 | 62448 | X | 0 | 0 | 100 | 100 |
| | | 4 | 8.07 | 23297 | | X | 0 | | 100 | |
| | | 5 | 9.61 | 40059 | | X | 0 | | 100 | |
| | 1.00 | 1 | 11.36 | 39798 | | X | 0 | | 100 | |
| | | 2 | 12.27 | 16571 | | X | 0 | | 100 | |
| Aroclor-1260 | | 3 | 13.32 | 37183 | 82974 | X | 0 | 0 | 100 | 100 |
| | | 4 | 15.38 | 36289 | | X | 0 | | 100 | |
| | | 5 | 17.69 | 36106 | | X | 0 | | 100 | |

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21-May-90

ORIGINAL (Red)

2NDPAGE

# PESTICIDE/PCB STANDARDS ENTRY FORM

Lab Name: VERSAR, INC. Case No.: R3-7

Lab Code: VERSAR Contract:

Instrument ID: A SAS No.:

Run Date: 05/21/90 GC Column ID: SP2250/SP2401

Inject Vol: 2.00 (uL) Window Width: 1.0%

| COMPOUND | CONC. IN STD (uG/ML) | WINDOW WIDTH | FIRST STD RT | FIRST STD RAW AREA | SECOND STD RT | SECOND STD RAW AREA | THIRD STD RT | THIRD STD RAW AREA |
|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 0.10 | 0.02 | 2.04 | 237519 | 0.00 | 0 | 2.05 | 194837 |
| beta-BHC | 0.10 | 0.03 | 2.84 | 66916 | 0.00 | 0 | 2.85 | 57595 |
| delta-BHC | 0.10 | 0.03 | 3.30 | 212474 | 0.00 | 0 | 3.31 | 178017 |
| gamma-BHC | 0.10 | 0.03 | 2.53 | 178282 | 2.54 | 171491 | 0.00 | 0 |
| Heptachlor | 0.10 | 0.03 | 3.06 | 201676 | 0.00 | 0 | 3.08 | 169107 |
| Aldrin | 0.10 | 0.04 | 3.67 | 175332 | 3.69 | 169024 | 0.00 | 0 |
| Hept. epoxide | 0.10 | 0.05 | 5.34 | 164573 | 5.37 | 160023 | 0.00 | 0 |
| Endosulfan I | 0.10 | 0.07 | 6.66 | 154038 | 6.70 | 150559 | 0.00 | 0 |
| Dieldrin | 0.10 | 0.08 | 8.07 | 171905 | 8.12 | 165946 | 0.00 | 0 |
| 4,4'-DDE | 0.10 | 0.08 | 7.54 | 162009 | 0.00 | 0 | 7.58 | 135380 |
| Endrin | 0.10 | 0.10 | 9.77 | 109768 | 0.00 | 0 | 9.82 | 105408 |
| Endosulfan II | 0.10 | 0.12 | 11.72 | 148723 | 11.79 | 146314 | 0.00 | 0 |
| 4,4'-DDD | 0.10 | 0.11 | 11.31 | 128557 | 0.00 | 0 | 11.36 | 111756 |
| Endo.sulfate | 0.10 | 0.18 | 17.88 | 113235 | 0.00 | 0 | 17.96 | 98498 |
| ,4'DDT | 0.10 | 0.14 | 13.56 | 103980 | 13.65 | 107041 | 0.00 | 0 |
| Methoxychlor | 0.10 | 0.25 | 25.28 | 58370 | 0.00 | 0 | 25.40 | 49723 |
| Endrin ketone | 0.10 | 0.25 | 24.56 | 147486 | 24.70 | 147060 | 0.00 | 0 |
| a. Chlordane | 0.10 | 0.06 | 6.43 | 171684 | 0.00 | 0 | 6.45 | 143218 |
| g. Chlordane | 0.10 | 0.06 | 5.91 | 175541 | 0.00 | 0 | 5.94 | 148842 |
| Toxaphene | 2.50 | 0.12 | 11.93 | 483620 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1016 | 1.00 | 0.03 | 3.01 | 117430 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1221 | 5.00 | 0.02 | 1.72 | 226290 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1232 | 2.50 | 0.03 | 2.79 | 111455 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1242 | 2.50 | 0.04 | 3.73 | 207455 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1248 | 1.00 | 0.05 | 5.16 | 195178 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1254 | 1.00 | 0.11 | 10.51 | 369382 | 0.00 | 0 | 0.00 | 0 |
| Aroclor-1260 | 1.00 | 0.13 | 13.38 | 594108 | 0.00 | 0 | 0.00 | 0 |
| DBC | 0.10 | 0.23 | 22.89 | 155866 | 23.01 | 138284 | 23.00 | 134337 |

Cf 05/21/90

ORIGINAL (Red)

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# PESTICIDE/PCB STANDARDS SUMMARY

Lab Name:_____VERSAR, INC. Contract:_____

Lab Code: ____VERSAR Case No.:R3-7 SAS No.:__ SDG NO.: _____4

Instrument ID:_____A GC Column ID: ___SP2250/SP2401

| | | |
|---|---|---|
| DATE(S) OF ANALYSIS | FROM:____05/21/90 TO:____05/21/90 | DATE OF ANALYSIS _05/21/90 |
| TIME(S) OF ANALYSIS | FROM:____1024 TO:____1349 | TIME OF ANALYSIS _1938 |
| | | EPA SAMPLE NO. (STANDARD) 8973 ___INDA |

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALIBRATION FACTOR | RT | CALIBRATION FACTOR | QNT Y/N | %D |
|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 2.04 | 2.02 | 2.06 | 1187595 | 0.00 | 0 | N | 0 |
| beta-BHC | 2.84 | 2.81 | 2.86 | 334580 | 0.00 | 0 | N | 0 |
| delta-BHC | 3.30 | 3.27 | 3.33 | 1062370 | 0.00 | 0 | N | 0 |
| gamma-BHC | 2.53 | 2.51 | 2.56 | 891410 | 2.54 | 857455 | N | 4 |
| Heptachlor | 3.06 | 3.03 | 3.09 | 1008380 | 0.00 | 0 | N | 0 |
| Aldrin | 3.67 | 3.64 | 3.71 | 876660 | 3.69 | 845120 | N | 4 |
| Hept. epoxide | 5.34 | 5.28 | 5.39 | 822865 | 5.37 | 800115 | N | 3 |
| Endosulfan I | 6.66 | 6.59 | 6.72 | 770190 | 6.70 | 752795 | N | 2 |
| Dieldrin | 8.07 | 7.99 | 8.15 | 859525 | 8.12 | 829730 | N | 3 |
| 4,4'-DDE | 7.54 | 7.47 | 7.62 | 810045 | 0.00 | 0 | N | 0 |
| Endrin | 9.77 | 9.67 | 9.87 | 548840 | 0.00 | 0 | N | 0 |
| Endosulfan II | 11.72 | 11.60 | 11.84 | 743615 | 11.79 | 731570 | N | 2 |
| 4,4'-DDD | 11.31 | 11.19 | 11.42 | 642785 | 0.00 | 0 | N | 0 |
| Endo.sulfate | 17.88 | 17.70 | 18.06 | 566175 | 0.00 | 0 | N | 0 |
| 4,4'DDT | 13.56 | 13.42 | 13.70 | 519900 | 13.65 | 535205 | N | -3 |
| Methoxychlor | 25.28 | 25.03 | 25.53 | 291850 | 0.00 | 0 | N | 0 |
| Endrin ketone | 24.56 | 24.31 | 24.81 | 737430 | 24.70 | 735300 | N | 0 |
| a. Chlordane | 6.43 | 6.36 | 6.49 | 858420 | 0.00 | 0 | N | 0 |
| g. Chlordane | 5.91 | 5.85 | 5.97 | 877705 | 0.00 | 0 | N | 0 |
| Toxaphene | 11.93 | 11.81 | 12.05 | 96724 | 0.00 | 0 | N | 0 |
| Aroclor-1016 | 3.01 | 2.98 | 3.04 | 58715 | 0.00 | 0 | N | 0 |
| Aroclor-1221 | 1.72 | 1.70 | 1.74 | 22629 | 0.00 | 0 | N | 0 |
| Aroclor-1232 | 2.79 | 2.76 | 2.82 | 22291 | 0.00 | 0 | N | 0 |
| Aroclor-1242 | 3.73 | 3.69 | 3.77 | 41491 | 0.00 | 0 | N | 0 |
| Aroclor-1248 | 5.16 | 5.11 | 5.21 | 97589 | 0.00 | 0 | N | 0 |
| Aroclor-1254 | 10.51 | 10.40 | 10.62 | 184691 | 0.00 | 0 | N | 0 |
| Aroclor-1260 | 13.38 | 13.25 | 13.51 | 297054 | 0.00 | 0 | N | 0 |

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

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

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

100127

CF 051211 TO

ORIGINAL (Red)



# PESTICIDE/PCB STANDARDS SUMMARY

Lab Name:_____VERSAR, INC. Contract:_____

Lab Code: ____VERSAR Case No.:R3-7 SAS No.:__ SDG NO.: _____4

Instrument ID:_____A GC Column ID: ___SP2250/SP2401

| | | |
|---|---|---|
| DATE(S) OF ANALYSIS | FROM:____05/21/90<br>TO:____05/21/90 | DATE OF ANALYSIS _05/21/90 |
| TIME(S) OF ANALYSIS | FROM:____1024<br>TO:____1349 | TIME OF ANALYSIS _2011<br>EPA SAMPLE NO. (STANDARD) B974<br>___INDB |

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALIBRATION FACTOR | RT | CALIBRATION FACTOR | QNT Y/N | %D |
|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 2.04 | 2.02 | 2.06 | 1187595 | 2.05 | 974185 | N | 18 |
| beta-BHC | 2.84 | 2.81 | 2.86 | 334580 | 2.85 | 287975 | N | 14 |
| delta-BHC | 3.30 | 3.27 | 3.33 | 1062370 | 3.31 | 890085 | N | 16 |
| gamma-BHC | 2.53 | 2.51 | 2.56 | 891410 | 0.00 | 0 | N | 0 |
| Heptachlor | 3.06 | 3.03 | 3.09 | 1008380 | 3.08 | 845535 | N | 16 |
| Aldrin | 3.67 | 3.64 | 3.71 | 876660 | 0.00 | 0 | N | 0 |
| Hept. epoxide | 5.34 | 5.28 | 5.39 | 822865 | 0.00 | 0 | N | 0 |
| Endosulfan I | 6.66 | 6.59 | 6.72 | 770190 | 0.00 | 0 | N | 0 |
| Dieldrin | 8.07 | 7.99 | 8.15 | 859525 | 0.00 | 0 | N | 0 |
| 4,4'-DDE | 7.54 | 7.47 | 7.62 | 810045 | 7.58 | 676900 | N | 16 |
| Endrin | 9.77 | 9.67 | 9.87 | 548840 | 9.82 | 527040 | N | 4 |
| Endosulfan II | 11.72 | 11.60 | 11.84 | 743615 | 0.00 | 0 | N | 0 |
| 4,4'-DDD | 11.31 | 11.19 | 11.42 | 642785 | 11.36 | 558780 | N | 13 |
| Endo.sulfate | 17.88 | 17.70 | 18.06 | 566175 | 17.96 | 492490 | N | 13 |
| 4,4'DDT | 13.56 | 13.42 | 13.70 | 519900 | 0.00 | 0 | N | 0 |
| Methoxychlor | 25.28 | 25.03 | 25.53 | 291850 | 25.40 | 248615 | N | 15 |
| Endrin ketone | 24.56 | 24.31 | 24.81 | 737430 | 0.00 | 0 | N | 0 |
| a. Chlordane | 6.43 | 6.36 | 6.49 | 858420 | 6.45 | 716090 | N | 17 |
| g. Chlordane | 5.91 | 5.85 | 5.97 | 877705 | 5.94 | 744210 | N | 15 |
| Toxaphene | 11.93 | 11.81 | 12.05 | 96724 | 0.00 | 0 | N | 0 |
| Aroclor-1016 | 3.01 | 2.98 | 3.04 | 58715 | 0.00 | 0 | N | 0 |
| Aroclor-1221 | 1.72 | 1.70 | 1.74 | 22629 | 0.00 | 0 | N | 0 |
| Aroclor-1232 | 2.79 | 2.76 | 2.82 | 22291 | 0.00 | 0 | N | 0 |
| Aroclor-1242 | 3.73 | 3.69 | 3.77 | 41491 | 0.00 | 0 | N | 0 |
| Aroclor-1248 | 5.16 | 5.11 | 5.21 | 97589 | 0.00 | 0 | N | 0 |
| Aroclor-1254 | 10.51 | 10.40 | 10.62 | 184691 | 0.00 | 0 | N | 0 |
| Aroclor-1260 | 13.38 | 13.25 | 13.51 | 297054 | 0.00 | 0 | N | 0 |

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

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

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



CL 05/21/90

FORM IX PEST

100128

1/87 REV.

PCB STANDARD TABLE

Lab Name: VERSAR, INC. Case No.: R3-7

Lab Code: VERSAR Contract:

Instrument ID: A SAS No.:

Run Date: 05/21/90 GC Column ID: SP2250/SP2401

Inject Vol: 2.00 (uL) Window Width: 1.0%

| MULTI-COMPONENT ANALYTE | STAND CONC (ug/ml) | PEAK # | BEGINNING STANDARD RT | BEGINNING STANDARD AREA | CAL. FACTOR | | FINAL STANDARD RT | FINAL STANDARD AREA | CAL. FACTOR | %D RT | %D CAL FACTOR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2.50 | 1 | 7.97 | 70878 | | X | | 0 | | 100 | |
| | | 2 | 8.93 | 77438 | | X | | 0 | | 100 | |
| TOXAPHENE | | 3 | 11.93 | 64326 | 96724 | X | | 0 | 0 | 100 | 100 |
| | | 4 | 13.03 | 62206 | | X | | 0 | | 100 | |
| | | 5 | 14.32 | 208774 | | X | | 0 | | 100 | |
| | 1.00 | 1 | 2.38 | 18572 | | X | | 0 | | 100 | |
| | | 2 | 2.75 | 15816 | | X | | 0 | | 100 | |
| Aroclor-1016 | | 3 | 3.01 | 48251 | 58715 | X | | 0 | 0 | 100 | 100 |
| | | 4 | 3.28 | 20013 | | X | | 0 | | 100 | |
| | | 5 | 3.51 | 14777 | | X | | 0 | | 100 | |
| | 5.00 | 1 | 1.19 | 23892 | | X | | 0 | | 100 | |
| | | 2 | 1.60 | 10295 | | X | | 0 | | 100 | |
| Aroclor-1221 | | 3 | 1.72 | 37243 | 22629 | X | | 0 | 0 | 100 | 100 |
| | | 4 | 1.93 | 132668 | | X | | 0 | | 100 | |
| | | 5 | 2.41 | 22191 | | X | | 0 | | 100 | |
| | 2.50 | 1 | 1.72 | 43352 | | X | | 0 | | 100 | |
| | | 2 | 1.93 | 676 | | X | | 0 | | 100 | |
| Aroclor-1232 | | 3 | 2.79 | 24112 | 22291 | X | | 0 | 0 | 100 | 100 |
| | | 4 | 3.34 | 24539 | | X | | 0 | | 100 | |
| | | 5 | 3.57 | 18775 | | X | | 0 | | 100 | |
| | 2.50 | 1 | 3.28 | 41547 | | X | | 0 | | 100 | |
| | | 2 | 3.51 | 31725 | | X | | 0 | | 100 | |
| Aroclor-1242 | | 3 | 3.73 | 51307 | 41491 | X | | 0 | 0 | 100 | 100 |
| | | 4 | 4.39 | 43340 | | X | | 0 | | 100 | |
| | | 5 | 4.69 | 39535 | | X | | 0 | | 100 | |

KC
05/21/90

ORIGINAL (Red)

PCB STANDARD TABLE

Lab Name: VERSAR, INC. Case No.: R3-7

Lab Code: VERSAR Contract:

Instrument ID: A SAS No.:

Run Date: 05/21/90 GC Column ID: SP2250/SP2401

Inject Vol: 2.00 (uL) Window Width: 1.0%

| MULTI-COMPONENT ANALYTE | STAND CONC (ug/ml) | PEAK # | BEGINNING STANDARD RT | BEGINNING STANDARD AREA | CAL. FACTOR | FINAL STANDARD RT | FINAL STANDARD AREA | CAL. FACTOR | %D RT | %D CAL FACTOR |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1.00 | 1 | 4.38 | 25884 | | X | 0 | | 100 | |
| | | 2 | 4.68 | 26880 | | X | 0 | | 100 | |
| Aroclor-1248 | | 3 | 5.16 | 22736 | 37583 | X | 0 | 0 | 100 | 100 |
| | | 4 | 5.43 | 63498 | | X | 0 | | 100 | |
| | | 5 | 6.38 | 50179 | | X | 0 | | 100 | |
| | 1.00 | 1 | 8.31 | 61339 | | X | 0 | | 100 | |
| | | 2 | 9.41 | 97713 | | X | 0 | | 100 | |
| Aroclor-1254 | | 3 | 10.51 | 60824 | 184691 | X | 0 | 0 | 100 | 100 |
| | | 4 | 11.90 | 62460 | | X | 0 | | 100 | |
| | | 5 | 13.41 | 87040 | | X | 0 | | 100 | |
| | 1.00 | 1 | 10.52 | 124121 | | X | 0 | | 100 | |
| | | 2 | 11.88 | 70288 | | X | 0 | | 100 | |
| Aroclor-1260 | | 3 | 13.38 | 135266 | 297054 | X | 0 | 0 | 100 | 100 |
| | | 4 | 14.29 | 102615 | | X | 0 | | 100 | |
| | | 5 | 20.53 | 161818 | | X | 0 | | 100 | |
| | 1.00 | 1 | X | 0 | | X | 0 | | 0 | |
| | | 2 | X | 0 | | X | 0 | | 0 | |
| | | 3 | X | 0 | 0 | X | 0 | 0 | 0 | 0 |
| | | 4 | X | 0 | | X | 0 | | 0 | |
| | | 5 | X | 0 | | X | 0 | | 0 | |
| | 1.00 | 1 | X | 0 | | X | 0 | | 0 | |
| | | 2 | X | 0 | | X | 0 | | 0 | |
| | | 3 | X | 0 | 0 | X | 0 | 0 | 0 | 0 |
| | | 4 | X | 0 | | X | 0 | | 0 | |
| | | 5 | X | 0 | | X | 0 | | 0 | |

KC
5/21/90

100130

PESTICIDE/PCB IDENTIFICATION

EPA SAMPLE NO.

~~ORIGINAL~~ (Red)

15

Lab Name: VERSAR, INC Contract: _____

Lab Code: VERSAR Case No.: R3-7 SAS No.: _____ SDG No.: 4

GC Column ID (1): 3% SP2100 GC Column ID (2): SP2250/SP2401

Instrument ID (1): C Instrument ID (2): A

Lab Sample ID: 16917/16927

Lab File ID: _____ (only if confirmed by GC/MS)

| | PESTICIDE/PCB | RETENTION TIME | | RT WINDOW OF STANDARD FROM | TO | QUANT? (Y/N) | GC/MS? (Y/N) |
|---|---|---|---|---|---|---|---|
| 01 | 4,4'-DDE | Column 1* | 7.80 | 7.81 | 7.97 | Y | N |
| 02 | | Column 2 | 7.59 | 7.47 | 7.62 | N | N |
| 03 | | Column 1 | | | | Y | N |
| 04 | | Column 2 | | | | N | N |
| 05 | | Column 1 | | | | Y | N |
| 06 | | Column 2 | | | | N | N |
| 07 | | Column 1 | | | | Y | N |
| 08 | | Column 2 | | | | N | N |
| 09 | | Column 1 | | | | Y | N |
| 10 | | Column 2 | | | | N | N |
| 11 | | Column 1 | | | | Y | N |
| 12 | | Column 2 | | | | N | N |

Comments: _____

KC
05/22/90

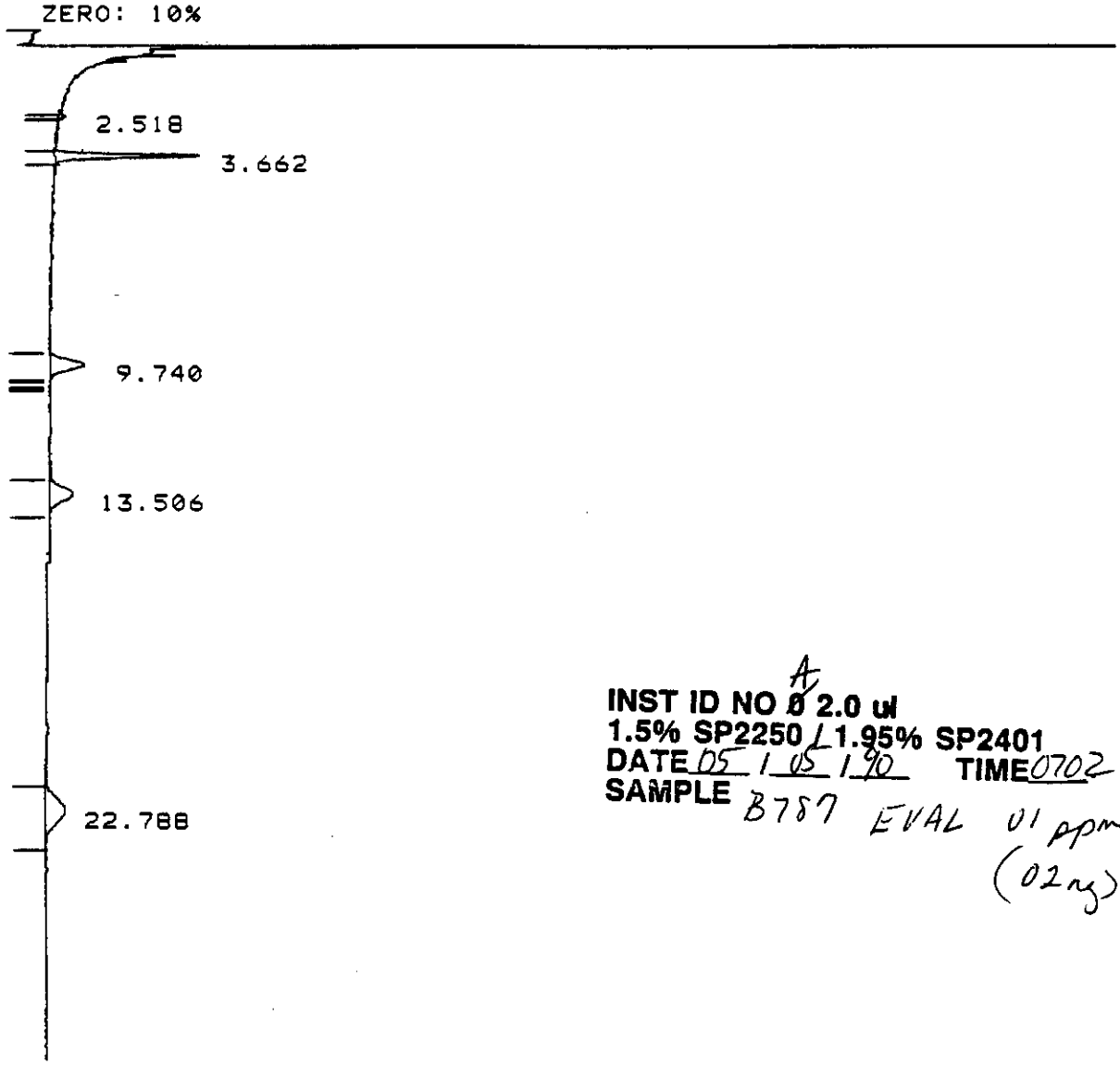


FORM X PEST

1/87 Rev.

ORIGINAL
(Red)

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10%




INST ID NO ~~0~~ A 2.0 ul
1.5% SP2250 / 1.95% SP2401
DATE 05 / 05 / 90 TIME 0702
SAMPLE B787 EVAL 01 ppm
(02 ng)

ORIGINAL
(Red)

TITLE: CLP PESTICIDES 7:02 5 MAY 90

CHANNEL NO: 3 SAMPLE: B787 EVAL.01 METHOD: CLP-3A

| PEAK N | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| | ALDRIN | 16428 | 3.662 | -0.078 | 16428 | BB | ? | 7.75 |
| 2 | ENDRIN | 9935 | 9.740 | -0.220 | 9935 | BB | ? | 20.55 |
| 3 | DDT | 9267 | 13.506 | -0.314 | 9267 | BB | | 25.85 |
| 4 | DBC | 13243 | 22.788 | -0.552 | 13243 | BB | | 46.95 |
| TOTALS: | | 48873 | | -1.164 | 48873 | | | |

'ECTED PKS: 5 REJECTED PKS: 1

DIVISOR: 1.00000 MULTIPLIER: 10000.0

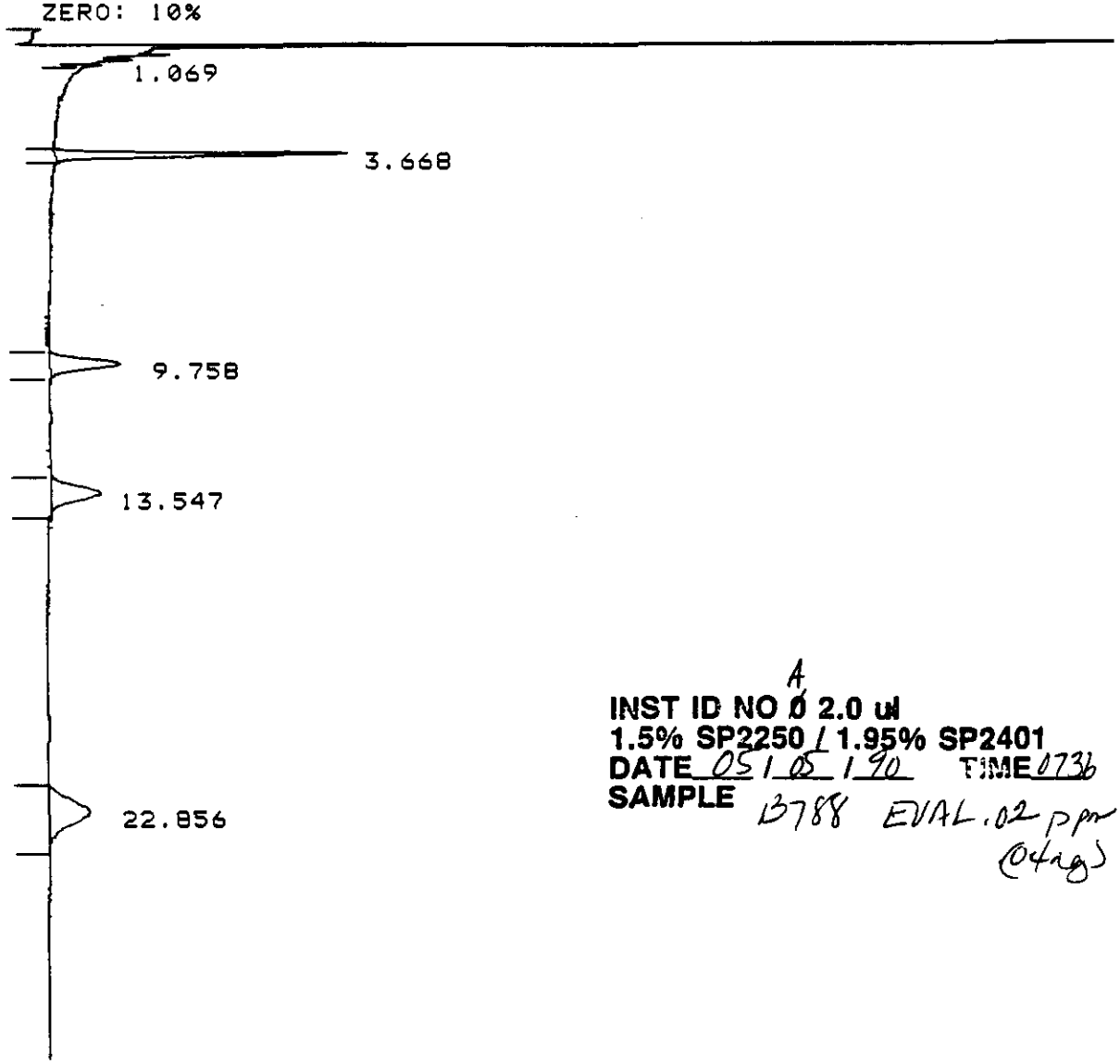
NOISE: 43.7 OFFSET: -18

RACK: 1 VIAL: 1 INJ: 1

NOTES:
COL: 1.5% SP2250/1.95% SP2401
AMT INJ.2UL/INSTRUMENT LETTER A
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIALBA CTL#'S 2521,2544 PEST SOILS
ENGIHARL CTL# 2534,2542 PEST SOILS & H2O'S
VERSCDM CTL# 2565 PEST SOIL

ORIGINAL
(Red)

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10%




INST ID NO ~~0~~ A 2.0 ul
1.5% SP2250 / 1.95% SP2401
DATE 05 / 05 / 90 TIME 0736
SAMPLE B788 EVAL .02 ppm
(04ng)

100134

ORIGINAL
(Red)

TITLE: CLP PESTICIDES 7:36 5 MAY 90

CHANNEL NO: 3 SAMPLE: B788 EVAL.02 METHOD: CLP-3A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 501 | 1.069 | | 501 | BB | | 1.90 |
| 2 | ALDRIN | 32787 | 3.668 | -0.072 | 32787 | BB | ? | 7.70 |
| 3 | ENDRIN | 20420 | 9.758 | -0.202 | 20420 | BB | ? | 20.20 |
| 4 | DDT | 20175 | 13.547 | -0.273 | 20175 | BB | | 27.15 |
| | DBC | 27030 | 22.856 | -0.484 | 27030 | BB | | 47.15 |
| TOTALS: | | 100913 | | -1.031 | 100913 | | | |

DETECTED PKS: 5 REJECTED PKS: 0

DIVISOR: 1.00000 MULTIPLIER: 10000.0

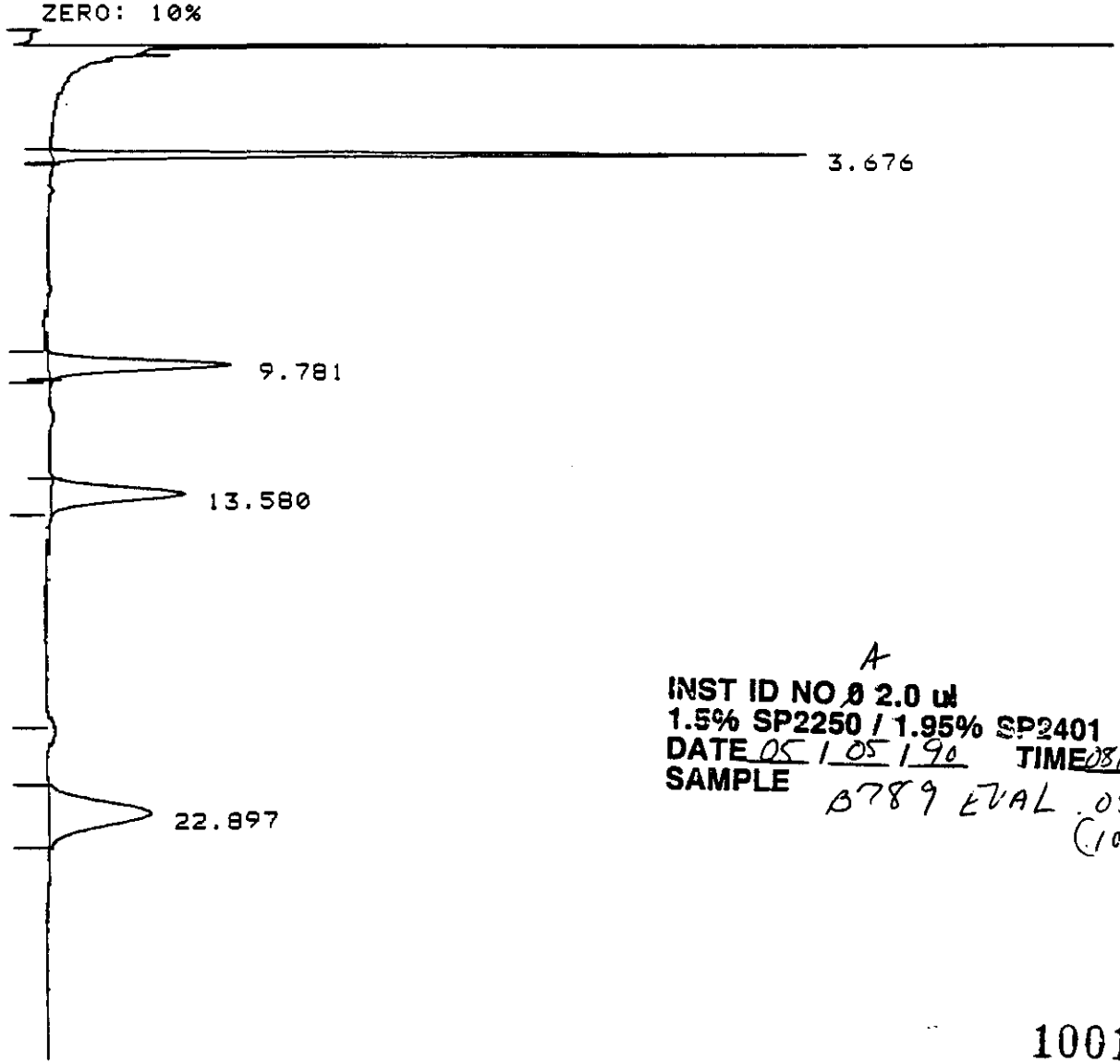
:SE: 43.7 OFFSET: -21

RACK: 1 VIAL: 2 INJ: 1

Endrin deg = 0
DDT deg = 0

NOTES:
COL: 1.5% SP2250/1.95% SP2401
AMT INJ.2UL/INSTRUMENT LETTER A
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIALBA CTL#'S 2521,2544 PEST SOILS
ENGIHARL CTL# 2534,2542 PEST SOILS & H2O'S
VERSCDM CTL# 2565 PEST SOIL

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10%




A
INST ID NO Ø 2.0 ul
1.5% SP2250 / 1.95% SP2401
DATE 05 / 05 / 90 TIME 0810
SAMPLE B789 EVAL .05
(10 ng)

100136

ORIGINAL
(Red)

TITLE: CLP PESTICIDES 8:10 5 MAY 90

CHANNEL NO: 3 SAMPLE: B789 EVAL.05 METHOD: CLP-3A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| ( | ALDRIN | 83961 | 3.676 | -0.064 | 83961 | BV | 7.60 |
| | ENDRIN | 52621 | 9.781 | -0.179 | 52621 | BV | ? 20.10 |
| 3 | DDT | 51174 | 13.580 | -0.240 | 51174 | BB | ? 29.95 |
| 4 | DBC | 66180 | 22.897 | -0.443 | 66180 | BB | ? 46.85 |
| TOTALS: | | 253936 | | -0.926 | 253936 | | |

DETECTED PKS: 6 REJECTED PKS: 2

DIVISOR: 1.00000 MULTIPLIER: 10000.0

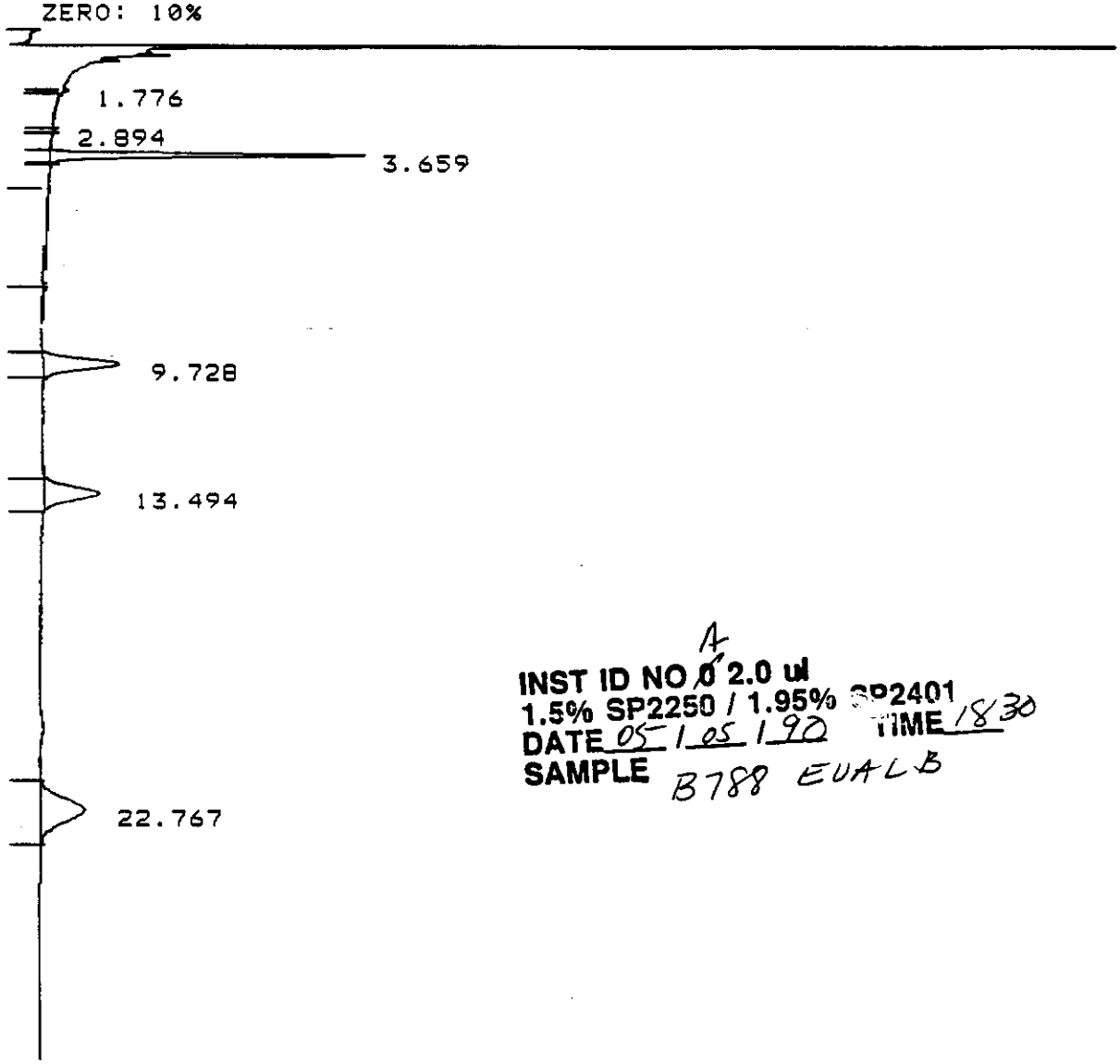
NOISE: 43.7 OFFSET: -26

RACK: 1 VIAL: 4 INJ: 1

NOTES:
COL: 1.5% SP2250/1.95% SP2401
AMT INJ.2UL/INSTRUMENT LETTER A
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIALBA CTL#'S 2521,2544 PEST SOILS
ENGIHARL CTL# 2534,2542 PEST SOILS & H2O'S
VERSCDM CTL# 2565 PEST SOIL

ORIGINAL
(Red)

C  :T SPEED  0.5 CM/MIN
AT:EN:  16  ZERO: 10%




INST ID NO A 2.0 ul
1.5% SP2250 / 1.95% SP2401
DATE 05/05/90 TIME 1830
SAMPLE B788 EVALB

100138

ORIGINAL
(Red)

TITLE: CLP PESTICIDES 18:30 5 MAY 90

C. INEL NO: 3 SAMPLE: B788 EVALB METHOD: CLP-3A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | ALDRIN | 35416 | 3.659 | -0.081 | 35416 | BV | 7.65 |
| 2 | ENDRIN | 21523 | 9.728 | -0.232 | 21523 | BB | ? 18.25 |
| 3 | DDT | 20727 | 13.494 | -0.326 | 20727 | BB | ? 25.25 |
| 4 | DBC | 29267 | 22.767 | -0.573 | 29267 | BB | ? 46.40 |
| TOTALS: | | 106933 | | -1.212 | 106933 | | |

DETECTED PKS: 7 REJECTED PKS: 3

DIVISOR: 1.00000 MULTIPLIER: 10000.0

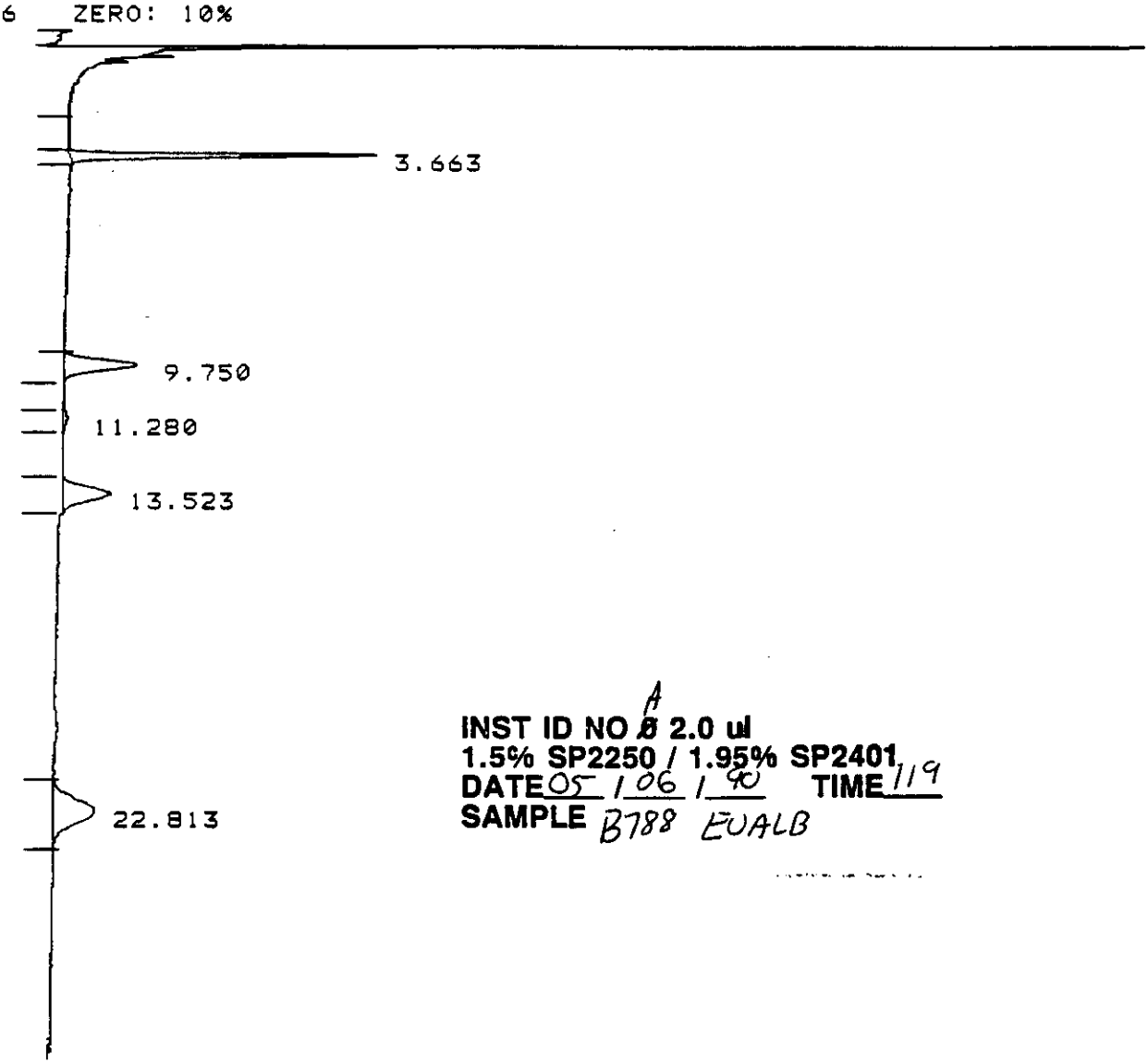
NOISE: 35.2 OFFSET: -31

RACK: 2 VIAL: 10 INJ: 1

N _ES:
COL: 1.5% SP2250/1.95% SP2401
AMT INJ.2UL/INSTRUMENT LETTER A
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIALBA CTL#'S 2521,2544 PEST SOILS
ENGIHARL CTL# 2534,2542 PEST SOILS & H2O'S
VERSCDM CTL# 2565 PEST SOIL

ORIGINAL
(Red)

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10%




INST ID NO ~~B~~ A 2.0 ul
1.5% SP2250 / 1.95% SP2401
DATE 05 / 06 / 90 TIME 119
SAMPLE B788 EUALB

100140

ORIGINAL
(Red)

TITLE: CLP PESTICIDES 1:19 6 MAY 90

CHANNEL NO: 3 SAMPLE: B788 EVALB METHOD: CLP-3A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| | LDRIN | 34243 | 3.663 | -0.077 | 34243 | BB | ? | 7.60 |
| 2 | ENDRIN | 21719 | 9.750 | -0.210 | 21719 | BB | ? | 20.85 |
| 3 | DDD | 1479 | 11.280 | -0.240 | 1479 | BB | | 23.05 |
| 4 | DDT | 18857 | 13.523 | -0.297 | 18857 | BB | | 27.10 |
| 5 | DBC | 28651 | 22.813 | -0.527 | 28651 | BB | | 46.20 |
| TOTALS: | | 104949 | | -1.351 | 104949 | | | |

D. ECTED PKS: 5 REJECTED PKS: 0

DIVISOR: 1.00000 MULTIPLIER: 10000.0

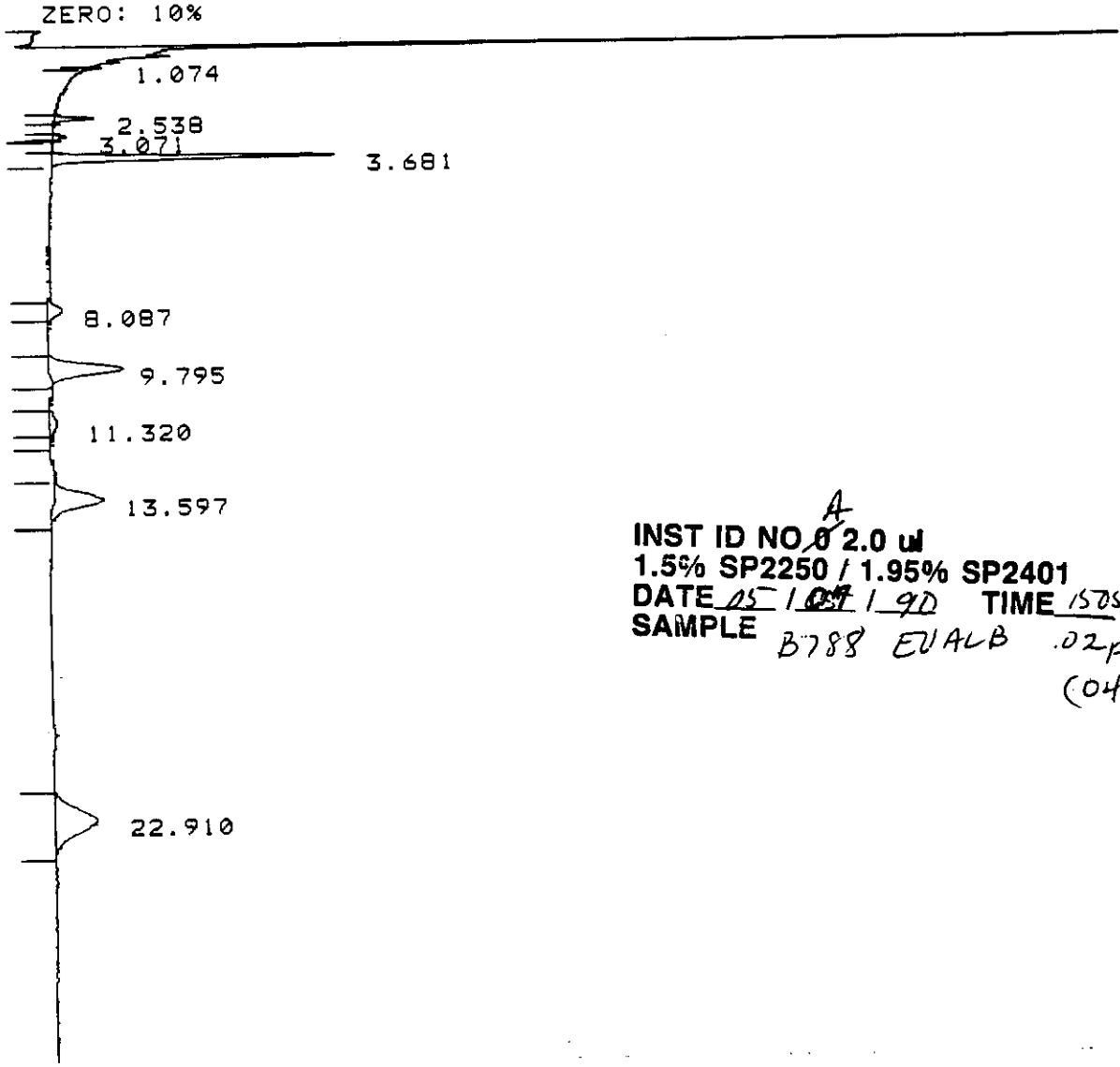
NOISE: 35.2 OFFSET: -24

RACK: 3 VIAL: 13 INJ: 1

NOTES:
COL: 1.5% SP2250/1.95% SP2401
AMT INJ.2UL/INSTRUMENT LETTER A
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIALBA CTL#'S 2521,2544 PEST SOILS
ENGIHARL CTL# 2534,2542 PEST SOILS & H2O'S
VERSCDM CTL# 2565 PEST SOIL

ORIGINAL
(Red)

CH. SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10%




INST ID NO ~~0~~ A 2.0 ul
1.5% SP2250 / 1.95% SP2401
DATE 05 / 07 / 90 TIME 1505
SAMPLE B788 EVALB .02ppm
(04ug)

varian /sunnyvale, calif. p/n 03 906362 00

100142

ORIGINAL (Red)

TITLE: CLP PESTICIDES 15:05 7 MAY 90

CHANNEL NO: 3 SAMPLE: B788 EVALB METHOD: CLP-3A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| 1 | G-BHC | 3282 | 2.538 | -0.042 | 3282 | BB | | 5.50 |
| 2 | HEPTACHLOR | 1168 | 3.071 | -0.049 | 1168 | BB | | 5.95 |
| 3 | ALDRIN | 32015 | 3.681 | -0.059 | 32015 | BB | ? | 7.60 |
| 4 | DIELDRIN | 3363 | 8.087 | -0.133 | 3363 | BB | ? | 16.00 |
| 5 | ENDRIN | 20847 | 9.795 | -0.165 | 20847 | BB | | 20.30 |
| 6 | DDD | 2544 | 11.320 | -0.200 | 2544 | BB | ? | 24.05 |
| 7 | DDT | 19604 | 13.597 | -0.223 | 19604 | BB | | 26.70 |
| 8 | DBC | 26382 | 22.910 | -0.430 | 26382 | BB | | 46.00 |
| TOTALS: | | 109205 | | -1.301 | 109205 | | | |

..ETECTED PKS: 9 REJECTED PKS: 1

DIVISOR: 1.00000 MULTIPLIER: 10000.0

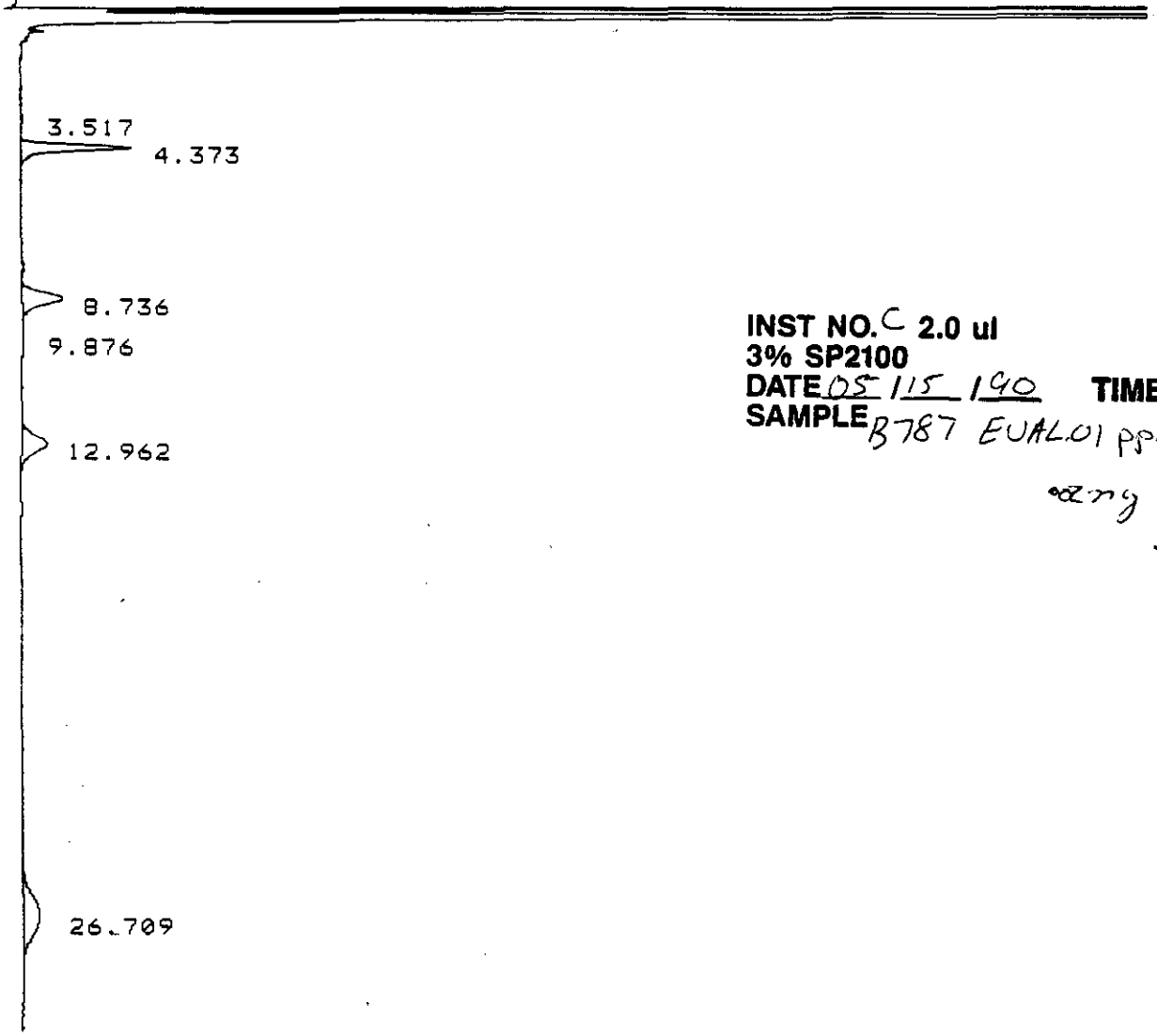
NOISE: 35.2 OFFSET: -19

RACK: 5 VIAL: 1 INJ: 1

NOTES:
COL: 1.5% SP2250/1.95% SP2401
MT INJ.2UL/INSTRUMENT LETTER A
T= OUTSIDE RETENTION TIME WINDOW
ENGIALBA CTL#'S 2521,2544 PEST SOILS
ENGIHARL CTL# 2534,2542 PEST SOILS & H2O'S
VERSCDM CTL# 2565 PEST SOIL

CHART SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%

ORIGINAL
(Red)




INST NO. C 2.0 ul
3% SP2100
DATE 05 / 15 / 90 TIME 1100
SAMPLE B787 EVAL.01 ppm

varian /sunnyvale, calif.p/n 03-906_-00

ORIGINAL (Red)

TITLE: CLP PESTICIDES 11:00 15 MAY 90

CHANNEL NO: 2 SAMPLE: B787 EVAL.01 METHOD: CLP-2A

| PE NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| 1 | ALDRIN | 4772 | 4.373 | 0.033 | 4772 | BB | ? | 7.30 |
| 2 | ENDRIN | 3345 | 8.736 | 0.056 | 3345 | BB | ? | 24.30 |
| 3 | DDT | 3012 | 12.962 | 0.102 | 3012 | BB | | 33.05 |
| 4 | DBC | 4566 | 26.709 | 0.179 | 4566 | BB | ? | 72.95 |
| TOTALS: | | 15695 | | 0.370 | 15695 | | | |

DETECTED PKS: 6 REJECTED PKS: 2

DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 4.9 OFFSET: -6

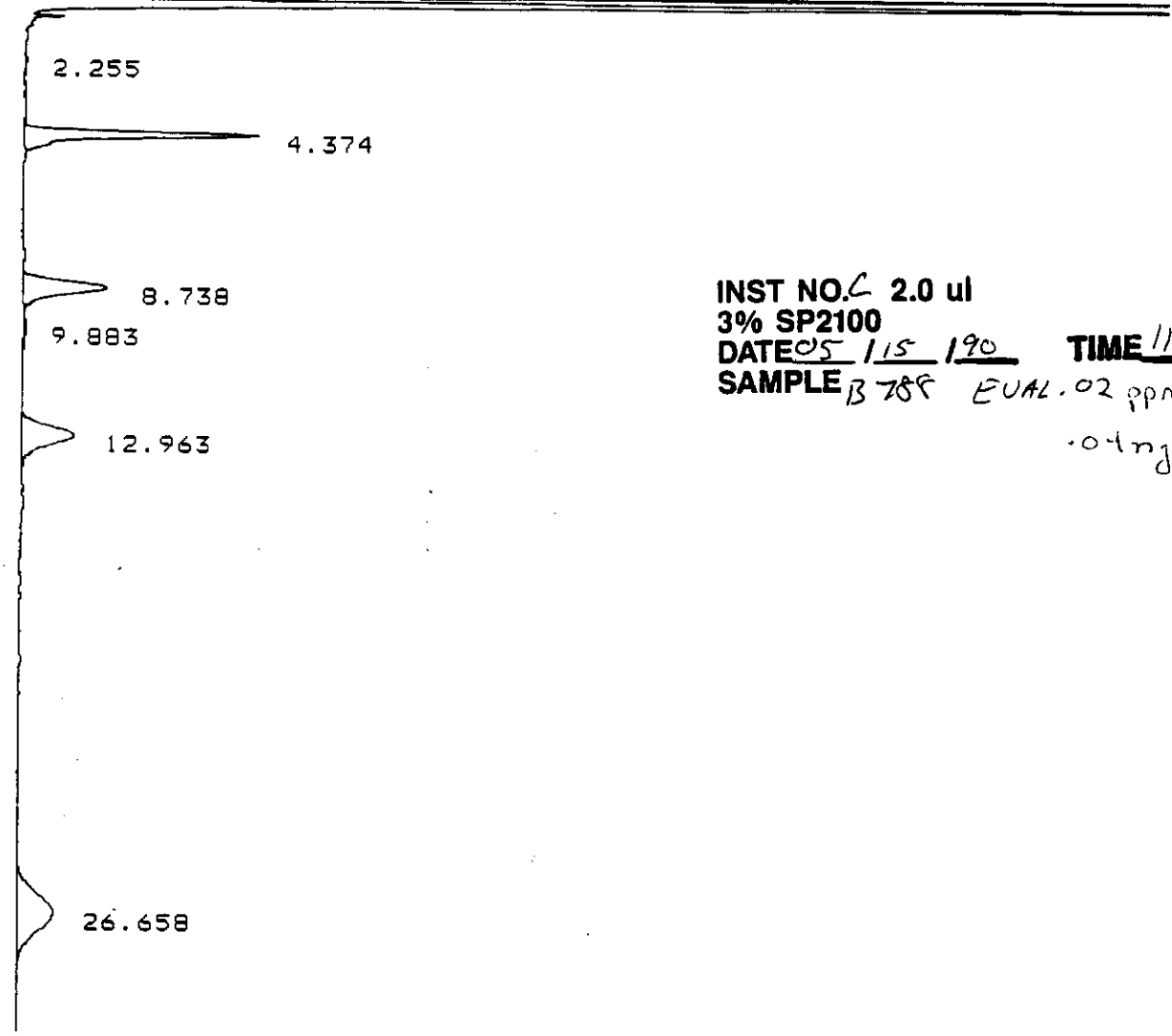
RACK: 1 VIAL: 1 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
VERSCDM B.4 CTL2565 CLP PEST WATER

5362.00

CHART SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%

ORIGINAL (Red)




INST NO. C 2.0 ul
3% SP2100
DATE 05 / 15 / 90 TIME 1134
SAMPLE B 788 EVAL. .02 ppm
.04 ng

100146

TITLE: CLP PESTICIDES 11:34 15 MAY 90

ORIGINAL (Red)

CHANNEL NO: 2 SAMPLE: B788 EVAL.02 METHOD: CLP-2A

| PEAK | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | ALDRIN | 10530 | 4.374 | 0.034 | 10530 | BB | ? 11.50 |
| 2 | ENDRIN | 7207 | 8.738 | 0.058 | 7207 | BB | ? 24.05 |
| 3 | DDT | 6404 | 12.963 | 0.103 | 6404 | BB | ? 33.00 |
| 4 | DBC | 9971 | 26.658 | 0.128 | 9971 | BB | ? 72.50 |
| TOTALS: | | 34112 | | 0.323 | 34112 | | |

DETECTED PKS: 7 REJECTED PKS: 3

DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 4.9 OFFSET: -7

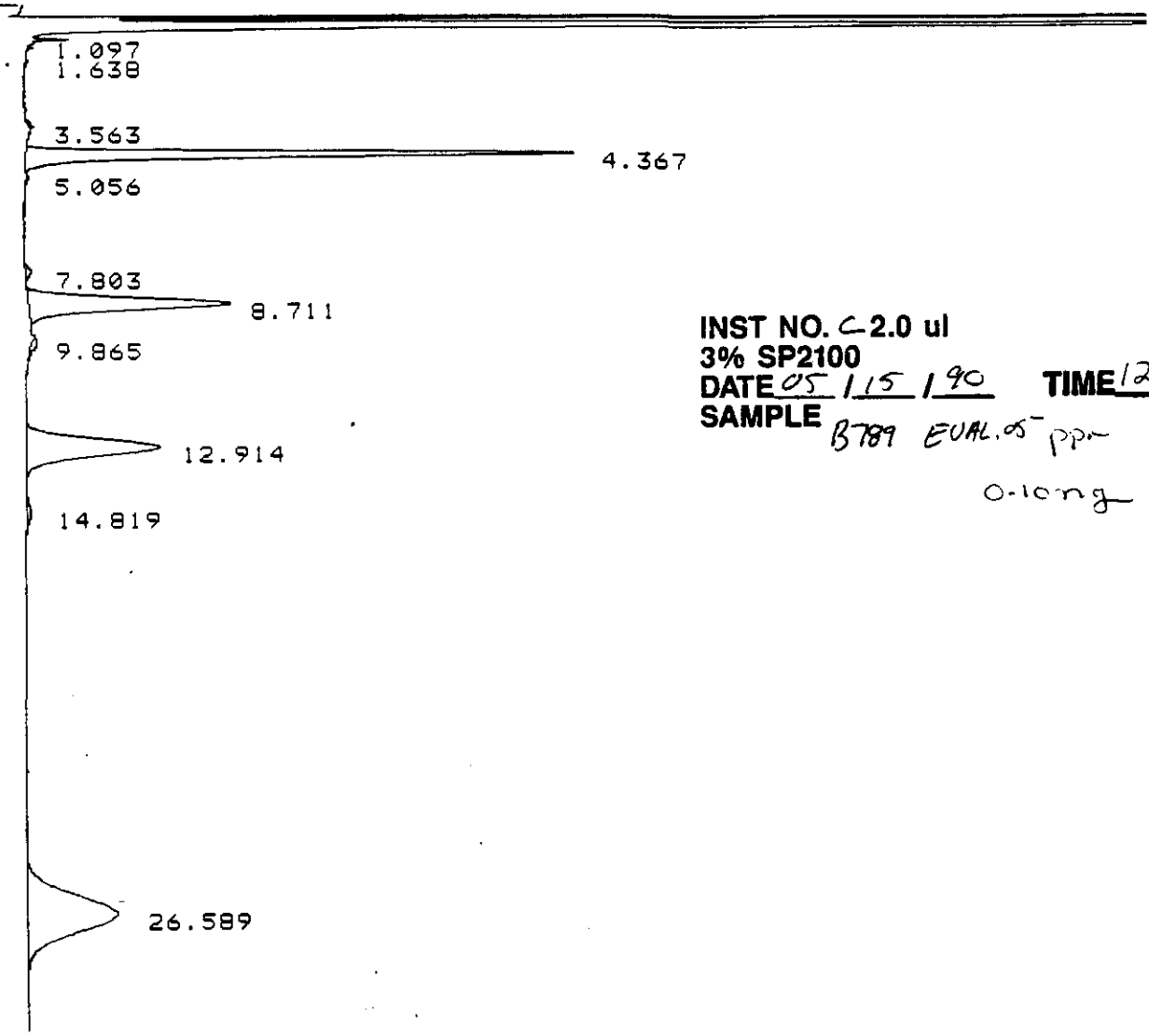
RACK: 1 VIAL: 2 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
VERSCDM B.4 CTL2565 CLP PEST WATER

varian /sunnyvale, calif. p/n 13-906362-00

ORIGINAL
(Red)

CHART SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%




INST NO. C-2.0 ul
3% SP2100
DATE 05 / 15 / 90 TIME 1208
SAMPLE B789 EVAL. 05 ppm
0-10 ng

varian /sunnyvale, calif. p/n 03-906 ..2-00

TITLE: CLP PESTICIDES 12:08 15 MAY 90

CHANNEL NO: 2 SAMPLE: B789 EVAL.05 METHOD: CLP-2A

ORIGINAL (Red)

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| 1 | ALDRIN | 24477 | 4.367 | 0.027 | 24477 | BV | ? | 8.65 |
| 2 | ENDRIN | 16761 | 8.711 | 0.031 | 16761 | VB | ? | 23.30 |
| 3 | DDT | 15993 | 12.914 | 0.054 | 15993 | BB | ? | 32.45 |
| 4 | DBC | 23836 | 26.589 | 0.059 | 23836 | BB | ? | 71.65 |
| TOTALS: | | 81067 | | 0.171 | 81067 | | | |

DETECTED PKS: 12 REJECTED PKS: 8

DIVISOR: 1.00000 MULTIPLIER: 10000.0

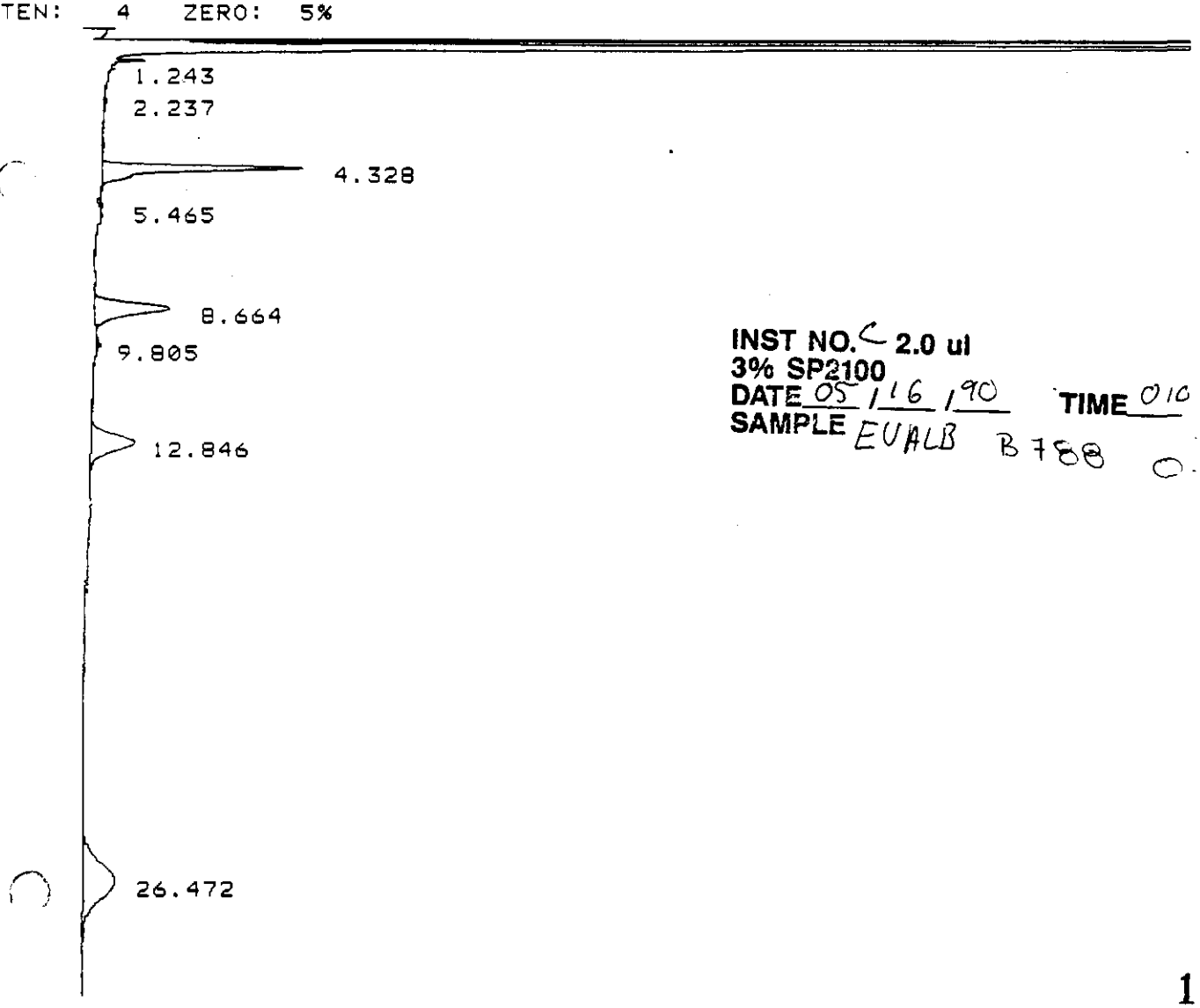
NOISE: 4.9 OFFSET: -11

RACK: 1 VIAL: 4 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
VERSCDM B.4 CTL2565 CLP PEST WATER

ORIGINAL
(Red)

CHART SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%




INST NO. C 2.0 ul
3% SP2100
DATE 05 / 16 / 90 TIME 010
SAMPLE EVALB B788 0.04mg

100150

TITLE: CLP PESTICIDES 0:10 16 MAY 90

CHANNEL NO: 2 SAMPLE: EVALB METHOD: CLP-2A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | ALDRIN | 10108 | 4.328 | -0.012 | 10108 | BB | ? 11.65 |
| 2 | ENDRIN | 7006 | 8.664 | -0.016 | 7006 | BB | ? 14.15 |
| 3 | DDT | 5850 | 12.846 | -0.014 | 5850 | BB | ? 33.40 |
| 4 | DBC | 9353 | 26.472 | -0.058 | 9353 | BB | ? 71.00 |
| TOTALS: | | 32317 | | -0.100 | 32317 | | |

DETECTED PKS: 10 REJECTED PKS: 6

DIVISOR: 1.00000 MULTIPLIER: 10000.0

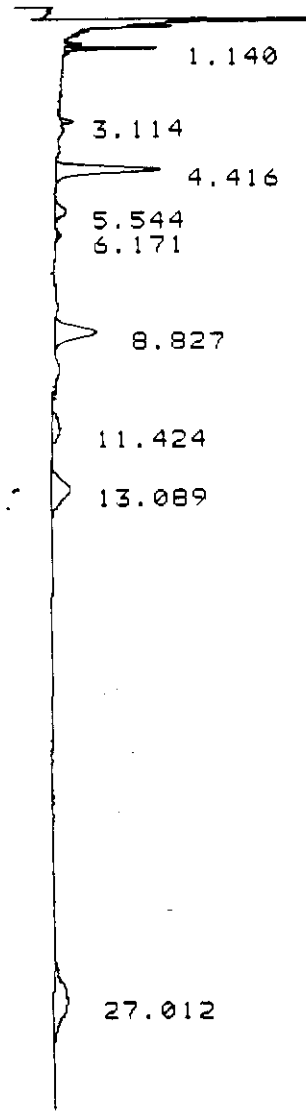
NOISE: 4.9 OFFSET: -25

RACK: 2 VIAL: 10 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
VERSCDM B.4 CTL2565 CLP PEST WATER
GSXMD CTL 2694 PESTICIDE WATER
VERSCDM CTL 2536 PEST SOILS
ENGIBLOM CTL 2660 PEST SOILS

varian sunnyvale, calif. p/n 13 906362 00

CHART SPEED 0.5 CM/MIN
AT N: 4 ZERO: 5%




INST NO. 9 2.0 ul
3% SP2100
DATE 05 / 18 / 90 TIME 0502
SAMPLE B787 EVALA .02mg

varian /sunnyvale,calif.p/n 03-9 62-01

ORIGINAL
(Red)

TI .: CLP PESTICIDES 5:02 18 MAY 90

CHANNEL NO: 2 SAMPLE: B787 EVAL.01 METHOD: CLP-2A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | | 901 | 1.140 | | 901 | BV | 2.75 |
| 2 | ALDRIN | 4200 | 4.416 | 0.076 | 4200 | BB | 11.40 |
| 3 | ~~HEPT-EPOX~~ | 786 | 5.544 | 0.234 | 786 | BB | ? 16.50 |
| 4 | ~~B-ENDOSULF~~ ENDRIN | 3031 | 8.827 | -0.063 | 3031 | BB | 21.40 |
| 5 | ~~ESB~~ | 739 | 11.424 | -0.026 | 739 | BV | ? 25.85 |
| 6 | DDT | 2362 | 13.089 | 0.229 | 2362 | VB | ? 32.50 |
| 7 | DBC | 3277 | 27.012 | 0.482 | 3277 | BB | ? 64.80 |
| TOTALS: | | 15296 | | 0.932 | 15296 | | |

DETECTED PKS: 10 REJECTED PKS: 3

'VISOR: 1.00000 MULTIPLIER: 10000.0

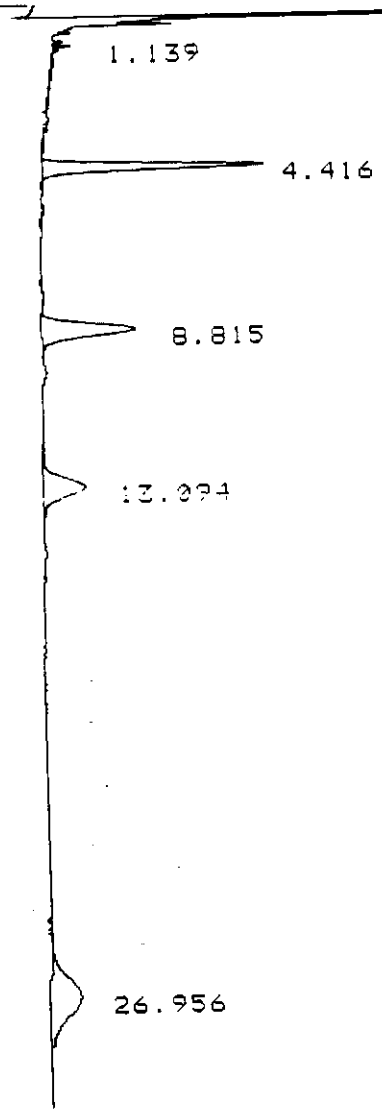
NOISE: 8.5 OFFSET: -16

RACK: 1 VIAL: 1 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
VERSCDM B.4 CTL2565 CLP PEST WATER
VERSCDM CTL 2694 PESTICIDE WATER
VERSCDM CTL 2536 PEST SOILS
ENGIBLOM CTL 2660 PEST SOILS

ORIGINAL
(Red)

CHART SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%




INST NO. ~~B~~ C 2.0 ul
3% SP2100
DATE 05/18/90 TIME 0536
SAMPLE EU AL3 0.04 ng
3188

ORIGINAL
(Red)

varian /sunnyvale, calif. p/n 03-906362-01

TITLE: CLP PESTICIDES 5:36 18 MAY 90

CHANNEL NO: 2 SAMPLE: B788 EVAL.02 METHOD: CLP-2A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | ALDRIN | 8447 | 4.416 | 0.076 | 8447 | BB | ? 11.30 |
| 2 | ~~B-ENDOSULF~~ ENDRIN | 6916 | 8.815 | -0.075 | 6916 | BB | ? 21.50 |
| 3 | DDT | 4513 | 13.094 | 0.234 | 4513 | BB | ? 31.80 |
| 4 | DBC | 7404 | 26.956 | 0.426 | 7404 | BB | 56.80 |
| TOTALS: | | 27280 | | 0.661 | 27280 | | |

DETECTED PKS: 6 REJECTED PKS: 2

DIVISOR: 1.00000 MULTIPLIER: 10000.0

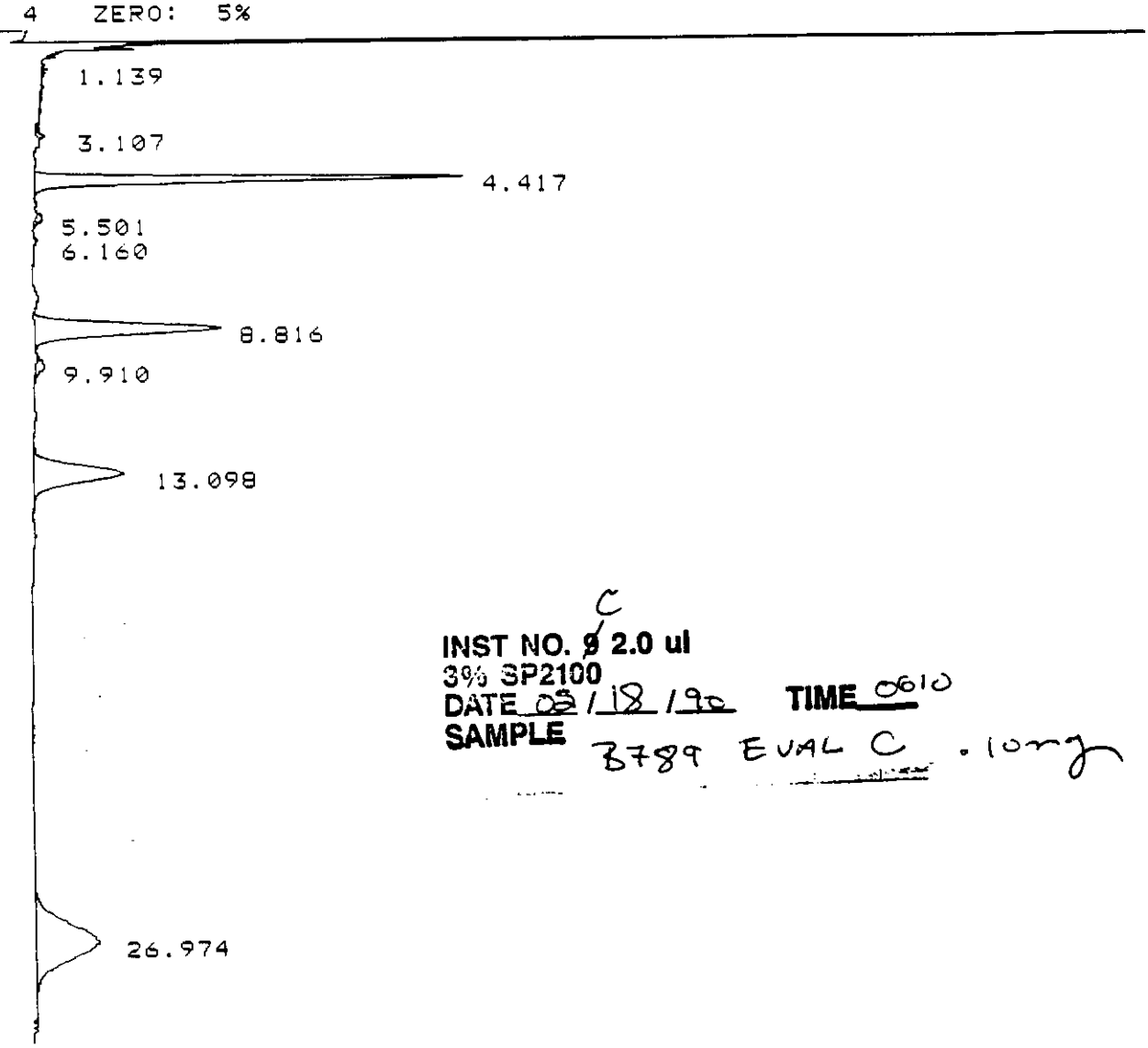
)ISE: 8.5 OFFSET: -9

RACK: 1 VIAL: 2 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
VERSCDM B.4 CTL2565 CLP PEST WATER
XMD CTL 2694 PESTICIDE WATER
_RSCDM CTL 2536 PEST SOILS
ENGIBLOM CTL 2660 PEST SOILS

(Red)

CH T SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%




INST NO. ~~9~~ C 2.0 ul
3% SP2100
DATE 03/18/90 TIME 0610
SAMPLE B789 EVAL C .10mg

varian /sunnyvale,calif.p/n 03-90 32-01

100156

TITLE: CLP PESTICIDES 6:10 18 MAY 90

CHANNEL NO: 2 SAMPLE: B789 EVAL.05 METHOD: CLP-2A

| PE. NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | ALDRIN | 18171 | 4.417 | 0.077 | 18171 | BV | ? 11.45 |
| 2 | ~~B-ENDOSULF~~ | 14623 | 8.816 | -0.074 | 14623 | BB | ? 21.80 |
| 3 | DDT ENDRIN | 10545 | 13.098 | 0.238 | 10545 | BB | ? 32.20 |
| 4 | DBC | 16778 | 26.974 | 0.444 | 16778 | BB | ? 69.70 |
| TOTALS: | | 60117 | | 0.685 | 60117 | | |

DETECTED PKS: 11 REJECTED PKS: 7

DIVISOR: 1.00000 MULTIPLIER: 10000.0

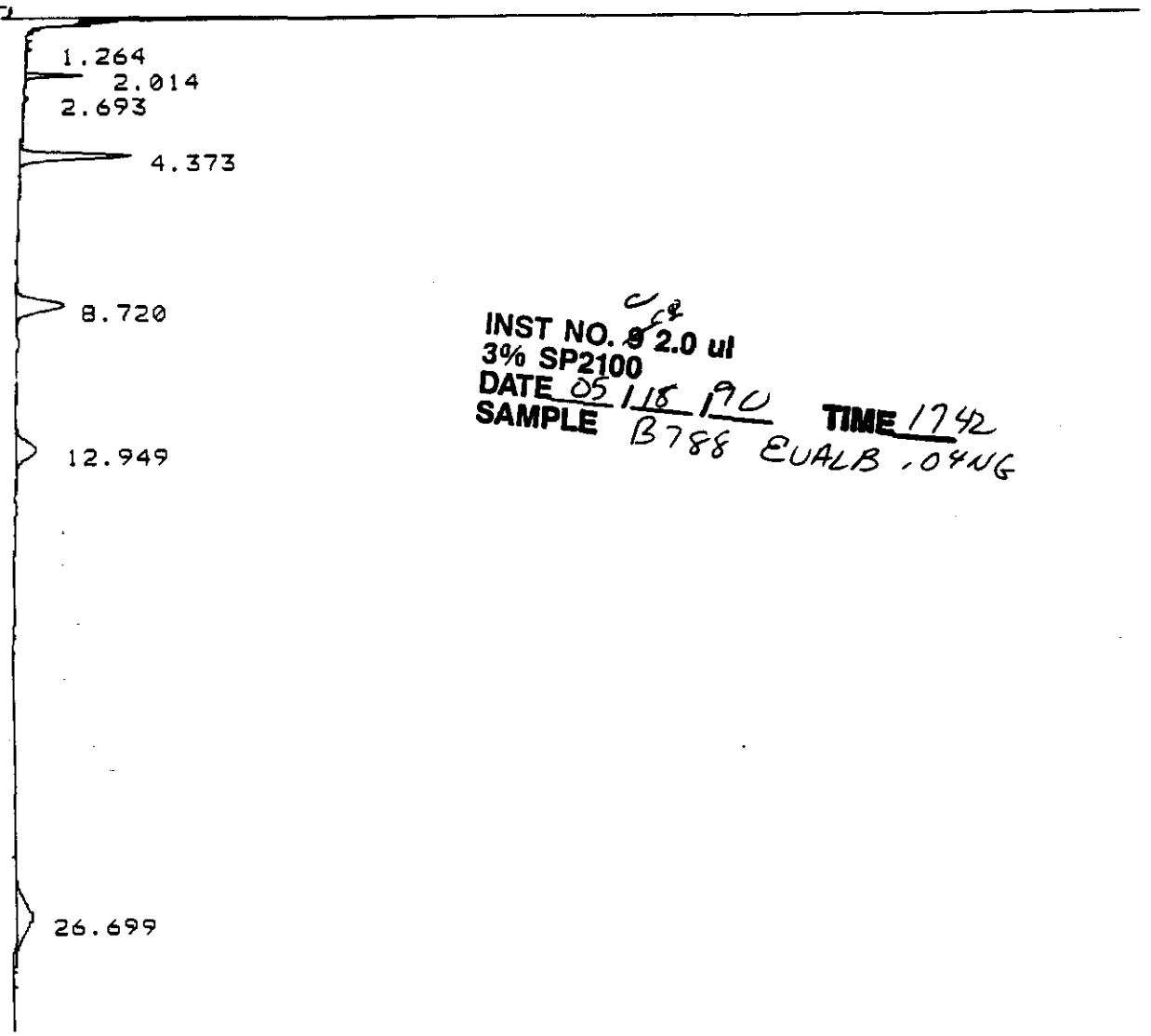
NOISE: 8.5 OFFSET: -11

RACK: 1 VIAL: 4 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
VERSCDM B.4 CTL2565 CLP PEST WATER
GSXMD CTL 2694 PESTICIDE WATER
VERSCDM CTL 2536 PEST SOILS
ENGIBLOM CTL 2660 PEST SOILS

(Red)

CHART SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%




INST NO. ~~9~~ C8 2.0 ul
3% SP2100
DATE 05/18/90 TIME 1742
SAMPLE B788 EUALB .04NG

ORIGINAL
(Red)

TITLE: CLP PESTICIDES 17:42 18 MAY 90

CHANNEL NO: 2 SAMPLE: EVALB METHOD: CLP-2A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | ~~B-BHC~~ | 1069 | 2.014 | 0.024 | 1069 | BB | 5.00 |
| 2 | ALDRIN | 4525 | 4.373 | -0.037 | 4525 | BB | ? 11.20 |
| 3 | ENDRIN | 3789 | 8.720 | -0.100 | 3789 | BB | ? 21.70 |
| 4 | DDT | 2418 | 12.949 | -0.151 | 2418 | BB | ? 30.35 |
| 5 | DBC | 4223 | 26.699 | -0.291 | 4223 | BB | ? 66.65 |
| TOTALS: | | 16024 | | -0.555 | 16024 | | |

DETECTED PKS: 8 REJECTED PKS: 3

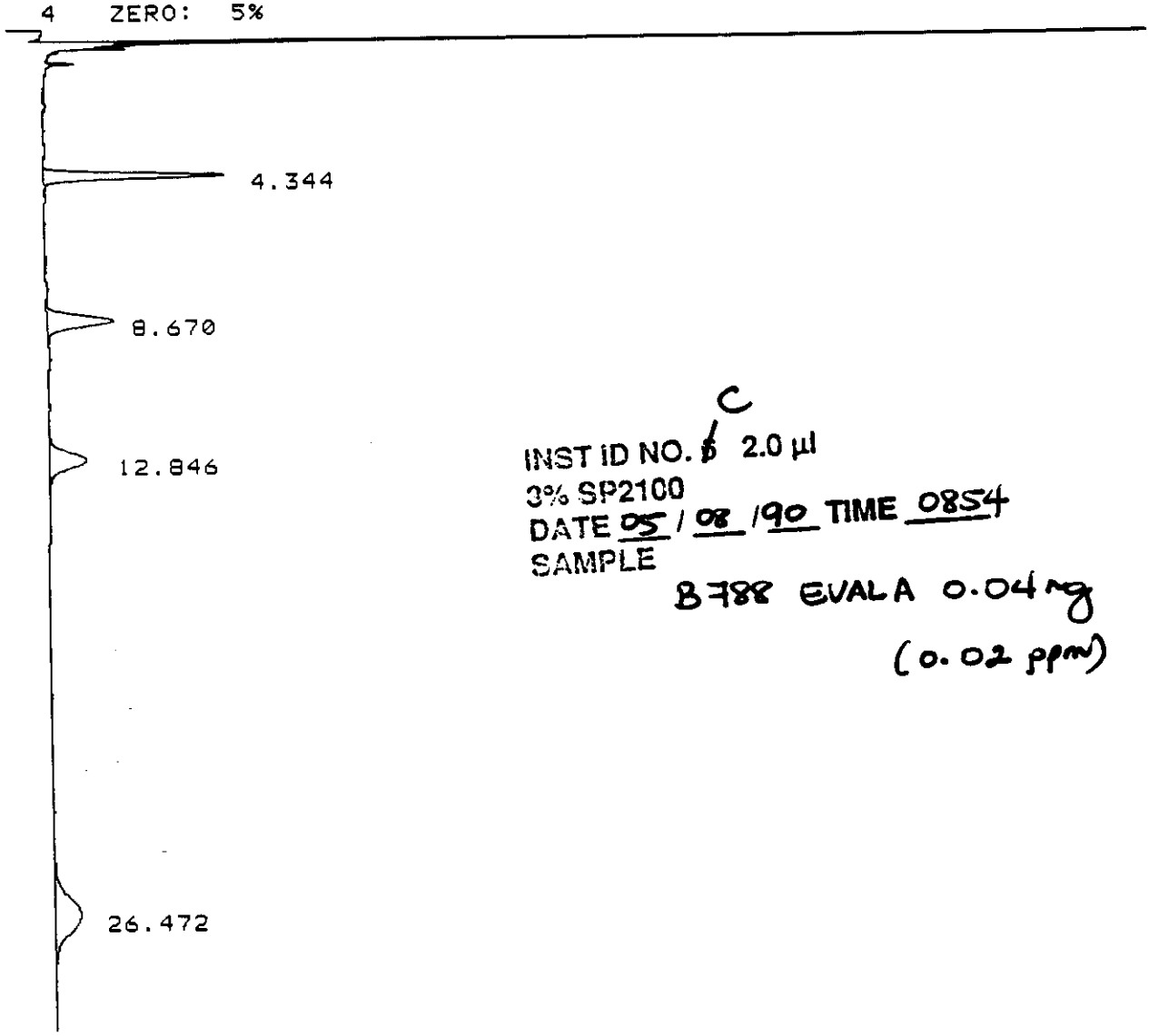
DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 7.3 OFFSET: -11

RACK: 2 VIAL: 10 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIBLOM B.2 CTL2660 CLP PEST SOIL
VERSCDM B.4 CTL2565 CLP PEST SOIL

CHART SPEED 0.5 CM/MIN
ATT: 4 ZERO: 5%




INST ID NO. ~~B~~ C 2.0 µl
3% SP2100
DATE 05 / 08 /90 TIME 0854
SAMPLE
B788 EVAL A 0.04 ng
(0.02 ppm)

varian /sunnyvale,calif.p/n 03-906362-00

TITLE: CLP PESTICIDES 8:54 8 MAY 90

CHANNEL NO: 2 SAMPLE: B788 EVAL.02 METHOD: CLP-2A

| PI NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | ALDRIN | 7568 | 4.344 | 0.004 | 7568 | BB | ? 11.35 |
| 2 | ENDRIN | 5420 | 8.670 | -0.010 | 5420 | BB | ? 22.60 |
| 3 | DDT | 4640 | 12.846 | -0.014 | 4640 | BB | ? 31.40 |
| 4 | DBC | 7071 | 26.472 | -0.058 | 7071 | BB | ? 68.20 |
| TOTALS: | | 24699 | | -0.078 | 24699 | | |

DETECTED PKS: 4 REJECTED PKS: 0

DIVISOR: 1.00000 MULTIPLIER: 10000.0

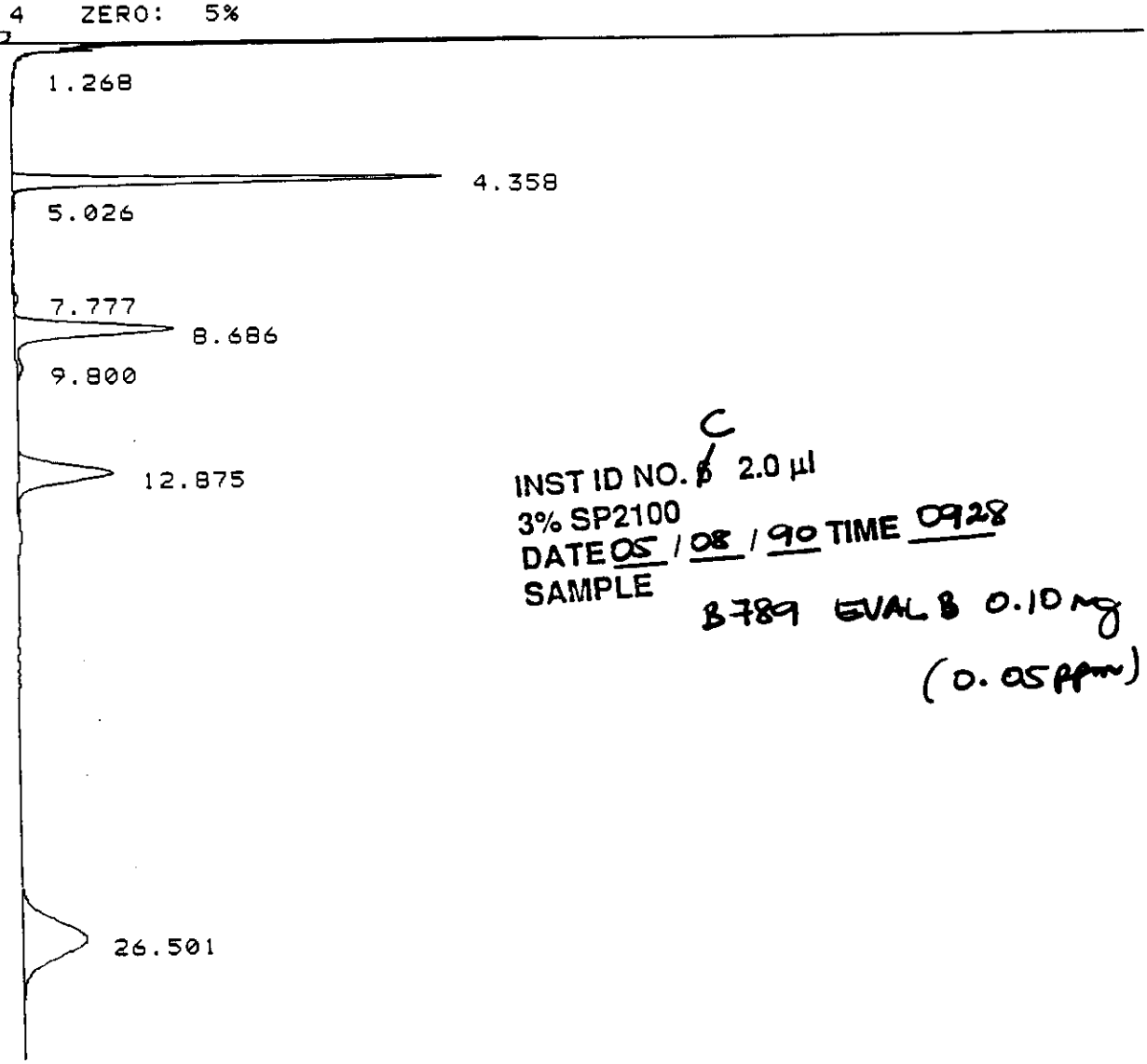
NOISE: 6.1 OFFSET: -14

RACK: 1 VIAL: 2 INJ: 1

NOTES:
'NSTRUMENT ID: C
,OLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIHARL 2534 WATER PEST/CLP

Ian /sunnyvale,calif.p/n 03-906362-00

CHART SPEED 0.5 CM/MIN
ATTN: 4 ZERO: 5%




INST ID NO. ~~B~~ C 2.0 µl
3% SP2100
DATE 05 / 08 / 90 TIME 0928
SAMPLE B789 EVAL B 0.10 mg
(0.05 ppm)

TITLE: CLP PESTICIDES 9:28 8 MAY 90

CHANNEL NO: 2 SAMPLE: B789 EVAL.05 METHOD: CLP-2A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| 1 | ALDRIN | 17766 | 4.358 | 0.018 | 17766 | BB | ? | 7.45 |
| 2 | ENDRIN | 12953 | 8.686 | 0.006 | 12953 | VV | | 22.05 |
| 3 | DDD | 753 | 9.800 | 0.010 | 753 | VB | ? | 38.40 |
| 4 | DDT | 11134 | 12.875 | 0.015 | 11134 | BB | | 31.55 |
| 5 | DBC | 16540 | 26.501 | -0.029 | 16540 | BB | ? | 69.80 |
| TOTALS: | | 59146 | | 0.020 | 59146 | | | |

DETECTED PKS: 8 REJECTED PKS: 3

DIVISOR: 1.00000 MULTIPLIER: 10000.0

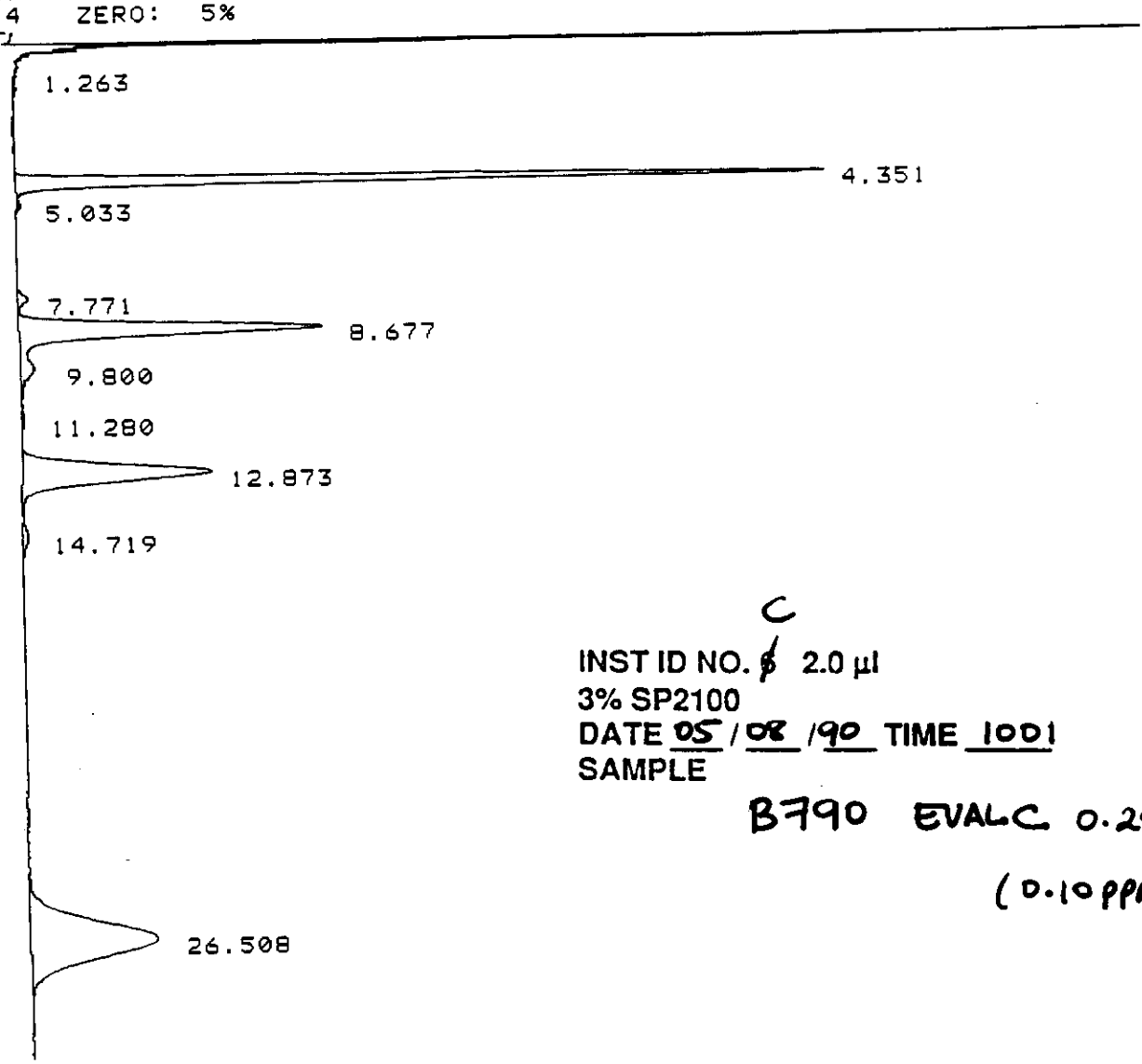
NOISE: 6.1 OFFSET: -15

CK: 1 VIAL: 4 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIHARL 2534 WATER PEST/CLP

varian / sunnyvale, calif p/n 03 90

CI T SPEED 0.5 CM/MIN
A N: 4 ZERO: 5%




INST ID NO. ~~B~~ C 2.0 µl
3% SP2100
DATE 05 / 08 /90 TIME 1001
SAMPLE
B790 EVALC 0.20mg
(0.10 ppm)

TITLE: CLP PESTICIDES 10:01 8 MAY 90

CHANNEL NO: 2 SAMPLE: B790 EVAL.10 METHOD: CLP-2A

| PEAK | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| | ALDRIN | 33812 | 4.351 | 0.011 | 33812 | BB | ? | 11.45 |
| 2 | ENDRIN | 25063 | 8.677 | -0.003 | 25063 | VV | ? | 22.45 |
| 3 | DDD | 1661 | 9.800 | 0.010 | 1661 | VB | ? | 38.00 |
| 4 | DDT | 22156 | 12.873 | 0.013 | 22156 | VV | | 31.55 |
| 5 | END KETONE | 844 | 14.719 | -0.011 | 844 | T | | 33.60 |
| 6 | DBC | 32767 | 26.508 | -0.022 | 32767 | BB | ? | 69.90 |
| TOTALS: | | 116303 | | -0.002 | 116303 | | | |

DETECTED PKS: 11 REJECTED PKS: 5

DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 6.1 OFFSET: -9

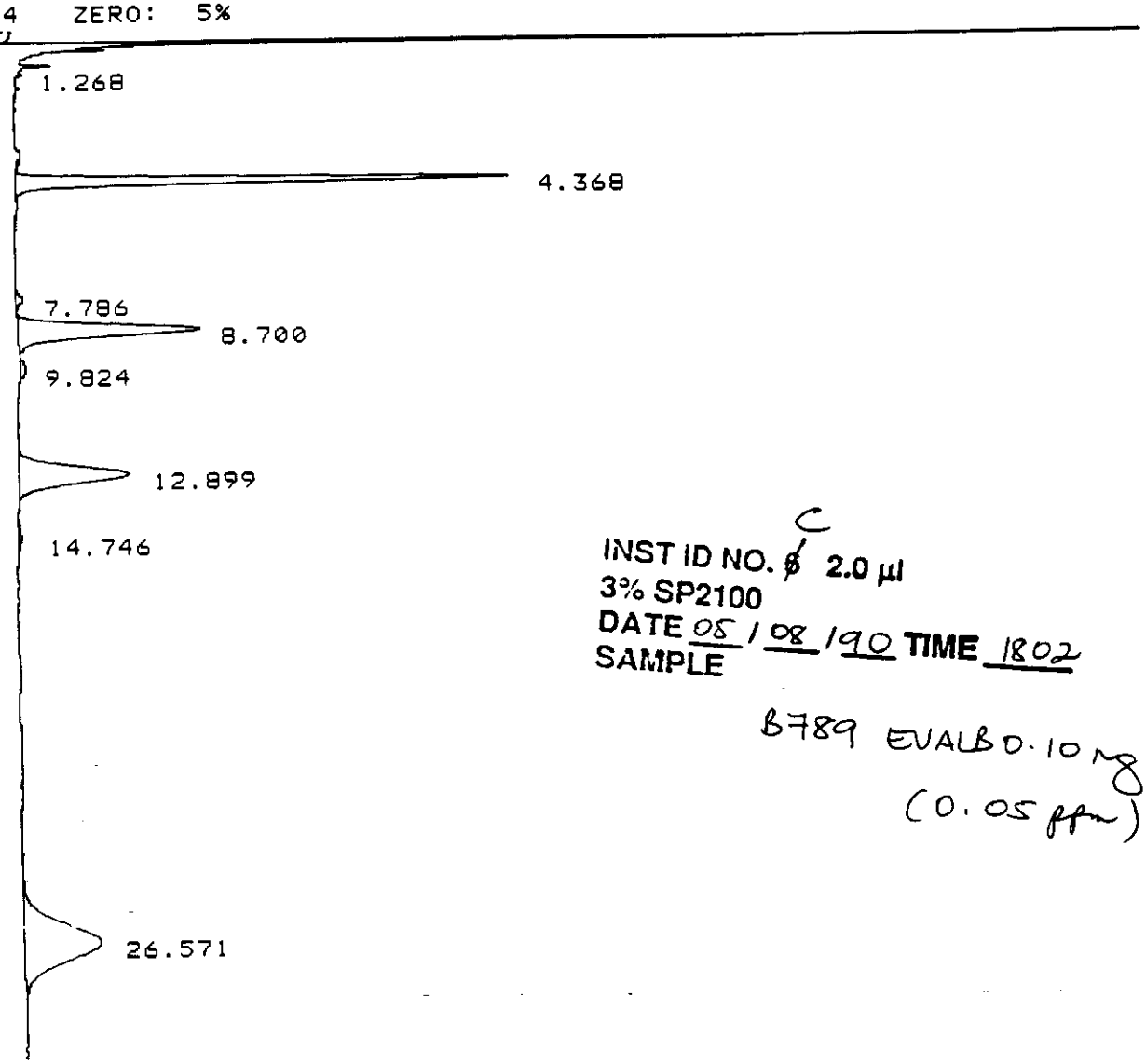
RACK: 1 VIAL: 5 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIHARL 2534 WATER PEST/CLP

varian /sunnyvale, calif p/n 03-906362-00

/sunnyvale, calif p/n 03-906362-00

CHART SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%




INST ID NO. ~~B~~ C 2.0 µl
3% SP2100
DATE 05 / 08 / 90 TIME 1802
SAMPLE

B789 EVALB 0.10 ng
(0.05 ppm)

TITLE: CLP PESTICIDES 18:02 8 MAY 90

CHANNEL NO: 2 SAMPLE: EVALB METHOD: CLP-2A

| PE NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | ALDRIN | 20551 | 4.368 | 0.028 | 20551 | BB | ? 11.50 |
| 2 | ENDRIN | 14625 | 8.700 | 0.020 | 14625 | VB | ? 22.35 |
| 3 | DDT | 12827 | 12.899 | 0.039 | 12827 | BB | ? 31.15 |
| 4 | DBC | 20338 | 26.571 | 0.041 | 20338 | BB | ? 70.50 |
| TOTALS: | | 68341 | | 0.128 | 68341 | | |

DETECTED PKS: 8 REJECTED PKS: 4

DIVISOR: 1.00000 MULTIPLIER: 10000.0

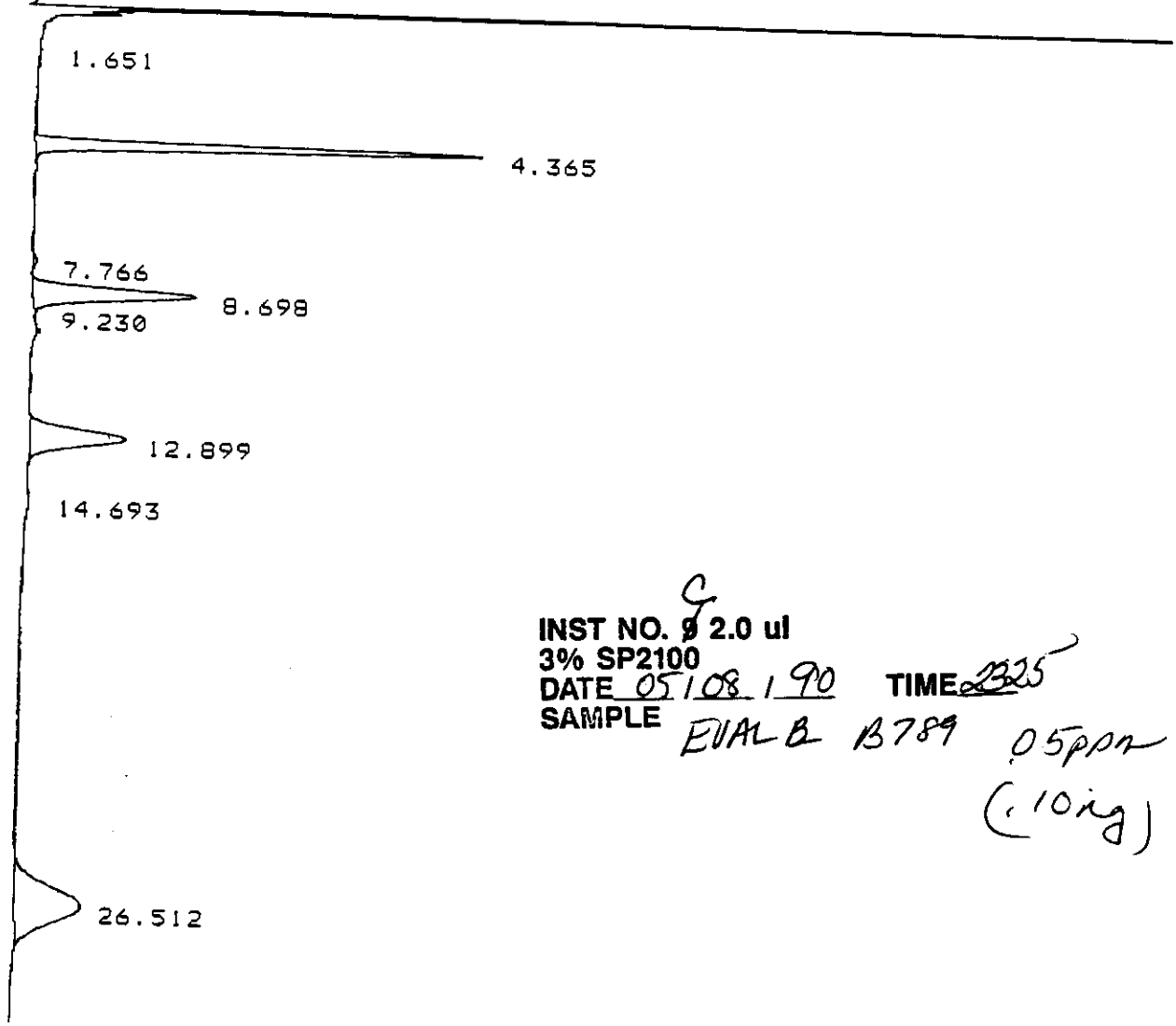
NOISE: 6.1 OFFSET: -7

RACK: 2 VIAL: 10 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIHARL 2534 WATER PEST/CLP

varian /sunnyvale,calif.p/n 03-906362

CHART SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%




INST NO. ~~9~~ G 2.0 ul
3% SP2100
DATE 05/08/90 TIME 2325
SAMPLE EVAL B B789 .05ppm
(.10ng)

100163

TITLE: CLP PESTICIDES 23:25 8 MAY 90

CHANNEL NO: 2 SAMPLE: EVALB METHOD: CLP-2A

| F NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| 1 | ALDRIN | 18520 | 4.365 | 0.025 | 18520 | BV | ? | 11.35 |
| 2 | ENDRIN | 12879 | 8.698 | 0.018 | 12879 | BV | ? | 23.35 |
| 3 | DDT | 10812 | 12.899 | 0.039 | 10812 | BB | ? | 42.35 |
| 4 | DBC | 16384 | 26.512 | -0.018 | 16384 | BB | ? | 53.70 |
| TOTALS: | | 58595 | | 0.064 | 58595 | | | |

DETECTED PKS: 11 REJECTED PKS: 7

DIVISOR: 1.00000 MULTIPLIER: 10000.0

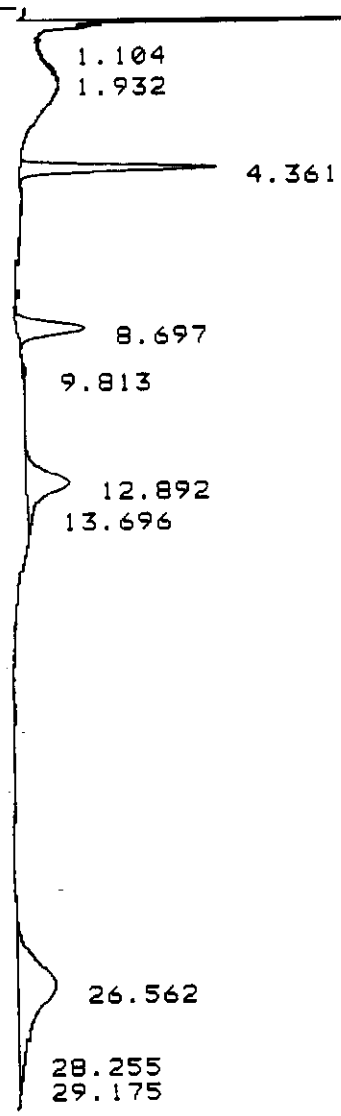
NOISE: 4.9 OFFSET: -11

RACK: 3 VIAL: 8 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT• OUTSIDE RETENTION TIME WINDOW
ENGIHARL 2534 WATER PEST/CLP

varian /sunnyvale, calif. p/n 03-906362-00

CHART SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%




INST NO. C 2.0 µl
3% SP2100
DATE 05/09/90 TIME 1211
SAMPLE
B789 EVALG 0.10 g
(0.05 ppm)

varian / sunnyvale, calif. p/

100170

03 906362 00

T :: CLP PESTICIDES 12:11 9 MAY 90

CHANNEL NO: 2 SAMPLE: EVALB METHOD: CLP-2A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| 1 | ALDRIN | 7502 | 4.361 | 0.021 | 7502 | BB | | 11.05 |
| 2 | ENDRIN | 5064 | 8.697 | 0.017 | 5064 | BB | ? | 22.50 |
| 3 | DDT | 6164 | 12.892 | 0.032 | 6164 | BV | ? | 30.00 |
| 4 | DBC | 12027 | 26.562 | 0.032 | 12027 | BV | | 23.20 |
| 5 | | 804 | 28.255 | | 804 | VV | ? | |
| TOTALS: | | 31561 | | 0.102 | 31561 | | | |

DETECTED PKS: 13 REJECTED PKS: 8

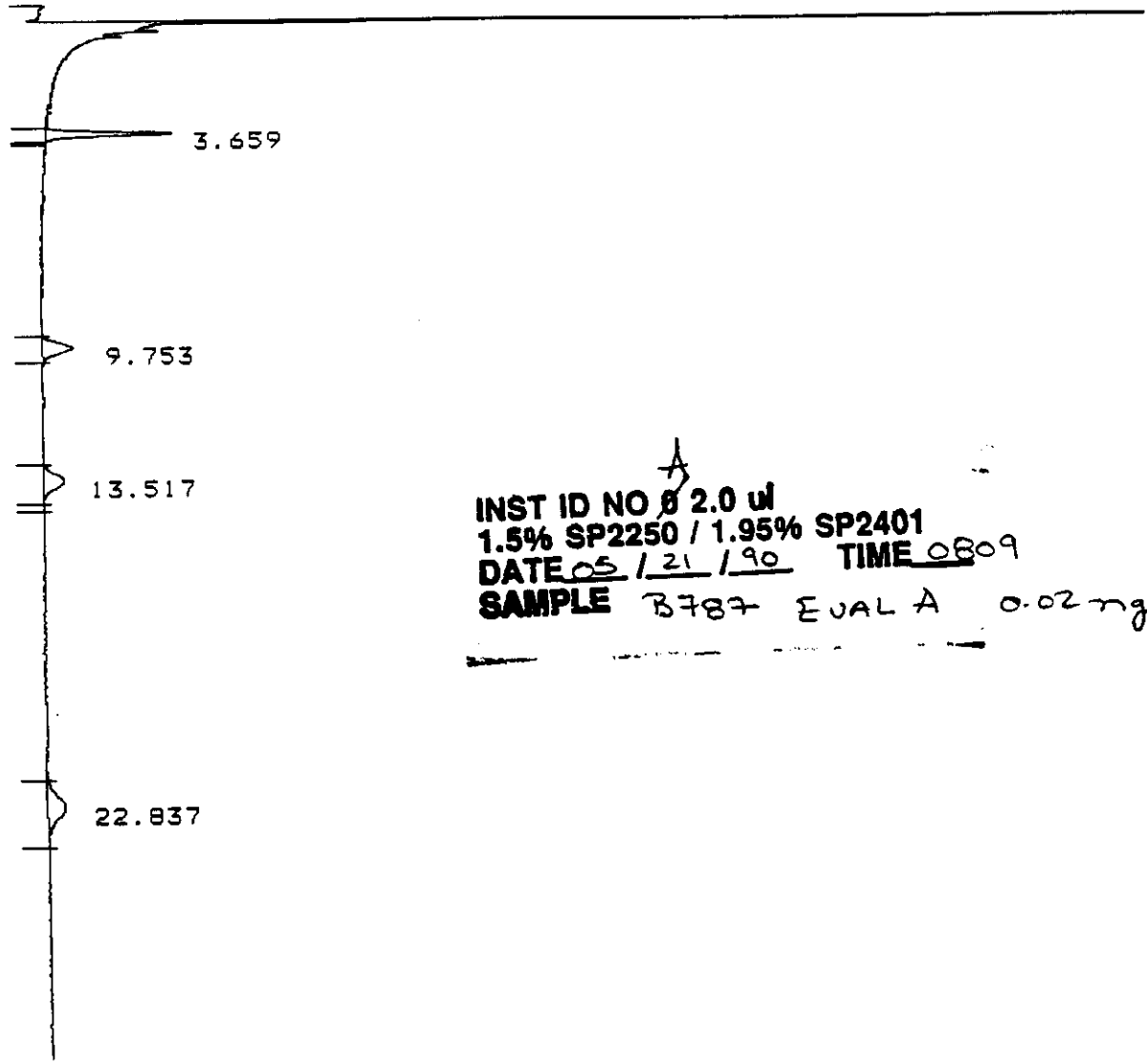
DIVISOR: 1.00000 MULTIPLIER: 10000.0

N SE: 4.9 OFFSET: -6

RACK: 4 VIAL: 5 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIHARL 2534 WATER PEST/CLP

CHART SPEED 0.5 CM/MIN
ATT : 16 ZERO: 10%




INST ID NO A 2.0 ul
1.5% SP2250 / 1.95% SP2401
DATE 05 / 21 / 90 TIME 0809
SAMPLE B787 EVAL A 0.02 mg

varian /sunnyvale,calif.p/.. 03-906362-01

TITLE: CLP PESTICIDES 8:09 21 MAY 90

CHA. EL NO: 3 SAMPLE: B787 EVAL.01 METHOD: CLP-3A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | ALDRIN | 13919 | 3.659 | -0.081 | 13919 | BB | ? 7.70 |
| 2 | ENDRIN | 8265 | 9.753 | -0.207 | 8265 | BB | ? 21.45 |
| 3 | DDT | 8410 | 13.517 | -0.303 | 8410 | BB | 27.50 |
| 4 | DBC | 12116 | 22.837 | -0.503 | 12116 | BB | 47.55 |
| TOTALS: | | 42710 | | -1.094 | 42710 | | |

DETECTED PKS: 4 REJECTED PKS: 0

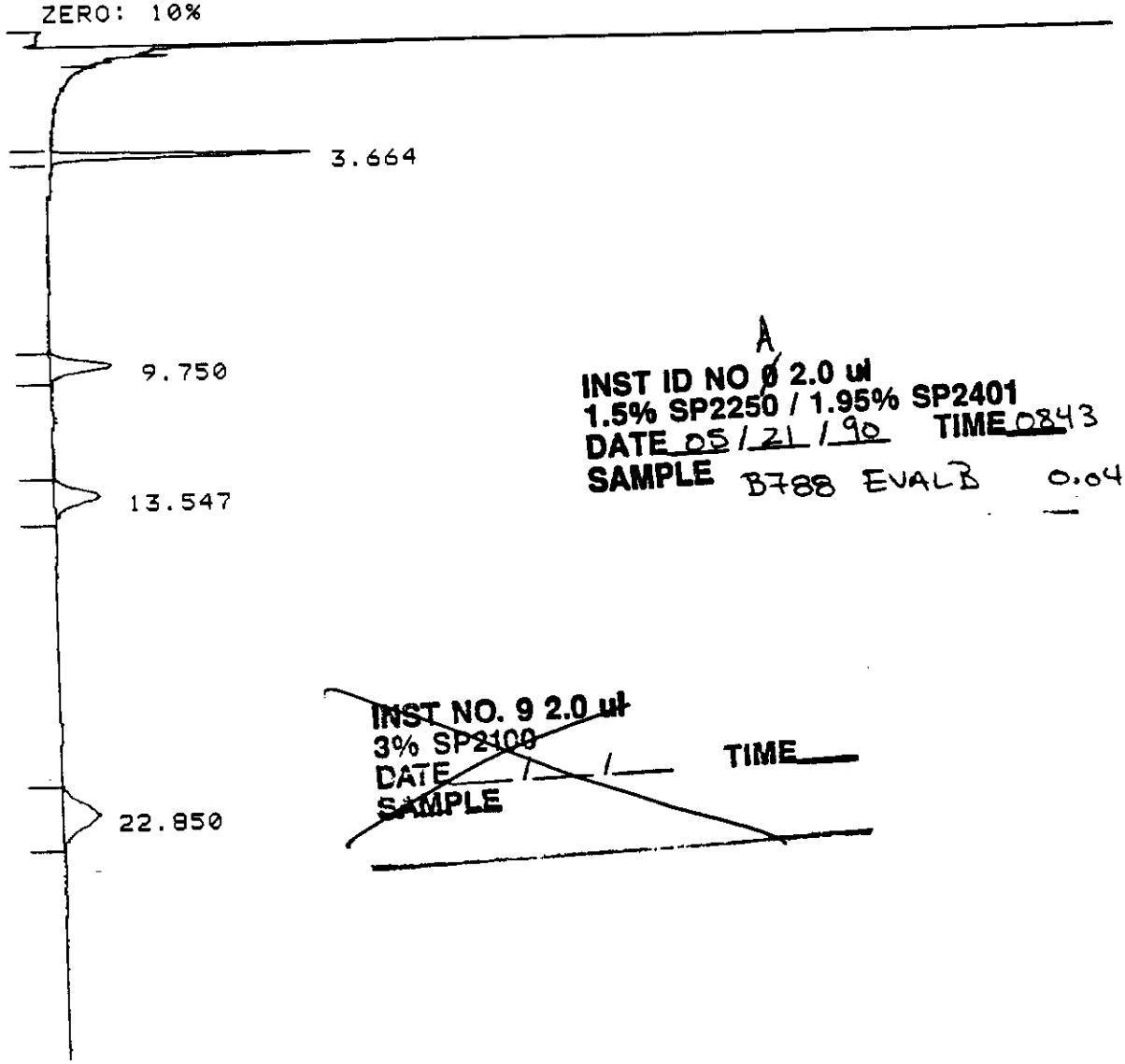
DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 29.1 OFFSET: -12

RACK: 1 VIAL: 1 INJ: 1

ES:
COL: 1.5% SP2250/1.95% SP2401
AMT INJ.2UL/INSTRUMENT LETTER A
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIBLOM CTL 2660 PEST SOILS
VERSCDM CTL 2562 PEST SOIL

CHART SPEED 0.5 CM/MIN
ATT : 16 ZERO: 10%




INST ID NO ~~0~~ A 2.0 ul
1.5% SP2250 / 1.95% SP2401
DATE 05 / 21 / 90 TIME 0843
SAMPLE B788 EVAL B 0.04 mg

~~INST NO. 9 2.0 ul~~
~~3% SP2100~~
~~DATE ___ / ___ / ___~~ TIME ___
~~SAMPLE~~

varian /sunnyvale, calif. p/n 03-906362-01

100174

TITLE: CLP PESTICIDES 8:43 21 MAY 90

CHANNEL NO: 3 SAMPLE: B788 EVAL.02 METHOD: CLP-3A

| PEAK N | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | ALDRIN | 28508 | 3.664 | -0.076 | 28508 | BB | ? 7.55 |
| 2 | ENDRIN | 17944 | 9.750 | -0.210 | 17944 | BB | ? 20.55 |
| 3 | DDT | 18135 | 13.547 | -0.273 | 18135 | BB | 27.85 |
| 4 | DBC | 23891 | 22.850 | -0.490 | 23891 | BB | 47.30 |
| TOTALS: | | 88478 | | -1.049 | 88478 | | |

DETECTED PKS: 4 REJECTED PKS: 0

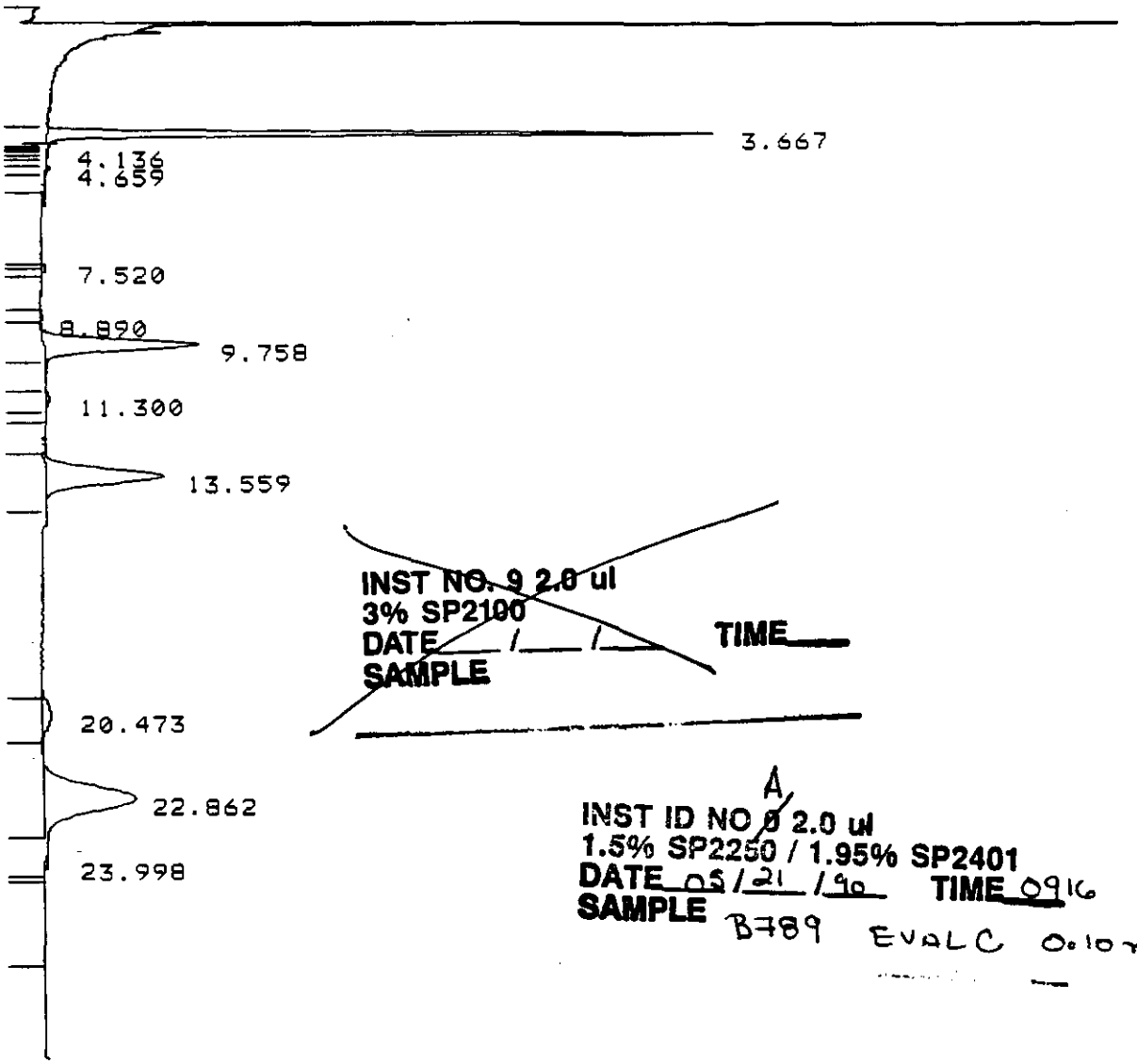
DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 29.1 OFFSET: -12

RACK: 1 VIAL: 2 INJ: 1

NOTES:
COL: 1.5% SP2250/1.95% SP2401
AMT INJ.2UL/INSTRUMENT LETTER A
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIBLOM CTL 2660 PEST SOILS
VERSCDM CTL 2562 PEST SOIL

CHART SPEED 0.5 CM/MIN
ATT : 16 ZERO: 10%




~~INST NO. 9 2.0 ul~~
~~3% SP2100~~
~~DATE / /~~ ~~TIME~~
~~SAMPLE~~

INST ID NO ~~0~~ A 2.0 ul
1.5% SP2250 / 1.95% SP2401
DATE 05/21/90 TIME 0916
SAMPLE B789 EVALC 0.10 mg

varian /sunnyvale, calif.p/n 03-906362-01

TITLE: CLP PESTICIDES 9:16 21 MAY 90

CHANNEL NO: 3 SAMPLE: B789 EVAL.05 METHOD: CLP-3A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| | ALDRIN | 74402 | 3.667 | -0.073 | 74402 | BV | ? 7.60 |
| | | 557 | 4.659 | | 557 | BB | ? 7.05 |
| 3 | ENDRIN | 44179 | 9.758 | -0.202 | 44179 | VB | ? 14.45 |
| 4 | DDD | 1649 | 11.300 | -0.220 | 1649 | BB | 24.80 |
| 5 | DDT | 47324 | 13.559 | -0.261 | 47324 | BB | 27.50 |
| 6 | | 4447 | 20.473 | | 4447 | BV | 42.65 |
| 7 | DBC | 63158 | 22.862 | -0.478 | 63158 | VV | 47.35 |
| 8 | | 856 | 23.998 | | 856 | T | ?124.90 |
| TOTALS: | | 236572 | | -1.234 | 236572 | | |

DETECTED PKS: 13 REJECTED PKS: 5

DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 29.1 OFFSET: -12

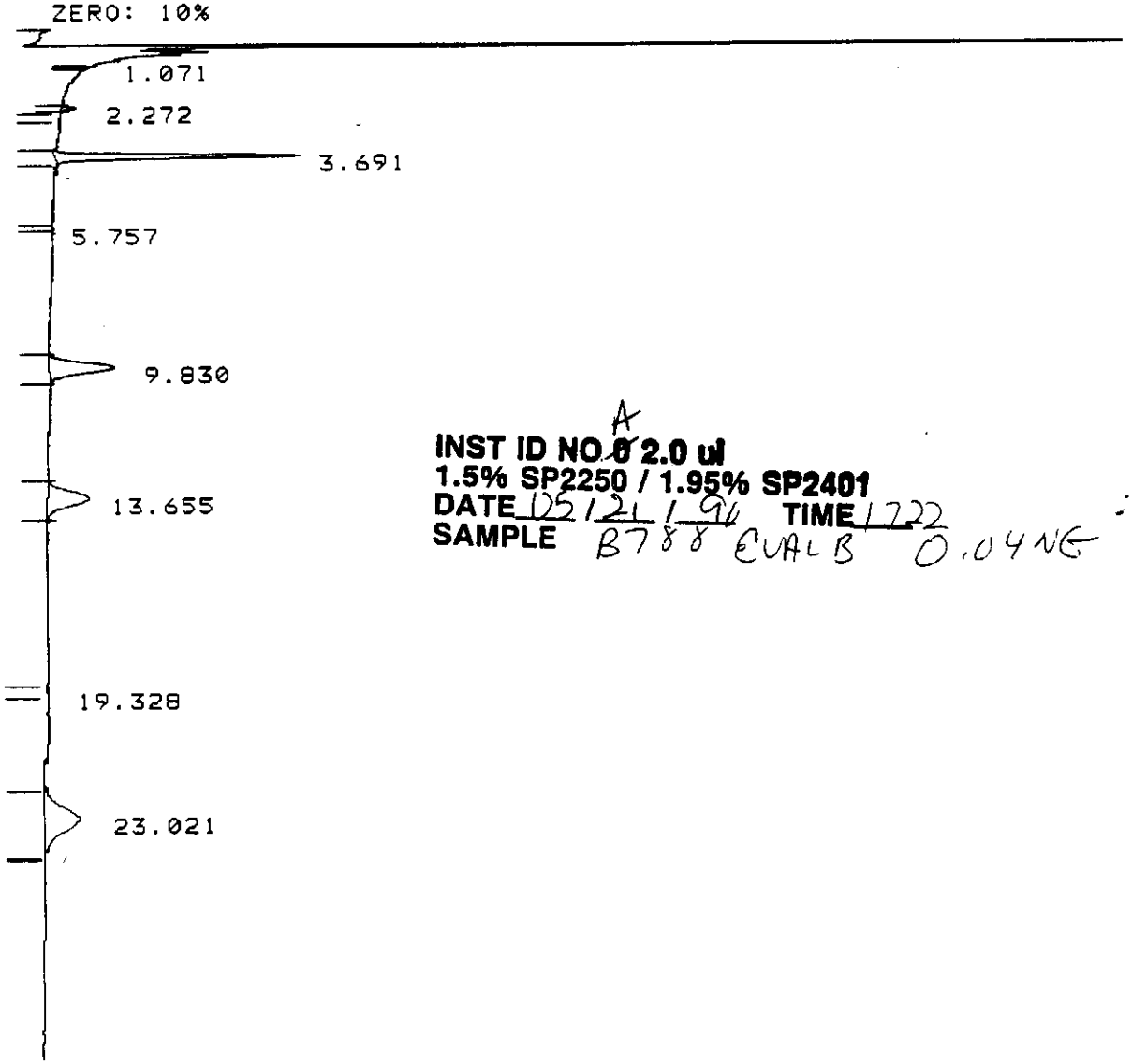
RACK: 1 VIAL: 4 INJ: 1

TES:
COL: 1.5% SP2250/1.95% SP2401
AMT INJ.2UL/INSTRUMENT LETTER A
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIBLOM CTL 2660 PEST SOILS
VERSCDM CTL 2562 PEST SOIL

varian /s

100177

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10%




INST ID NO. ~~0~~ A 2.0 ul
1.5% SP2250 / 1.95% SP2401
DATE 05/21/96 TIME 1722
SAMPLE B788 EVAL B 0.04NG

TITLE: CLP PESTICIDES 17:22 21 MAY 90

ORIGINAL (Red)

CHANNEL NO: 3 SAMPLE: EVALB METHOD: CLP-3A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | | 1028 | 2.272 | | 1028 | BV | 4.50 |
| 2 | ALDRIN | 27367 | 3.691 | -0.049 | 27367 | BB | ? 7.60 |
| 3 | ENDRIN | 18952 | 9.830 | -0.130 | 18952 | BB | ? 21.10 |
| 4 | DDT | 17240 | 13.655 | -0.165 | 17240 | BB | ? 27.70 |
| 5 | DBC | 23310 | 23.021 | -0.319 | 23310 | BB | ? 66.10 |
| TOTALS: | | 87897 | | -0.663 | 87897 | | |

DETECTED PKS: 9 REJECTED PKS: 4

DIVISOR: 1.00000 MULTIPLIER: 10000.0

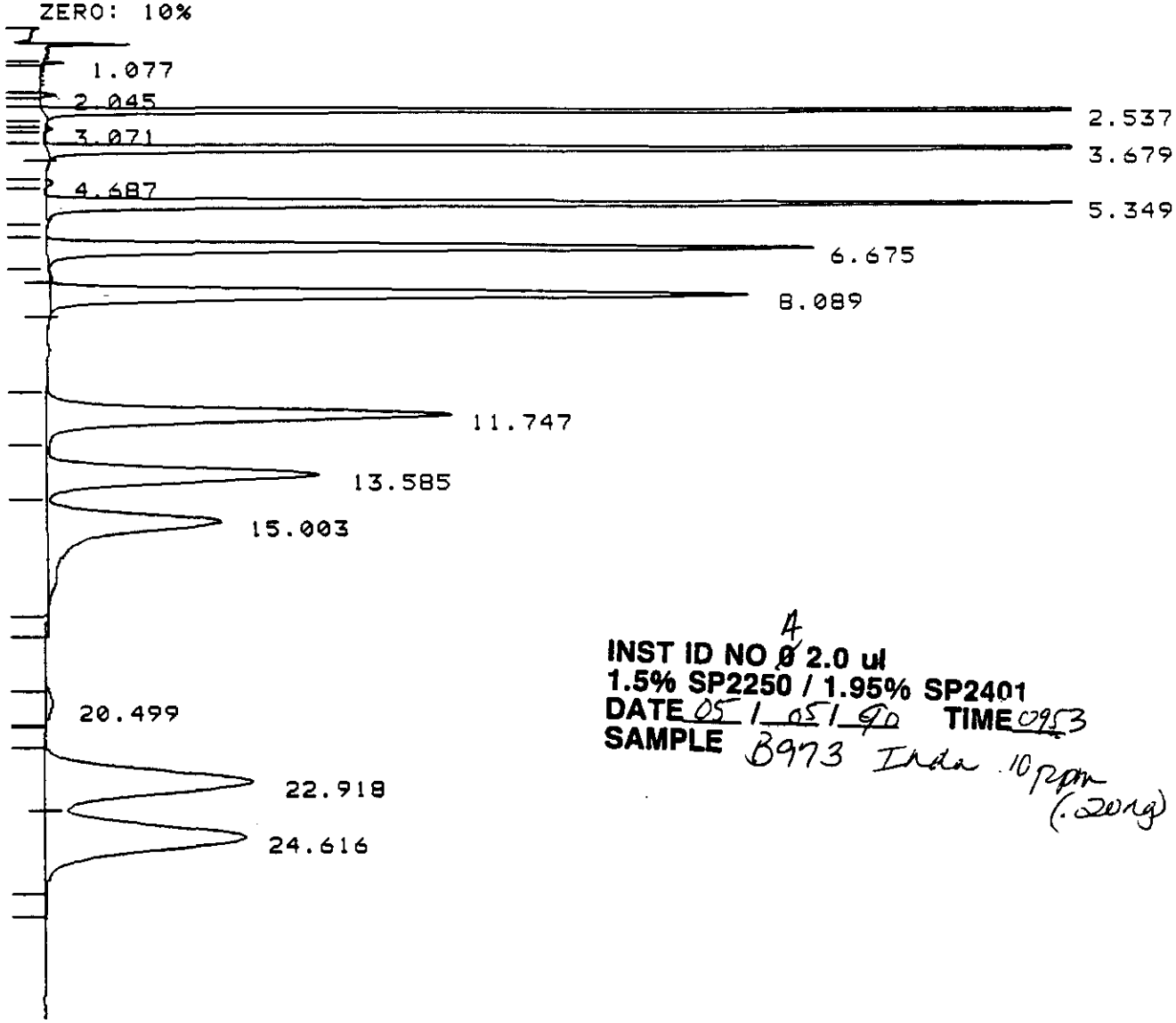
NOISE: 29.1 OFFSET: -32

RACK: 2 VIAL: 10 INJ: 1

NOTES:
COL: 1.5% SP2250/1.95% SP2401
AMT INJ.2UL/INSTRUMENT LETTER A
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIBLOM CTL 2660 PEST SOILS
VERSCDM CTL 2562 PEST SOIL

ORIGINAL
(Red)

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10%




INST ID NO ~~0~~ 4 2.0 ul
1.5% SP2250 / 1.95% SP2401
DATE 05 / 05 / 90 TIME 0953
SAMPLE B973 Inda .10 ppm (.20 ng)

100180

ORIGINAL (Red)

TITLE: CLP PESTICIDES 9:53 5 MAY 90

CHANNEL NO: 3 SAMPLE: B973 INDA.10 METHOD: CLP-3A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | | 850 | 1.077 | | 850 | BB | 2.40 |
| 2 | ~~A-BHC~~ | 1098 | 2.045 | -0.035 | 1098 | BB | 4.75 |
| 3 | G-BHC | 186803 | 2.537 | -0.043 | 186803 | BB | 5.10 |
| | ~~HEPTACHLOR~~ | 639 | 3.071 | -0.049 | 639 | BB | 5.55 |
| 5 | ALDRIN | 182018 | 3.679 | -0.061 | 182018 | BB | 7.40 |
| 6 | | 1022 | 4.687 | | 1022 | BV | 9.40 |
| 7 | HEPT EPOX | 172673 | 5.349 | -0.091 | 172673 | VB | 10.80 |
| 8 | A-ENDOSULF | 159858 | 6.675 | -0.115 | 159858 | BB | 13.60 |
| 9 | DIELDRIN | 174069 | 8.089 | -0.131 | 174069 | BB | 16.40 |
| 10 | B-ENDOSULF | 155251 | 11.747 | -0.203 | 155251 | BV | 24.35 |
| 11 | DDT | 115492 | 13.585 | -0.235 | 115492 | VV | 27.40 |
| 12 | ENDRIN ALD | 112813 | 15.003 | -0.267 | 112813 | VB | 34.50 |
| 13 | | 3898 | 20.499 | | 3898 | BB | ? 44.35 |
| 14 | DBC | 146113 | 22.918 | -0.422 | 146113 | BV | 46.75 |
| 15 | ENDRIN KET | 155297 | 24.616 | -0.444 | 155297 | VB | 50.50 |
| TOTALS: | | 1567890 | | -2.096 | 1567890 | | |

DETECTED PKS: 15 REJECTED PKS: 0

DIVISOR: 1.00000 MULTIPLIER: 10000.0

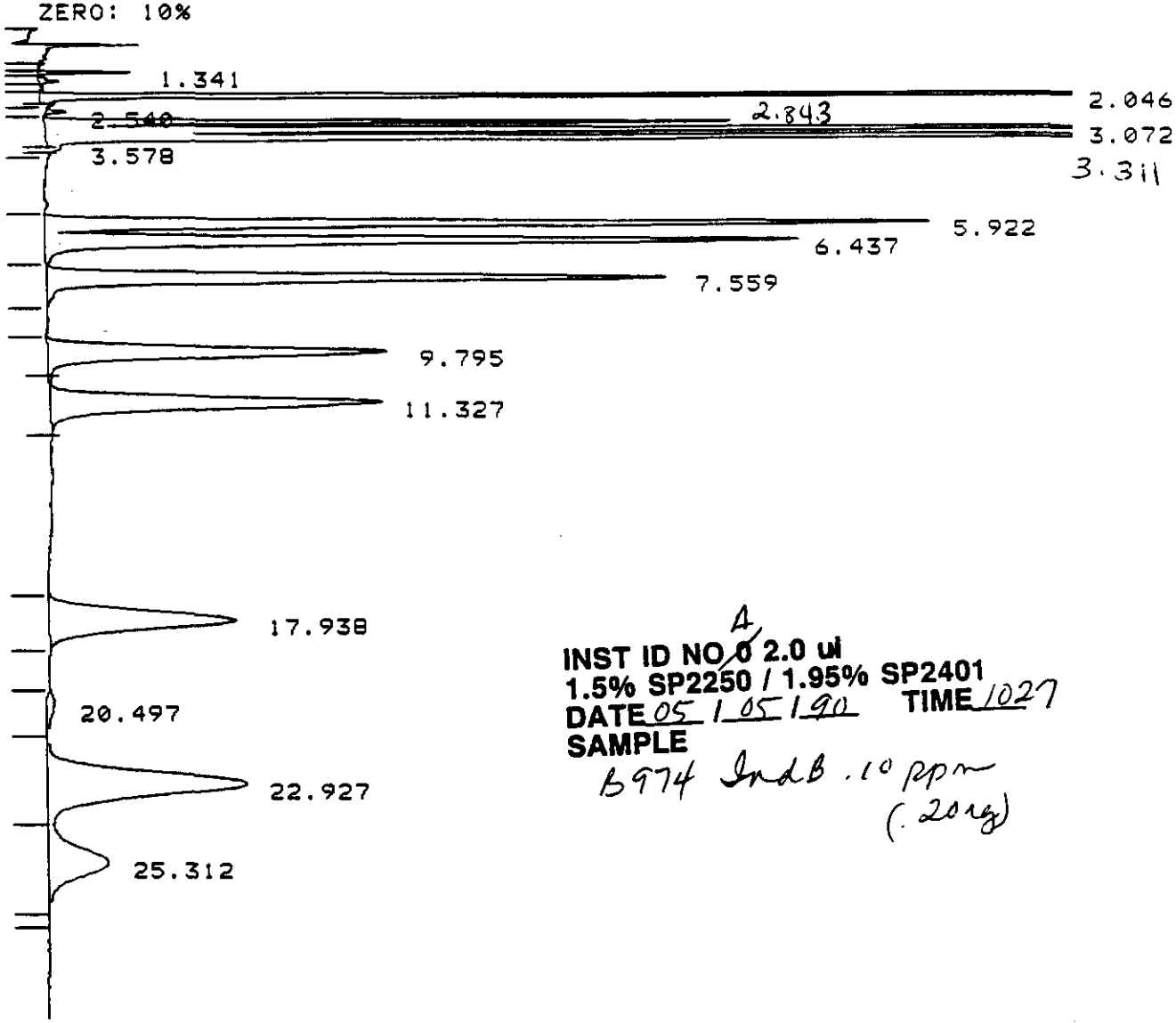
NOISE: 43.7 OFFSET: -20

RACK: 1 VIAL: 7 INJ: 1

NOTES:
COL: 1.5% SP2250/1.95% SP2401
AMT INJ.2UL/INSTRUMENT LETTER A
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIALBA CTL#'S 2521,2544 PEST SOILS
GIHARL CTL# 2534,2542 PEST SOILS & H2O'S
RSCDM CTL# 2565 PEST SOIL

ORIGINAL
(Red)

C[illegible]T SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10%




INST ID NO ~~0~~ A 2.0 ul
1.5% SP2250 / 1.95% SP2401
DATE 05 / 05 / 90 TIME 1027
SAMPLE
B974 IndB .10 ppm
(.20 ng)

ORIGINAL (Red)

_E: CLP PESTICIDES 10:27 5 MAY 90

CHANNEL NO: 3 SAMPLE: B974 INDB.10 METHOD: CLP-3A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 4444 | 1.341 | | 4444 | BV | | 3.15 |
| 2 | | 1376 | 1.610 | | 1376 | VB | | 3.95 |
| 3 | A-BHC | 217258 | 2.046 | -0.034 | 217258 | BV | | 4.10 |
| 4 | ~~G-BHC~~ | 1735 | 2.540 | -0.040 | 1735 | T | ? | 6.60 |
| 5 | B-BHC | 61737 | 2.843 | -0.047 | 61737 | VV | | 6.00 |
| | HEPTACHLOR | 103004 | 3.072 | 0.049 | 103004 | VV | | 6.20 |
| | D-BHC | 194875 | 3.311 | -0.049 | 194875 | VV | | 6.75 |
| 8 | G-CHLORDAN | 161301 | 5.922 | -0.098 | 161301 | BV | | 12.00 |
| 9 | A-CHLORDAN | 156660 | 6.437 | -0.103 | 156660 | VV | | 13.35 |
| 10 | DDE | 147132 | 7.559 | -0.121 | 147132 | VB | | 15.50 |
| 11 | ENDRIN | 105190 | 9.795 | -0.165 | 105190 | BV | | 20.20 |
| 12 | DDD | 119732 | 11.327 | -0.193 | 119732 | VB | | 23.30 |
| 13 | ESS | 103195 | 17.938 | -0.312 | 103195 | BB | ? | 36.80 |
| 14 | | 4073 | 20.497 | | 4073 | BV | | 40.80 |
| 15 | DBC | 142636 | 22.927 | -0.413 | 142636 | VV | | 46.65 |
| 16 | ~~ENDRIN KET~~ Methoxychlor | 51800 | 25.312 | 0.252 | 51800 | VB | | 53.65 |
| TOTALS: | | 1656950 | | -1.371 | 1656950 | | | |

DETECTED PKS: 18 REJECTED PKS: 2

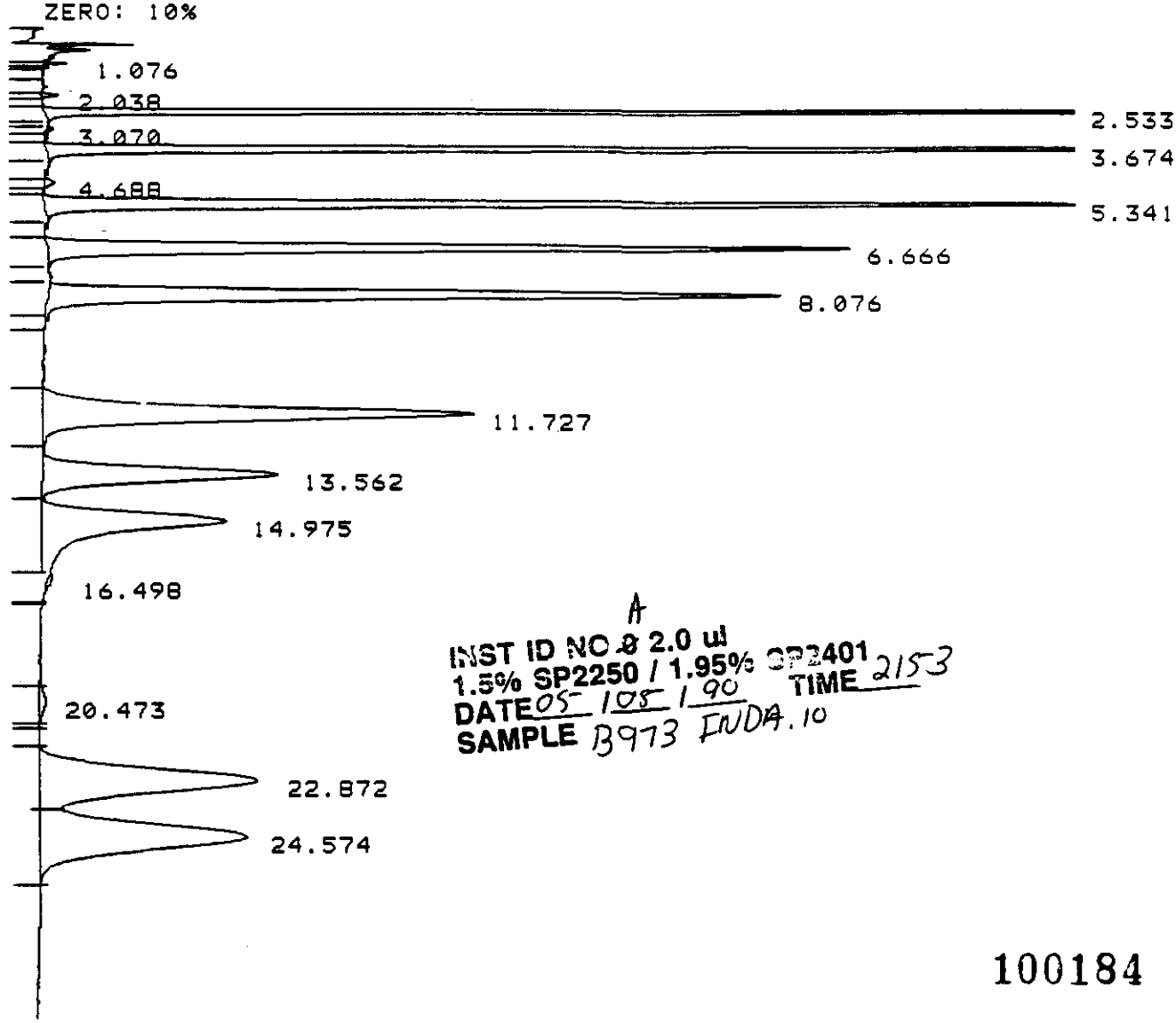
DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 43.7 OFFSET: -24

RACK: 1 VIAL: 8 INJ: 1

NOTES:
COL: 1.5% SP2250/1.95% SP2401
AMT INJ.2UL/INSTRUMENT LETTER A
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIALBA CTL#'S 2521,2544 PEST SOILS
ENGIHARL CTL# 2534,2542 PEST SOILS & H2O'S
RSCDM CTL# 2565 PEST SOIL

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10%




INST ID NO ~~8~~ A 2.0 ul
1.5% SP2250 / 1.95% SP2401
DATE 05/05/90 TIME 2153
SAMPLE B973 FNDA.10

100184

ORIGINAL (Red)

TITLE: CLP PESTICIDES 21:53 5 MAY 90

CHANNEL NO: 3 SAMPLE: B973 INDA.10 METHOD: CLP-3A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| | | 804 | 1.076 | | 804 | BV | 2.45 |
| 2 | ~~A-BHC~~ | 1216 | 2.038 | -0.042 | 1216 | BB | 4.55 |
| 3 | G-BHC | 195490 | 2.533 | -0.047 | 195490 | BB | 5.10 |
| 4 | ~~HEPTACHLOR~~ | 626 | 3.070 | -0.050 | 626 | BB | 5.30 |
| 5 | ALDRIN | 189949 | 3.674 | -0.066 | 189949 | BB | 7.40 |
| 6 | | 1141 | 4.688 | | 1141 | BB | 10.05 |
| 7 | HEPT EPOX | 180966 | 5.341 | -0.099 | 180966 | BB | 10.80 |
| 8 | A-ENDOSULF | 166642 | 6.666 | -0.124 | 166642 | BB | 13.60 |
| 9 | DIELDRIN | 183578 | 8.076 | -0.144 | 183578 | BB | 16.45 |
| 10 | ~~DDD~~ B-ENDOSULF | 171268 | 11.727 | 0.207 | 171268 | BV | 24.70 |
| 11 | DDT | 97661 | 13.562 | -0.258 | 97661 | VV | 27.10 |
| 12 | ENDRIN ALD | 111231 | 14.975 | -0.295 | 111231 | VV | 33.65 |
| 13 | | 1082 | 16.498 | | 1082 | T | ? 65.40 |
| 14 | | 4355 | 20.473 | | 4355 | BB | 42.40 |
| 15 | DBC | 152921 | 22.872 | -0.468 | 152921 | BV | 46.65 |
| 16 | ENDRIN KET | 158081 | 24.574 | -0.486 | 158081 | VB | 50.50 |
| TOTALS: | | 1617010 | | -1.872 | 1617010 | | |

DETECTED PKS: 17 REJECTED PKS: 1

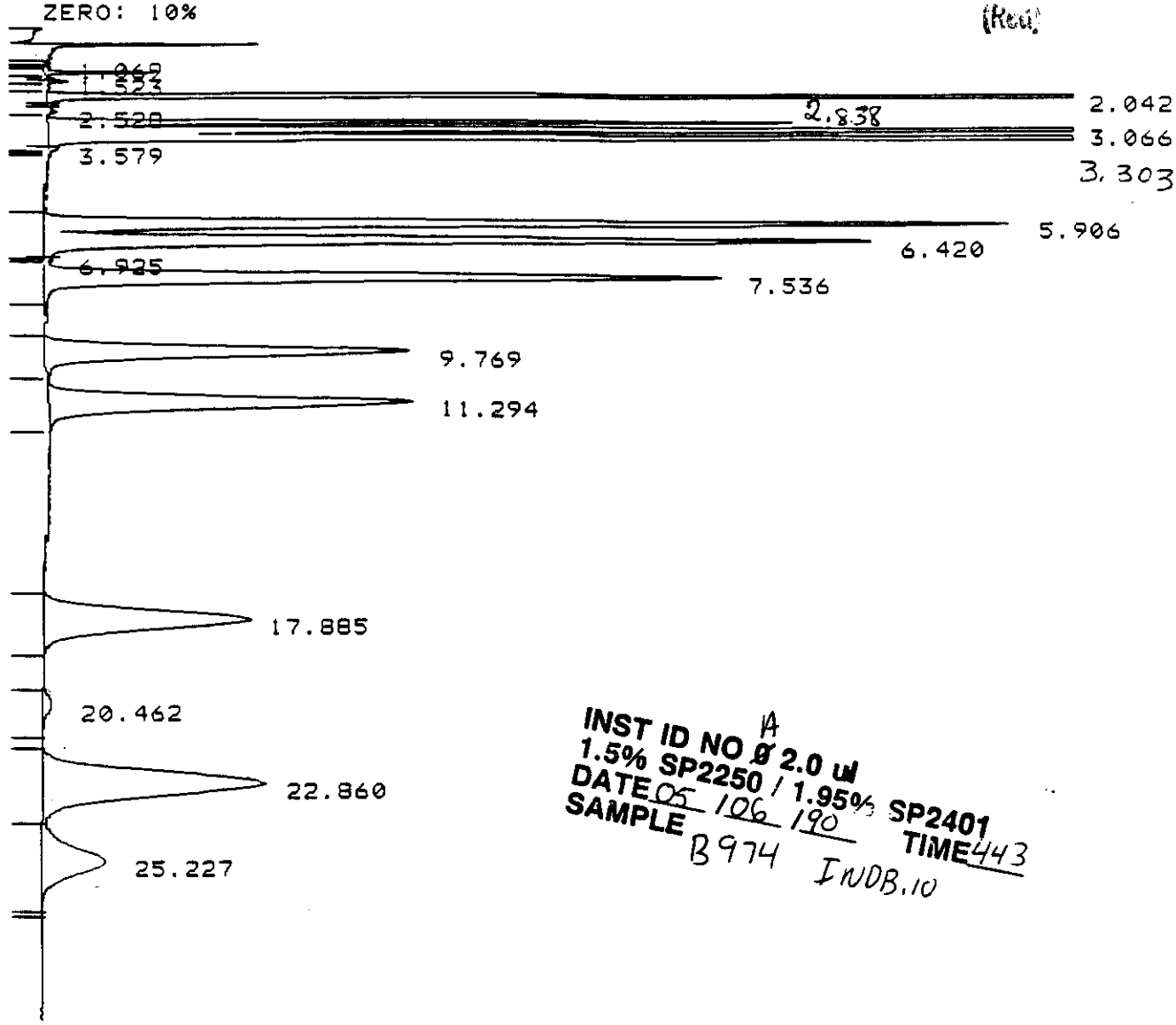
DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 35.2 OFFSET: -25

RACK: 3 VIAL: 4 INJ: 1

NOTE:
: 1.5% SP2250/1.95% SP2401
AMT INJ.2UL/INSTRUMENT LETTER A
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIALBA CTL#'S 2521,2544 PEST SOILS
ENGIHARL CTL# 2534,2542 PEST SOILS & H2O'S
VERSCDM CTL# 2565 PEST SOIL

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10%




INST ID NO 14 2.0 uL
1.5% SP2250 / 1.95% SP2401
DATE 05/06/90 TIME 443
SAMPLE B974 INDB.10

varian / sunnyvale, calif. p/n 03-906362-00

100186

TITLE: CLP PESTICIDES 4:43 6 MAY 90

C INEL NO: 3 SAMPLE: B974 INDB.10 METHOD: CLP-3A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 5115 | 1.338 | | 5115 | VV | | 3.05 |
| 2 | | 1029 | 1.606 | | 1029 | VB | | 3.90 |
| 3 | A-BHC | 236346 | 2.042 | -0.038 | 236346 | BV | | 4.05 |
| 4 | ~~G-BHC~~ | 612 | 2.528 | -0.052 | 612 | T | ? | 6.95 |
| 5 | B-BHC | 66801 | 2.838 | -0.052 | 66801 | VV | | 6.00 |
| 6 | HEPTACHLOR | 192497 | 3.066 | -0.054 | 192497 | VV | | 6.15 |
| | D-BHC | 207546 | 3.303 | -0.057 | 207546 | VV | | 6.70 |
| | G-CHLORDAN | 175764 | 5.906 | -0.114 | 175764 | BV | | 12.00 |
| | A-CHLORDAN | 168939 | 6.420 | -0.120 | 168939 | VV | | 13.20 |
| 10 | DDE | 159101 | 7.536 | -0.144 | 159101 | VB | | 15.45 |
| 11 | ENDRIN | 111518 | 9.769 | -0.191 | 111518 | BV | | 20.10 |
| 12 | DDD | 128549 | 11.294 | -0.226 | 128549 | VB | | 23.20 |
| 13 | ESS | 113064 | 17.885 | -0.365 | 113064 | BB | ? | 36.45 |
| 14 | | 4764 | 20.462 | | 4764 | BB | | 40.00 |
| 15 | DBC | 156079 | 22.860 | -0.480 | 156079 | BV | | 46.20 |
| 6 | ~~ENDRIN KET~~ Methoxychlor | 50724 | 25.227 | 0.167 | 50724 | VB | | 52.20 |
| TOTALS: | | 1778450 | | -1.726 | 1778450 | | | |

DETECTED PKS: 23 REJECTED PKS: 7

DIVISOR: 1.00000 MULTIPLIER: 10000.0

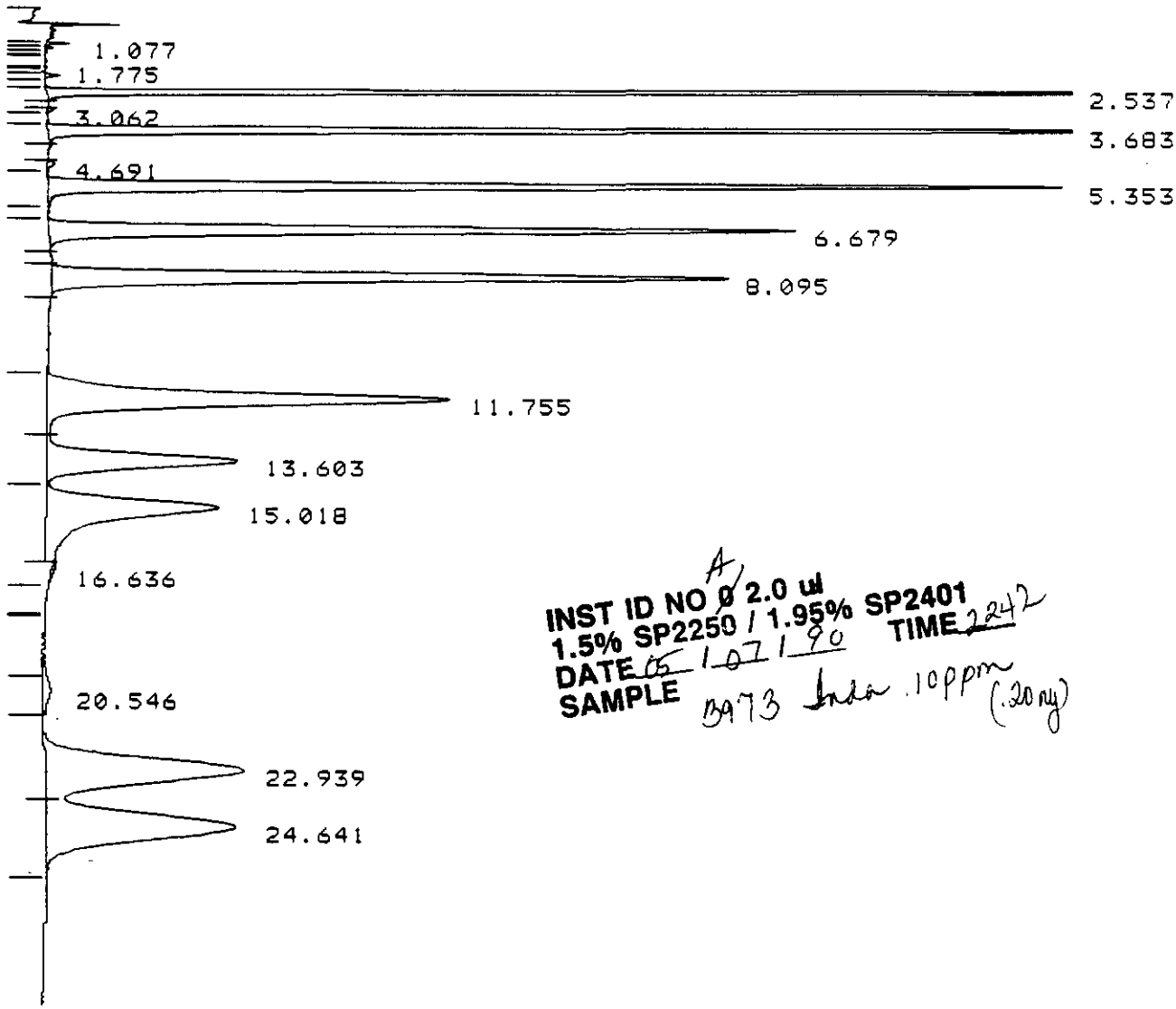
NOISE: 35.2 OFFSET: -14

RACK: 4 VIAL: 7 INJ: 1

NOTES:
COL: 1.5% SP2250/1.95% SP2401
AMT INJ.2UL/INSTRUMENT LETTER A
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIALBA CTL#'S 2521,2544 PEST SOILS
ENGIHARL CTL# 2534,2542 PEST SOILS & H2O'S
VERSCDM CTL# 2565 PEST SOIL

ORIGINAL (Red)

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10%




INST ID NO ~~0~~ A 2.0 ul
1.5% SP2250 / 1.95% SP2401
DATE 05/07/90 TIME 2242
SAMPLE B973 Intra .10ppm (.20ng)

varian /sunnyvale, calif p/n 03-906362-00

100188

TITLE: CLP PESTICIDES 22:42 7 MAY 90

CHANNEL NO: 3 SAMPLE: B973 INDA.10 METHOD: CLP-3A

| PEAK | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| | | 909 | 1.077 | | 909 | BV | | 2.55 |
| 2 | | 502 | 1.209 | | 502 | VB | | 3.00 |
| 3 | ~~A-BHC~~ at | 1096 | 2.047 | -0.033 | 1096 | BB | | 4.55 |
| 4 | G-BHC | 178483 | 2.537 | -0.043 | 178483 | BB | | 5.10 |
| 5 | ~~HEPTACHLOR~~ at | 644 | 3.062 | -0.058 | 644 | BB | ? | 6.00 |
| 6 | ALDRIN | 175772 | 3.683 | -0.057 | 175772 | BB | | 7.45 |
| 7 | | 1309 | 4.691 | | 1309 | BV | | 9.60 |
| 8 | HEPT EPOX | 168336 | 5.353 | -0.087 | 168336 | VB | | 10.85 |
| 9 | A-ENDOSULF | 155735 | 6.679 | -0.111 | 155735 | BB | | 13.65 |
| 10 | DIELDRIN | 169195 | 8.095 | -0.125 | 169195 | BB | | 16.55 |
| 11 | B-ENDOSULF | 164973 | 11.755 | -0.195 | 164973 | BV | | 25.10 |
| 12 | DDT | 81669 | 13.603 | -0.217 | 81669 | VV | | 27.65 |
| 13 | ENDRIN ALD | 110875 | 15.018 | -0.252 | 110875 | VV | | 34.45 |
| 14 | | 762 | 16.636 | | 762 | T | ? | 61.20 |
| 15 | | 4023 | 20.546 | | 4023 | BV | | 38.80 |
| 16 | DBC | 140405 | 22.939 | -0.401 | 140405 | VV | | 46.65 |
| 17 | ENDRIN KET | 144347 | 24.641 | -0.419 | 144347 | VB | | 50.40 |
| TOTALS: | | 1499030 | | -1.998 | 1499030 | | | |

DETECTED PKS: 18 REJECTED PKS: 1

DIVISOR: 1.00000 MULTIPLIER: 10000.0

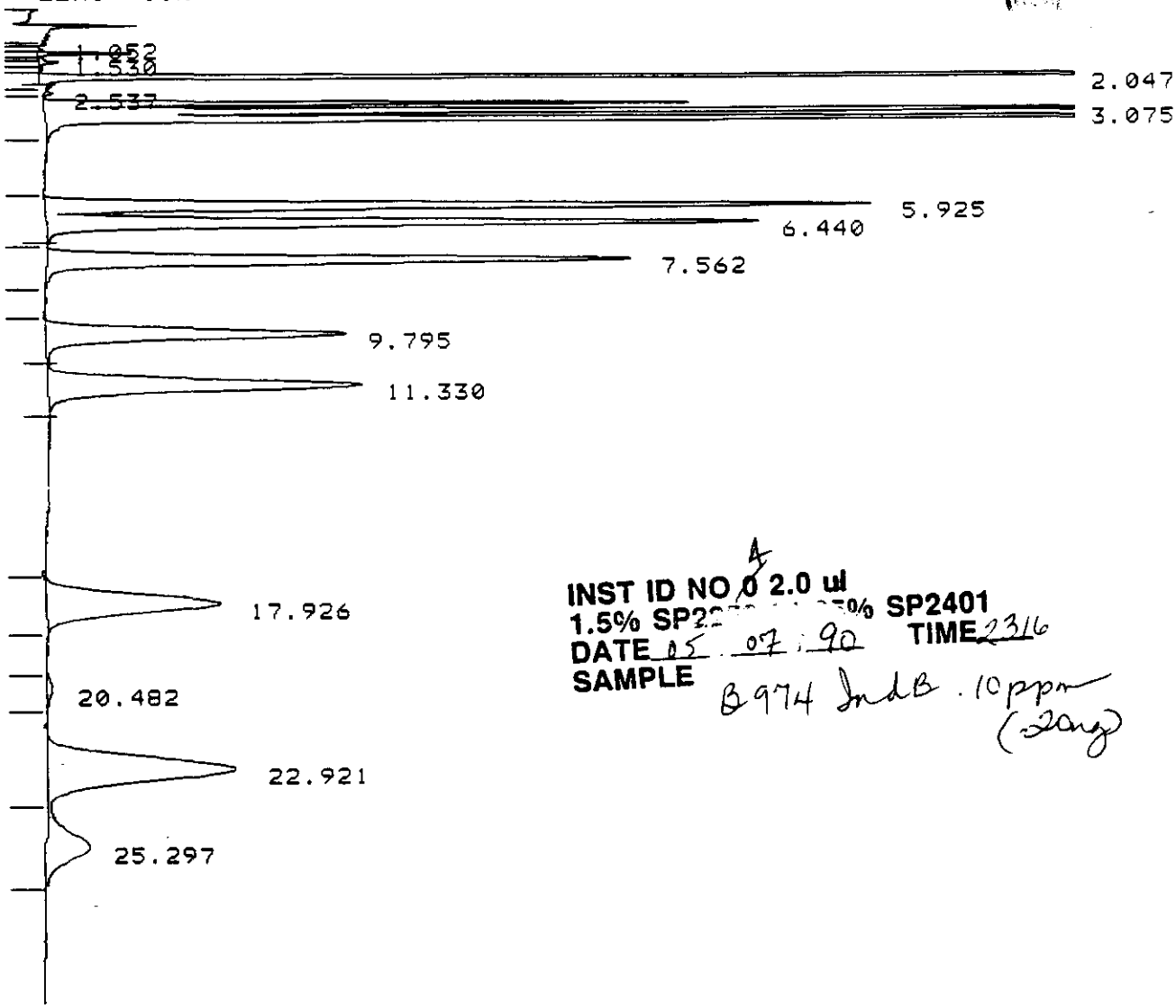
NOISE: 40.1 OFFSET: -9

RACK: 5 VIAL: 5 INJ: 1

NOTES:
( 'L: 1.5% SP2250/1.95% SP2401
.T INJ.2UL/INSTRUMENT LETTER A
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIALBA CTL#'S 2521,2544 PEST SOILS
ENGIHARL CTL# 2534,2542 PEST SOILS & H2O'S
VERSCDM CTL# 2565 PEST SOIL

varian /sums

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10%




INST ID NO 4 2.0 ul
1.5% SP2[illegible]% SP2401
DATE 05 . 07 . 90 TIME 2316
SAMPLE B974 IndB . 10ppm (20ng)

100190

TITLE: CLP PESTICIDES 23:16 7 MAY 90

ORIGINAL (Red)

CHANNEL NO: 3 SAMPLE: B974 INDB.10 METHOD: CLP-3A

| PEAK | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| | | 4536 | 1.342 | | 4536 | BV | | 3.15 |
| 2 | | 1103 | 1.607 | | 1103 | VB | | 4.00 |
| 3 | A-BHC | 201470 | 2.047 | -0.033 | 201470 | BV | | 4.15 |
| 4 | ~~G-BHC~~ rt | 799 | 2.537 | -0.043 | 799 | T | ? | 8.60 |
| 5 | B-BHC | 58514 | 2.847 | -0.043 | 58514 | VV | | 6.10 |
| 6 | HEPTACHLOR | 160168 | 3.075 | -0.045 | 160168 | VV | | 6.25 |
| 7 | D-BHC | 181241 | 3.313 | -0.047 | 181241 | VB | | 6.80 |
| 8 | G-CHLORDAN | 151541 | 5.925 | -0.095 | 151541 | BV | | 12.15 |
| 9 | A-CHLORDAN | 145090 | 6.440 | -0.100 | 145090 | VB | | 13.35 |
| 10 | DDE | 137040 | 7.562 | -0.118 | 137040 | BB | | 15.45 |
| 11 | ENDRIN | 92619 | 9.795 | -0.165 | 92619 | BV | | 20.15 |
| 12 | DDD | 111709 | 11.330 | -0.190 | 111709 | VB | | 23.30 |
| 13 | ESS | 94937 | 17.926 | -0.324 | 94937 | BB | ? | 36.70 |
| 14 | | 3651 | 20.482 | | 3651 | BV | | 39.45 |
| 15 | DBC | 133936 | 22.921 | -0.419 | 133936 | VV | | 46.80 |
| 16 | ~~ENDRIN KET~~ Methoxyclor | 37087 | 25.297 | 0.237 | 37087 | VB | ? | 54.00 |
| TOTALS: | | 1515440 | | -1.385 | 1515440 | | | |

DETECTED PKS: 19 REJECTED PKS: 3

DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 40.1 OFFSET: -16

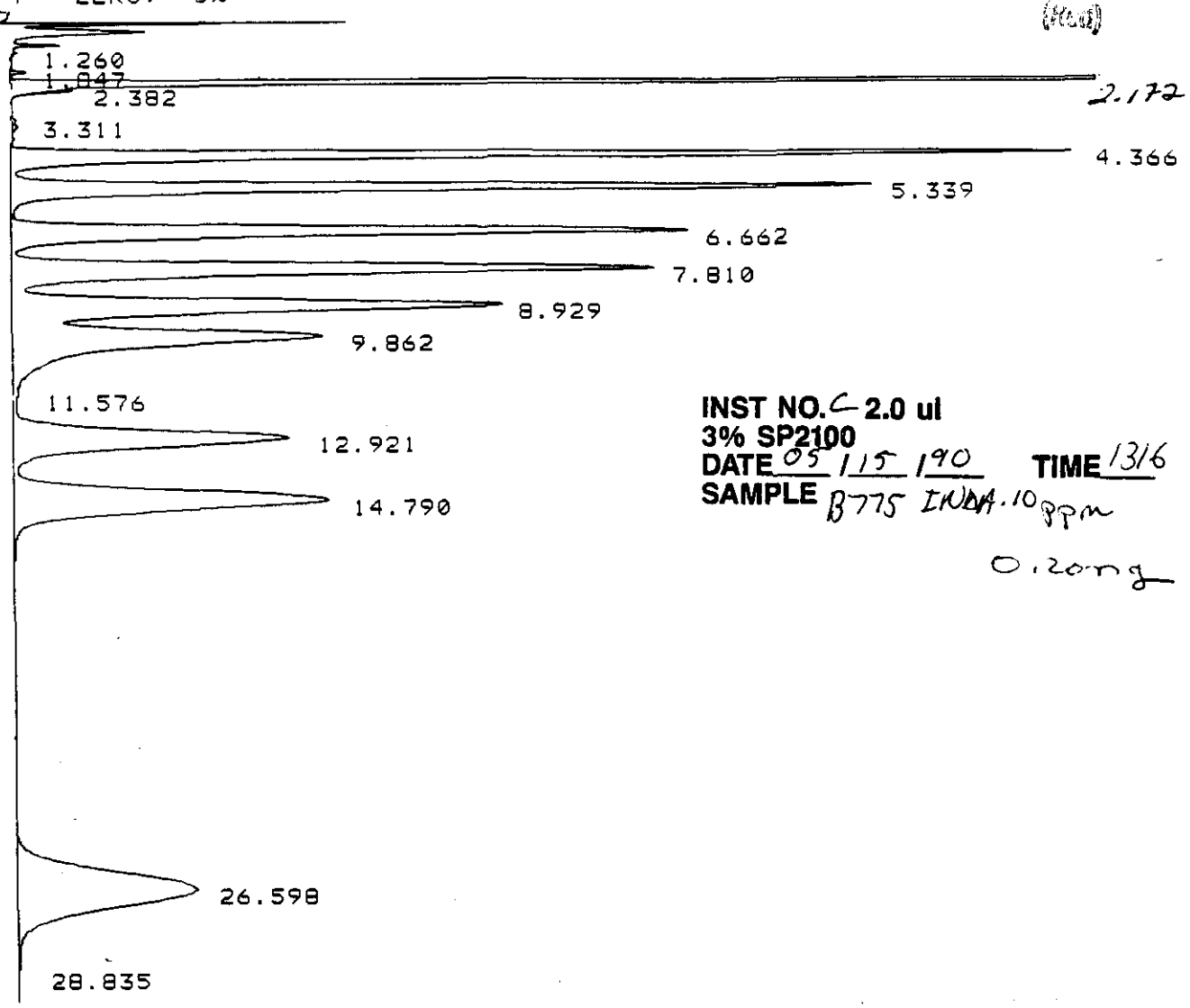
RACK: 5 VIAL: 7 INJ: 1

NOTES:
^OL: 1.5% SP2250/1.95% SP2401
IT INJ.2UL/INSTRUMENT LETTER A
RT= OUTSIDE RETENTION TIME WINDOW
ENGIALBA CTL#'S 2521,2544 PEST SOILS
ENGIHARL CTL# 2534,2542 PEST SOILS & H2O'S
VERSCDM CTL# 2565 PEST SOIL

varian /sunnyvale, calif. p/n 03-906362-00

CHART SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%

ORIGINAL (Red)




INST NO. C 2.0 ul
3% SP2100
DATE 05 / 15 / 90 TIME 1316
SAMPLE B775 INDA .10 ppm
0.20 ng

ORIGINAL (Red)

TITLE: CLP PESTICIDES 13:16 15 MAY 90

CHANNEL NO: 2 SAMPLE: B775 INDA.10 METHOD: CLP-2A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | G-BHC | 43304 | 2.172 | 0.012 | 43304 | VV | 5.90 |
| 2 | ALDRIN | 49831 | 4.366 | 0.026 | 49831 | BV | 11.80 |
| 3 | HEPT EPOX | 49850 | 5.339 | 0.029 | 49850 | VV | 14.45 |
| 4 | A-ENDOSULF | 47750 | 6.662 | 0.032 | 47750 | VV | ? 18.15 |
| 5 | ~~DDE~~/DIELD. | 52428 | 7.810 | 0.040 | 52428 | VV | 21.00 |
| 6 | B-ENDOSULF | 46538 | 8.929 | 0.039 | 46538 | VV | 24.40 |
| 7 | ENDRIN ALD | 41041 | 9.862 | 0.022 | 41041 | VV | 30.30 |
| 8 | DDT | 35748 | 12.921 | 0.061 | 35748 | VV | 33.00 |
| 9 | END KETONE | 47451 | 14.790 | 0.060 | 47451 | VB | 38.70 |
| 10 | DBC | 49085 | 26.598 | 0.068 | 49085 | BV | ? 70.35 |
| TOTALS: | | 463026 | | 0.389 | 463026 | | |

DETECTED PKS: 18 REJECTED PKS: 8

DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 4.9 OFFSET: -13

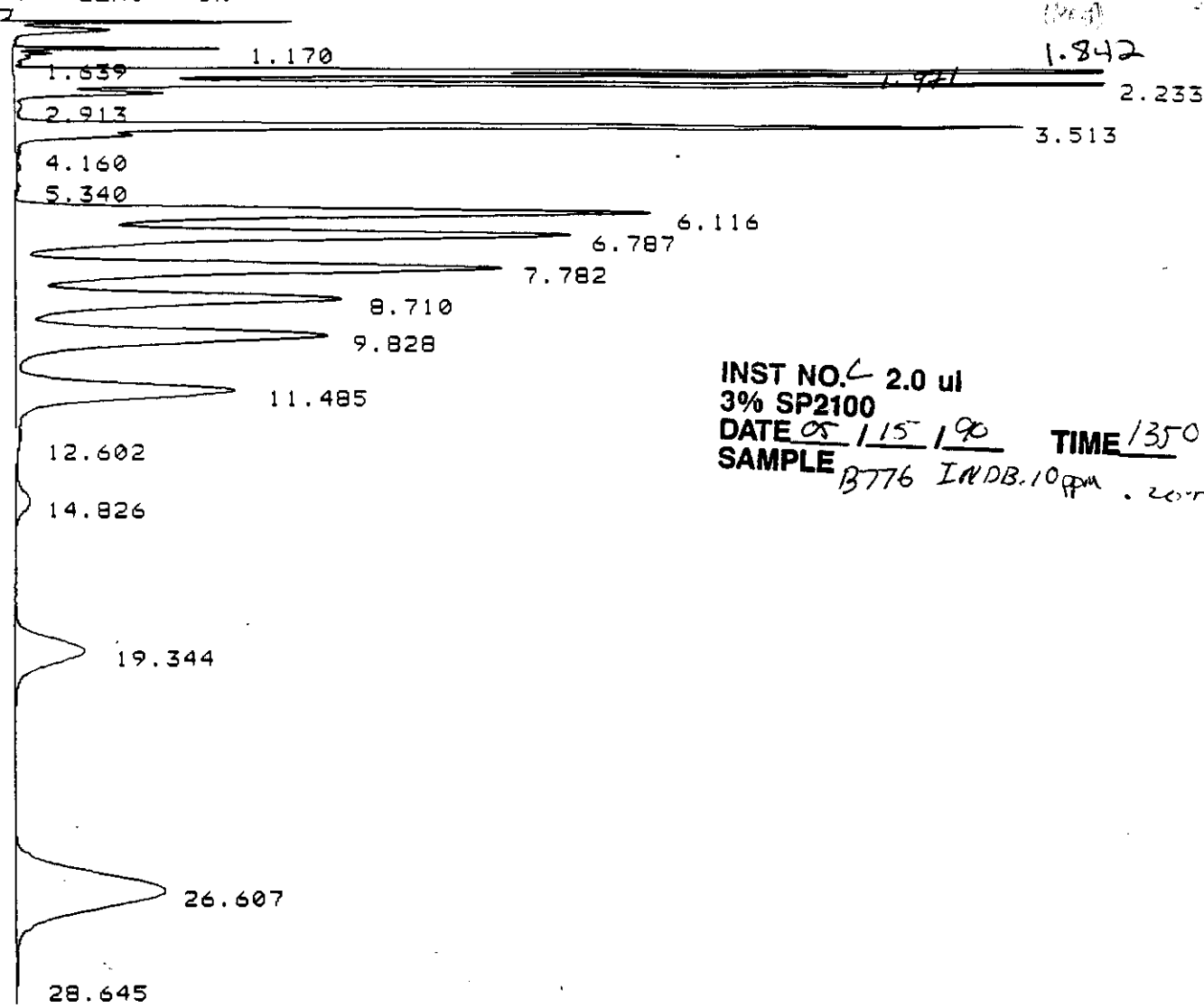
RACK: 1 VIAL: 7 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
VERSCDM B.4 CTL2565 CLP PEST WATER

VA sunnyvale, calif. p/n 03-906362-00

CHART SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%

ORIGINAL




INST NO. C 2.0 ul
3% SP2100
DATE 05 / 15 / 90 TIME 1350
SAMPLE B776 INDB. 10 ppm . 20 ng

varian /sunnyvale, .ilf.p/n 03-906362-00

100194

ORIGINAL (Red)

TITLE: CLP PESTICIDES 13:50 15 MAY 90

CHANNEL NO: 2 SAMPLE: B776 INDB.10 METHOD: CLP-2A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 2568 | 1.170 | | 2568 | BV | | 3.10 |
| 2 | A-BHC | 37658 | 1.842 | 0.012 | 37658 | VV | | 5.00 |
| 3 | B-BHC | 17243 | 1.971 | 0.011 | 17243 | VV | ? | 6.40 |
| 4 | D-BHC | 40367 | 2.233 | 0.013 | 40367 | VV | | 6.25 |
| 5 | | 5474 | 2.517 | | 5474 | VV | | 10.45 |
| 6 | HEPTACHLOR | 37089 | 3.513 | 0.013 | 37089 | VV | ? | 6.70 |
| 7 | | 4514 | 3.783 | | 4514 | VV | ? | 15.25 |
| 8 | G-CHLORDAN | 43007 | 6.116 | 0.026 | 43007 | VV | | 17.00 |
| 9 | A-CHLORDAN | 43784 | 6.787 | 0.027 | 43784 | VV | | 19.35 |
| 10 | DDE/~~DIELD.~~ | 40996 | 7.782 | 0.012 | 40996 | VV | | 21.25 |
| 11 | ENDRIN | 31560 | 8.710 | 0.030 | 31560 | VV | | 24.45 |
| 12 | ~~ENDRIN ALD.~~ | 33987 | 9.828 | -0.012 | 33987 | VV | | 27.10 |
| 13 | ESS DDD | 27141 | 11.485 | 0.035 | 27141 | VV | | 30.05 |
| 14 | ~~END KETO~~NE | 2780 | 14.826 | 0.096 | 2780 | VB | | 44.00 |
| 15 | METHOXYCHL | 13543 | 19.344 | 0.054 | 13543 | BB | | 49.40 |
| 16 | DBC | 41348 | 26.607 | 0.077 | 41348 | BV | | 70.55 |
| TOTALS: | | 423059 | | 0.394 | 423059 | | | |

DETECTED PKS: 25 REJECTED PKS: 9

DIVISOR: 1.00000 MULTIPLIER: 10000.0

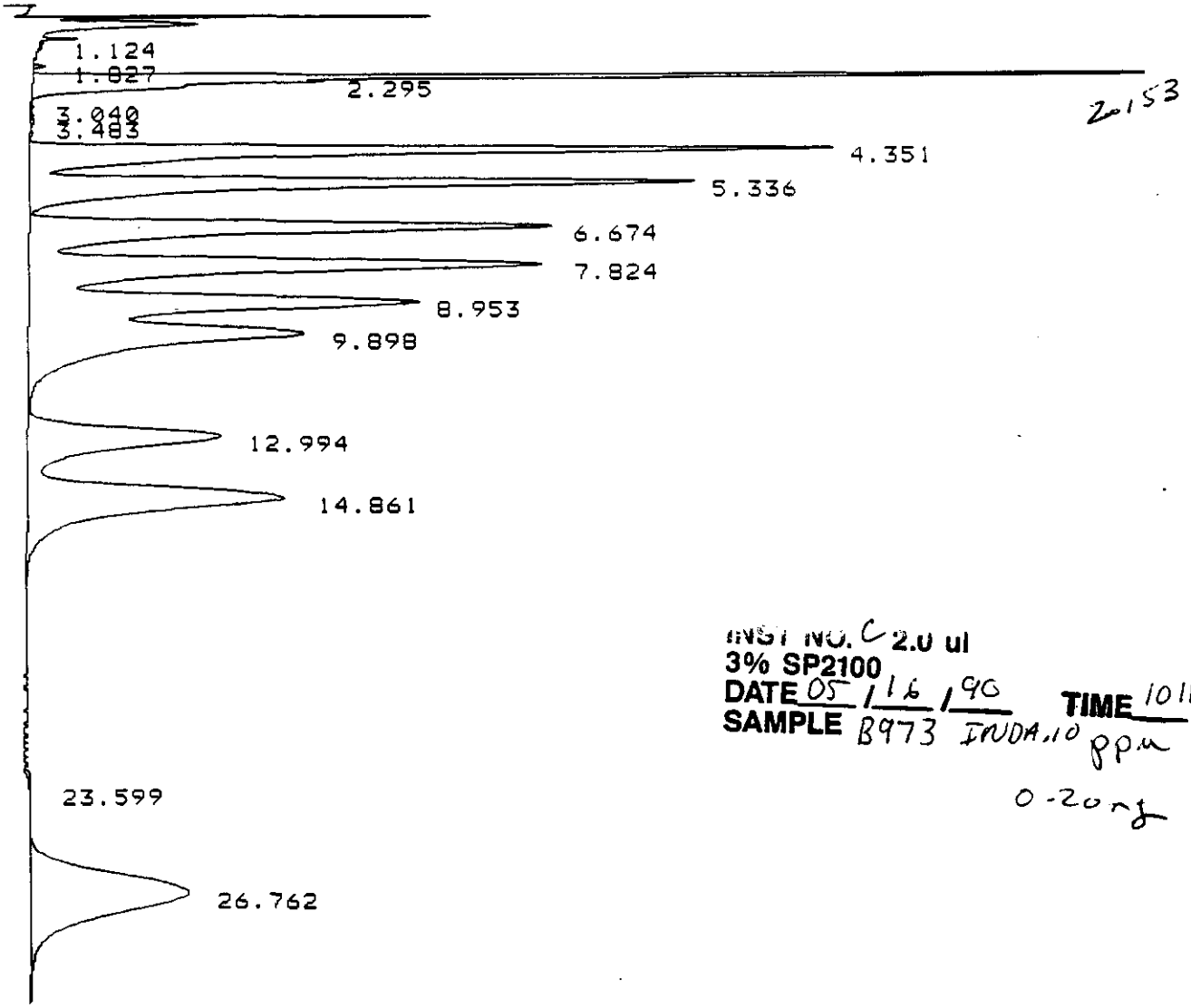
NOISE: 4.9 OFFSET: -14

RUN: 1 VIAL: 8 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
VERSCDM B.4 CTL2565 CLP PEST WATER

ORIGINAL (Red)

CHART SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%




INST NO. C 2.0 ul
3% SP2100
DATE 05 / 16 / 90 TIME 1011
SAMPLE B973 INDA.10 ppm
0-20 ng

100196

TITLE: CLP PESTICIDES 10:11 16 MAY 90

ORIGINAL (Red)

CHANNEL NO: 2 SAMPLE: B973 INDA.10 METHOD: CLP-2A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| 1 | G-BHC - 23% | 33236 | 2.153 | -0.007 | 33236 | VV | ? | 3.60 |
| 2 | D-BHC | 7909 | 2.295 | 0.075 | 7909 | VV | ? | 3.00 |
| 3 | | 5016 | 2.432 | | 5016 | VB | ? | 8.80 |
| 4 | ALDRIN | 50515 | 4.351 | 0.011 | 50515 | VV | | 14.20 |
| 5 | HEPT EPOX | 50450 | 5.336 | 0.026 | 50450 | VV | | 17.75 |
| 6 | A-ENDOSULF | 47108 | 6.674 | 0.044 | 47108 | VV | | 22.00 |
| 7 | DDE/DIELD. | 52240 | 7.824 | 0.054 | 52240 | VV | | 25.15 |
| 8 | B-ENDOSULF | 43938 | 8.953 | 0.063 | 43938 | VV | | 29.30 |
| 9 | ENDRIN ALD | 45275 | 9.898 | 0.058 | 45275 | VV | | 38.50 |
| 10 | DDT | 30239 | 12.994 | 0.134 | 30239 | VV | | 38.40 |
| 11 | END KETONE | 47449 | 14.861 | 0.131 | 47449 | VB | | 43.80 |
| 12 | DBC | 48128 | 26.762 | 0.232 | 48128 | BB | ? | 156.90 |
| TOTALS: | | 461503 | | 0.821 | 461503 | | | |

DETECTED PKS: 22 REJECTED PKS: 10

DIVISOR: 1.00000 MULTIPLIER: 10000.0

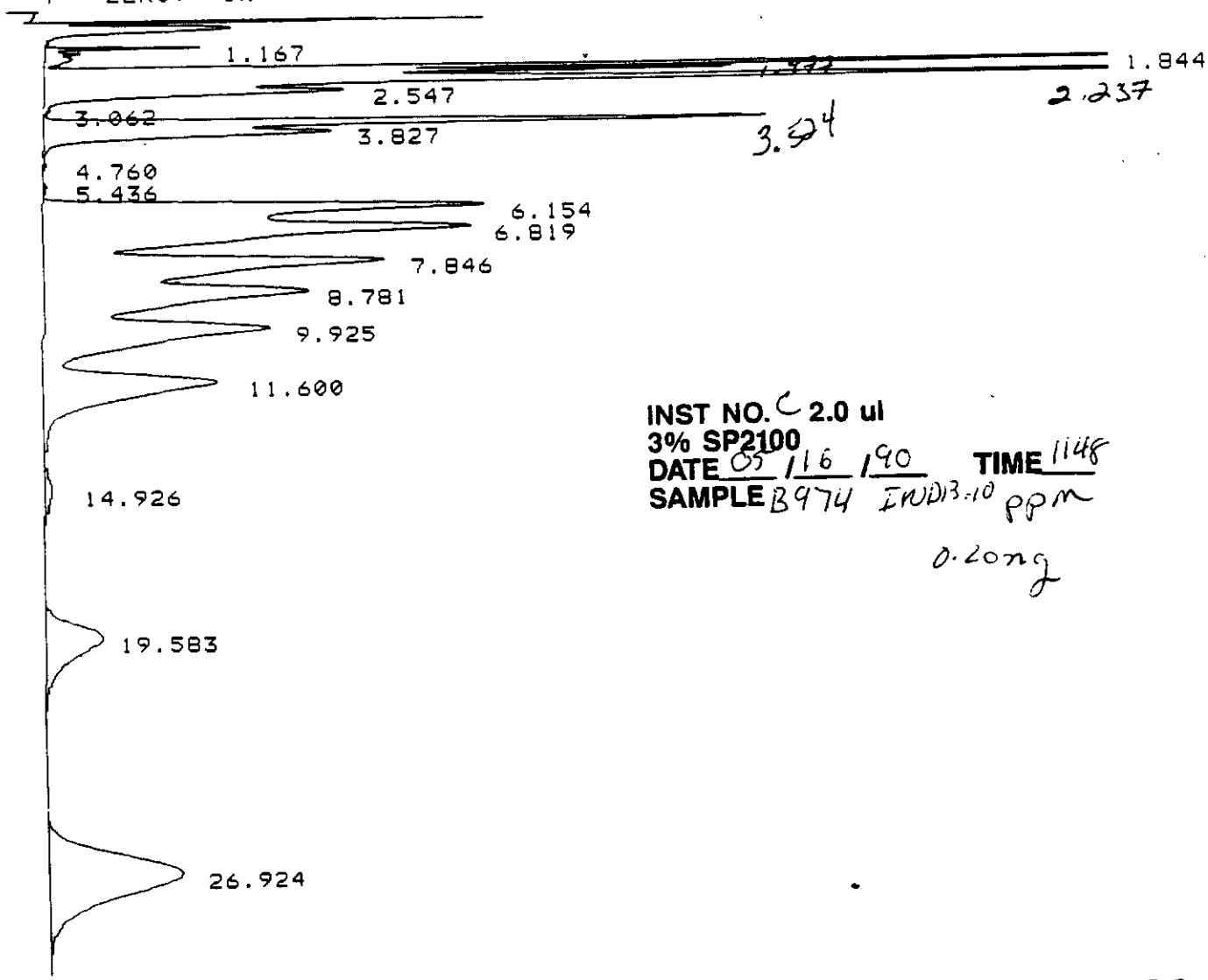
NOISE: 4.9 OFFSET: -22

RACK: 3 VIAL: 4 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
OOT= OUTSIDE RETENTION TIME WINDOW
VERSCDM B.4 CTL2565 CLP PEST WATER
GSXMD CTL 2694 PESTICIDE WATER
VERSCDM CTL 2536 PEST SOILS
ENGIBLOM CTL 2660 PEST SOILS

ORIGINAL
(Red)

CHART SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%




INST NO. C 2.0 ul
3% SP2100
DATE 05 / 16 / 90 TIME 1148
SAMPLE B974 IND13-10 ppm
0.20ng

100193

ORIGINAL (Red)

TITLE: CLP PESTICIDES 11:48 16 MAY 90

CHANNEL NO: 2 SAMPLE: B974 INDB.10 METHOD: CLP-2A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | | 1925 | 1.167 | | 1925 | BV | 3.05 |
| 2 | | 753 | 1.327 | | 753 | VV | 5.50 |
| 3 | | 1431 | 1.487 | | 1431 | VV | ? 19.95 |
| 4 | A-BHC | 29039 | 1.844 | 0.014 | 29039 | VV | 4.85 |
| 5 | B-BHC | 14997 | 1.977 | 0.017 | 14997 | VV | ? 6.00 |
| 6 | D-BHC | 49940 | 2.237 | 0.017 | 49940 | VV | ? 4.65 |
| 7 | | 16361 | 2.547 | | 16361 | VV | ? 15.40 |
| 8 | HEPTACHLOR | 29102 | 3.524 | 0.024 | 29102 | VV | 10.15 |
| 9 | | 16891 | 3.827 | | 16891 | VV | ? 18.95 |
| 10 | G-CHLORDAN | 37083 | 6.154 | 0.064 | 37083 | VV | ? 14.50 |
| 11 | A-CHLORDAN | 53408 | 6.819 | 0.059 | 53408 | VV | ? 30.30 |
| 12 | DDE/~~DIELD~~. | 42038 | 7.846 | 0.076 | 42038 | VV | 33.30 |
| 13 | ENDRIN | 38113 | 8.781 | 0.101 | 38113 | VV | 39.80 |
| 14 | ~~ENDRIN ALD~~ | 36511 | 9.925 | 0.085 | 36511 | VV | 39.95 |
| 15 | ESS DDD | 32225 | 11.600 | 0.150 | 32225 | VV | 44.30 |
| 16 | ~~END KETONE~~ | 1389 | 14.926 | 0.196 | 1389 | T | 48.00 |
| 17 | METHOXYCHL | 14838 | 19.583 | 0.293 | 14838 | BB | 63.25 |
| 18 | DBC | 45321 | 26.924 | 0.394 | 45321 | BB | 85.00 |
| TOTALS: | | 461365 | | 1.490 | 461365 | | |

DETECTED PKS: 22 REJECTED PKS: 4

DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 4.9 OFFSET: -19

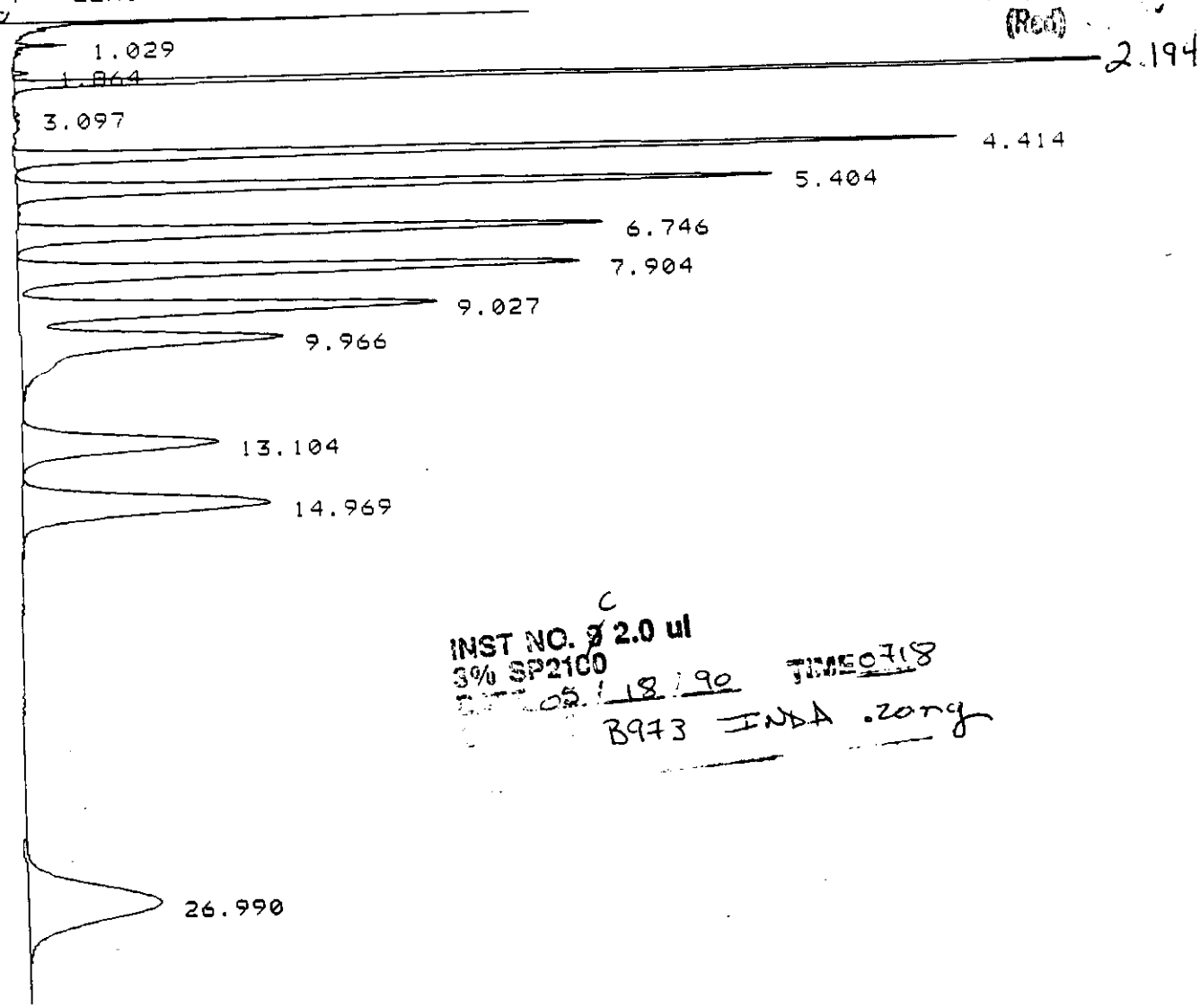
RUN: 3 VIAL: 5 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
VERSCDM B.4 CTL2565 CLP PEST WATER
GSXMD CTL 2694 PESTICIDE WATER
VERSCDM CTL 2536 PEST SOILS
ENGIBLOM CTL 2660 PEST SOILS

varian, sunnyvale, calif p/n 03-906362-00

CHART SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%

ORIGINAL
(Red)




INST NO. ~~9~~ C 2.0 ul
3% SP2100
DATE 05/18/90 TIME 0718
B973 INDA .zong

varian /sunnyvale, calif. p/n 03- 62-0

100200

ORIGINAL (Red)

TITLE: CLP PESTICIDES 7:18 18 MAY 90

CHANNEL NO: 2 SAMPLE: B973 INDA.10 METHOD: CLP-2A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | ~~D-BHC~~ G-BHC | 36954 | 2.194 | -0.026 | 36954 | VB | 5.65 |
| 2 | ALDRIN | 41166 | 4.414 | 0.074 | 41166 | BB | ? 11.60 |
| 3 | HEPT EPOX | 40433 | 5.404 | 0.094 | 40433 | BB | 14.00 |
| 4 | ~~A-CHLORDANE~~ A | 38400 | 6.746 | -0.014 | 38400 | BV | 17.30 |
| 5 | ~~DDE~~/DIELD. | 42859 | 7.904 | 0.134 | 42859 | VV | 20.00 |
| 6 | B-ENDOSULF | 36604 | 9.027 | 0.137 | 36604 | VV | 22.95 |
| 7 | ENDRIN ALD | 32169 | 9.966 | 0.126 | 32169 | VB | 27.70 |
| 8 | DDT | 24073 | 13.104 | 0.244 | 24073 | BV | 32.05 |
| 9 | END KETONE | 34830 | 14.969 | 0.239 | 34830 | VB | 36.65 |
| 10 | DBC | 35894 | 26.990 | 0.460 | 35894 | BB | ? 69.80 |
| TOTALS: | | 363382 | | 1.468 | 363382 | | |

DETECTED PKS: 16 REJECTED PKS: 6

DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 8.5 OFFSET: -11

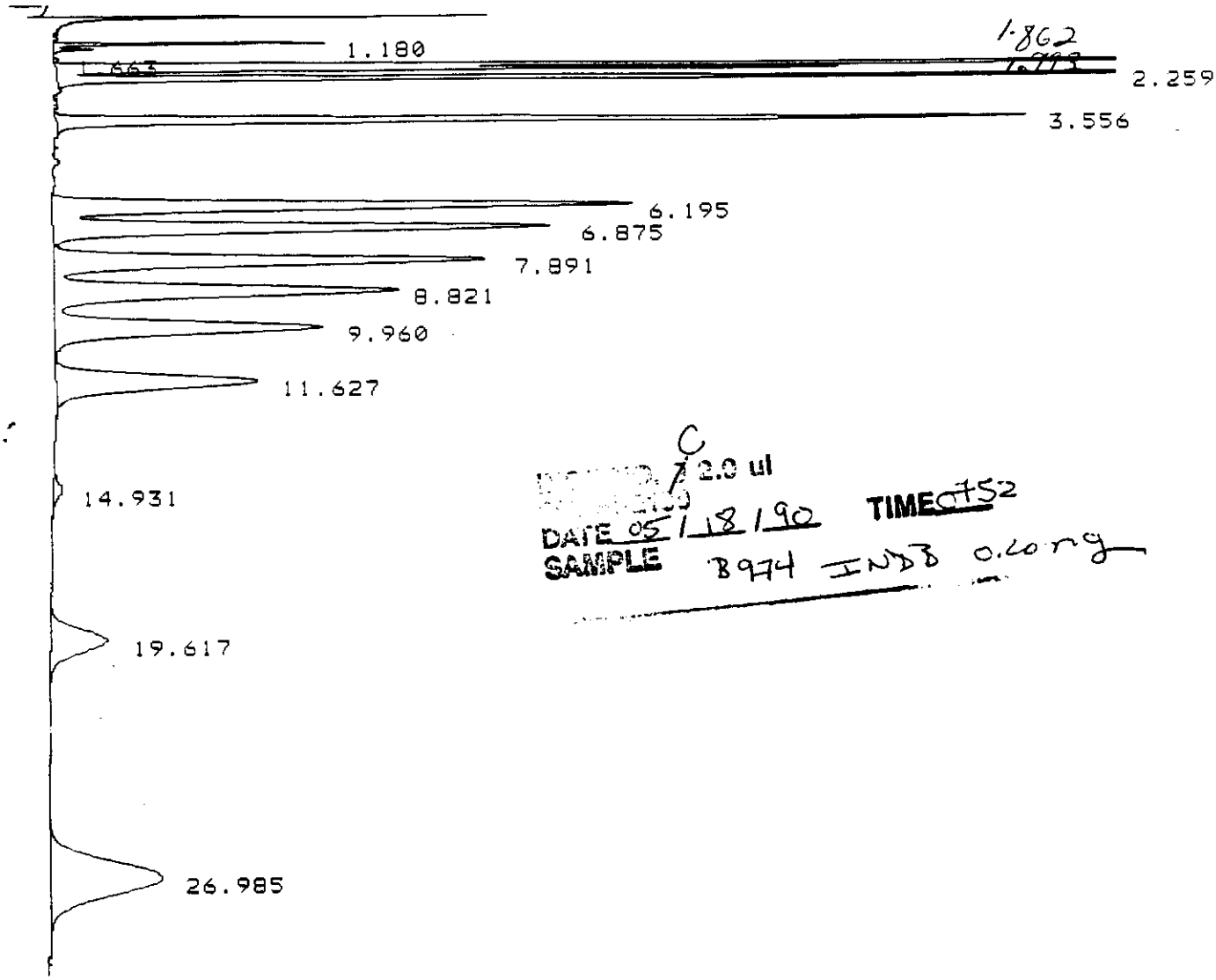
RACK: 1 VIAL: 7 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
VERSCDM B.4 CTL2565 CLP PEST WATER
GSAMD CTL 2694 PESTICIDE WATER
VERSCDM CTL 2536 PEST SOILS
ENGIBLOM CTL 2660 PEST SOILS

yvale,calif.p/n 03-906362-01

ORIGINAL (Red)

CHART SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%




C
2.0 ul
DATE 05/18/90 TIME 0752
SAMPLE B974 INDB 0.0ng

100202

TITLE: CLP PESTICIDES 7:52 18 MAY 90

CHANNEL NO: 2 SAMPLE: B974 INDB.10 METHOD: CLP-2A

| PE. NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 3165 | 1.180 | | 3165 | BV | | 2.90 |
| 2 | A-BHC | 36567 | 1.862 | 0.032 | 36567 | VV | | 4.85 |
| 3 | B-BHC | 15166 | 1.993 | 0.033 | 15166 | VV | ? | 5.75 |
| 4 | D-BHC | 32799 | 2.259 | 0.039 | 32799 | VB | | 5.75 |
| 5 | HEPTACHLOR | 35002 | 3.556 | 0.056 | 35002 | BB | ? | 9.35 |
| 6 | G-CHLORDAN | 35643 | 6.195 | 0.105 | 35643 | BV | ? | 16.00 |
| 7 | A-CHLORDAN | 34332 | 6.875 | 0.115 | 34332 | VV | ? | 17.80 |
| 8 | DDE/~~DIELD~~. | 32999 | 7.891 | 0.121 | 32999 | VV | | 19.70 |
| 9 | ~~B-ENDOSULF~~ENDRIN | 30147 | 8.821 | -0.069 | 30147 | VV | | 22.35 |
| 10 | ~~ENDRIN ALDDDD~~ | 25999 | 9.960 | 0.120 | 25999 | VV | | 24.70 |
| 11 | ESS | 22540 | 11.627 | 0.177 | 22540 | VB | | 29.15 |
| 12 | ~~END KETONE~~ | 1082 | 14.931 | 0.201 | 1082 | BB | | 30.40 |
| 13 | METHOXYCHL | 10631 | 19.617 | 0.327 | 10631 | BB | | 46.75 |
| 14 | DBC | 30577 | 26.985 | 0.455 | 30577 | BB | ? | 69.70 |
| TOTALS: | | 346649 | | 1.712 | 346649 | | | |

.TECTED PKS: 16 REJECTED PKS: 2

DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 8.5 OFFSET: -9

RACK: 1 VIAL: 8 INJ: 1

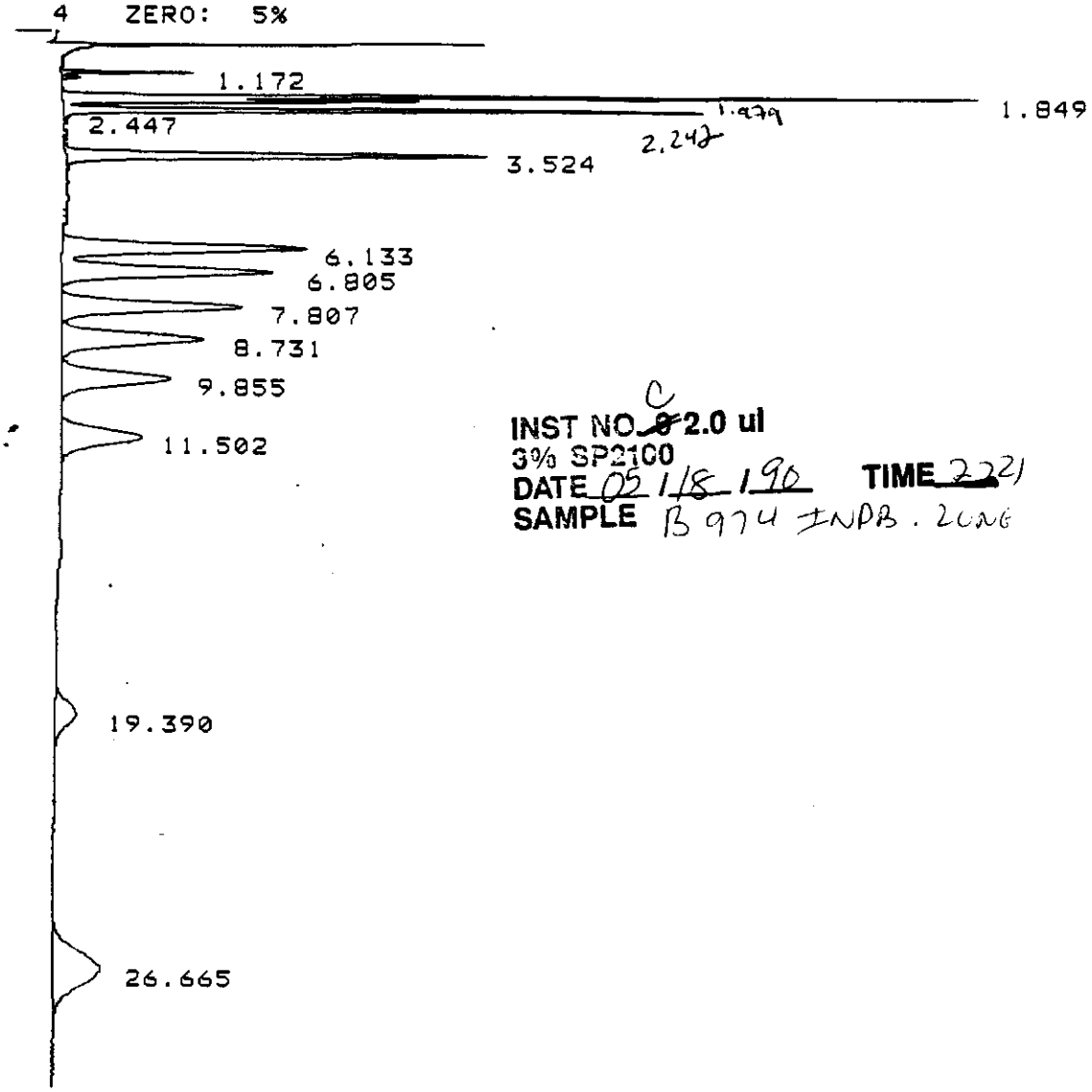
NOTES:
INSTRUMENT ID: C
( LUMN: 3% SP2100
.NJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
VERSCDM B.4 CTL2565 CLP PEST WATER
GSXMD CTL 2694 PESTICIDE WATER
VERSCDM CTL 2536 PEST SOILS
ENGIBLOM CTL 2660 PEST SOILS

varian /sunnyvale,calif.p/n u3-906362-01

150

ORIGINAL (Red)

CHART SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%




INST NO. ~~8~~ C 2.0 ul
3% SP2100
DATE 05 / 18 / 90 TIME 2221
SAMPLE B 974 INPB . 2UNG

varian /sunnyvale, calif.p/.. J3-906362-01

100204

ORIGINAL (Red)

TITLE: CLP PESTICIDES B974 INDB.10 22:21 18 MAY 90

NNEL NO: 2 SAMPLE: ~~B973 INDA.10~~ METHOD: CLP-2A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 1405 | 1.172 | | 1405 | BV | | 2.90 |
| 2 | A-BHC | 15088 | 1.849 | -0.011 | 15088 | BV | | 4.65 |
| 3 | B-BHC | 6214 | 1.979 | -0.011 | 6214 | VV | ? | 5.55 |
| 4 | D-BHC | 12889 | 2.242 | -0.018 | 12889 | VV | | 5.55 |
| 5 | HEPTACHLOR | 13743 | 3.524 | -0.036 | 13743 | BB | ? | 9.15 |
| 6 | G-CHLORDAN | 13623 | 6.133 | -0.067 | 13623 | BV | ? | 15.55 |
| 7 | A-ENDOSULF | 13000 | 6.805 | 0.055 | 13000 | VV | ? | 17.15 |
| | DDE/DIELD. | 12309 | 7.807 | -0.083 | 12309 | VV | | 19.05 |
| | ENDRIN | 11163 | 8.731 | -0.089 | 11163 | VV | | 21.85 |
| 10 | DDD | 9634 | 9.855 | -0.105 | 9634 | VV | | 24.20 |
| 11 | ESS | 8369 | 11.502 | -0.128 | 8369 | VB | | 28.80 |
| 12 | METHOXYCHL | 3574 | 19.390 | -0.230 | 3574 | BB | | 46.40 |
| 13 | DBC | 11696 | 26.665 | -0.325 | 11696 | BB | ? | 67.80 |
| TOTALS: | | 132707 | | -1.048 | 132707 | | | |

ECTED PKS: 15 REJECTED PKS: 2

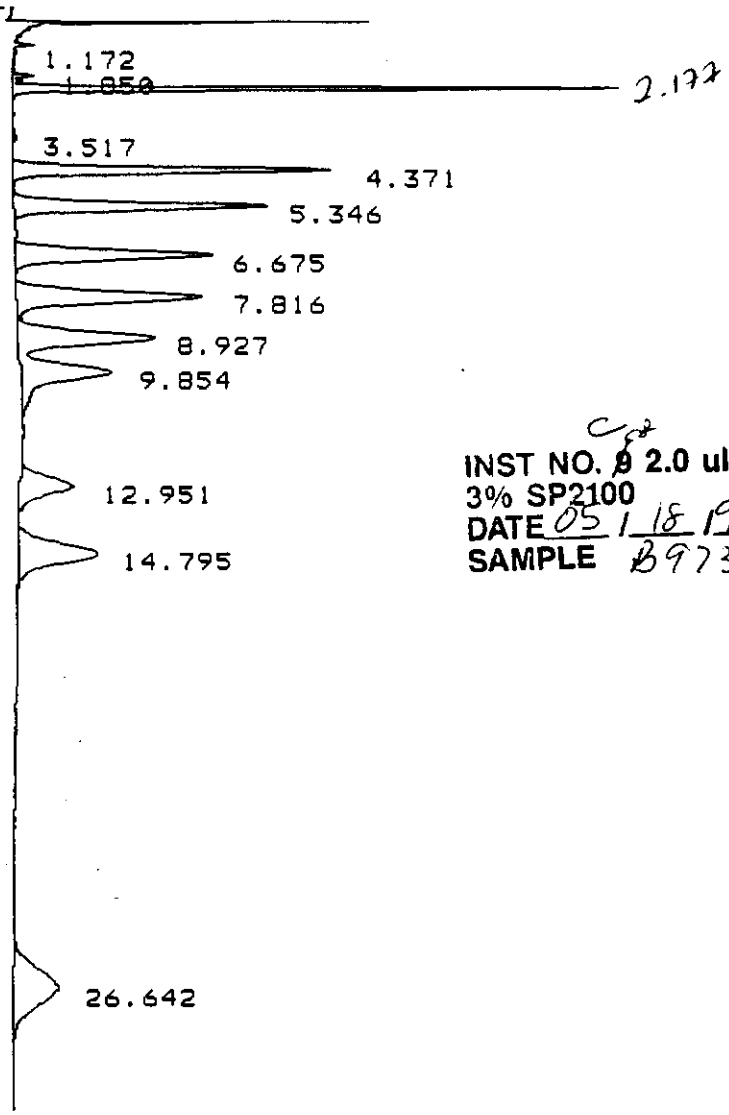
DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 7.3 OFFSET: -9

RACK: 3 VIAL: 4 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIBLOM B.2 CTL2660 CLP PEST SOIL
VERSCDM B.4 CTL2565 CLP PEST SOIL

CHART SPEED 0.5 CM/MIN
N: 4 ZERO: 5%




INST NO. ~~9~~ C8 2.0 ul
3% SP2100
DATE 05 / 18 / 90 TIME 2300
SAMPLE B973 INDA 12CNG

varian /sunnyvale, calif.p/n 03-906362-01

TITLE: CLP PESTICIDES 23:00 18 MAY 90

CHANNEL NO: 2 SAMPLE: B973 INDA.10 METHOD: CLP-2A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | G-BHC | 11614 | 2.177 | -0.013 | 11614 | VB | 5.55 |
| 2 | ALDRIN | 12202 | 4.371 | -0.039 | 12202 | BV | 11.15 |
| 3 | HEPT EPOX | 11889 | 5.346 | -0.054 | 11889 | VB | 13.55 |
| | A-ENDOSULF | 11249 | 6.675 | -0.075 | 11249 | BV | 16.80 |
| | DDE/DIELD. | 12502 | 7.816 | -0.074 | 12502 | VV | 19.65 |
| 6 | B-ENDOSULF | 10614 | 8.927 | -0.103 | 10614 | VV | 22.80 |
| 7 | DDD | 9392 | 9.854 | -0.106 | 9392 | VB | 27.50 |
| 8 | DDT | 5657 | 12.951 | -0.149 | 5657 | BV | 31.35 |
| 9 | END KETONE | 9582 | 14.795 | -0.175 | 9582 | VB | 35.70 |
| 10 | DBC | 10101 | 26.642 | -0.348 | 10101 | BB | ? 67.35 |
| TOTALS: | | 104802 | | -1.136 | 104802 | | |

DETECTED PKS: 16 REJECTED PKS: 6

DIVISOR: 1.00000 MULTIPLIER: 10000.0

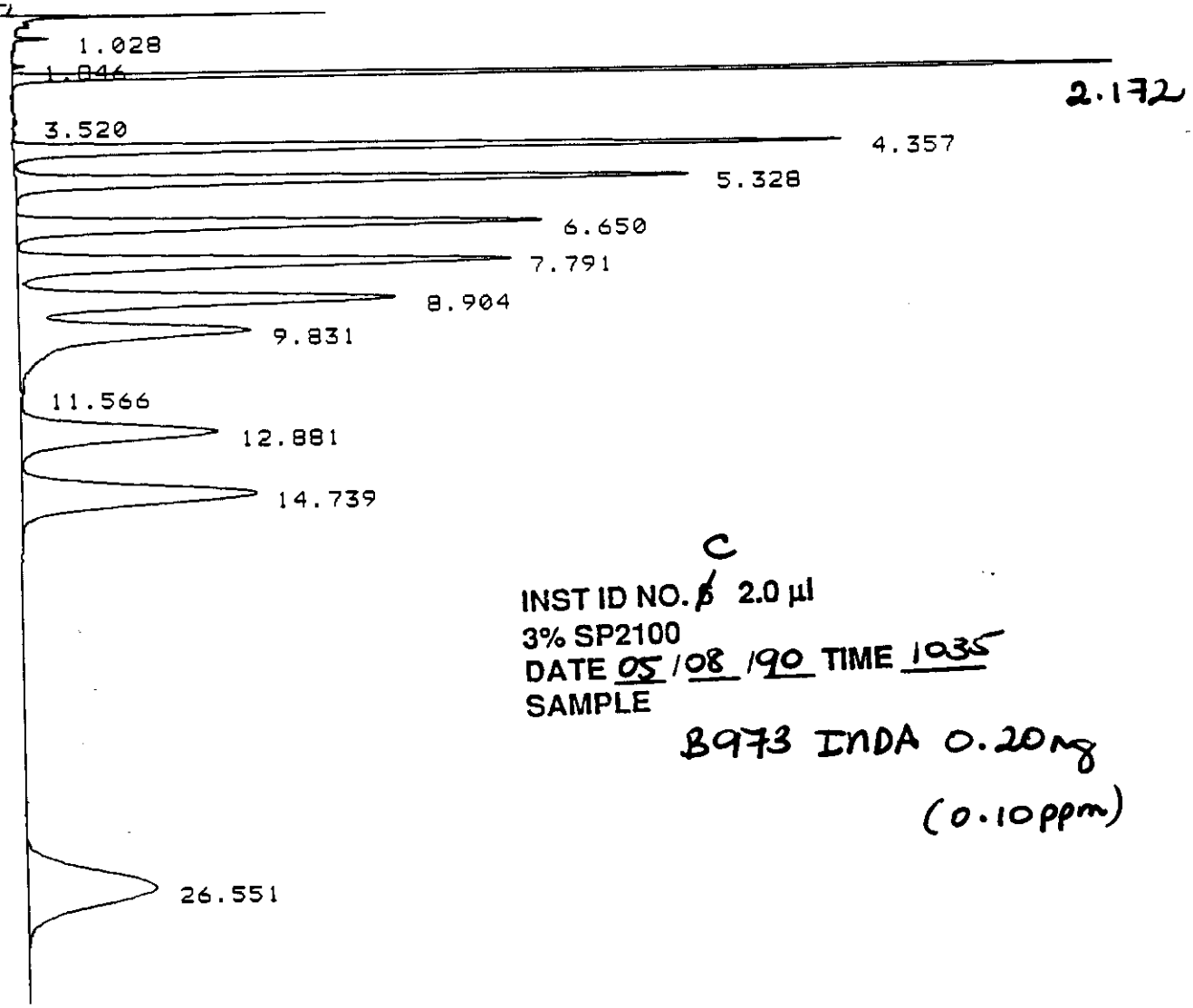
NOISE: 6.1 OFFSET: -7

RACK: 3 VIAL: 5 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIBLOM B.2 CTL2660 CLP PEST SOIL
VERSCDM B.4 CTL2565 CLP PEST SOIL

ORIGINAL (Red)

CHART SPEED 0.5 CM/MIN
A: 4 ZERO: 5%




INST ID NO. ~~B~~ C 2.0 µl
3% SP2100
DATE 05 /08 /90 TIME 1035
SAMPLE
B973 INDA 0.20ng
(0.10ppm)

varian /sunnyvale, p/n 03-906362-00

100208

TITLE: CLP PESTICIDES 10:35 8 MAY 90

ORIGINAL (Red)

CHANNEL NO: 2 SAMPLE: B973 INDA.10 METHOD: CLP-2A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| | G-BHC | 32316 | 2.172 | 0.012 | 32316 | VB | 5.70 |
| | ALDRIN | 36091 | 4.357 | 0.017 | 36091 | BV | 11.50 |
| 3 | HEPT EPOX | 35618 | 5.328 | 0.018 | 35618 | VB | 13.95 |
| 4 | A-ENDOSULF | 34093 | 6.650 | 0.020 | 34093 | BV | 17.20 |
| 5 | ~~DDE~~/DIELD. | 37306 | 7.791 | 0.021 | 37306 | VV | 19.90 |
| 6 | B-ENDOSULF | 33275 | 8.904 | 0.014 | 33275 | VV | 23.10 |
| 7 | ENDRIN ALD | 28805 | 9.831 | -0.009 | 28805 | VV | 28.25 |
| 8 | DDT | 24119 | 12.881 | 0.021 | 24119 | VV | ? 31.10 |
| 9 | END KETONE | 33078 | 14.739 | 0.009 | 33078 | VB | ? 37.00 |
| 10 | DBC | 33733 | 26.551 | 0.021 | 33733 | BB | ? 68.70 |
| TOTALS: | | 328434 | | 0.144 | 328434 | | |

DETECTED PKS: 15 REJECTED PKS: 5

DIVISOR: 1.00000 MULTIPLIER: 10000.0

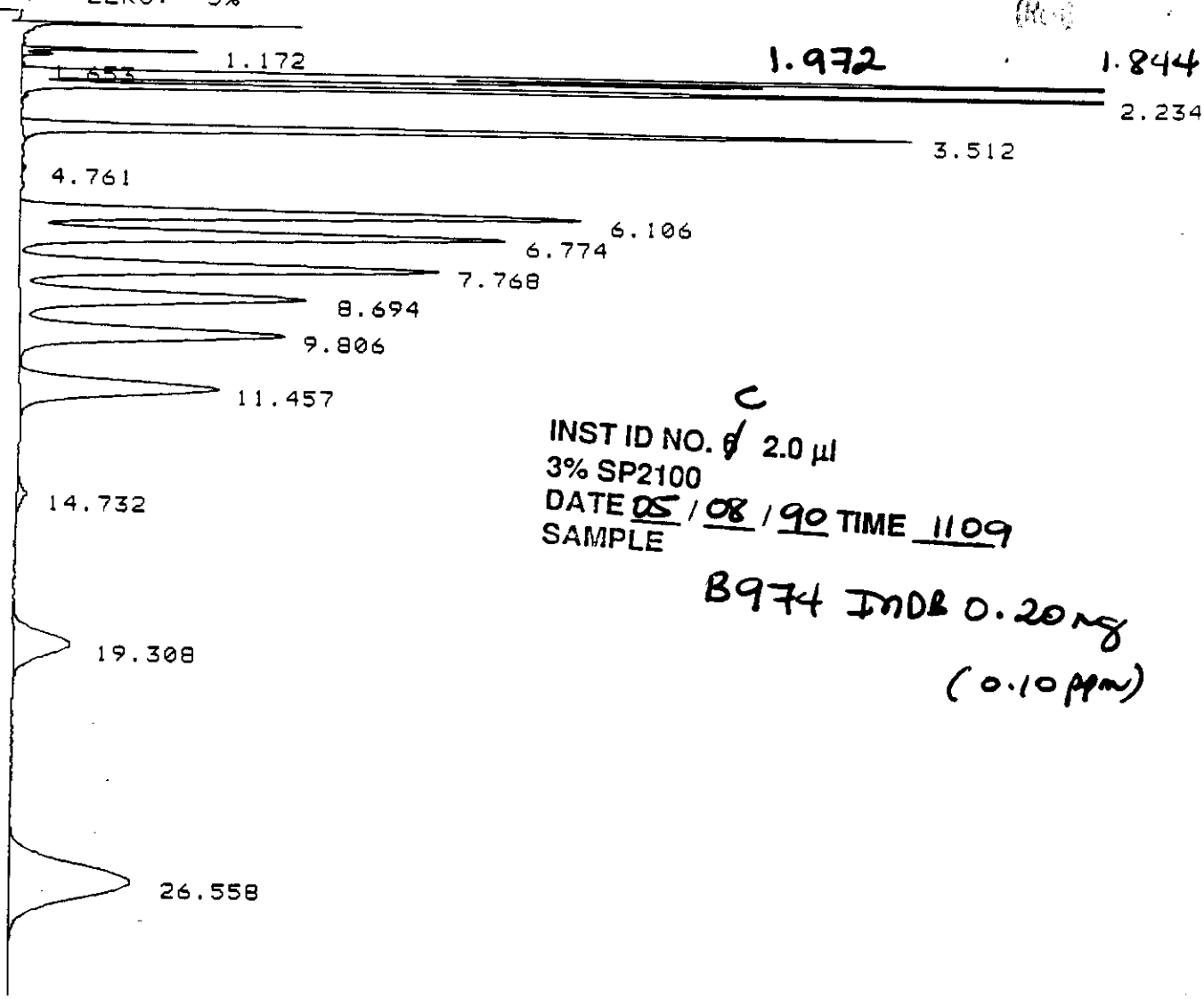
NOISE: 6.1 OFFSET: -10

CK: 1 VIAL: 7 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIHARL 2534 WATER PEST/CLP

CHART SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%

ORIGINAL (Red)




INST ID NO. ~~B~~ C 2.0 µl
3% SP2100
DATE 05 / 08 / 90 TIME 1109
SAMPLE

B974 IMDB 0.20 ng
(0.10 ppm)

varian /sunnyvale, calif. p/n 03-906362-00

T: : CLP PESTICIDES 11:09 8 MAY 90

CHANNEL NO: 2 SAMPLE: B974 INDB.10 METHOD: CLP-2A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 2134 | 1.172 | | 2134 | BV | | 3.05 |
| 2 | A-BHC | 33940 | 1.844 | 0.014 | 33940 | VV | | 4.90 |
| 3 | B-BHC | 14377 | 1.972 | 0.012 | 14377 | VV | ? | 6.00 |
| 4 | D-BHC | 31457 | 2.234 | 0.014 | 31457 | VV | | 5.80 |
| 5 | HEPTACHLOR | 31816 | 3.512 | 0.012 | 31816 | BV | ? | 9.30 |
| 6 | G-CHLORDAN | 33890 | 6.106 | 0.016 | 33890 | BV | ? | 15.85 |
| 7 | A-CHLORDAN | 32893 | 6.774 | 0.014 | 32893 | VV | ? | 17.70 |
| 8 | DDE/~~DIELD.~~ | 31548 | 7.768 | -0.002 | 31548 | VV | | 19.60 |
| 9 | ENDRIN | 25019 | 8.694 | 0.014 | 25019 | VV | | 22.65 |
| 10 | DDD | 25302 | 9.806 | 0.016 | 25302 | VV | | 24.55 |
| 11 | ESS | 21935 | 11.457 | 0.007 | 21935 | VB | | 29.25 |
| 12 | ~~END KETONE~~ | 1234 | 14.732 | 0.002 | 1234 | BB | | 30.40 |
| 13 | METHOXYCHL | 10291 | 19.308 | 0.018 | 10291 | BB | | 47.20 |
| 14 | DBC | 31903 | 26.558 | 0.028 | 31903 | BB | ? | 69.25 |
| TOTALS: | | 327739 | | 0.165 | 327739 | | | |

DETECTED PKS: 19 REJECTED PKS: 5

DIVISOR: 1.00000 MULTIPLIER: 10000.0

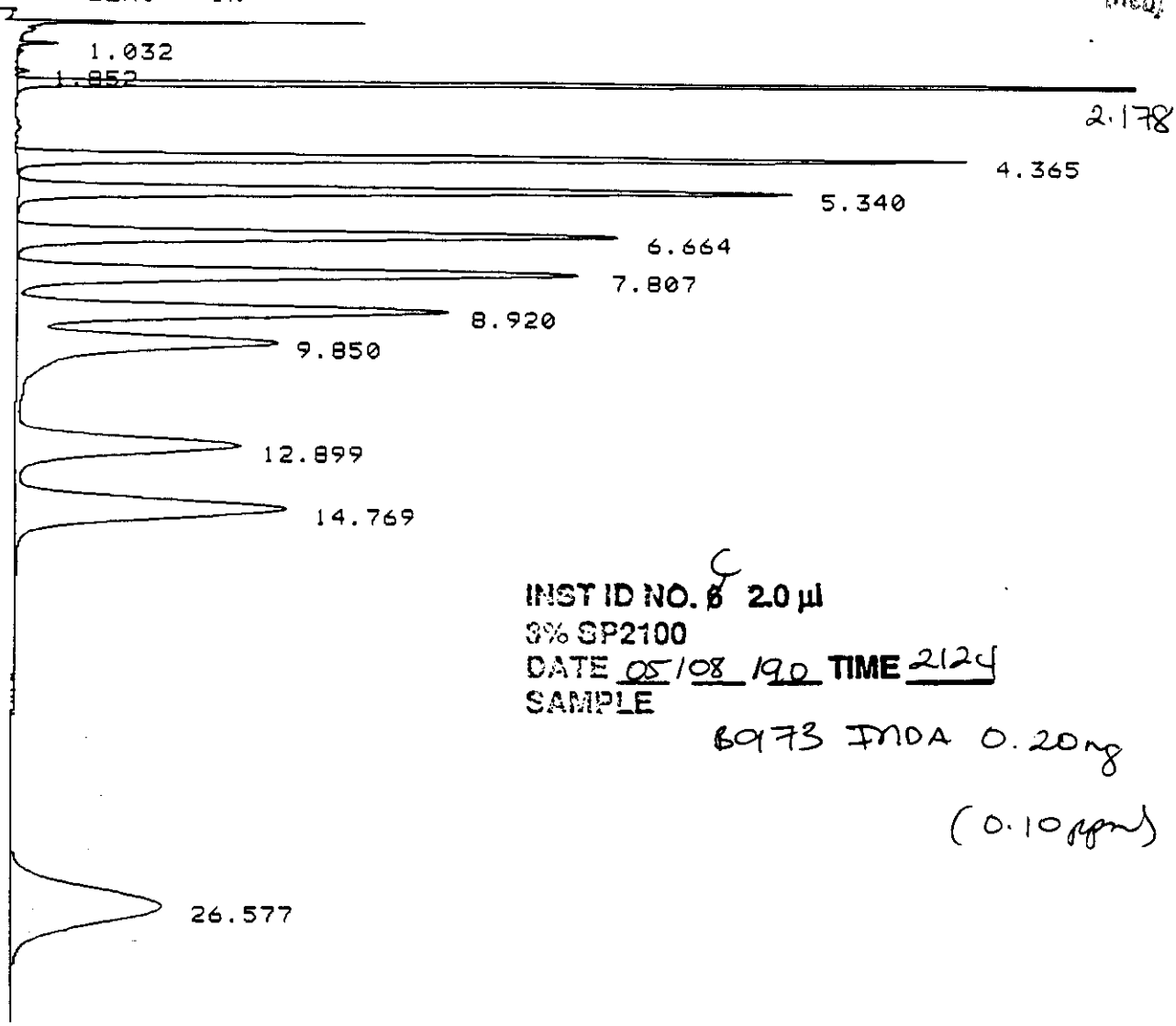
NOISE: 6.1 OFFSET: -12

RACK: 1 VIAL: 8 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIHARL 2534 WATER PEST/CLP

varian /sunnyvale, calif. p/n 03-

CHART SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%




INST ID NO. ~~6~~ C 2.0 µl
3% SP2100
DATE 05/08/90 TIME 2124
SAMPLE
B973 IMDA 0.20ng
(0.10ppm)

varian /sunnyvale, calif. p/n 03-906362-00

100212

ORIGINAL (Red)

TITLE: CLP PESTICIDES 21:24 8 MAY 90

CHANNEL NO: 2 SAMPLE: B973 INDA.10 METHOD: CLP-2A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | G-BHC | 36416 | 2.178 | 0.018 | 36416 | VB | 5.75 |
| 2 | ALDRIN | 40617 | 4.365 | 0.025 | 40617 | BB | ? 11.65 |
| 3 | HEPT EPOX | 40213 | 5.340 | 0.030 | 40213 | BB | 13.90 |
| 4 | A-ENDOSULF | 38674 | 6.664 | 0.034 | 38674 | BV | 17.25 |
| 5 | ~~DDE~~/DIELD. | 42163 | 7.807 | 0.037 | 42163 | VV | 20.05 |
| 6 | B-ENDOSULF | 37415 | 8.920 | 0.030 | 37415 | VV | 23.00 |
| 7 | ENDRIN ALD | 32822 | 9.850 | 0.010 | 32822 | VV | 28.30 |
| 8 | DDT | 27664 | 12.899 | 0.039 | 27664 | VV | ? 32.10 |
| 9 | END KETONE | 38335 | 14.769 | 0.039 | 38335 | VB | 37.25 |
| 10 | DBC | 38267 | 26.577 | 0.047 | 38267 | BB | ? 69.30 |
| TOTALS: | | 372586 | | 0.309 | 372586 | | |

DETECTED PKS: 14 REJECTED PKS: 4

DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 6.1 OFFSET: -18

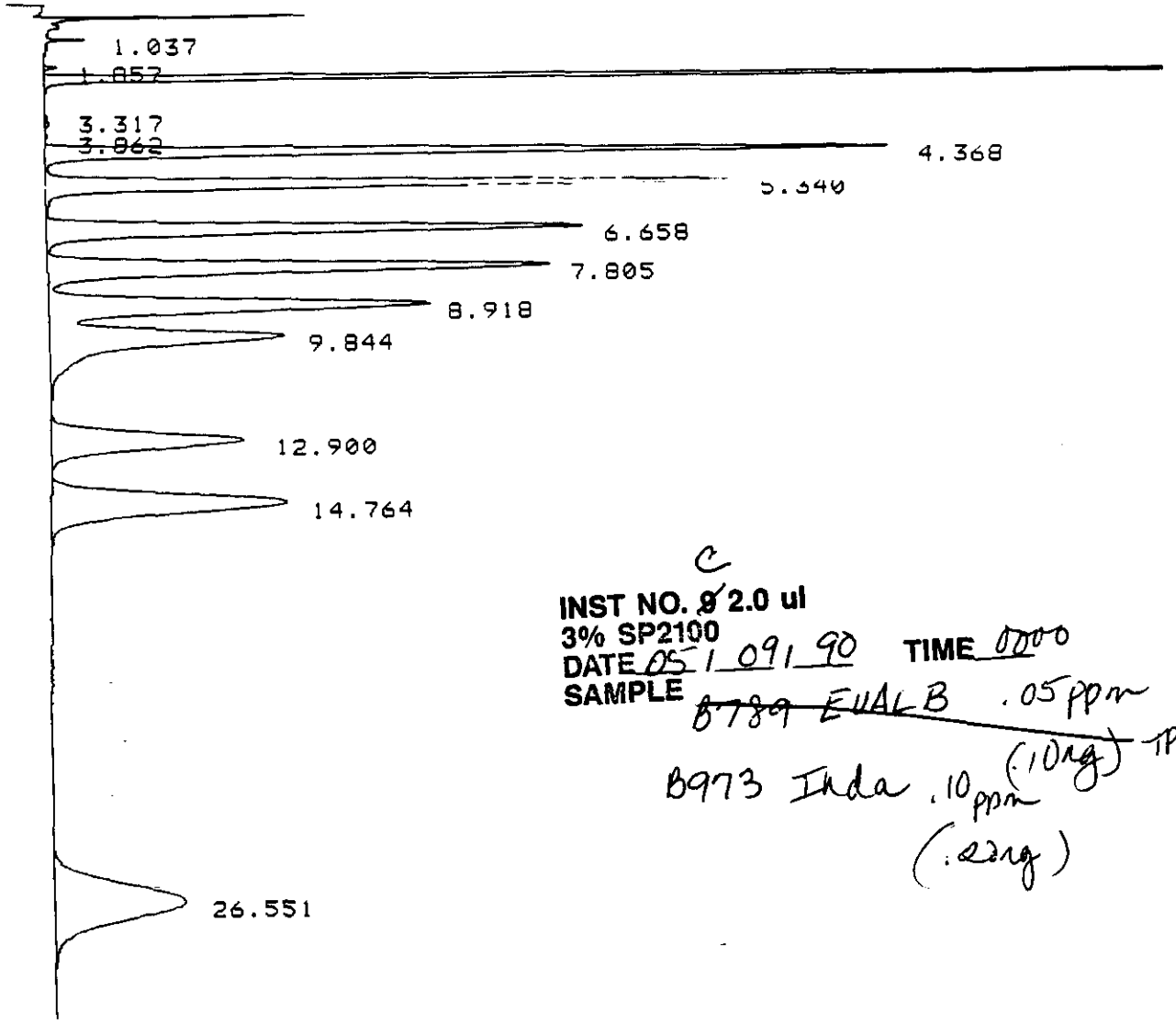
RACK: 3 VIAL: 4 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
T= OUTSIDE RETENTION TIME WINDOW
GIHARL 2534 WATER PEST/CLP

100213

ORIGINAL (Red)

CHART SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%




INST NO. ~~9~~ C 2.0 ul
3% SP2100
DATE 05 / 09 / 90 TIME 0000
SAMPLE ~~B789 EVAL B~~ .05 ppm (.10ng) TPH
B973 Inda .10 ppm (.22ng)

100214

tm /sunnyvale,calif p/n 03-906362-00

TITLE: CLP PESTICIDES 0:00 9 MAY 90

CHANNEL NO: 2 SAMPLE: B973 INDA.10 METHOD: CLP-2A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | G-BHC | 32205 | 2.183 | 0.023 | 32205 | VB | 5.70 |
| 2 | ALDRIN | 36165 | 4.368 | 0.028 | 36165 | VV | 11.50 |
| 3 | HEPT EPOX | 36204 | 5.340 | 0.030 | 36204 | VV | 13.90 |
| 4 | A-ENDOSULF | 34459 | 6.658 | 0.028 | 34459 | VV | ? 17.30 |
| 5 | ~~DDE~~/DIELD. | 37235 | 7.805 | 0.035 | 37235 | VV | 19.95 |
| 6 | B-ENDOSULF | 32997 | 8.918 | 0.028 | 32997 | VV | 23.10 |
| 7 | ENDRIN ALD | 27764 | 9.844 | 0.004 | 27764 | VB | 28.50 |
| 8 | DDT | 22735 | 12.900 | 0.040 | 22735 | BV | 31.60 |
| 9 | END KETONE | 32717 | 14.764 | 0.034 | 32717 | VB | 36.95 |
| 10 | DBC | 33813 | 26.551 | 0.021 | 33813 | BB | ? 68.95 |
| TOTALS: | | 326294 | | 0.271 | 326294 | | |

DETECTED PKS: 17 REJECTED PKS: 7

DIVISOR: 1.00000 MULTIPLIER: 10000.0

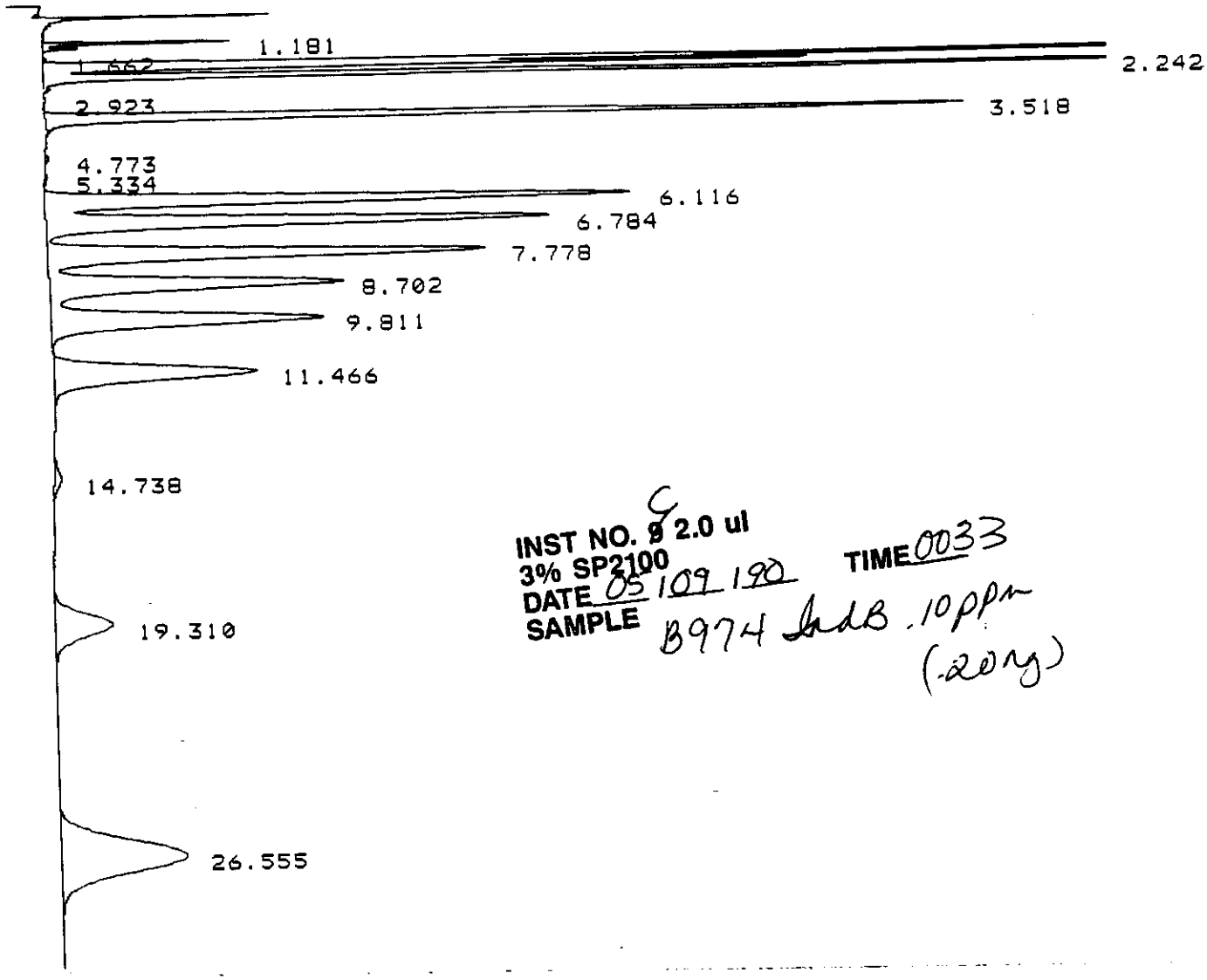
NOISE: 4.9 OFFSET: -14

RACK: 3 VIAL: 10 INJ: 1

NOTES:
STRUMENT ID: C
LUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIHARL 2534 WATER PEST/CLP

ORIGINAL (Red)

CHART SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%




INST NO. ~~9~~ C 2.0 ul
3% SP2100
DATE 05 / 09 / 90 TIME 0033
SAMPLE B974 IndB .10ppm (.20ng)

... /sunnyvale calif p/n 03-906362-00

TITLE: CLP PESTICIDES 0:33 9 MAY 90

CHANNEL NO: 2 SAMPLE: B974 INDB.10 METHOD: CLP-2A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 2403 | 1.181 | | 2403 | BV | | 3.10 |
| 2 | A-BHC | 35836 | 1.852 | 0.022 | 35836 | VV | | 4.95 |
| 3 | B-BHC | 15251 | 1.979 | 0.019 | 15251 | VV | ? | 6.05 |
| 4 | D-BHC | 32946 | 2.242 | 0.022 | 32946 | VV | | 5.85 |
| 5 | HEPTACHLOR | 33793 | 3.518 | 0.018 | 33793 | BB | ? | 7.65 |
| 6 | G-CHLORDAN | 36375 | 6.116 | 0.026 | 36375 | BV | | 15.95 |
| 7 | A-CHLORDAN | 35183 | 6.784 | 0.024 | 35183 | VV | | 17.75 |
| 8 | DDE/~~DIELD~~. | 33643 | 7.778 | 0.008 | 33643 | VV | | 19.70 |
| 9 | ENDRIN | 26364 | 8.702 | 0.022 | 26364 | VV | | 22.75 |
| 10 | DDD | 26568 | 9.811 | 0.021 | 26568 | VV | | 24.75 |
| 11 | ESS | 22878 | 11.466 | 0.016 | 22878 | VB | | 29.30 |
| 12 | ~~END KETONE~~ | 1319 | 14.738 | 0.008 | 1319 | BB | | 36.00 |
| 13 | METHOXYCHL | 10936 | 19.310 | 0.020 | 10936 | BB | | 47.20 |
| 14 | DBC | 34414 | 26.555 | 0.025 | 34414 | BB | ? | 69.55 |
| TOTALS: | | 347909 | | 0.251 | 347909 | | | |

DETECTED PKS: 20 REJECTED PKS: 6

DIVISOR: 1.00000 MULTIPLIER: 10000.0

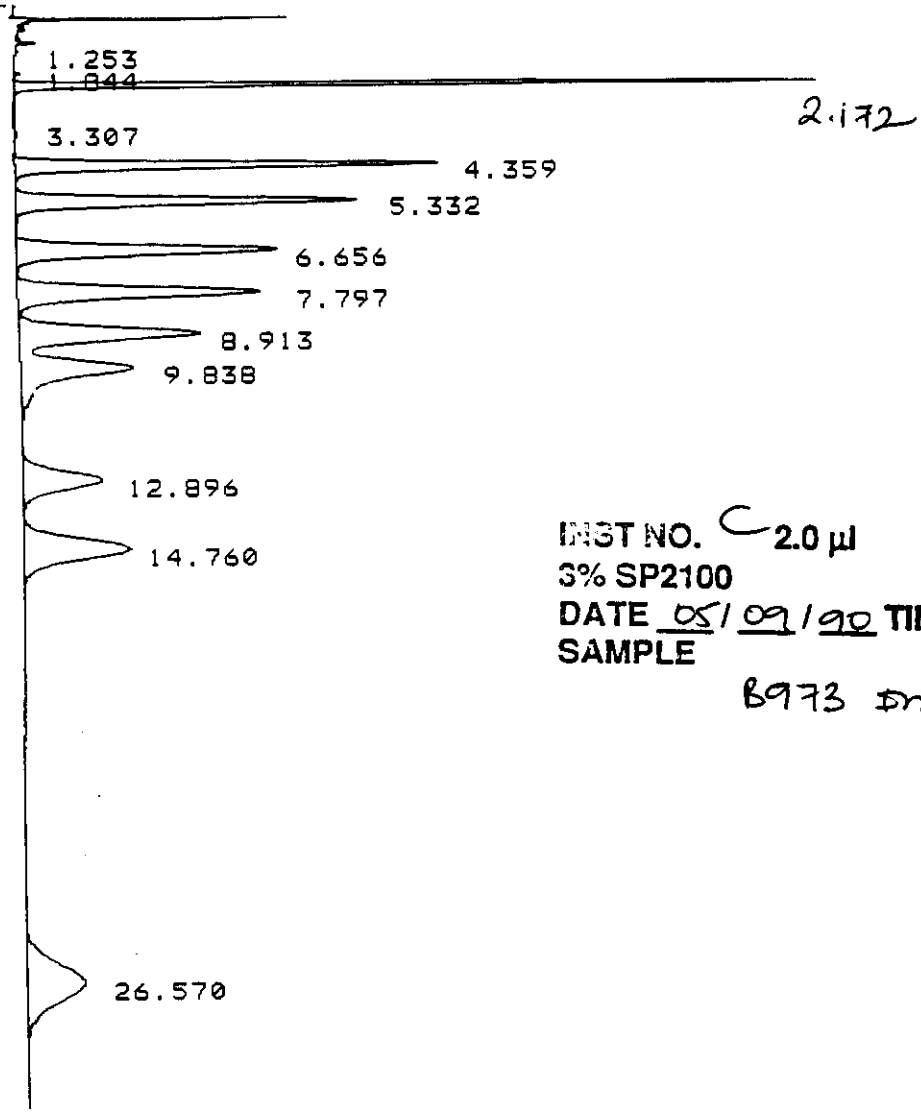
F GE: 4.9 OFFSET: -15

RACK: 3 VIAL: 11 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIHARL 2534 WATER PEST/CLP

CHART SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%

ORIGINAL (Red)




INST NO. C 2.0 µl
3% SP2100
DATE 05/09/90 TIME 1614
SAMPLE
B973 DNDA 0.20 ng
(0.10 ppm)

varian /sunnyvale,calif.p/n 03-906362-00

ORIGINAL

TITLE: CLP PESTICIDES 16:14 9 MAY 90

CH .EL NO: 2 SAMPLE: B973 INDA.10 METHOD: CLP-2A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | G-BHC | 15256 | 2.172 | 0.012 | 15256 | VB | 5.50 |
| 2 | ALDRIN | 16320 | 4.359 | 0.019 | 16320 | BB | ? 11.30 |
| 3 | HEPT EPOX | 15866 | 5.332 | 0.022 | 15866 | BB | 13.60 |
| 4 | A-ENDOSULF | 15090 | 6.656 | 0.026 | 15090 | BV | 16.95 |
| 5 | ~~DDE~~/DIELD. | 16433 | 7.797 | 0.027 | 16433 | VV | 19.80 |
| 6 | B-ENDOSULF | 14152 | 8.913 | 0.023 | 14152 | VV | 23.05 |
| 7 | ENDRIN ALD | 11842 | 9.838 | -0.002 | 11842 | VB | 28.15 |
| 8 | DDT | 8864 | 12.896 | 0.036 | 8864 | BV | 31.60 |
| 9 | END KETONE | 13610 | 14.760 | 0.030 | 13610 | VB | 36.55 |
| 10 | DBC | 14010 | 26.570 | 0.040 | 14010 | BB | ? 68.90 |
| TOTALS: | | 141443 | | 0.233 | 141443 | | |

DETECTED PKS: 17 REJECTED PKS: 7

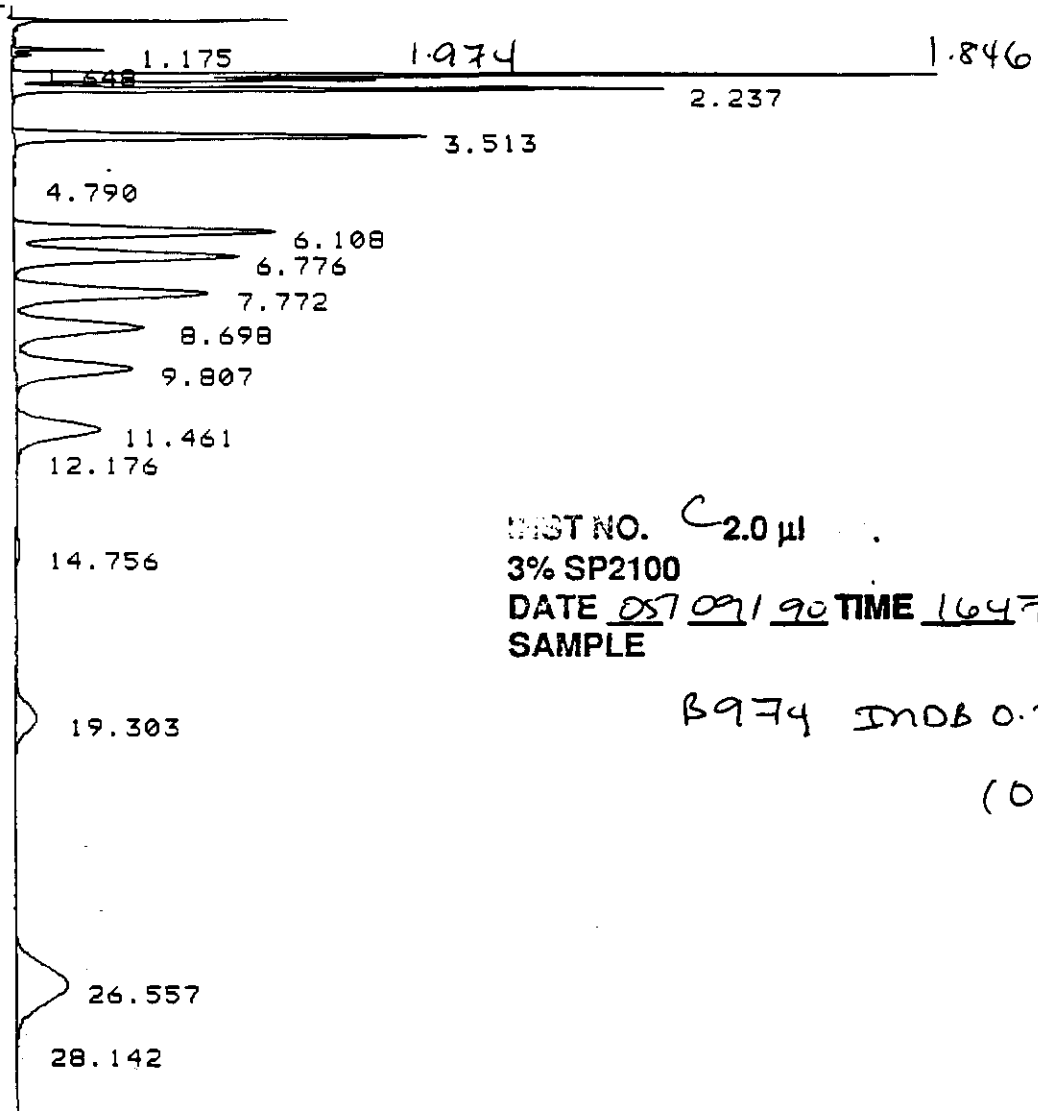
ISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 4.9 OFFSET: -8

RACK: 4 VIAL: 7 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
* OUTSIDE RETENTION TIME WINDOW
.IHARL 2534 WATER PEST/CLP

CHART SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%




INST NO. C 2.0 µl
3% SP2100
DATE 05/09/90 TIME 1647
SAMPLE

B974 INDB 0.20 ng
(0.10 ppm)

varian /sunnyvale, calif. p/n 03-908362-00

100220

TITLE: CLP PESTICIDES 16:47 9 MAY 90

CHANNEL NO: 2 SAMPLE: B974 INDB.10 METHOD: CLP-2A

| PE N | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 984 | 1.175 | | 984 | BV | | 3.00 |
| 2 | A-BHC | 14760 | 1.846 | 0.016 | 14760 | VV | | 4.70 |
| 3 | B-BHC | 6177 | 1.974 | 0.014 | 6177 | VV | ? | 5.80 |
| 4 | D-BHC | 12876 | 2.237 | 0.017 | 12876 | VB | | 5.65 |
| 5 | HEPTACHLOR | 13038 | 3.513 | 0.013 | 13038 | BB | ? | 9.10 |
| 6 | G-CHLORDAN | 13958 | 6.108 | 0.018 | 13958 | BV | ? | 15.55 |
| 7 | A-CHLORDAN | 13442 | 6.776 | 0.016 | 13442 | VV | ? | 17.55 |
| 8 | DDE/~~DIELD~~. | 12831 | 7.772 | 0.002 | 12831 | VV | | 19.35 |
| 9 | ENDRIN | 10003 | 8.698 | 0.018 | 10003 | VV | | 22.55 |
| 10 | DDD | 10038 | 9.807 | 0.017 | 10038 | VV | | 24.85 |
| 11 | ESS | 8457 | 11.461 | 0.011 | 8457 | VV | ? | 29.50 |
| 12 | METHOXYCHL | 3472 | 19.303 | 0.013 | 3472 | BB | | 47.20 |
| 13 | DBC | 12298 | 26.557 | 0.027 | 12298 | BV | ? | 69.95 |
| TOTALS: | | 132334 | | 0.182 | 132334 | | | |

DETECTED PKS: 19 REJECTED PKS: 6

ISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 4.9 OFFSET: -8

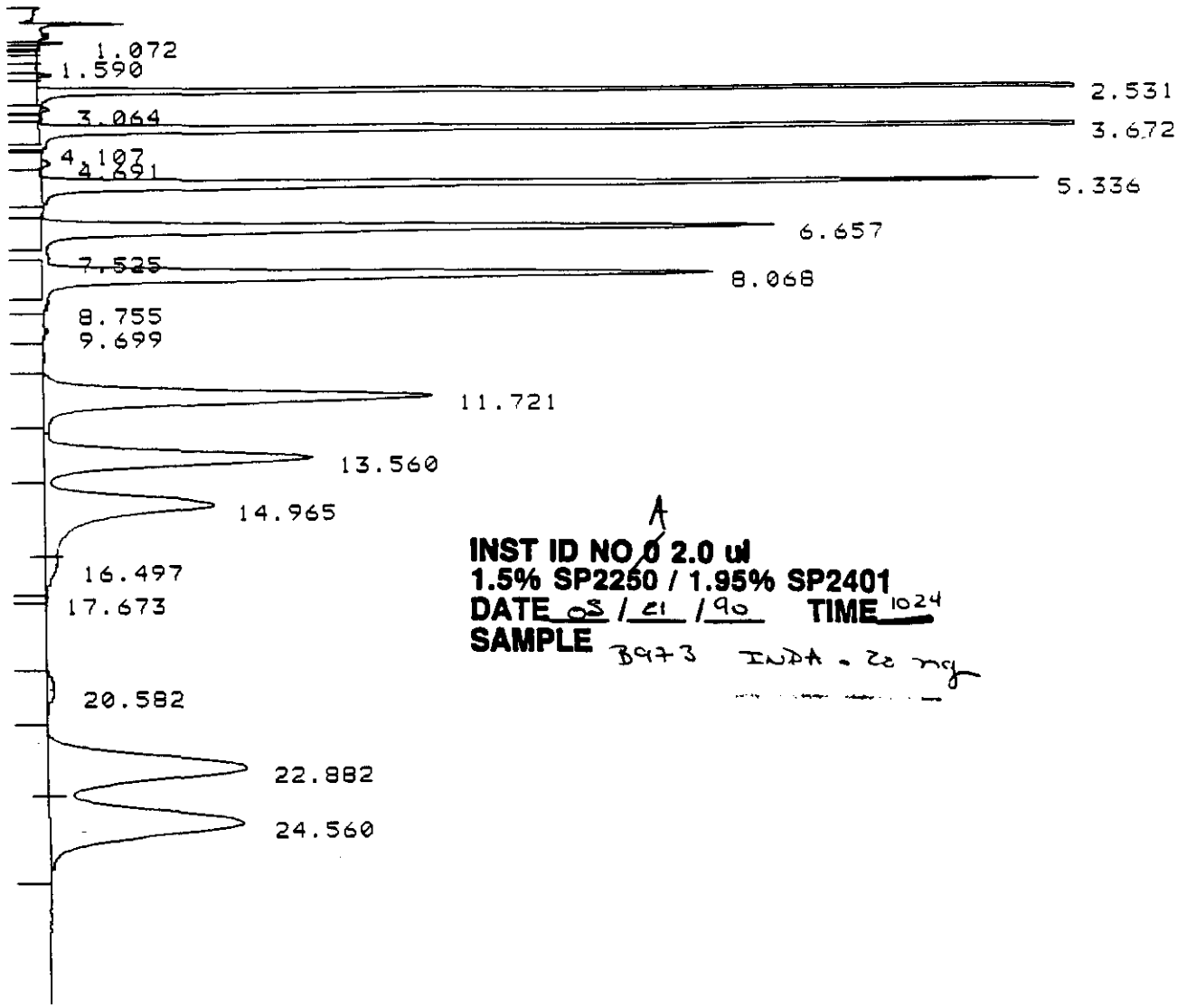
RACK: 4 VIAL: 8 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
* OUTSIDE RETENTION TIME WINDOW
GIHARL 2534 WATER PEST/CLP

362-01

ORIGINAL

CHART SPEED 0.5 CM/MIN
ATTN: 16 ZERO: 10%




**INST ID NO 0 2.0 ul**
**1.5% SP2250 / 1.95% SP2401**
**DATE** 05 / 21 / 90 **TIME** 1024
**SAMPLE** B973 INDA - 20 mg

TIT : CLP PESTICIDES 10:24 21 MAY 90

CHANNEL NO: 3 SAMPLE: B973 INDA.10 METHOD: CLP-3A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 888 | 1.072 | | 888 | BV | | 2.35 |
| 2 | ~~A-BHC~~ | 988 | 2.040 | -0.040 | 988 | BV | | 4.15 |
| 3 | G-BHC | 178282 | 2.531 | -0.049 | 178282 | VV | | 5.10 |
| 4 | ~~HEPTACHLOR~~ | 663 | 3.064 | -0.056 | 663 | T | ? | 9.45 |
| 5 | ALDRIN | 175332 | 3.672 | -0.068 | 175332 | VV | ? | 4.80 |
| 6 | | 1192 | 4.691 | | 1192 | T | ? | 15.05 |
| 7 | HEPT EPOX | 164573 | 5.336 | -0.104 | 164573 | VB | | 10.80 |
| 8 | ~~A-CHLORDANE~~ | 154038 | 6.657 | 0.117 | 154038 | BV | | 13.65 |
| 9 | DIELDRIN | 171905 | 8.068 | -0.152 | 171905 | VV | | 16.55 |
| 10 | ~~ENDRIN~~ | 689 | 9.699 | -0.261 | 689 | T | ? | 17.90 |
| 11 | ~~DDD~~ ENDO B | 148723 | 11.721 | 0.201 | 148723 | BV | | 24.45 |
| 12 | DDT | 112767 | 13.560 | -0.260 | 112767 | VV | | 27.55 |
| 13 | ENDRIN ALD | 103980 | 14.965 | -0.305 | 103980 | VV | | 35.15 |
| 14 | | 6315 | 16.497 | | 6315 | VV | ? | 81.50 |
| 5 | | 5062 | 20.582 | | 5062 | BV | | 44.40 |
| 6 | DBC | 139844 | 22.882 | -0.458 | 139844 | VV | | 47.20 |
| 17 | ENDRIN KET | 147486 | 24.560 | -0.500 | 147486 | VB | | 50.95 |
| TOTALS: | | 1512730 | | -1.935 | 1512730 | | | |

DETECTED PKS: 24 REJECTED PKS: 7

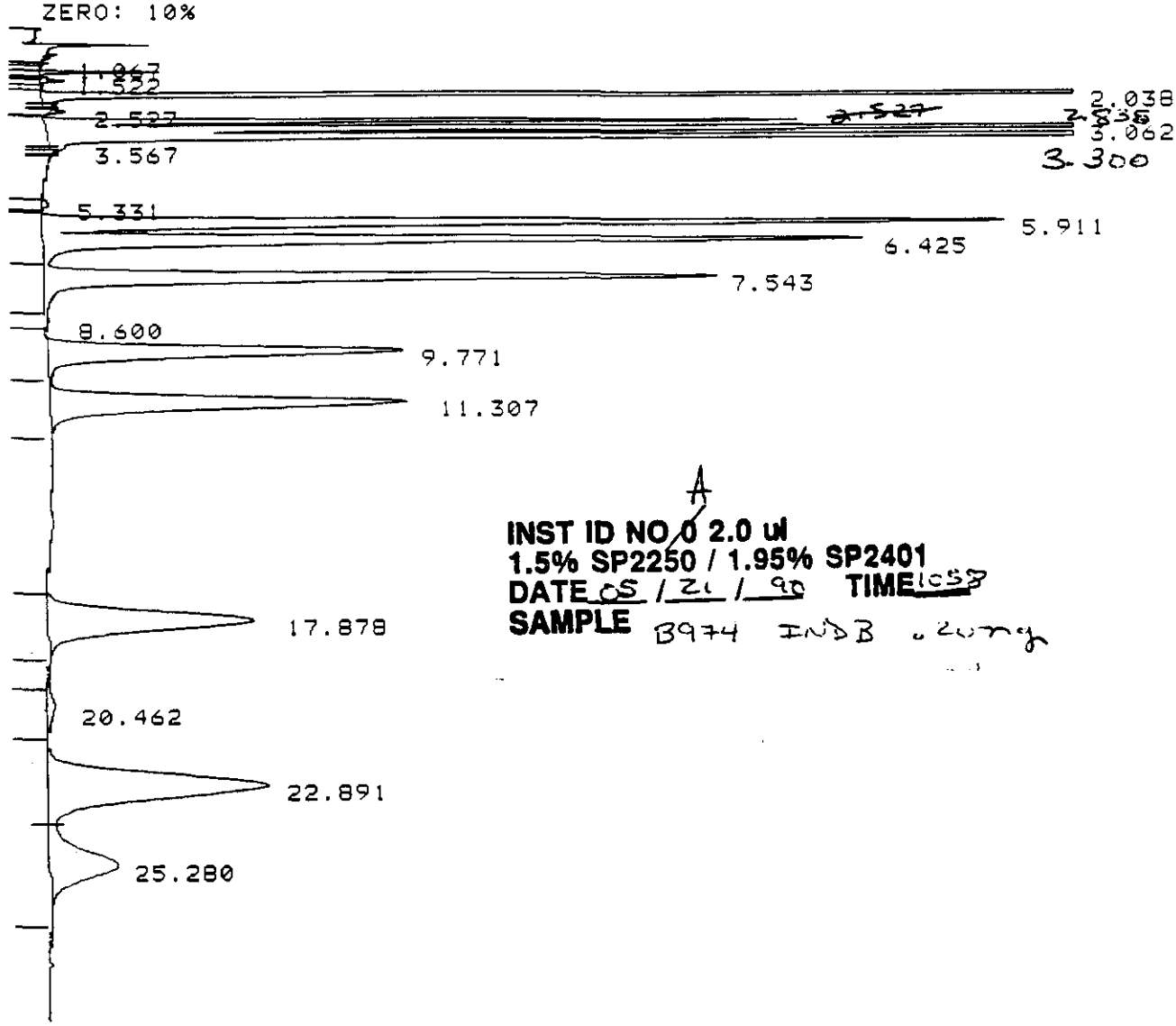
DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOI : 29.1 OFFSET: -24

RACK: 1 VIAL: 7 INJ: 1

NOTES:
COL: 1.5% SP2250/1.95% SP2401
AMT INJ.2UL/INSTRUMENT LETTER A
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIBLOM CTL 2660 PEST SOILS
'ERSCDM CTL 2562 PEST SOIL

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10%




A

**INST ID NO 0 2.0 ul**
**1.5% SP2250 / 1.95% SP2401**
**DATE** 05 / 21 / 90 **TIME** 1058
**SAMPLE** B974 INDB .2ung

varian /sunnyv. alif.p/n

100224

13-9069362-01

ORIGINAL (Red)

TITLE: CLP PESTICIDES 10:58 21 MAY 90

CHANNEL NO: 3 SAMPLE: B974 INDB.10 METHOD: CLP-3A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 5528 | 1.335 | | 5528 | BV | | 3.00 |
| 2 | | 1358 | 1.600 | | 1358 | VV | | 3.90 |
| 3 | A-BHC | 237519 | 2.038 | -0.042 | 237519 | VV | ? | 2.35 |
| 4 | ~~G-BHC~~ | 1358 | 2.527 | -0.053 | 1358 | T | ? | 6.35 |
| 5 | B-BHC | 66916 | 2.835 | -0.055 | 66916 | VV | | 5.95 |
| 6 | HEPTACHLOR | 201676 | 3.062 | -0.058 | 201676 | VV | | 6.15 |
| 7 | D-BHC | 212474 | 3.300 | -0.060 | 212474 | VV | | 6.70 |
| 8 | ~~HEPT EPOX~~ | 928 | 5.331 | -0.109 | 928 | BB | | 12.70 |
| 9 | G-CHLORDAN | 175541 | 5.911 | -0.109 | 175541 | BV | | 12.00 |
| 10 | A-CHLORDAN | 171684 | 6.425 | -0.115 | 171684 | VV | | 13.35 |
| 11 | DDE | 162009 | 7.543 | -0.137 | 162009 | VV | | 15.45 |
| 12 | ENDRIN | 109768 | 9.771 | -0.189 | 109768 | VV | | 20.20 |
| 13 | DDD | 128557 | 11.307 | -0.213 | 128557 | VB | | 23.45 |
| 14 | ESS | 113235 | 17.878 | -0.372 | 113235 | BB | ? | 36.30 |
| 15 | | 4425 | 20.462 | | 4425 | BV | | 41.30 |
| 16 | DBC | 155866 | 22.891 | -0.449 | 155866 | VV | | 46.45 |
| 17 | ~~ENDRIN KET~~ methoxychlor | 58370 | 25.280 | 0.220 | 58370 | VB | | 54.95 |
| TOTALS: | | 1807210 | | -1.741 | 1807210 | | | |

DETECTED PKS: 24 REJECTED PKS: 7

DIVISOR: 1.00000 MULTIPLIER: 10000.0

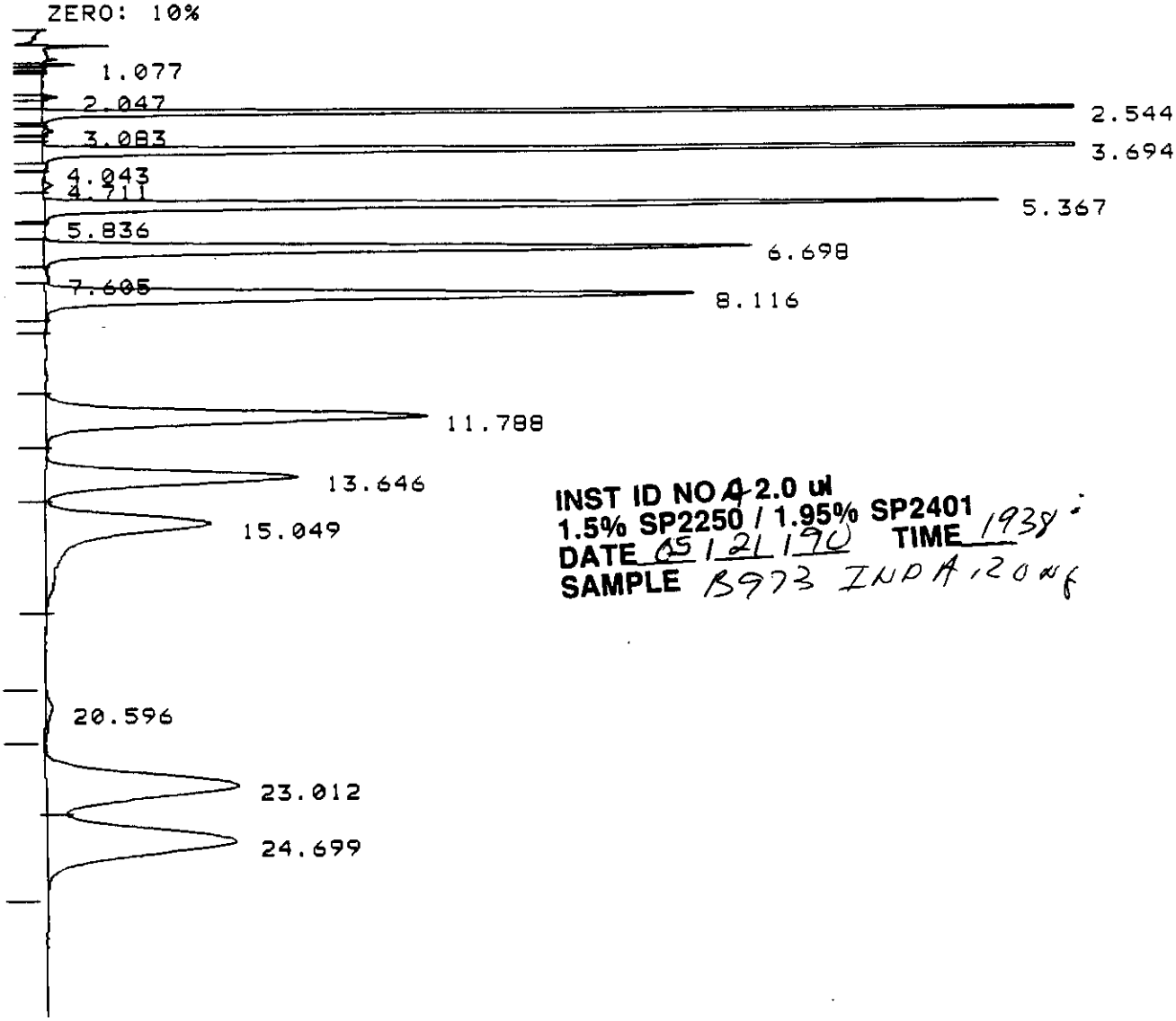
NOISE: 29.1 OFFSET: -19

RACK: 1 VIAL: 8 INJ: 1

NOTES:
COL: 1.5% SP2250/1.95% SP2401
AMT INJ.2UL/INSTRUMENT LETTER A
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIBLOM CTL 2660 PEST SOILS
VERSCDM CTL 2562 PEST SOIL

ORIGINAL (Red)

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10%




INST ID NO 4 2.0 ul
1.5% SP2250 / 1.95% SP2401
DATE 05/21/90 TIME 1938
SAMPLE B973 IND A 120 ng

100226

TITLE: CLP PESTICIDES 19:38 21 MAY 90

CHANNEL NO: 3 SAMPLE: B973 INDA.10 METHOD: CLP-3A

| F NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 1111 | 1.077 | | 1111 | BB | | 2.40 |
| 2 | A-BHC | 1023 | 2.047 | -0.033 | 1023 | BB | | 4.55 |
| 3 | G-BHC | 171491 | 2.544 | -0.036 | 171491 | BV | | 5.15 |
| 4 | ~~HEPTACHLOR~~ | 915 | 3.083 | -0.037 | 915 | T | ? | 7.95 |
| 5 | ALDRIN | 169024 | 3.694 | -0.046 | 169024 | VV | ? | 4.85 |
| 6 | | 1167 | 4.711 | | 1167 | T | | 10.00 |
| 7 | HEPT EPOX | 160023 | 5.367 | -0.073 | 160023 | VV | | 10.95 |
| 8 | A-ENDOSULF | 150559 | 6.698 | -0.092 | 150559 | BV | | 13.75 |
| 9 | DIELDRIN | 165946 | 8.116 | -0.104 | 165946 | VB | ? | 13.90 |
| 10 | B-ENDOSULF | 146314 | 11.788 | -0.162 | 146314 | BV | | 24.40 |
| 11 | DDT | 107041 | 13.646 | -0.174 | 107041 | VV | | 27.45 |
| 12 | ENDRIN ALD | 104286 | 15.049 | -0.221 | 104286 | VB | | 34.25 |
| 13 | | 5672 | 20.596 | | 5672 | BV | | 41.60 |
| 14 | DBC | 138284 | 23.012 | -0.328 | 138284 | VV | | 46.75 |
| 15 | ENDRIN KET | 147060 | 24.699 | -0.361 | 147060 | VB | | 50.60 |
| TOTALS: | | 1469920 | | -1.667 | 1469920 | | | |

DETECTED PKS: 22 REJECTED PKS: 7

DIVISOR: 1.00000 MULTIPLIER: 10000.0

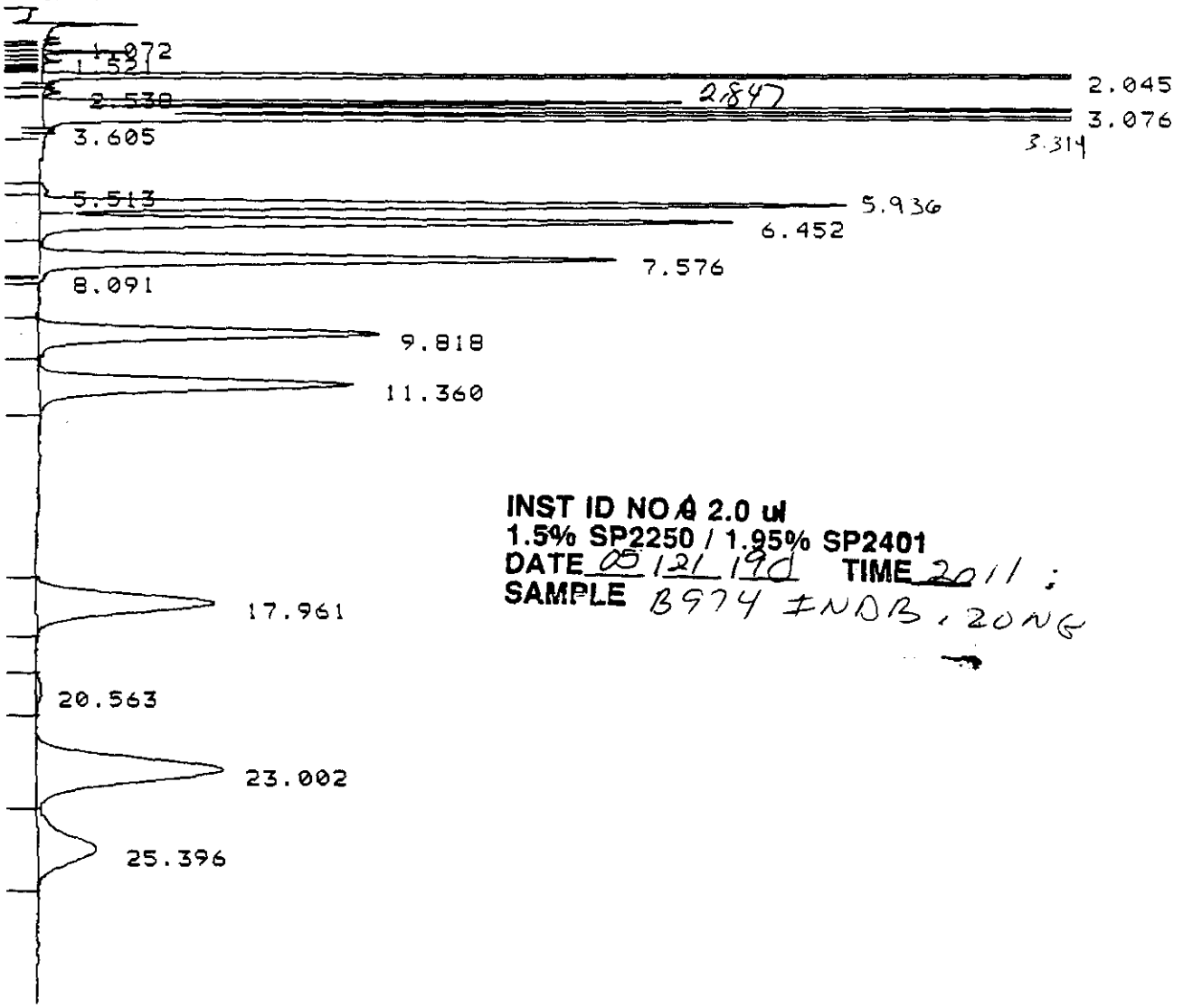
NOISE: 29.1 OFFSET: -36

RACK: 3 VIAL: 1 INJ: 1

NOTES:
OL: 1.5% SP2250/1.95% SP2401
MT INJ.2UL/INSTRUMENT LETTER A
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIBLOM CTL 2660 PEST SOILS
VERSCDM CTL 2562 PEST SOIL

varian /sunnyvale,calif.p/n

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10%




**INST ID NO 0 2.0 ul**
**1.5% SP2250 / 1.95% SP2401**
**DATE** 05/21/90 **TIME** 2011 ;
**SAMPLE** B974 INDB, ZONG

varian /sunnyvale, calif.p/n 0_ _6362-01

TITLE: CLP PESTICIDES 20:11 21 MAY 90

CHANNEL NO: 3 SAMPLE: B974 INDB.10 METHOD: CLP-3A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 638 | 1.072 | | 638 | BB | | 2.40 |
| 2 | | 4161 | 1.339 | | 4161 | BV | | 3.00 |
| | | 1129 | 1.607 | | 1129 | VV | | 3.70 |
| | A-BHC | 194837 | 2.045 | -0.035 | 194837 | BV | | 4.10 |
| 5 | ~~G-BH~~C | 1299 | 2.538 | -0.042 | 1299 | T | | 6.30 |
| 6 | B-BHC | 57595 | 2.847 | -0.043 | 57595 | VV | | 6.05 |
| 7 | HEPTACHLOR | 169107 | 3.076 | -0.044 | 169107 | VV | | 6.20 |
| 8 | D-BHC | 178017 | 3.314 | -0.046 | 178017 | VV | | 6.80 |
| 9 | ~~HEPT EPOX~~ | 1672 | 5.513 | 0.073 | 1672 | BV | ? | 10.00 |
| 10 | G-CHLORDAN | 148842 | 5.936 | -0.084 | 148842 | VV | ? | 9.10 |
| 11 | A-CHLORDAN | 143218 | 6.452 | -0.088 | 143218 | VV | | 13.40 |
| 12 | DDE | 135380 | 7.576 | -0.104 | 135380 | VV | ? | 15.55 |
| 13 | ENDRIN | 105408 | 9.818 | -0.142 | 105408 | BV | | 20.20 |
| 14 | DDD | 111756 | 11.360 | -0.160 | 111756 | VB | | 23.30 |
| 15 | ESS | 98498 | 17.961 | -0.289 | 98498 | BB | ? | 36.70 |
| 16 | | 3911 | 20.563 | | 3911 | BV | | 42.35 |
| 17 | DBC | 134337 | 23.002 | -0.338 | 134337 | VV | | 46.90 |
| 18 | METHOXYCHL | 49723 | 25.396 | -0.314 | 49723 | VB | | 54.40 |
| TOTALS: | | 1539530 | | -1.656 | 1539530 | | | |

DETECTED PKS: 24 REJECTED PKS: 6

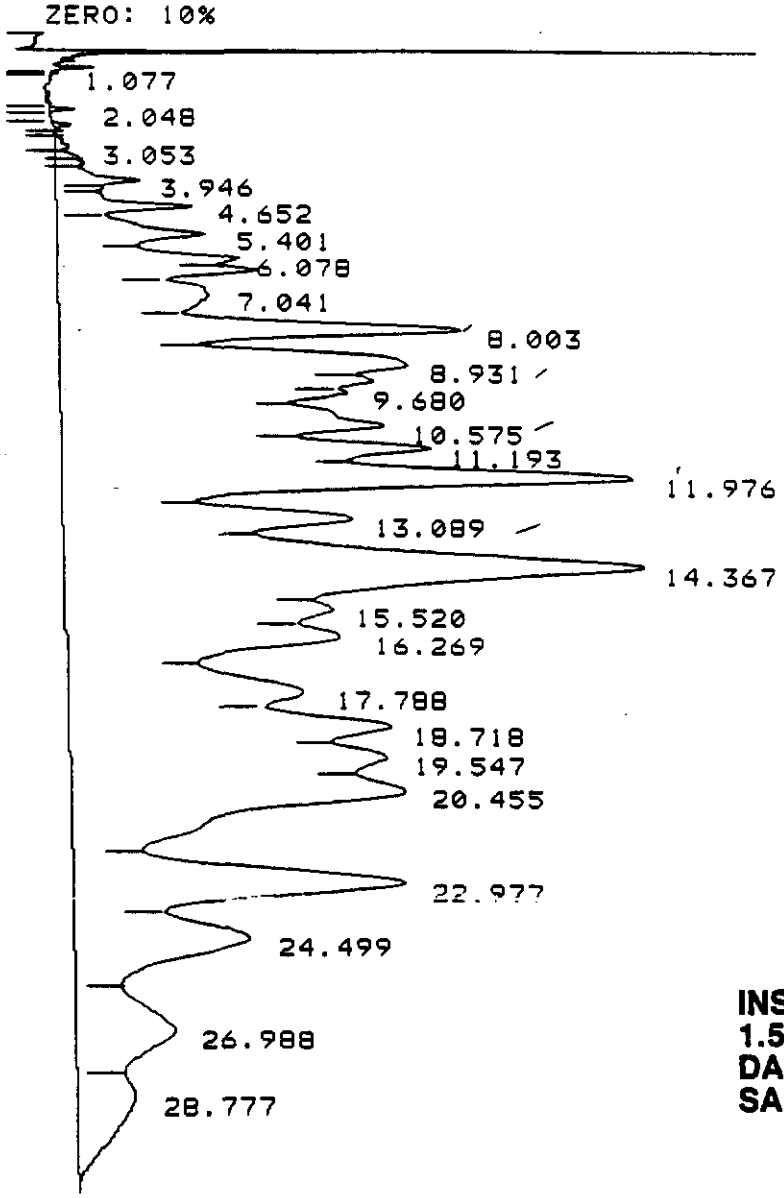
DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 29.1 OFFSET: -21

RACK: 3 VIAL: 2 INJ: 1

NOTES:
COL: 1.5% SP2250/1.95% SP2401
AMT INJ.2UL/INSTRUMENT LETTER A
* OUTSIDE RETENTION TIME WINDOW
.IBLOM CTL 2660 PEST SOILS
VERSCDM CTL 2562 PEST SOIL

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10%




INST ID NO. A 2.0 ul
1.5% SP2250 / 1.95% SP2401
DATE 05 / 05 / 90 TIME 1246
SAMPLE B767 Toxaph

100230

TITLE: CLP PESTICIDES 12:46 5 MAY 90

CHANNEL NO: 3 SAMPLE: B767 TOXAPH METHOD: CLP-3A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | A-BHC | 1556 | 2.048 | -0.032 | 1556 | BB | 4.35 |
| 2 | | 1624 | 2.467 | | 1624 | BB | 7.85 |
| 3 | HEPTACHLOR | 2558 | 3.053 | -0.067 | 2558 | BV | ? 13.20 |
| 4 | D-BHC | 2928 | 3.317 | -0.043 | 2928 | VV | ? 11.80 |
| 5 | | 3794 | 3.469 | | 3794 | VV | ? 8.70 |
| 6 | | 19386 | 3.946 | | 19386 | VV | ? 14.70 |
| 7 | | 5238 | 4.101 | | 5238 | VV | ? |
| 8 | | 33831 | 4.652 | | 33831 | VV | ? 15.45 |
| 9 | HEPT EPOX | 59290 | 5.401 | -0.039 | 59290 | VV | ? 14.10 |
| 10 | G-CHLORDAN | 52249 | 6.078 | 0.058 | 52249 | VV | ? 29.80 |
| 11 | A-CHLORDAN | 49532 | 6.386 | -0.154 | 49532 | VV | ? 14.55 |
| 12 | | 93146 | 7.041 | | 93146 | VV | ? 28.60 |
| 13 | DIELDRIN | 163554 | 8.003 | -0.217 | 163554 | VV | ? 27.25 |
| | | 182082 | 8.931 | | 182082 | VV | ? 53.20 |
| | | 83642 | 9.360 | | 83642 | VV | ? 10.90 |
| 16 | ENDRIN | 75836 | 9.680 | -0.280 | 75836 | VV | ? 5.45 |
| 17 | | 185507 | 10.575 | | 185507 | VV | ? 57.50 |
| 18 | DDD | 153116 | 11.193 | -0.327 | 153116 | VV | ? 35.60 |
| 19 | B-ENDOSULF | 296244 | 11.976 | 0.026 | 296244 | VV | ? 45.10 |
| 20 | | 148988 | 13.089 | | 148988 | VV | ? 49.80 |
| 21 | | 499488 | 14.367 | | 499488 | VV | ? 72.55 |
| 22 | ENDRIN ALD | 118887 | 15.520 | 0.250 | 118887 | VV | ? 20.50 |
| 23 | | 177844 | 16.269 | | 177844 | VV | ? 29.95 |
| 24 | ESS | 170527 | 17.788 | -0.462 | 170527 | VV | ? 81.50 |
| 25 | | 196393 | 18.718 | | 196393 | VV | ? 58.60 |
| 26 | | 189741 | 19.547 | | 189741 | VV | ? 42.90 |
| 27 | | 318638 | 20.455 | | 318638 | VV | ? 96.85 |
| 28 | DBC | 245737 | 22.977 | -0.363 | 245737 | VV | 55.40 |
| 29 | ENDRIN KET | 169542 | 24.499 | -0.561 | 169542 | VV | ? 88.20 |
| 30 | | 129366 | 26.988 | | 129366 | VV | ?116.70 |
| 31 | | 77945 | 28.777 | | 77945 | VB | ? 62.25 |
| TOTALS: | | 3908210 | | -2.211 | 3908210 | | |

DETECTED PKS: 32 REJECTED PKS: 1

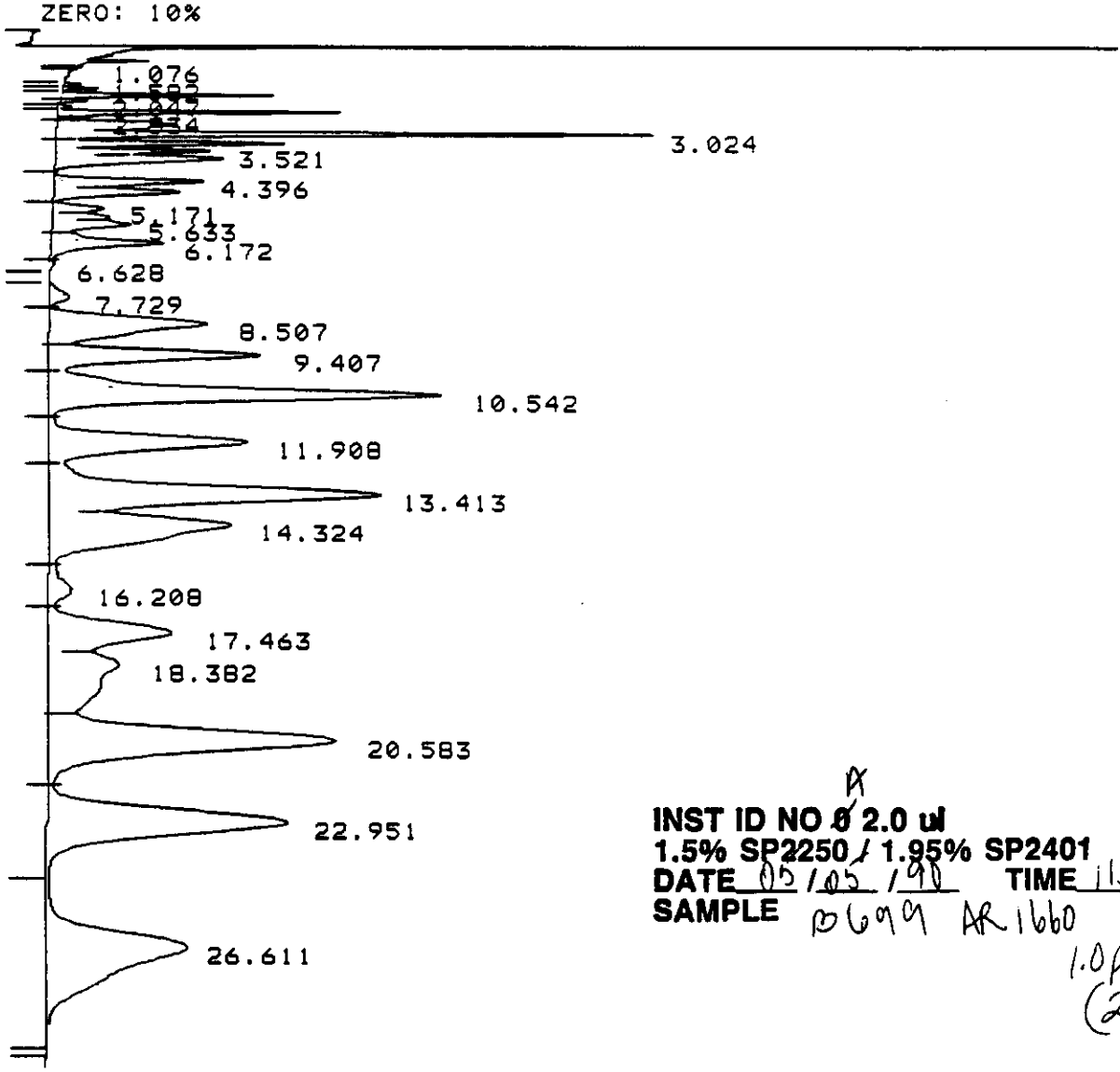
DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 43.7 OFFSET: -23

RACK: 1 VIAL: 10 INJ: 1

N[illegible]S:
[illegible]L: 1.5% SP2250/1.95% SP2401
AMT INJ.2UL/INSTRUMENT LETTER A
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIALBA CTL#'S 2521,2544 PEST SOILS
ENGIHARL CTL# 2534,2542 PEST SOILS & H2O'S
VERSCDM CTL# 2565 PEST SOIL

CHART SPEED 0.5 CM/MIN
A ATTEN: 16 ZERO: 10%




INST ID NO Ø 2.0 ul
1.5% SP2250 / 1.95% SP2401
DATE 05 / 05 / 98 TIME 1137
SAMPLE 0699 AR1660
1.0ppm
(2.0ng)

100232

TITLE: CLP PESTICIDES 11:37 5 MAY 90

CHANNEL NO: 3 SAMPLE: B699 AR1660 METHOD: CLP-3A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 964 | 1.582 | | 964 | BV | | 3.70 |
| 2 | | 1845 | 1.699 | | 1845 | VV | | 3.45 |
| 3 | | 14677 | 1.902 | | 14677 | VV | | 4.40 |
| 4 | A-BHC | 1820 | 2.047 | -0.033 | 1820 | VV | | 4.25 |
| 5 | | 784 | 2.216 | | 784 | VV | | 3.95 |
| 6 | | 21124 | 2.386 | | 21124 | VV | | 5.10 |
| 7 | G-BHC | 2061 | 2.534 | -0.046 | 2061 | VV | ? | 2.90 |
| 8 | | 22614 | 2.762 | | 22614 | VV | ? | 5.70 |
| 9 | | 56264 | 3.024 | | 56264 | VV | | 6.45 |
| 10 | D-BHC | 25040 | 3.298 | -0.062 | 25040 | VV | | 7.55 |
| 11 | | 16939 | 3.521 | | 16939 | VV | | 9.20 |
| | ALDRIN | 31120 | 3.735 | -0.005 | 31120 | VV | | 14.05 |
| | | 23899 | 4.396 | | 23899 | VV | | 11.60 |
| 14 | | 22012 | 4.698 | | 22012 | VV | | 13.35 |
| 15 | | 8683 | 5.171 | | 8683 | VV | ? | 11.00 |
| 16 | HEPT EPOX | 8479 | 5.434 | -0.006 | 8479 | VV | ? | 13.30 |
| 17 | | 15140 | 5.633 | | 15140 | VV | ? | 17.05 |
| 18 | G-CHLORDAN | 27552 | 6.172 | 0.152 | 27552 | VV | | 13.55 |
| 19 | DDE | 6869 | 7.729 | 0.049 | 6869 | BV | | 21.45 |
| 20 | | 68342 | 8.507 | | 68342 | VV | | 31.75 |
| 21 | | 62612 | 9.407 | | 62612 | VV | | 20.10 |
| 22 | | 141789 | 10.542 | | 141789 | VV | | 22.45 |
| 23 | B-ENDOSULF | 82624 | 11.908 | -0.042 | 82624 | VV | | 27.75 |
| 24 | DDT | 154816 | 13.413 | -0.407 | 154816 | VV | | 30.40 |
| 25 | | 117862 | 14.324 | | 117862 | VV | | 49.10 |
| 26 | | 14675 | 16.208 | | 14675 | VV | | 34.75 |
| 27 | | 71981 | 17.463 | | 71981 | VV | | 39.75 |
| 28 | ESS | 76956 | 18.382 | 0.132 | 76956 | VV | ? | 96.30 |
| 29 | | 185747 | 20.583 | | 185747 | VV | | 42.55 |
| 30 | DBC | 167364 | 22.951 | -0.389 | 167364 | VV | | 46.60 |
| 31 | | 155119 | 26.611 | | 155119 | VB | | 69.65 |
| TOTALS: | | 1607770 | | -0.657 | 1607770 | | | |

DETECTED PKS: 33 REJECTED PKS: 2

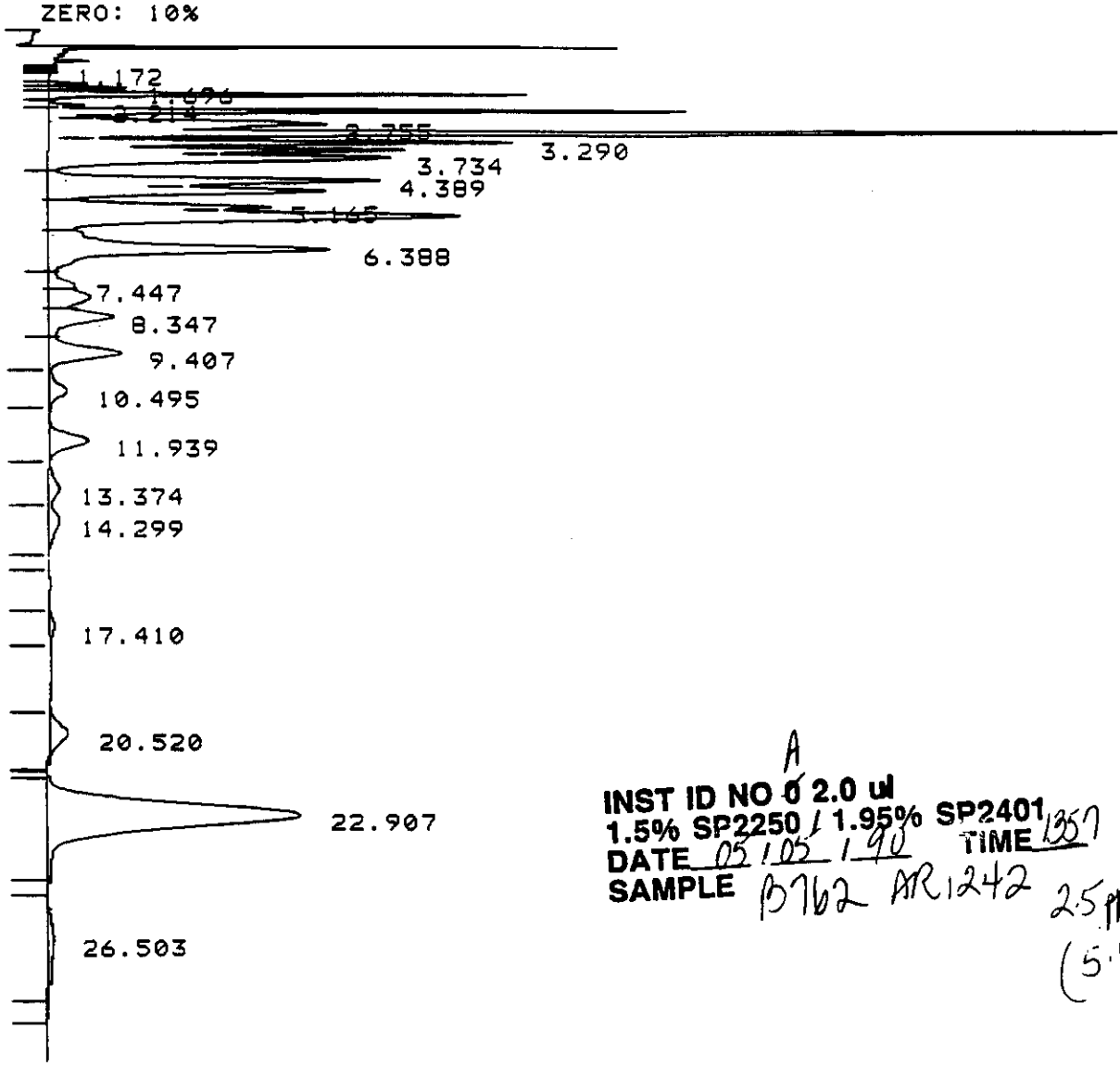
DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 43.7 OFFSET: -19

RU 1 VIAL: 11 INJ: 1

NOTES:
COL: 1.5% SP2250/1.95% SP2401
AMT INJ.2UL/INSTRUMENT LETTER A
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIALBA CTL#'S 2521,2544 PEST SOILS
ENGIHARL CTL# 2534,2542 PEST SOILS & H2O'S
VERSCDM CTL# 2565 PEST SOIL

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10%




INST ID NO A 2.0 ul
1.5% SP2250 / 1.95% SP2401
DATE 05/05/90 TIME 1357
SAMPLE B762 AR1242 2.5ppm (5.0ng)

100234

TITLE: CLP PESTICIDES 13:57 5 MAY 90

CHANNEL NO: 3 SAMPLE: B762 AR1242 METHOD: CLP-3A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 2303 | 1.577 | | 2303 | BV | | 3.85 |
| 2 | | 4303 | 1.696 | | 4303 | VV | | 3.70 |
| 3 | | 34244 | 1.898 | | 34244 | VV | | 4.55 |
| 4 | | 2807 | 2.214 | | 2807 | VV | | 4.90 |
| 5 | | 49225 | 2.381 | | 49225 | VV | | 5.15 |
| 6 | G-BHC | 5093 | 2.527 | -0.053 | 5093 | VV | ? | 3.30 |
| 7 | | 51315 | 2.755 | | 51315 | VV | ? | 5.70 |
| 8 | | 128112 | 3.017 | | 128112 | VV | | 6.25 |
| 9 | D-BHC | 52226 | 3.290 | -0.070 | 52226 | VV | ? | 7.85 |
| 10 | | 39918 | 3.514 | | 39918 | VV | | 9.05 |
| 11 | ALDRIN | 65929 | 3.734 | -0.006 | 65929 | VV | ? | 14.90 |
| 12 | | 55961 | 4.389 | | 55961 | VV | | 12.30 |
| 13 | | 50497 | 4.692 | | 50497 | VV | ? | 14.15 |
| 14 | | 34874 | 5.165 | | 34874 | VV | ? | 12.30 |
| 15 | HEPT EPOX | 96809 | 5.436 | -0.004 | 96809 | VV | | 16.85 |
| 16 | A-CHLORDAN | 78371 | 6.388 | -0.152 | 78371 | VV | | 14.75 |
| 17 | | 7316 | 7.447 | | 7316 | VV | ? | 21.50 |
| 18 | DDE | 15148 | 7.773 | 0.093 | 15148 | VV | ? | 31.25 |
| 19 | DIELDRIN | 22520 | 8.347 | 0.127 | 22520 | VV | | 21.50 |
| 20 | | 25727 | 9.407 | | 25727 | VV | | 22.30 |
| 21 | | 7834 | 10.495 | | 7834 | VV | | 23.90 |
| 22 | B-ENDOSULF | 16207 | 11.939 | -0.011 | 16207 | VV | | 25.50 |
| 23 | | 6420 | 13.374 | | 6420 | VV | ? | 29.30 |
| 24 | | 7042 | 14.299 | | 7042 | VB | | 34.10 |
| 25 | | 2497 | 17.410 | | 2497 | BB | | 38.15 |
| 26 | | 11107 | 20.520 | | 11107 | BB | | 40.00 |
| 27 | DBC | 175777 | 22.907 | -0.433 | 175777 | BV | | 46.40 |
| 28 | | 6150 | 26.503 | | 6150 | T | ? | 91.75 |
| TOTALS: | | 1055730 | | -0.509 | 1055730 | | | |

DETECTED PKS: 29 REJECTED PKS: 1

DIVISOR: 1.00000 MULTIPLIER: 10000.0

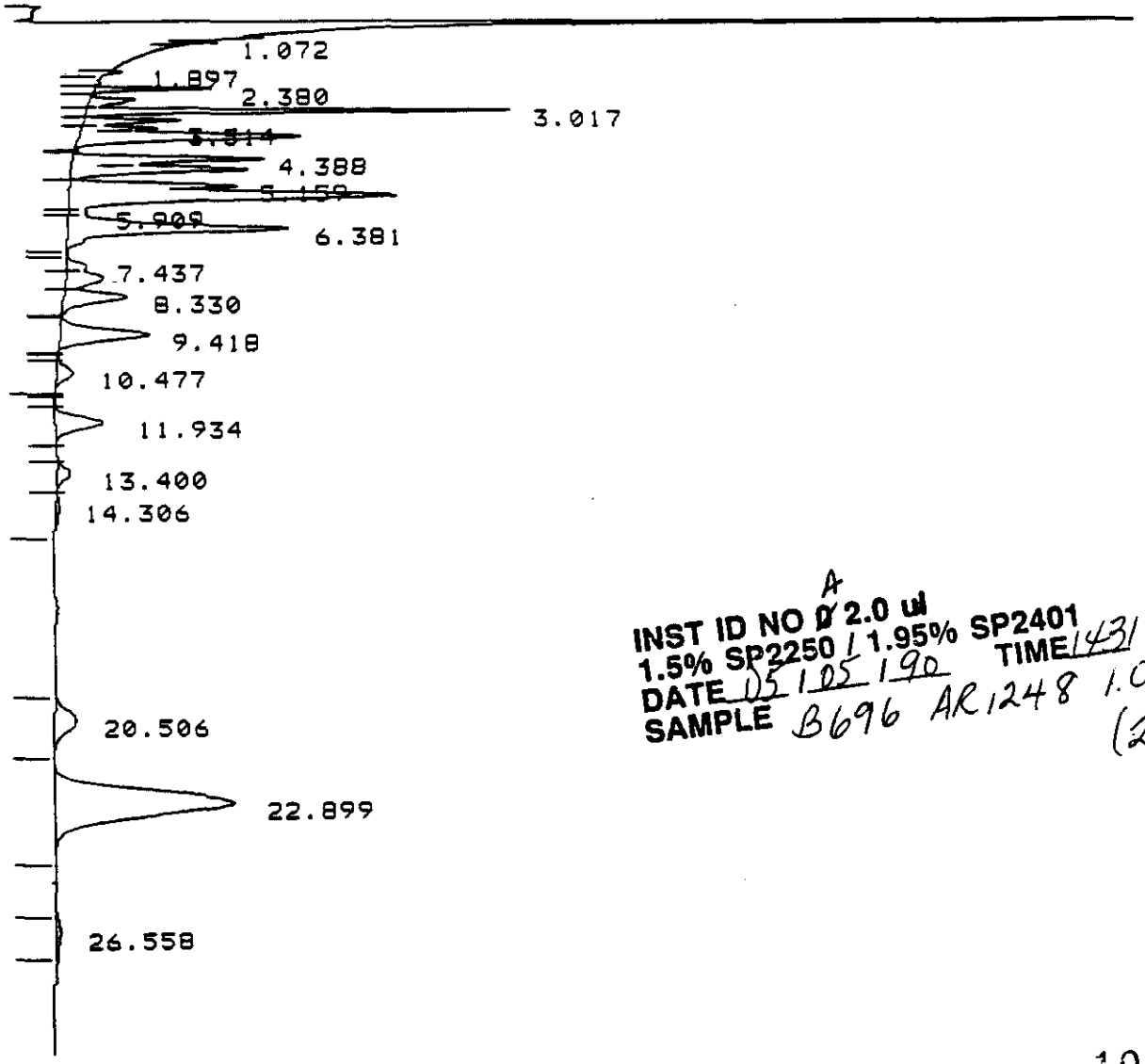
NOISE: 35.2 OFFSET: -14

RACK: 1 VIAL: 13 INJ: 1

NOTE:
1.5% SP2250/1.95% SP2401
AMT INJ.2UL/INSTRUMENT LETTER A
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIALBA CTL#'S 2521,2544 PEST SOILS
ENGIHARL CTL# 2534,2542 PEST SOILS & H2O'S
VERSCDM CTL# 2565 PEST SOIL

100235

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10%




INST ID NO A 2.0 ul
1.5% SP2250 / 1.95% SP2401
DATE 05/05/90 TIME 1431
SAMPLE B696 AR1248 1.0ppm (2.0ng)

100236

TITLE: CLP PESTICIDES 14:31 5 MAY 90

C NNEL NO: 3 SAMPLE: B696 AR1248 METHOD: CLP-3A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | | 684 | 1.072 | | 684 | BB | 1.85 |
| 2 | | 845 | 1.897 | | 845 | BB | 3.15 |
| 3 | | 8242 | 2.380 | | 8242 | BV | 4.90 |
| 4 | | 6548 | 2.679 | | 6548 | VV | 9.65 |
| 5 | | 38246 | 3.017 | | 38246 | VV | 6.20 |
| 6 | D-BHC | 10386 | 3.292 | -0.068 | 10386 | VV | 6.95 |
| 7 | | 7681 | 3.514 | | 7681 | VV | ? 7.10 |
| | ALDRIN | 41001 | 3.737 | -0.003 | 41001 | VB | 12.50 |
| | | 28761 | 4.388 | | 28761 | BV | 10.85 |
| 10 | | 29627 | 4.686 | | 29627 | VV | 12.30 |
| 11 | | 25071 | 5.159 | | 25071 | VV | ? 11.40 |
| 12 | HEPT EPOX | 76533 | 5.439 | -0.001 | 76533 | VV | 16.35 |
| 13 | A-CHLORDAN | 55389 | 6.381 | -0.159 | 55389 | VB | 14.45 |
| 14 | | 4016 | 7.437 | | 4016 | BV | ? 15.70 |
| 15 | DDE | 12020 | 7.785 | 0.105 | 12020 | VV | ? 25.45 |
| 16 | DIELDRIN | 17524 | 8.330 | 0.110 | 17524 | VV | 18.00 |
| 7 | | 27178 | 9.418 | | 27178 | VB | 20.55 |
| 18 | | 5801 | 10.477 | | 5801 | BB | 22.90 |
| 19 | B-ENDOSULF | 17255 | 11.934 | -0.016 | 17255 | BB | 24.85 |
| 20 | | 4302 | 13.400 | | 4302 | BV | 24.35 |
| 21 | | 2345 | 14.306 | | 2345 | VB | 25.60 |
| 22 | | 13734 | 20.506 | | 13734 | BV | 40.35 |
| 23 | DBC | 121226 | 22.899 | -0.441 | 121226 | VB | 46.80 |
| 24 | | 3359 | 26.558 | | 3359 | BB | ? 49.50 |
| TOTALS: | | 557774 | | -0.473 | 557774 | | |

DETECTED PKS: 25 REJECTED PKS: 1

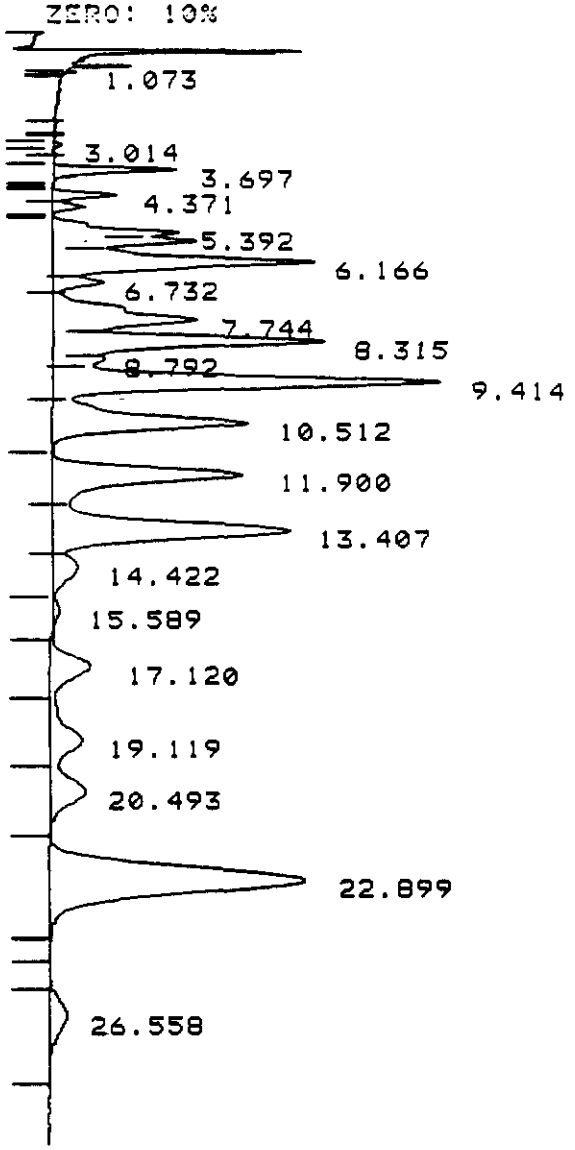
DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 35.2 OFFSET: -16

RACK: 1 VIAL: 14 INJ: 1

NOTES:
: 1.5% SP2250/1.95% SP2401
INJ.2UL/INSTRUMENT LETTER A
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIALBA CTL#'S 2521,2544 PEST SOILS
ENGIHARL CTL# 2534,2542 PEST SOILS & H2O'S
VERSCDM CTL# 2565 PEST SOIL

CHART SPEED 0.5 CM/MIN
A IN: 16 ZERO: 10%




INST ID NO 8 2.0 ul
1.5% SP2250 / 1.95% SP2401
DATE 05 / 05 / 90 TIME 1505
SAMPLE AR1254 1.0 PPM
B761 (2.0 ng)

100238

T LE: CLP PESTICIDES 15:05 5 MAY 90

CHANNEL NO: 3 SAMPLE: B761 AR1254 METHOD: CLP-3A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 789 | 3.014 | | 789 | BB | | 6.05 |
| 2 | ALDRIN | 15490 | 3.697 | -0.043 | 15490 | BB | | 9.20 |
| 3 | | 8042 | 4.371 | | 8042 | BV | | 9.35 |
| 4 | | 4226 | 4.683 | | 4226 | VB | | 10.10 |
| | HEPT EPOX | 23893 | 5.392 | -0.048 | 23893 | BV | ? | 13.10 |
| | | 24086 | 5.621 | | 24086 | VV | ? | 17.35 |
| 7 | G-CHLORDAN | 73399 | 6.166 | 0.146 | 73399 | VV | | 19.00 |
| 8 | A-ENDOSULF | 9796 | 6.732 | -0.058 | 9796 | VV | ? | 16.00 |
| 9 | DDE | 53121 | 7.744 | 0.064 | 53121 | VV | | 25.15 |
| 10 | DIELDRIN | 72171 | 8.315 | 0.095 | 72171 | VV | | 18.65 |
| 11 | | 9751 | 8.792 | | 9751 | VV | ? | 6.70 |
| 12 | | 114565 | 9.414 | | 114565 | VV | ? | 18.95 |
| 13 | | 70387 | 10.512 | | 70387 | VV | | 23.75 |
| 4 | B-ENDOSULF | 72057 | 11.900 | -0.050 | 72057 | VV | | 25.95 |
| 5 | DDT | 100997 | 13.407 | -0.413 | 100997 | VV | ? | 29.85 |
| 16 | | 14418 | 14.422 | | 14418 | VV | ? | 45.40 |
| 17 | ENDRIN ALD | 3376 | 15.589 | 0.319 | 3376 | VV | | 24.90 |
| 18 | | 20841 | 17.120 | | 20841 | VV | | 40.10 |
| 19 | | 21070 | 19.119 | | 21070 | VV | | 42.20 |
| 20 | | 21719 | 20.493 | | 21719 | VV | | 43.50 |
| 21 | DBC | 158824 | 22.899 | -0.441 | 158824 | VB | | 46.20 |
| 22 | | 13602 | 26.558 | | 13602 | BB | ? | 54.80 |
| TOTALS: | | 906620 | | -0.429 | 906620 | | | |

DETECTED PKS: 23 REJECTED PKS: 1

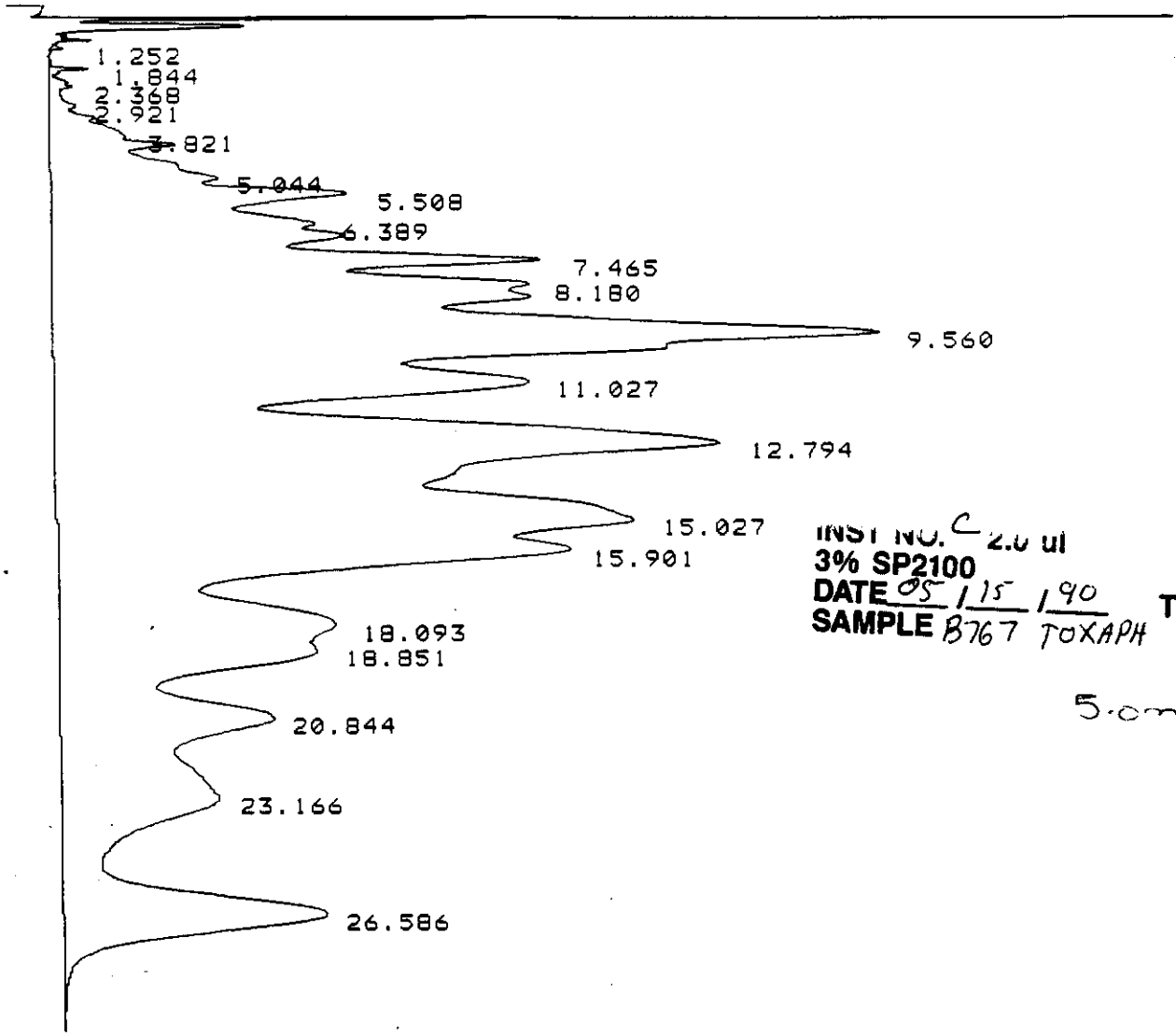
DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 35.2 OFFSET: -20

RACK: 2 VIAL: 1 INJ: 1

N S:
OL: 1.5% SP2250/1.95% SP2401
AMT INJ.2UL/INSTRUMENT LETTER A
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIALBA CTL#'S 2521,2544 PEST SOILS
ENGIHARL CTL# 2534,2542 PEST SOILS & H20'S
VERSCDM CTL# 2565 PEST SOIL

CHART SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%




INST NO. C 2.0 ul
3% SP2100
DATE 05 / 15 / 90 TIME 1423
SAMPLE B767 TOXAPH

5.0mg

varian /sunnyvale, calif. p/n 03- 1621

100240

TITLE: CLP PESTICIDES 14:23 15 MAY 90

CHANNEL NO: 2 SAMPLE: B767 TOXAPH METHOD: CLP-2A

| F < NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | A-BHC | 717 | 1.844 | 0.014 | 717 | VV | 4.80 |
| 2 | | 742 | 2.368 | | 742 | VV | ? 12.40 |
| 3 | | 1716 | 2.921 | | 1716 | VV | ? 14.50 |
| 4 | | 2297 | 3.279 | | 2297 | VV | ? 21.50 |
| 5 | | 6464 | 3.821 | | 6464 | VV | ? 28.90 |
| 6 | | 7787 | 4.063 | | 7787 | VV | ? 19.60 |
| 7 | | 24314 | 5.044 | | 24314 | VV | ? 30.10 |
| 8 | HEPT EPOX | 35460 | 5.508 | 0.198 | 35460 | VV | ? 29.80 |
| 9 | A-ENDOSULF | 26797 | 6.389 | -0.241 | 26797 | VV | ? 49.10 |
| 10 | A-CHLORDAN | 29105 | 6.744 | -0.016 | 29105 | VV | ? 21.30 |
| 11 | DDE/DIELD. | 55339 | 7.465 | -0.305 | 55339 | VV | ? 41.50 |
| 12 | | 47847 | 8.180 | | 47847 | VV | ? 43.30 |
| 13 | ENDRIN | 46745 | 8.535 | -0.145 | 46745 | VV | ? 16.10 |
| 14 | DDD | 196345 | 9.560 | -0.230 | 196345 | VV | ? 77.95 |
| 15 | ESS | 98795 | 11.027 | -0.423 | 98795 | VV | ? 82.50 |
| 16 | DDT | 212916 | 12.794 | -0.066 | 212916 | VV | ? 84.30 |
| 17 | END KETONE | 156057 | 15.027 | 0.297 | 156057 | VV | ?106.50 |
| 18 | . | 107707 | 15.901 | | 107707 | VV | ? 87.65 |
| 19 | | 73567 | 18.093 | | 73567 | VV | ?109.60 |
| 20 | METHOXYCHL | 50590 | 18.851 | -0.439 | 50590 | VV | ? 88.80 |
| 21 | | 61135 | 20.844 | | 61135 | VV | ? 91.60 |
| 22 | | 72480 | 23.166 | | 72480 | VV | ?174.95 |
| 23 | DBC | 75721 | 26.586 | 0.056 | 75721 | VB | 75.65 |
| TOTALS: | | 1390640 | | -1.300 | 1390640 | | |

DETECTED PKS: 27 REJECTED PKS: 4

D SOR: 1.00000 MULTIPLIER: 10000.0

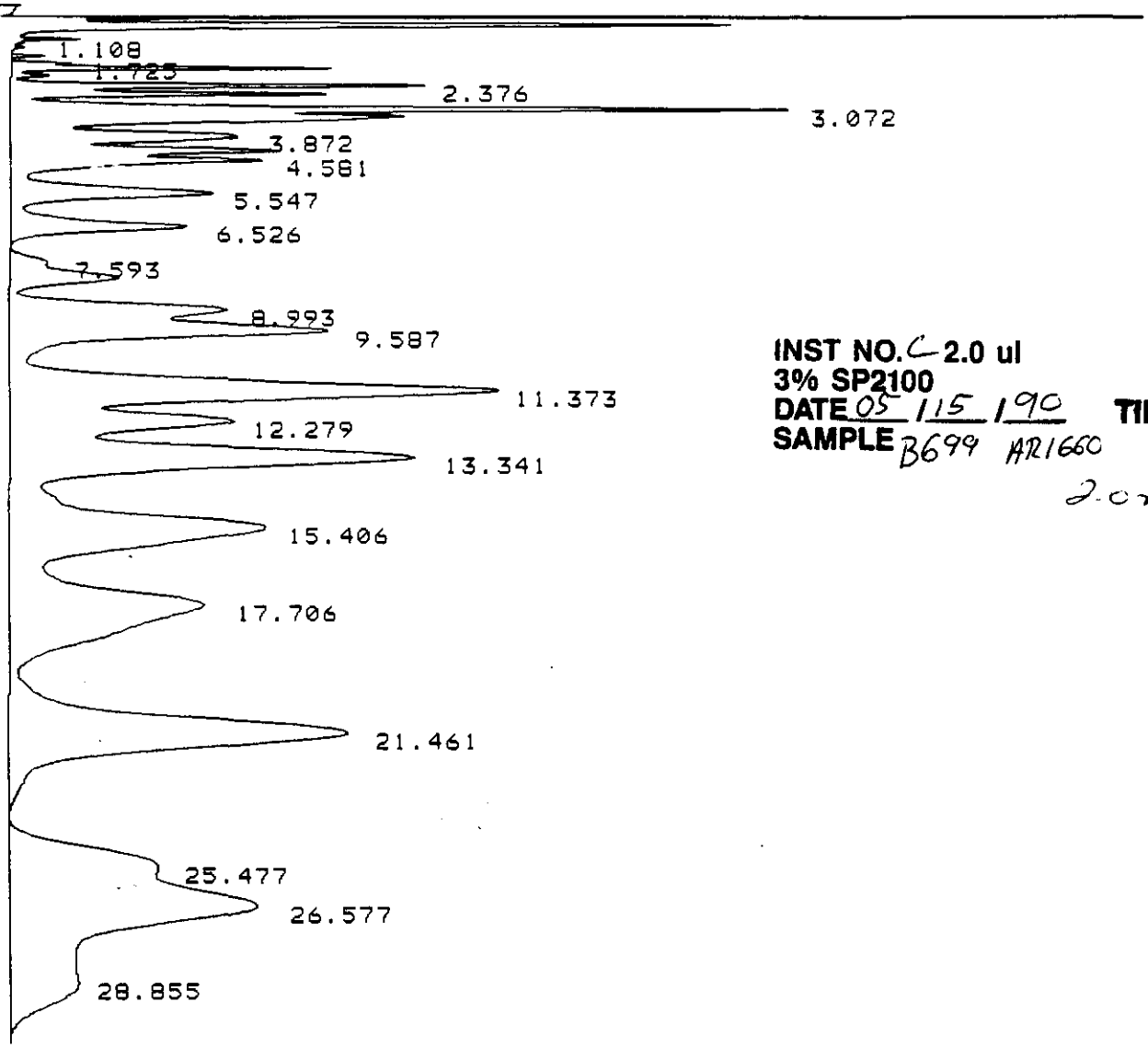
NOISE: 4.9 OFFSET: -14

RACK: 1 VIAL: 10 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
VERSCDM B.4 CTL2565 CLP PEST WATER

ORIGINAL
(Red)

CHART SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%




INST NO. C 2.0 ul
3% SP2100
DATE 05 / 15 / 90 TIME 1457
SAMPLE B699 AR1660
2.0 ng

varian sunnyvale

100242

ORIGINAL (Red)

TITLE: CLP PESTICIDES 14:57 15 MAY 90

CHANNEL NO: 2 SAMPLE: B699 AR1660 METHOD: CLP-2A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | | 902 | 1.725 | | 902 | VV | ? 4.30 |
| 2 | A-BHC | 6718 | 1.872 | 0.042 | 6718 | VV | 5.40 |
| 3 | G-BHC | 879 | 2.083 | -0.077 | 879 | VV | 6.15 |
| 4 | | 11240 | 2.376 | | 11240 | VV | 7.10 |
| 5 | | 8931 | 2.625 | | 8931 | VV | 7.45 |
| 6 | | 28235 | 3.072 | | 28235 | VV | 9.25 |
| 7 | | 21476 | 3.277 | | 21476 | VV | ? 17.00 |
| 8 | | 15971 | 3.872 | | 15971 | VV | ? 21.30 |
| 9 | ALDRIN | 12988 | 4.291 | -0.049 | 12988 | VV | ? 14.00 |
| 10 | | 14030 | 4.581 | | 14030 | VV | ? 15.45 |
| 11 | HEPT EPOX | 16427 | 5.547 | 0.237 | 16427 | VV | 21.10 |
| 12 | A-ENDOSULF | 13997 | 6.526 | -0.104 | 13997 | VV | 19.20 |
| 13 | DDE/DIELD. | 2335 | 7.593 | -0.177 | 2335 | VV | ? 22.40 |
| 14 | | 10171 | 8.038 | | 10171 | VV | 24.90 |
| 15 | B-ENDOSULF | 20710 | 8.993 | 0.103 | 20710 | VV | ? 26.40 |
| 16 | DDD | 34714 | 9.587 | -0.203 | 34714 | VV | ? 31.85 |
| 17 | ESS | 64483 | 11.373 | -0.077 | 64483 | VV | 34.40 |
| 18 | | 27394 | 12.279 | | 27394 | VV | 36.65 |
| 19 | DDT | 60609 | 13.341 | 0.481 | 60609 | VV | 39.25 |
| 20 | END KETONE | 59451 | 15.406 | 0.676 | 59451 | VV | 58.90 |
| 21 | | 59407 | 17.706 | | 59407 | VV | 81.90 |
| 22 | | 79440 | 21.461 | | 79440 | VV | 56.60 |
| 23 | | 27365 | 25.477 | | 27365 | VV | ? 78.20 |
| 24 | DBC | 80932 | 26.577 | 0.047 | 80932 | VV | ? 97.75 |
| 25 | | 18791 | 28.855 | | 18791 | VB | ?106.30 |
| TOTALS: | | 697596 | | 0.899 | 697596 | | |

DETECTED PKS: 28 REJECTED PKS: 3

DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 4.9 OFFSET: -19

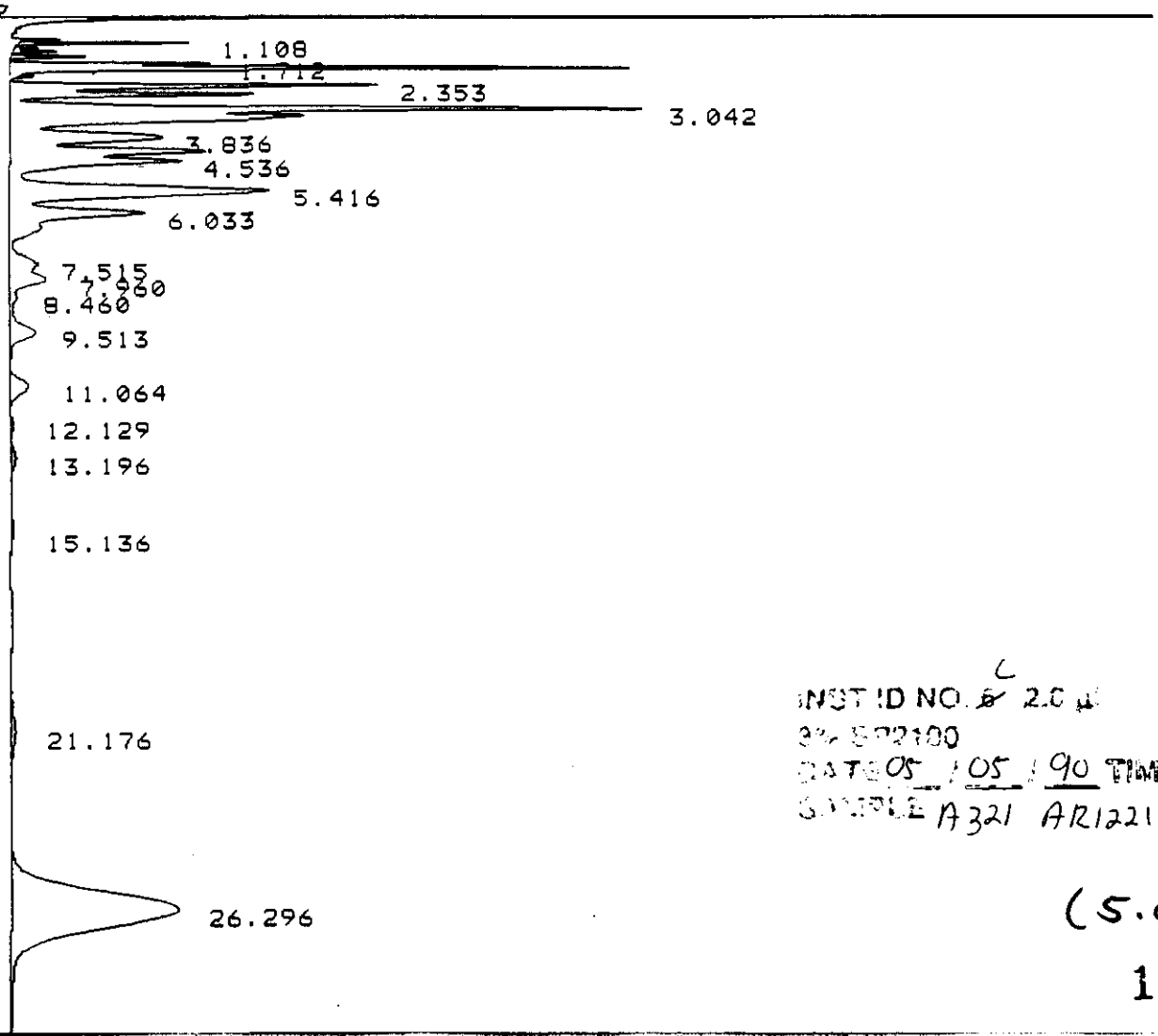
RACK: 1 VIAL: 11 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
VERSCDM B.4 CTL2565 CLP PEST WATER

100243

ORIGINAL
(Red)

CHART SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%




INST ID NO. 6 2.0 µl
3% SP2100
DATE 05 / 05 / 90 TIME 732
SAMPLE A321 AR1221 10. ng

(5.0 ppm)

100244

TITLE: CLP PESTICIDES 8:56 5 MAY 90

CHANNEL NO: 2 SAMPLE: B684 AR1232 METHOD: CLP-2A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 1735 | 1.108 | | 1735 | BV | | 2.80 |
| 2 | | 1019 | 1.497 | | 1019 | VV | | 3.75 |
| | | 3139 | 1.712 | | 3139 | VV | ? | 4.40 |
| 4 | A-BHC | 13115 | 1.855 | 0.025 | 13115 | VV | | 5.50 |
| 5 | | 9573 | 2.353 | | 9573 | VV | | 7.00 |
| 6 | | 6440 | 2.601 | | 6440 | VV | | 7.10 |
| 7 | | 21582 | 3.042 | | 21582 | VV | | 8.90 |
| 8 | | 14939 | 3.242 | | 14939 | VV | ? | 16.35 |
| 9 | | 9898 | 3.836 | | 9898 | VV | ? | 19.35 |
| 10 | ALDRIN | 9157 | 4.251 | -0.089 | 9157 | VV | | 14.55 |
| 11 | | 8798 | 4.536 | | 8798 | VV | ? | 14.45 |
| 12 | HEPT EPOX | 18881 | 5.416 | 0.106 | 18881 | VV | | 19.80 |
| 3 | G-CHLORDAN | 8482 | 6.033 | -0.057 | 8482 | VV | | 16.25 |
| 14 | A-ENDOSULF | 2228 | 6.441 | -0.189 | 2228 | VV | ? | 28.80 |
| 15 | | 2623 | 7.515 | | 2623 | VV | ? | 27.80 |
| 16 | DDE/DIELD. | 3002 | 7.960 | 0.190 | 3002 | VV | ? | 27.25 |
| 17 | DDD | 2957 | 9.513 | -0.277 | 2957 | VV | | 23.70 |
| 18 | ESS | 2175 | 11.064 | -0.386 | 2175 | VV | | 31.70 |
| 19 | DDT | 807 | 13.196 | 0.336 | 807 | VB | | 33.60 |
| 20 | | 1010 | 21.176 | | 1010 | BB | | 51.20 |
| 21 | DBC | 43309 | 26.296 | -0.234 | 43309 | BB | | 68.65 |
| TOTALS: | | 184869 | | -0.575 | 184869 | | | |

DETECTED PKS: 27 REJECTED PKS: 6

DIVISOR: 1.00000 MULTIPLIER: 10000.0

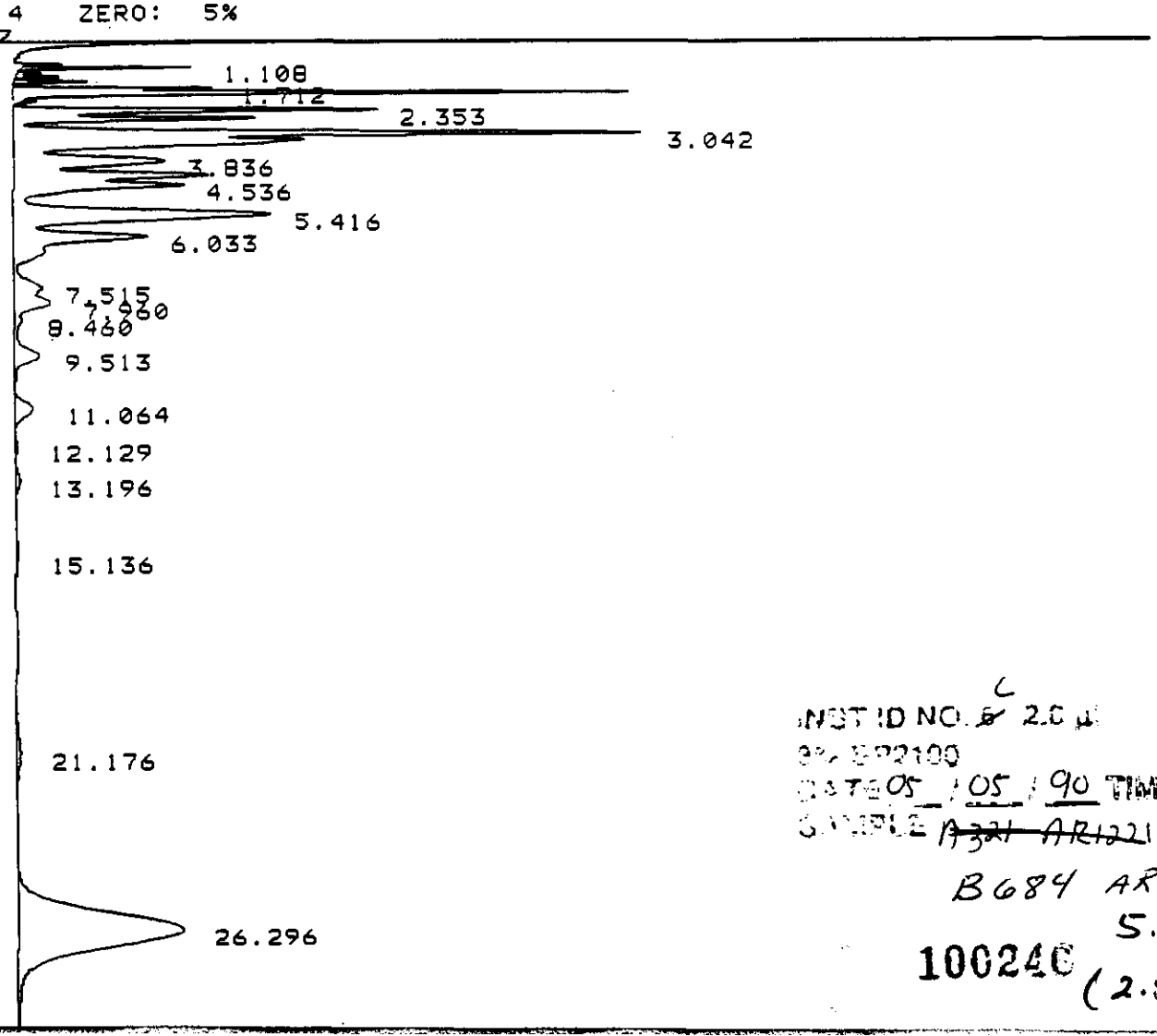
NOISE: 6.1 OFFSET: -14

RACK: 1 VIAL: 14 INJ: 1

NOTE
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIHARL 2542 LOW SOILS/PEST QUANT
ENGIALBA 2562 LOW SOILS/PEST QUANT
VERSCDM 2536 MED SOILS/PEST CONF

ORIGINAL
(Red)

CHART SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%




INST ID NO. ~~6~~ C 2.0 µl
3% SP2100
DATE 05 / 05 / 90 TIME ~~732~~ 0856
SAMPLE ~~A321 AR1221~~
B684 AR 1232
5.0 ng
(2.5 ppm)

100246

ORIGINAL (Red)

TITLE: CLP PESTICIDES 8:56 5 MAY 90

CHANNEL NO: 2 SAMPLE: B684 AR1232 METHOD: CLP-2A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 1735 | 1.108 | | 1735 | BV | | 2.80 |
| 2 | | 1019 | 1.497 | | 1019 | VV | | 3.75 |
| | | 3139 | 1.712 | | 3139 | VV | ? | 4.40 |
| 4 | A-BHC | 13115 | 1.855 | 0.025 | 13115 | VV | | 5.50 |
| 5 | | 9573 | 2.353 | | 9573 | VV | | 7.00 |
| 6 | | 6440 | 2.601 | | 6440 | VV | | 7.10 |
| 7 | | 21582 | 3.042 | | 21582 | VV | | 8.90 |
| 8 | | 14939 | 3.242 | | 14939 | VV | ? | 16.35 |
| 9 | | 9898 | 3.836 | | 9898 | VV | ? | 19.35 |
| 10 | ALDRIN | 9157 | 4.251 | -0.089 | 9157 | VV | | 14.55 |
| 11 | | 8798 | 4.536 | | 8798 | VV | ? | 14.45 |
| 12 | HEPT EPOX | 18881 | 5.416 | 0.106 | 18881 | VV | | 19.80 |
| 13 | G-CHLORDAN | 8482 | 6.033 | -0.057 | 8482 | VV | | 16.25 |
| 14 | A-ENDOSULF | 2228 | 6.441 | -0.189 | 2228 | VV | ? | 28.80 |
| 15 | | 2623 | 7.515 | | 2623 | VV | ? | 27.80 |
| 16 | DDE/DIELD. | 3002 | 7.960 | 0.190 | 3002 | VV | ? | 27.25 |
| 17 | DDD | 2957 | 9.513 | -0.277 | 2957 | VV | | 23.70 |
| 18 | ESS | 2175 | 11.064 | -0.386 | 2175 | VV | | 31.70 |
| 19 | DDT | 807 | 13.196 | 0.336 | 807 | VB | | 33.60 |
| 20 | | 1010 | 21.176 | | 1010 | BB | | 51.20 |
| 21 | DBC | 43309 | 26.296 | -0.234 | 43309 | BB | | 68.65 |
| TOTALS: | | 184869 | | -0.575 | 184869 | | | |

DETECTED PKS: 27 REJECTED PKS: 6

DIVISOR: 1.00000 MULTIPLIER: 10000.0

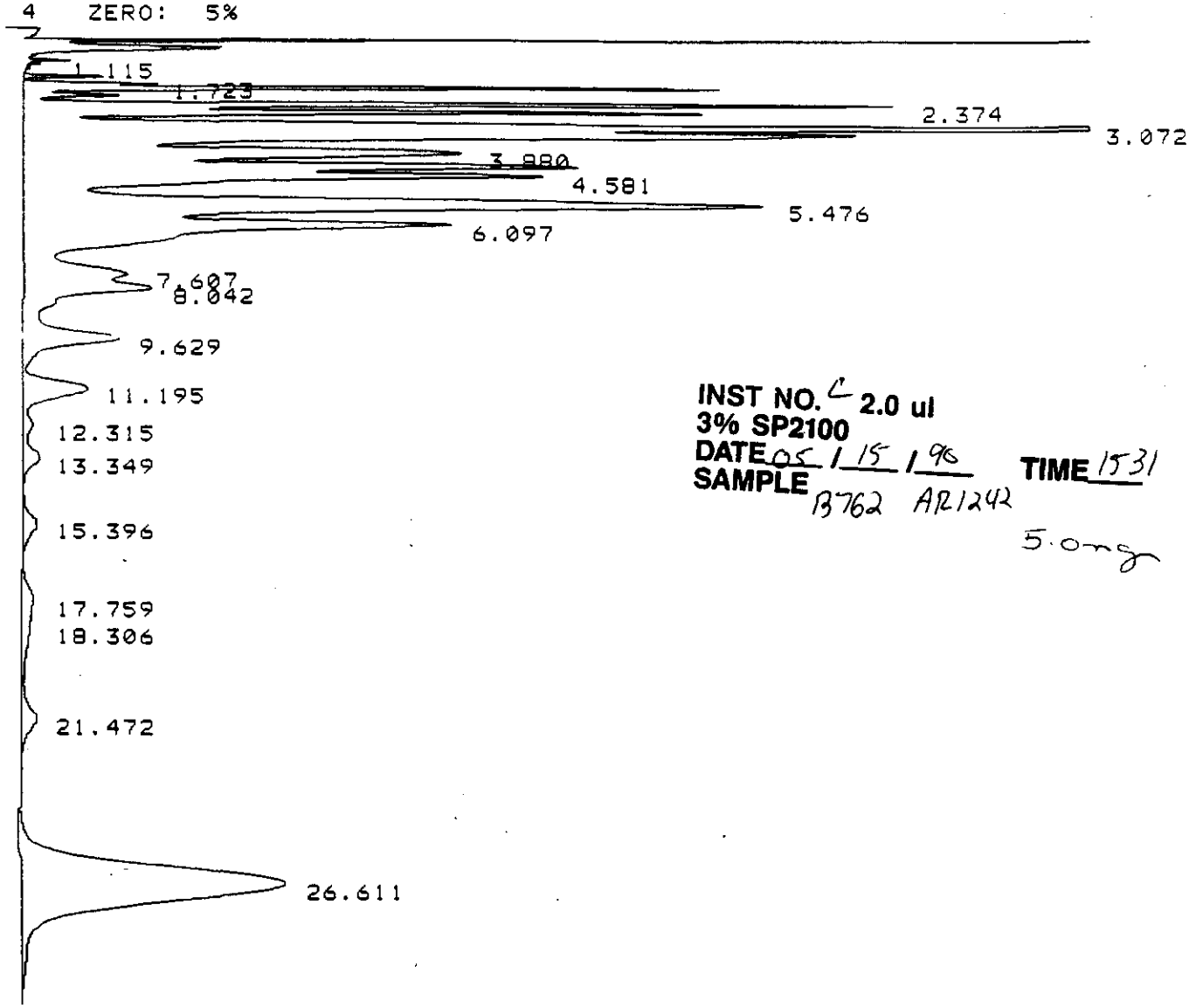
NOISE: 6.1 OFFSET: -14

RACK: 1 VIAL: 14 INJ: 1

NOTE:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIHARL 2542 LOW SOILS/PEST QUANT
ENGIALBA 2562 LOW SOILS/PEST QUANT
VERSCDM 2536 MED SOILS/PEST CONF

100247

CHART SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%




INST NO. C 2.0 ul
3% SP2100
DATE 05 / 15 / 90 TIME 1531
SAMPLE B762 AR1242
5.0mg

100248

TITLE: CLP PESTICIDES 15:31 15 MAY 90 ORIGINAL (Red)

CHANNEL NO: 2 SAMPLE: B762 AR1242 METHOD: CLP-2A

| PE N. | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | | 1194 | 1.507 | | 1194 | BV | 3.80 |
| 2 | | 2085 | 1.723 | | 2085 | VV | ? 4.30 |
| 3 | A-BHC | 15275 | 1.870 | 0.040 | 15275 | VV | 5.40 |
| 4 | G-BHC | 2561 | 2.083 | -0.077 | 2561 | VV | 6.65 |
| 5 | | 24452 | 2.374 | | 24452 | VV | 7.15 |
| 6 | | 20605 | 2.624 | | 20605 | VV | 7.50 |
| 7 | | 61531 | 3.072 | | 61531 | VV | 9.35 |
| 8 | | 48245 | 3.277 | | 48245 | VV | ? 16.80 |
| 9 | | 32443 | 3.880 | | 32443 | VV | ? 21.90 |
| 10 | ALDRIN | 29101 | 4.292 | -0.048 | 29101 | VV | ? 14.20 |
| 11 | | 32202 | 4.581 | | 32202 | VV | ? 15.95 |
| 12 | HEPT EPOX | 66327 | 5.476 | 0.166 | 66327 | VV | 22.15 |
| 13 | G-CHLORDAN | 46761 | 6.097 | 0.007 | 46761 | VV | 20.20 |
| 14 | DDE/DIELD. | 11127 | 7.607 | -0.163 | 11127 | VV | ? 29.70 |
| 15 | | 14871 | 8.042 | | 14871 | VV | ? 30.90 |
| 16 | DDD | 12395 | 9.629 | -0.161 | 12395 | VV | 26.85 |
| 17 | ESS | 8765 | 11.195 | -0.255 | 8765 | VV | 33.20 |
| 18 | | 1486 | 12.315 | | 1486 | VV | 32.00 |
| 19 | DDT | 2752 | 13.349 | 0.489 | 2752 | VV | 35.20 |
| 20 | END KETONE | 3037 | 15.396 | 0.666 | 3037 | VV | 47.20 |
| 21 | | 2797 | 17.759 | | 2797 | VV | ? 51.20 |
| 22 | | 2553 | 18.306 | | 2553 | VV | ?123.20 |
| 23 | | 4005 | 21.472 | | 4005 | VB | 53.35 |
| 24 | DBC | 77591 | 26.611 | 0.081 | 77591 | BB | 71.80 |
| TOTALS: | | 524161 | | 0.745 | 524161 | | |

DETECTED PKS: 26 REJECTED PKS: 2

DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 4.9 OFFSET: 7

RACK: 1 VIAL: 13 INJ: 1

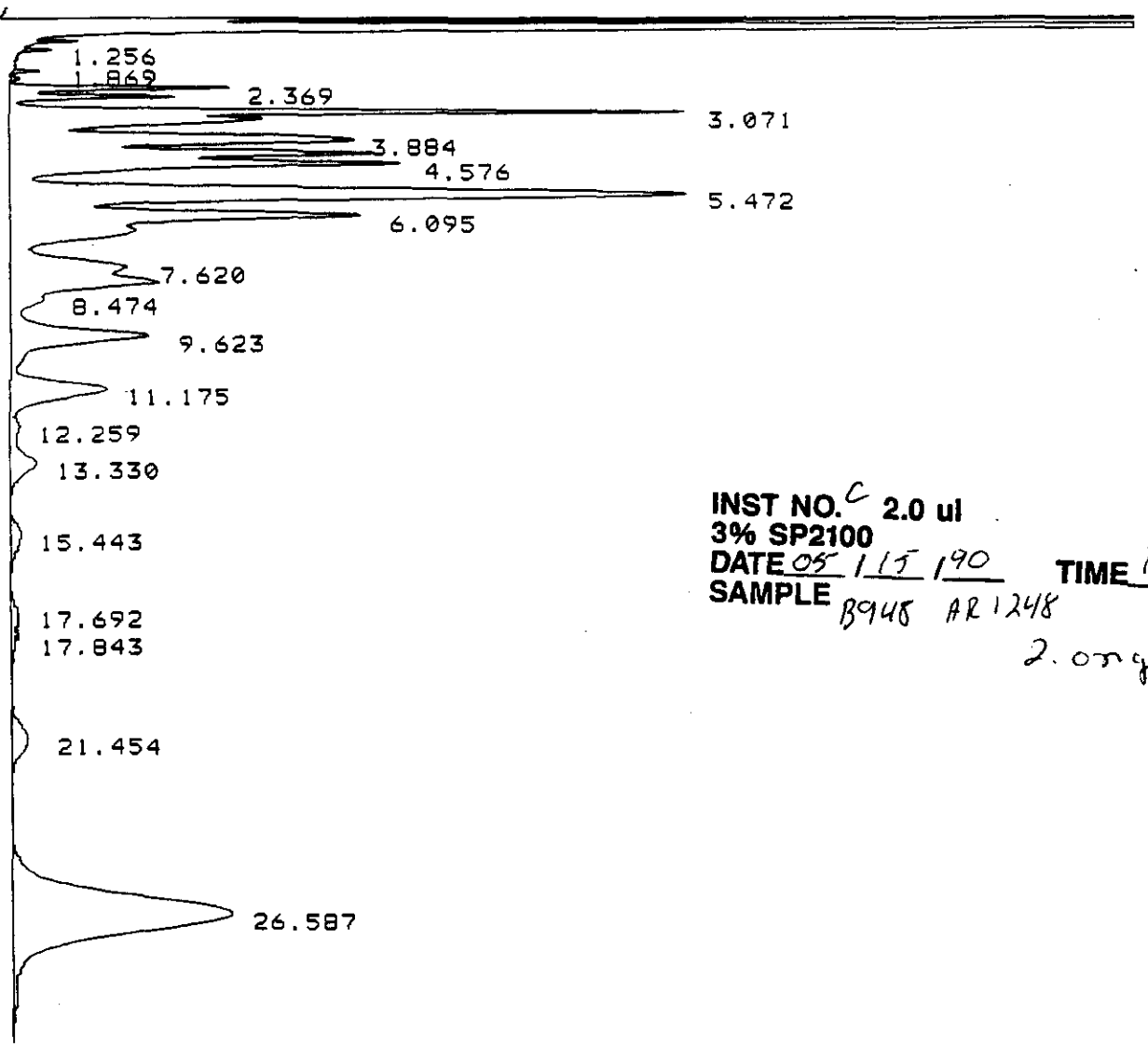
NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
VERSCDM B.4 CTL2565 CLP PEST WATER



'sunnyvale, calif.p/s 03-906362-00

ORIGINAL
(Red)

CHART SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%




INST NO. C 2.0 ul
3% SP2100
DATE 05 / 15 / 90 TIME 1605
SAMPLE B948 AR1248
2.0 ng

100250

TITLE: CLP PESTICIDES 16:05 15 MAY 90

CHANNEL NO: 2 SAMPLE: B948 AR1248 METHOD: CLP-2A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| | | 5592 | 2.369 | | 5592 | VV | 6.80 |
| | | 4185 | 2.621 | | 4185 | VV | 6.90 |
| 3 | | 21884 | 3.071 | | 21884 | VV | 8.65 |
| 4 | | 14163 | 3.276 | | 14163 | VV | ? 18.45 |
| 5 | | 23456 | 3.884 | | 23456 | VV | ? 21.05 |
| 6 | ALDRIN | 17348 | 4.279 | -0.061 | 17348 | VV | ? 13.40 |
| 7 | | 21309 | 4.576 | | 21309 | VV | ? 14.80 |
| 8 | HEPT EPOX | 53128 | 5.472 | 0.162 | 53128 | VV | 21.40 |
| 9 | G-CHLORDAN | 23916 | 6.095 | 0.005 | 23916 | VV | 18.20 |
| 10 | A-ENDOSULF | 10916 | 6.528 | -0.102 | 10916 | VV | ? 37.60 |
| 11 | DDE/DIELD. | 11282 | 7.620 | -0.150 | 11282 | VV | ? 29.20 |
| 12 | | 13181 | 8.046 | | 13181 | VV | ? 31.05 |
| 13 | ENDRIN | 2118 | 8.474 | -0.206 | 2118 | VV | ? 35.50 |
| 14 | DDD | 15298 | 9.623 | -0.167 | 15298 | VV | 26.30 |
| 15 | ESS | 11516 | 11.175 | -0.275 | 11516 | VV | 32.05 |
| 16 | | 983 | 12.259 | | 983 | VV | 31.20 |
| 17 | DDT | 3697 | 13.330 | 0.470 | 3697 | VV | 36.80 |
| 18 | END KETONE | 1845 | 15.443 | 0.713 | 1845 | VV | 46.40 |
| 19 | | 1231 | 17.843 | | 1231 | VB | ?126.40 |
| 20 | | 3548 | 21.454 | | 3548 | BV | 54.40 |
| 21 | DBC | 61786 | 26.587 | 0.057 | 61786 | VB | 72.55 |
| TOTALS: | | 322382 | | 0.446 | 322382 | | |

DETECTED PKS: 26 REJECTED PKS: 5

DIVISOR: 1.00000 MULTIPLIER: 10000.0

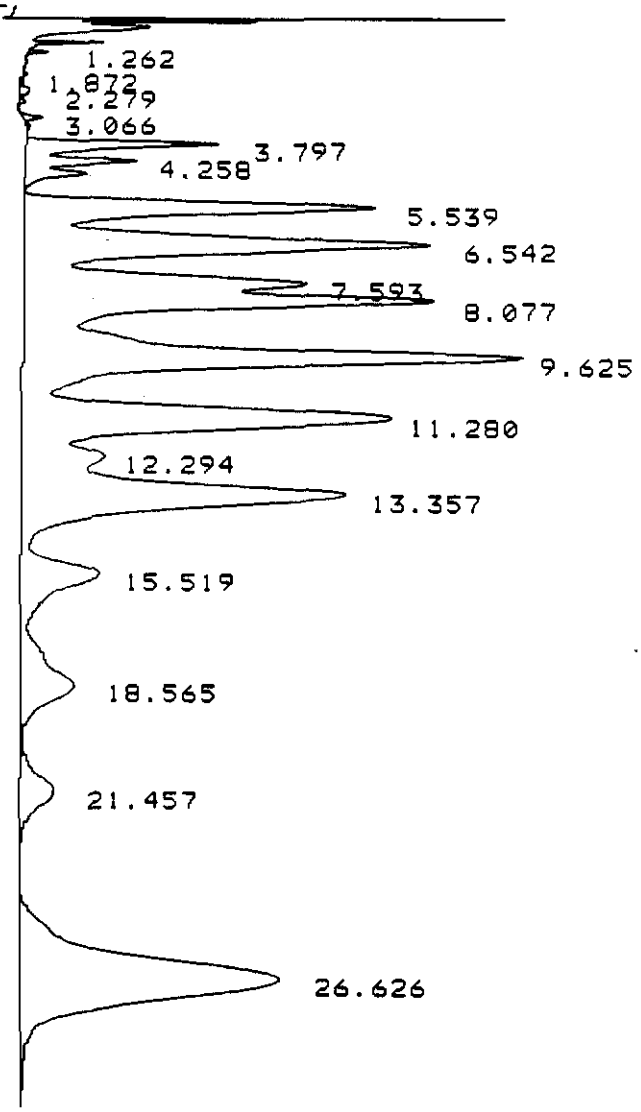
NOISE: 4.9 OFFSET: -7

RAC : 1 VIAL: 14 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
VERSCDM B.4 CTL2565 CLP PEST WATER

varian 'sunnyvale, c

CHART SPEED 0.5 CM/MIN
EN: 4 ZERO: 5%




INST NO. C 2.0 ul
3% SP2100
DATE 05 / 15 / 90 TIME 1639
SAMPLE B761 AR1254

2.0 ng

TITLE: CLP PESTICIDES 16:39 15 MAY 90

CHANNEL NO: 2 SAMPLE: B761 AR1254 METHOD: CLP-2A

| PEAK NO. | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| | | 8233 | 3.797 | | 8233 | BV | 11.90 |
| 2 | ALDRIN | 4530 | 4.258 | -0.082 | 4530 | VV | 11.55 |
| 3 | | 2848 | 4.576 | | 2848 | VV | 12.40 |
| 4 | HEPT EPOX | 27245 | 5.539 | 0.229 | 27245 | VV | ? 22.35 |
| 5 | A-ENDOSULF | 41449 | 6.542 | -0.088 | 41449 | VV | 29.15 |
| 6 | DDE/DIELD. | 24624 | 7.593 | -0.177 | 24624 | VV | ? 29.10 |
| 7 | | 36984 | 8.077 | | 36984 | VV | ? 28.35 |
| 8 | DDD | 60896 | 9.625 | -0.165 | 60896 | VV | 28.30 |
| 9 | ESS | 48872 | 11.280 | -0.170 | 48872 | VV | 38.80 |
| 10 | | 9196 | 12.294 | | 9196 | VV | ? 35.70 |
| 11 | DDT | 49725 | 13.357 | 0.497 | 49725 | VV | 40.60 |
| 12 | | 13989 | 15.519 | | 13989 | VV | 44.95 |
| 13 | METHOXYCHL | 13219 | 18.565 | -0.725 | 13219 | VV | 55.85 |
| 14 | | 7127 | 21.457 | | 7127 | VB | 53.85 |
| 15 | DBC | 69939 | 26.626 | 0.096 | 69939 | BB | 72.95 |
| TOTALS: | | 418876 | | -0.585 | 418876 | | |

DETECTED PKS: 22 REJECTED PKS: 7

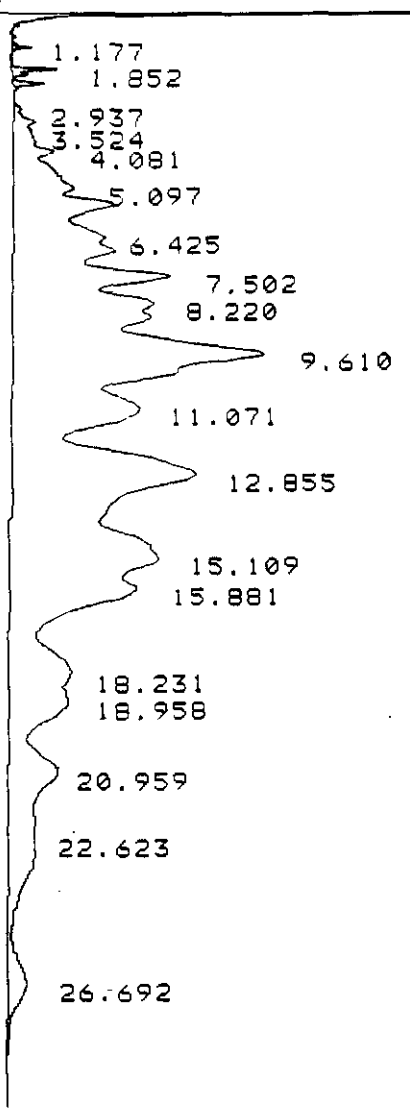
DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 4.9 OFFSET: -6

RACK: 2 VIAL: 1 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
? = OUTSIDE RETENTION TIME WINDOW
VERSCDM B.4 CTL2565 CLP PEST WATER

CHART SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%




INST NO. 9 2.0 ul
3% SP2100
DATE 05 / 18 / 90 TIME 0910
SAMPLE B 767 Toxaph 5.0 ng

varian /sunnyvale, calif. p/n 03-90-32-01

100254

TITLE: CLP PESTICIDES 9:10 18 MAY 90

CHANNEL NO: 2 SAMPLE: B767 TOXAPH METHOD: CLP-2A

| PE. NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | A-BHC | 724 | 1.852 | -0.008 | 724 | BV | 4.60 |
| 2 | | 1073 | 3.283 | | 1073 | VV | ? 13.60 |
| 3 | | 1355 | 3.803 | | 1355 | VV | ? 10.00 |
| 4 | | 2110 | 4.081 | | 2110 | VV | ? 14.60 |
| 5 | | 8536 | 5.097 | | 8536 | VV | ? 14.10 |
| 6 | HEPT EPOX | 10239 | 5.533 | 0.133 | 10239 | VV | ? 29.60 |
| 7 | G-CHLORDAN | 9024 | 6.425 | 0.225 | 9024 | VV | ? 29.40 |
| 8 | A-ENDOSULF | 9069 | 6.775 | 0.025 | 9069 | VV | ? 18.30 |
| 9 | | 16065 | 7.502 | | 16065 | VV | ? 36.30 |
| 10 | DDE/DIELD. | 13589 | 8.220 | 0.330 | 13589 | VV | ? 40.10 |
| 11 | ENDRIN | 11844 | 8.592 | -0.228 | 11844 | VV | ? 14.30 |
| 12 | DDD | 51860 | 9.610 | -0.350 | 51860 | VV | ? 69.40 |
| 13 | ESS | 25390 | 11.071 | -0.559 | 25390 | VV | ? 76.25 |
| 14 | DDT | 52895 | 12.855 | -0.245 | 52895 | VV | 102.25 |
| 15 | END KETONE | 36304 | 15.109 | 0.139 | 36304 | VV | ?105.20 |
| 16 | | 23235 | 15.881 | | 23235 | VV | ? 58.85 |
| 17 | | 14236 | 18.231 | | 14236 | VV | ? 83.70 |
| 18 | METHOXYCHL | 10474 | 18.958 | -0.662 | 10474 | VV | ? 39.25 |
| 19 | | 12562 | 20.959 | | 12562 | VV | 63.90 |
| 20 | | 11077 | 22.623 | | 11077 | VV | ?126.50 |
| 21 | DBC | 5273 | 26.692 | -0.298 | 5273 | VB | 60.60 |
| TOTALS: | | 326934 | | -1.498 | 326934 | | |

DETECTED PKS: 27 REJECTED PKS: 6

DIVISOR: 1.00000 MULTIPLIER: 10000.0

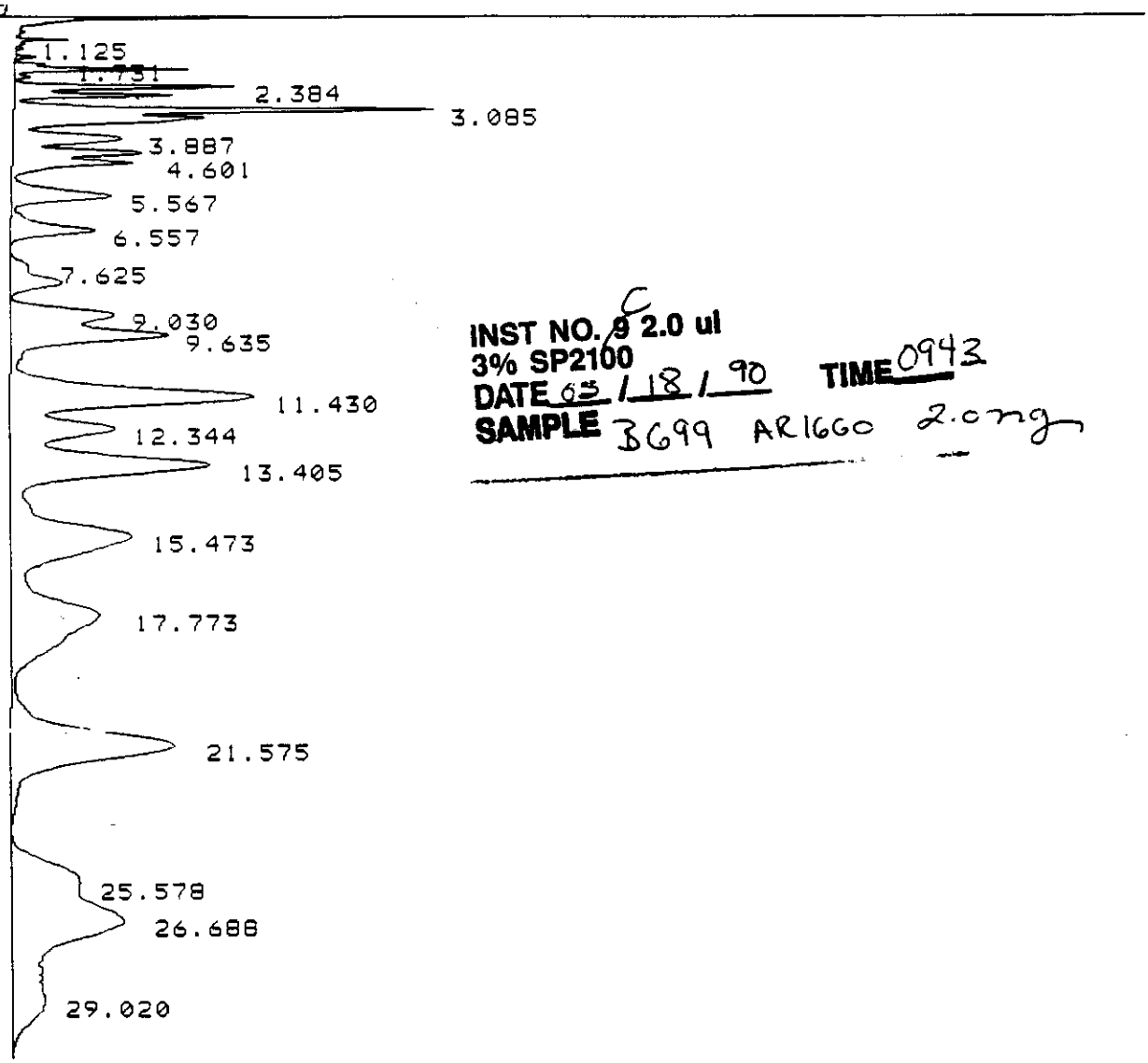
NOISE: 7.3 OFFSET: -7

RACK: 1 VIAL: 10 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIBLOM B.2 CTL2660 CLP PEST SOIL
VERSCDM B.4 CTL2565 CLP PEST SOIL

calif.p/n 03-906362-01

CHART SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%




INST NO. 6 2.0 ul
3% SP2100
DATE 03/18/90 TIME 0943
SAMPLE 3699 AR1660 2.0mg

100256

TITLE: CLP PESTICIDES 9:43 18 MAY 90

CHANNEL NO: 2 SAMPLE: B699 AR1660 METHOD: CLP-2A

| PE NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | A-BHC | 3343 | 1.879 | 0.019 | 3343 | VV | 5.05 |
| 2 | | 5551 | 2.384 | | 5551 | VV | 6.75 |
| 3 | | 4031 | 2.633 | | 4031 | VV | 6.85 |
| 4 | | 14088 | 3.085 | | 14088 | VV | 8.60 |
| 5 | | 9451 | 3.287 | | 9451 | VV | ? 15.70 |
| 6 | | 7028 | 3.887 | | 7028 | VV | ? 19.20 |
| 7 | ALDRIN | 6001 | 4.311 | -0.099 | 6001 | VV | 13.55 |
| 8 | | 5946 | 4.601 | | 5946 | VV | 13.40 |
| 9 | HEPT EPOX | 7563 | 5.567 | 0.167 | 7563 | VV | 19.55 |
| 10 | A-ENDOSULF | 6439 | 6.557 | -0.193 | 6439 | VB | 17.25 |
| 11 | | 1249 | 7.625 | | 1249 | BV | ? 22.20 |
| 12 | DDE/DIELD. | 4540 | 8.080 | 0.190 | 4540 | VV | 24.15 |
| 13 | B-ENDOSULF | 9741 | 9.030 | 0.000 | 9741 | VV | ? 24.80 |
| 14 | DDD | 15599 | 9.635 | -0.325 | 15599 | VV | 28.10 |
| 15 | ESS | 30019 | 11.430 | -0.200 | 30019 | VV | 32.50 |
| 16 | | 12209 | 12.344 | | 12209 | VV | 33.10 |
| 17 | DDT | 27465 | 13.405 | 0.305 | 27465 | VV | 36.65 |
| 18 | END KETONE | 26653 | 15.473 | 0.503 | 26653 | VV | 56.55 |
| 19 | | 26404 | 17.773 | | 26404 | VV | 79.00 |
| 20 | | 35984 | 21.575 | | 35984 | VV | 54.05 |
| 21 | | 12751 | 25.578 | | 12751 | VV | ? 75.90 |
| 22 | DBC | 32228 | 26.688 | -0.302 | 32228 | VV | ? 94.35 |
| 23 | | 11300 | 29.020 | | 11300 | VB | ?102.75 |
| TOTALS: | | 315583 | | 0.065 | 315583 | | |

DETECTED PKS: 28 REJECTED PKS: 5

DI .SOR: 1.00000 MULTIPLIER: 10000.0

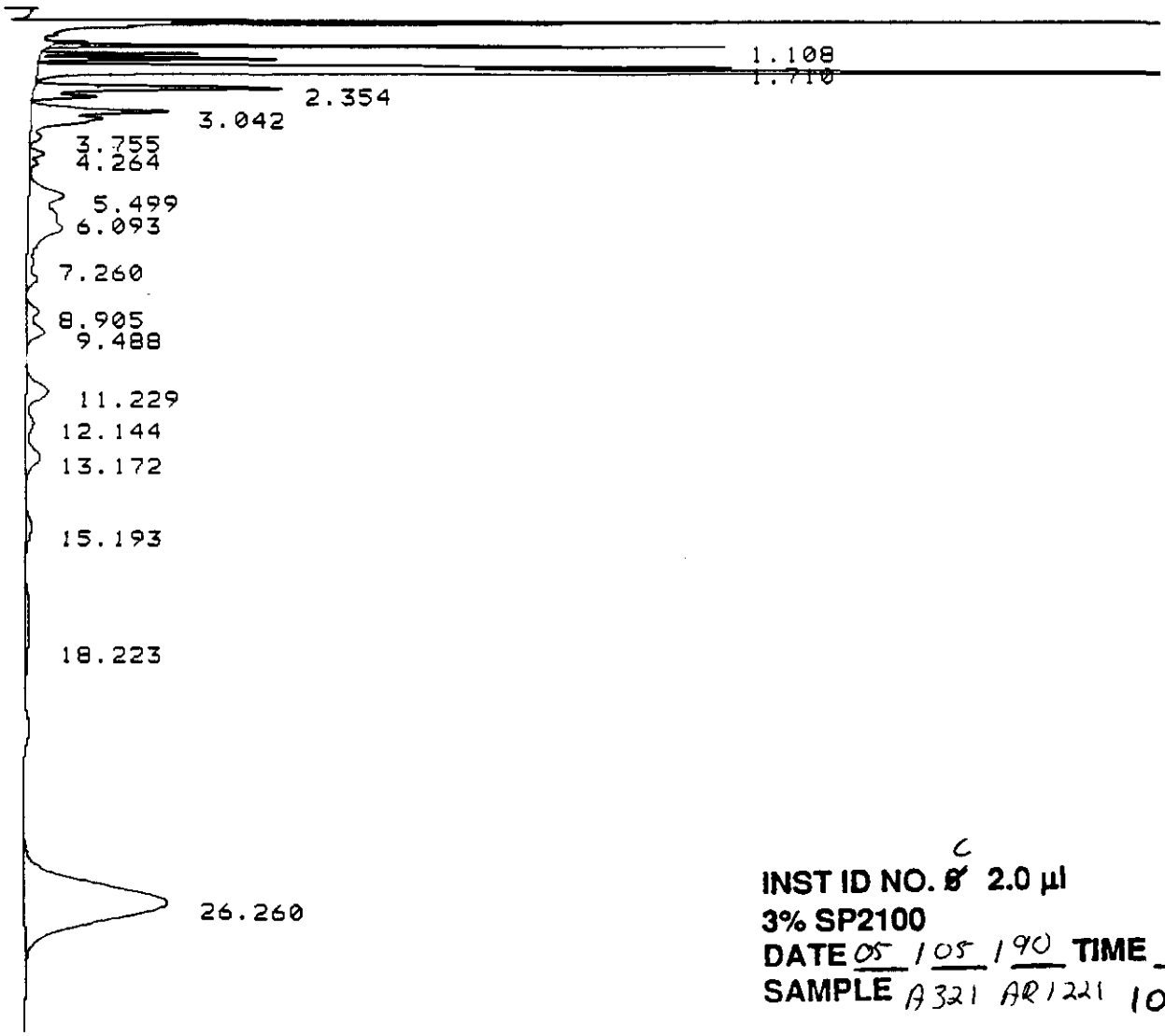
NOISE: 7.3 OFFSET: -13

RACK: 1 VIAL: 11 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIBLOM B.2 CTL2660 CLP PEST SOIL
VERSCDM B.4 CTL2565 CLP PEST SOIL

varian /sunnyvale, calif. p/n 03-906362-01

CHART SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%




INST ID NO. ~~8~~ C 2.0 µl
3% SP2100
DATE 05 / 05 / 90 TIME 732
SAMPLE A321 AR1221 10. ng
(5.0 ppm)

100258

TITLE: CLP PESTICIDES 7:32 5 MAY 90

CHANNEL NO: 2 SAMPLE: A321 AR1221 METHOD: CLP-2A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 7152 | 1.108 | | 7152 | BB | | 2.85 |
| 2 | | 1921 | 1.351 | | 1921 | BV | | 3.30 |
| 3 | | 3361 | 1.496 | | 3361 | VV | | 3.85 |
| 4 | | 11086 | 1.710 | | 11086 | VV | ? | 4.30 |
| 5 | A-BHC | 34845 | 1.854 | 0.024 | 34845 | VV | | 5.80 |
| 6 | | 6966 | 2.354 | | 6966 | VV | ? | 7.45 |
| 7 | | 1585 | 2.596 | | 1585 | VV | ? | 6.90 |
| 8 | | 4951 | 3.042 | | 4951 | VV | | 9.05 |
| 9 | | 3616 | 3.236 | | 3616 | VV | ? | 15.90 |
| 10 | HEPT EPOX | 3425 | 5.499 | 0.189 | 3425 | VV | ? | 24.70 |
| 11 | G-CHLORDAN | 2076 | 6.093 | 0.003 | 2076 | VV | ? | 24.80 |
| 12 | A-ENDOSULF | 4120 | 6.441 | -0.189 | 4120 | VV | ? | 37.25 |
| 13 | DDE/DIELD. | 832 | 7.941 | 0.171 | 832 | VV | | 16.00 |
| 14 | B-ENDOSULF | 1073 | 8.905 | 0.015 | 1073 | VV | ? | 26.30 |
| 15 | DDD | 1668 | 9.488 | -0.302 | 1668 | VV | | 25.60 |
| 16 | ESS | 2653 | 11.229 | -0.221 | 2653 | VV | | 31.50 |
| 17 | | 1019 | 12.144 | | 1019 | VV | | 31.20 |
| 18 | DDT | 1867 | 13.172 | 0.312 | 1867 | VV | | 35.20 |
| 19 | END KETONE | 1105 | 15.193 | 0.463 | 1105 | VV | | 46.40 |
| 20 | | 1958 | 18.223 | | 1958 | VB | ? | |
| 21 | DBC | 36206 | 26.260 | -0.270 | 36206 | BB | ? | 58.35 |
| TOTALS: | | 133485 | | 0.195 | 133485 | | | |

DETECTED PKS: 25 REJECTED PKS: 4

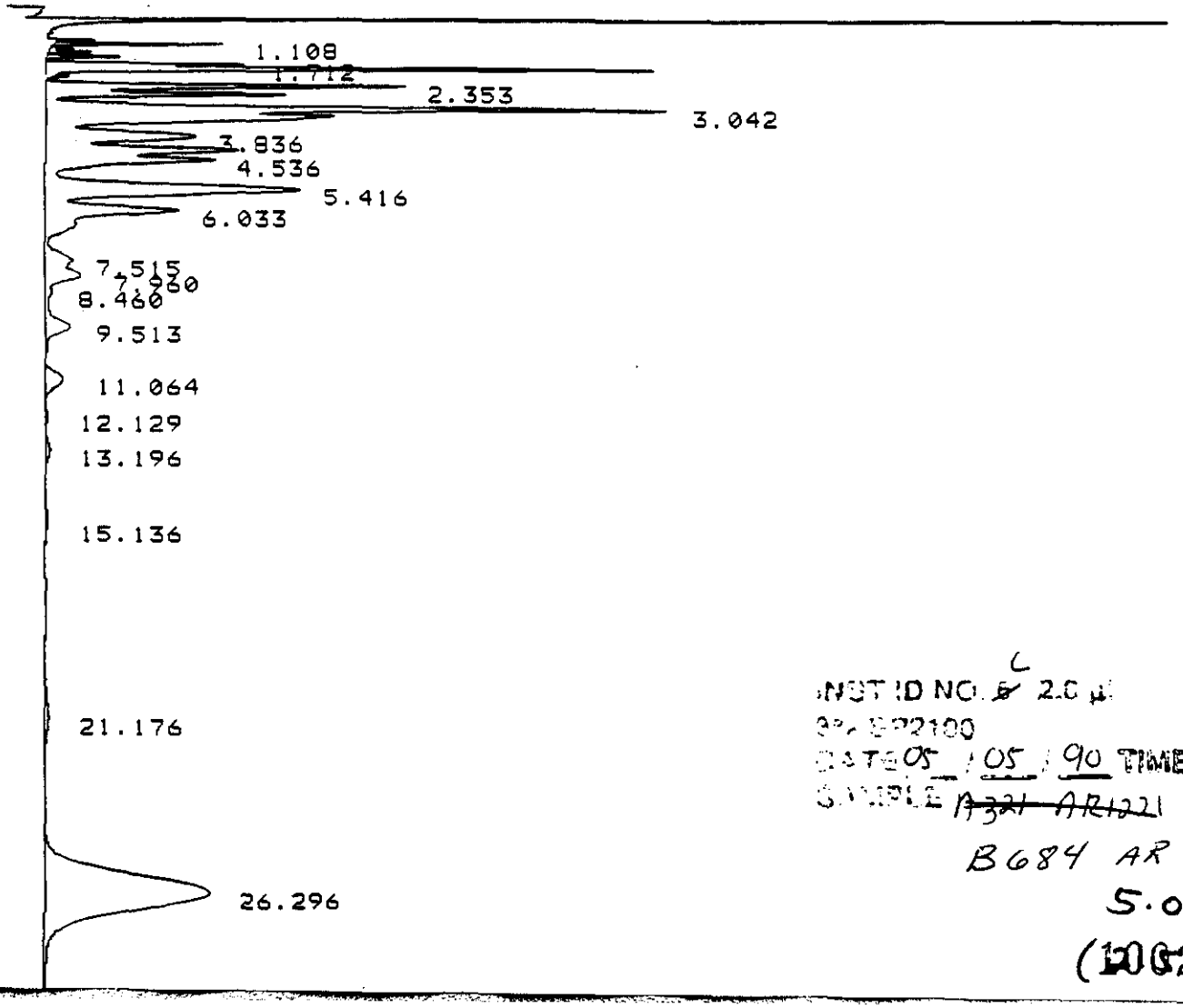
DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 8.5 OFFSET: -1

RACK: 1 VIAL: 13 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
CLP STANDARDS - QUANT

CHART SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%




INST ID NO. ~~6~~ C 2.0 µl
3% SP2100
DATE 05 / 05 / 90 TIME ~~732~~ 0856
SAMPLE ~~A321 AR1221~~
B684 AR 1232
5.0 ~~ppm~~ ng
(100200)

TITLE: CLP PESTICIDES 8:56 5 MAY 90

CHANNEL NO: 2 SAMPLE: B684 AR1232 METHOD: CLP-2A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 1735 | 1.108 | | 1735 | BV | | 2.80 |
| 2 | | 1019 | 1.497 | | 1019 | VV | | 3.75 |
| | | 3139 | 1.712 | | 3139 | VV | ? | 4.40 |
| 4 | A-BHC | 13115 | 1.855 | 0.025 | 13115 | VV | | 5.50 |
| 5 | | 9573 | 2.353 | | 9573 | VV | | 7.00 |
| 6 | | 6440 | 2.601 | | 6440 | VV | | 7.10 |
| 7 | | 21582 | 3.042 | | 21582 | VV | | 8.90 |
| 8 | | 14939 | 3.242 | | 14939 | VV | ? | 16.35 |
| 9 | | 9898 | 3.836 | | 9898 | VV | ? | 19.35 |
| 10 | ALDRIN | 9157 | 4.251 | -0.089 | 9157 | VV | | 14.55 |
| 11 | | 8798 | 4.536 | | 8798 | VV | ? | 14.45 |
| 12 | HEPT EPOX | 18881 | 5.416 | 0.106 | 18881 | VV | | 19.80 |
| 13 | G-CHLORDAN | 8482 | 6.033 | -0.057 | 8482 | VV | | 16.25 |
| 14 | A-ENDOSULF | 2228 | 6.441 | -0.189 | 2228 | VV | ? | 28.80 |
| 15 | | 2623 | 7.515 | | 2623 | VV | ? | 27.80 |
| 16 | DDE/DIELD. | 3002 | 7.960 | 0.190 | 3002 | VV | ? | 27.25 |
| 17 | DDD | 2957 | 9.513 | -0.277 | 2957 | VV | | 23.70 |
| 18 | ESS | 2175 | 11.064 | -0.386 | 2175 | VV | | 31.70 |
| 19 | DDT | 807 | 13.196 | 0.336 | 807 | VB | | 33.60 |
| 20 | | 1010 | 21.176 | | 1010 | BB | | 51.20 |
| 21 | DBC | 43309 | 26.296 | -0.234 | 43309 | BB | | 68.65 |
| TOTALS: | | 184869 | | -0.575 | 184869 | | | |

DETECTED PKS: 27 REJECTED PKS: 6

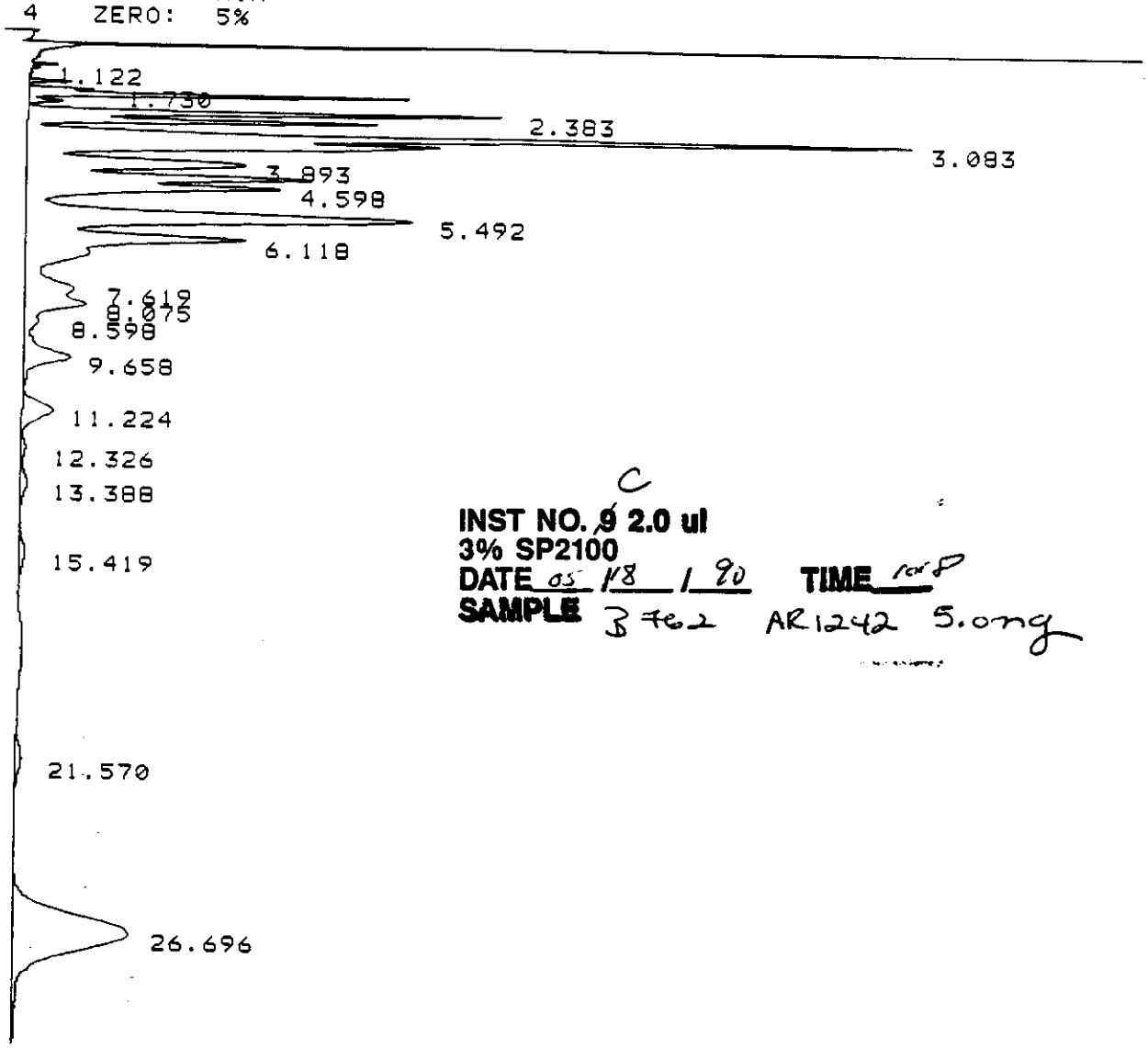
DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 6.1 OFFSET: -14

RACK: 1 VIAL: 14 INJ: 1

NOTE:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIHARL 2542 LOW SOILS/PEST QUANT
ENGIALBA 2562 LOW SOILS/PEST QUANT
VERSCDM 2536 MED SOILS/PEST CONF

CHART SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%




INST NO. ~~9~~ C 2.0 ul
3% SP2100
DATE 05 / 18 / 90 TIME 1018
SAMPLE B 762 AR1242 5.0ng

varian /sunnyvale.calif.n/n 03-906362-01

TITLE: CLP PESTICIDES 10:18 18 MAY 90

CHANNEL NO: 2 SAMPLE: B762 AR1242 METHOD: CLP-2A

| PEAK | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 976 | 1.730 | | 976 | VV | ? | 4.20 |
| 2 | A-BHC | 7607 | 1.877 | 0.017 | 7607 | VV | | 5.10 |
| 3 | G-BHC | 715 | 2.089 | -0.101 | 715 | VV | | 5.35 |
| 4 | | 12283 | 2.383 | | 12283 | VV | | 6.80 |
| 5 | | 9277 | 2.632 | | 9277 | VV | | 6.95 |
| 6 | | 30771 | 3.083 | | 30771 | VV | | 8.85 |
| 7 | | 20990 | 3.284 | | 20990 | VV | ? | 15.80 |
| 8 | | 14568 | 3.893 | | 14568 | VV | ? | 19.85 |
| 9 | ALDRIN | 13529 | 4.311 | -0.099 | 13529 | VV | | 14.40 |
| 10 | | 13341 | 4.598 | | 13341 | VV | ? | 14.15 |
| 11 | HEPT EPOX | 30281 | 5.492 | 0.092 | 30281 | VV | | 20.65 |
| 12 | G-CHLORDAN | 15117 | 6.118 | -0.082 | 15117 | VV | | 17.50 |
| 13 | A-ENDOSULF | 5724 | 6.542 | -0.208 | 5724 | VV | ? | 37.90 |
| 14 | | 5187 | 7.619 | | 5187 | VV | ? | 28.70 |
| 15 | DDE/DIELD. | 5287 | 8.075 | 0.185 | 5287 | VV | ? | 29.05 |
| 16 | ENDRIN | 1048 | 8.598 | -0.222 | 1048 | VV | ? | 26.85 |
| 17 | DDD | 5427 | 9.658 | -0.302 | 5427 | VV | | 25.00 |
| 18 | ESS | 3669 | 11.224 | -0.406 | 3669 | VV | | 30.80 |
| 19 | DDT | 1107 | 13.388 | 0.288 | 1107 | VV | | 29.60 |
| 20 | END KETONE | 1236 | 15.419 | 0.449 | 1236 | VB | | 44.80 |
| 21 | | 1267 | 21.570 | | 1267 | BB | ? | 48.95 |
| 22 | DBC | 31374 | 26.696 | -0.294 | 31374 | BB | | 69.85 |
| TOTALS: | | 230781 | | -0.683 | 230781 | | | |

DETECTED PKS: 25 REJECTED PKS: 3

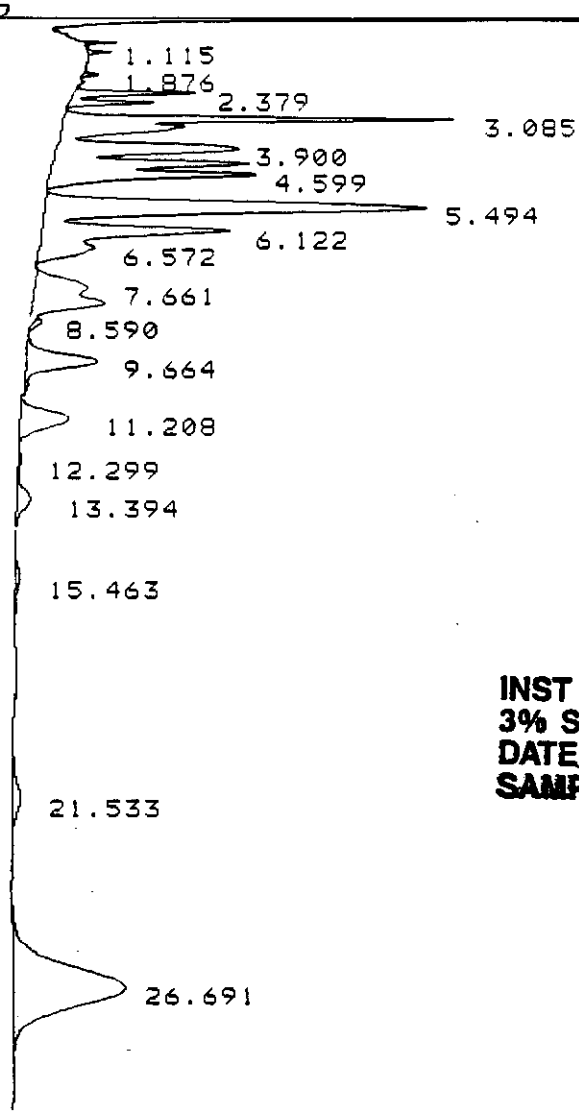
DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 7.3 OFFSET: 0

RACK: 1 VIAL: 13 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIBLOM B.2 CTL2660 CLP PEST SOIL
VERSCDM B.4 CTL2565 CLP PEST SOIL

CHART SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%




INST NO. ~~9~~ C 2.0 ul
3% SP2100
DATE 05/18/96 TIME 1051
SAMPLE B948 AR1248 2.0mg

100264

TITLE: CLP PESTICIDES 10:51 18 MAY 90

CHANNEL NO: 2 SAMPLE: B948 AR1248 METHOD: CLP-2A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 2691 | 2.379 | | 2691 | BV | | 6.30 |
| 2 | | 1854 | 2.633 | | 1854 | VB | | 6.00 |
| 3 | | 11151 | 3.085 | | 11151 | BV | | 8.15 |
| 4 | | 5850 | 3.288 | | 5850 | VV | ? | 15.75 |
| 5 | | 10835 | 3.900 | | 10835 | VV | ? | 18.80 |
| 6 | ALDRIN | 8178 | 4.301 | -0.109 | 8178 | VV | | 12.60 |
| 7 | | 9199 | 4.599 | | 9199 | VV | | 11.95 |
| 8 | HEPT EPOX | 25823 | 5.494 | 0.094 | 25823 | VV | | 20.10 |
| 9 | G-CHLORDAN | 10707 | 6.122 | -0.078 | 10707 | VV | | 15.70 |
| 10 | A-ENDOSULF | 4012 | 6.572 | -0.178 | 4012 | VB | ? | 27.30 |
| 11 | | 4293 | 7.661 | | 4293 | BV | ? | 29.40 |
| 12 | DDE/DIELD. | 5481 | 8.081 | 0.191 | 5481 | VV | ? | 24.40 |
| 13 | DDD | 6192 | 9.664 | -0.296 | 6192 | VV | | 23.40 |
| 14 | ESS | 4895 | 11.208 | -0.422 | 4895 | VV | | 29.35 |
| 15 | DDT | 1672 | 13.394 | 0.294 | 1672 | VB | | 31.20 |
| 16 | END KETONE | 876 | 15.463 | 0.493 | 876 | BB | | 40.00 |
| 17 | | 1744 | 21.533 | | 1744 | BB | | 54.40 |
| 18 | DBC | 28094 | 26.691 | -0.299 | 28094 | BB | | 71.05 |
| TOTALS: | | 143547 | | -0.310 | 143547 | | | |

DETECTED PKS: 23 REJECTED PKS: 5

DIVISOR: 1.00000 MULTIPLIER: 10000.0

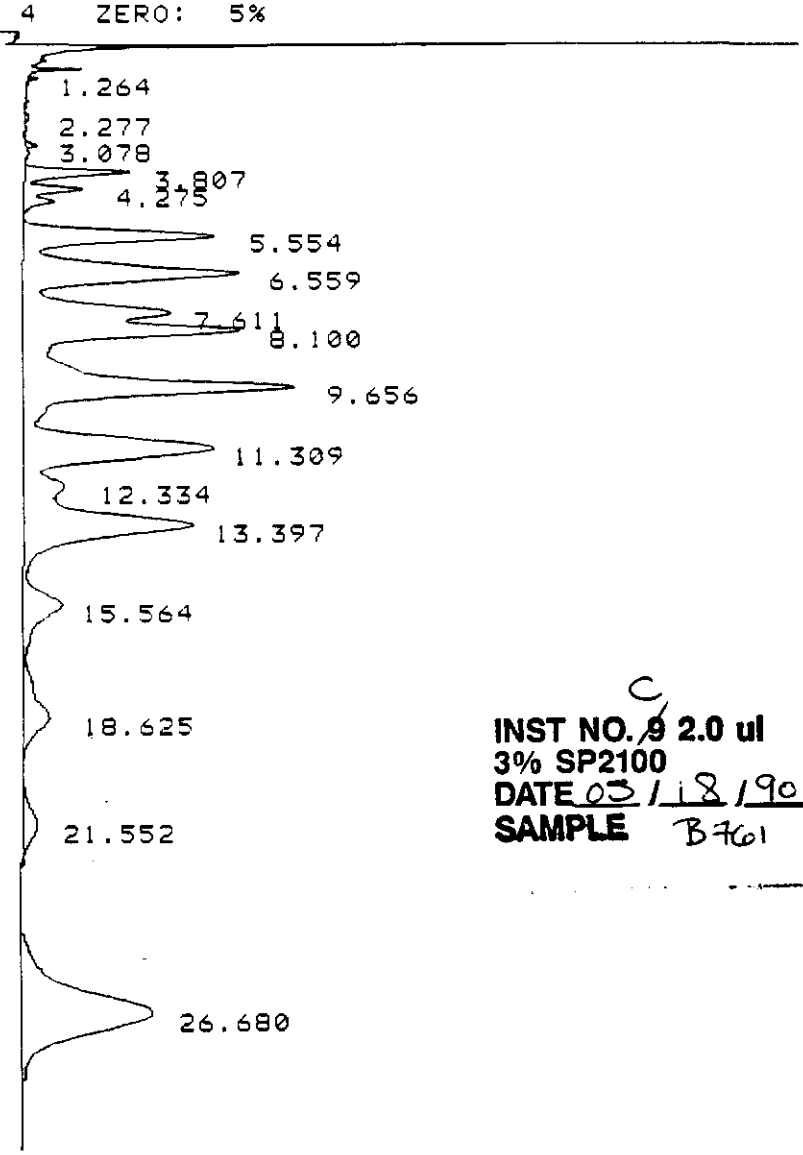
NOISE: 7.3 OFFSET: -15

RACK: 1 VIAL: 14 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIBLOM B.2 CTL2660 CLP PEST SOIL
VERSCDM B.4 CTL2565 CLP PEST SOIL

varian / sunnyvale, calif. p/n 03-906362-01

CHART SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%




INST NO. ~~9~~ C 2.0 ul
3% SP2100
DATE 03/18/90 TIME 1125
SAMPLE B761 AR1254
2.0 mg

varian / sunnyvale, calif. p/n 03-906362-01

100266

TITLE: CLP PESTICIDES 11:25 18 MAY 90

CHANNEL NO: 2 SAMPLE: B761 AR1254 METHOD: CLP-2A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | | 4256 | 3.807 | | 4256 | BV | 11.45 |
| | ALDRIN | 2262 | 4.275 | -0.135 | 2262 | VV | 10.90 |
| 3 | | 1359 | 4.596 | | 1359 | VV | 11.60 |
| 4 | HEPT EPOX | 13584 | 5.554 | 0.154 | 13584 | VV | ? 20.65 |
| 5 | A-ENDOSULF | 20417 | 6.559 | -0.191 | 20417 | VV | ? 25.40 |
| 6 | | 12860 | 7.611 | | 12860 | VV | ? 27.80 |
| 7 | DDE/DIELD. | 17663 | 8.100 | 0.210 | 17663 | VV | 24.25 |
| 8 | DDD | 30262 | 9.656 | -0.304 | 30262 | VV | 26.05 |
| 9 | ESS | 24099 | 11.309 | -0.321 | 24099 | VV | 37.25 |
| 10 | | 4576 | 12.334 | | 4576 | VV | ? 35.70 |
| 11 | DDT | 24613 | 13.397 | 0.297 | 24613 | VV | 37.65 |
| 12 | END KETONE | 6901 | 15.564 | 0.594 | 6901 | VV | 42.15 |
| 13 | | 6279 | 18.625 | | 6279 | VB | 51.20 |
| 14 | | 3221 | 21.552 | | 3221 | BB | 54.40 |
| 15 | DBC | 33088 | 26.680 | -0.310 | 33088 | BB | 69.95 |
| TOTALS: | | 205440 | | -0.006 | 205440 | | |

DETECTED PKS: 19 REJECTED PKS: 4

.VISOR: 1.00000 MULTIPLIER: 10000.0

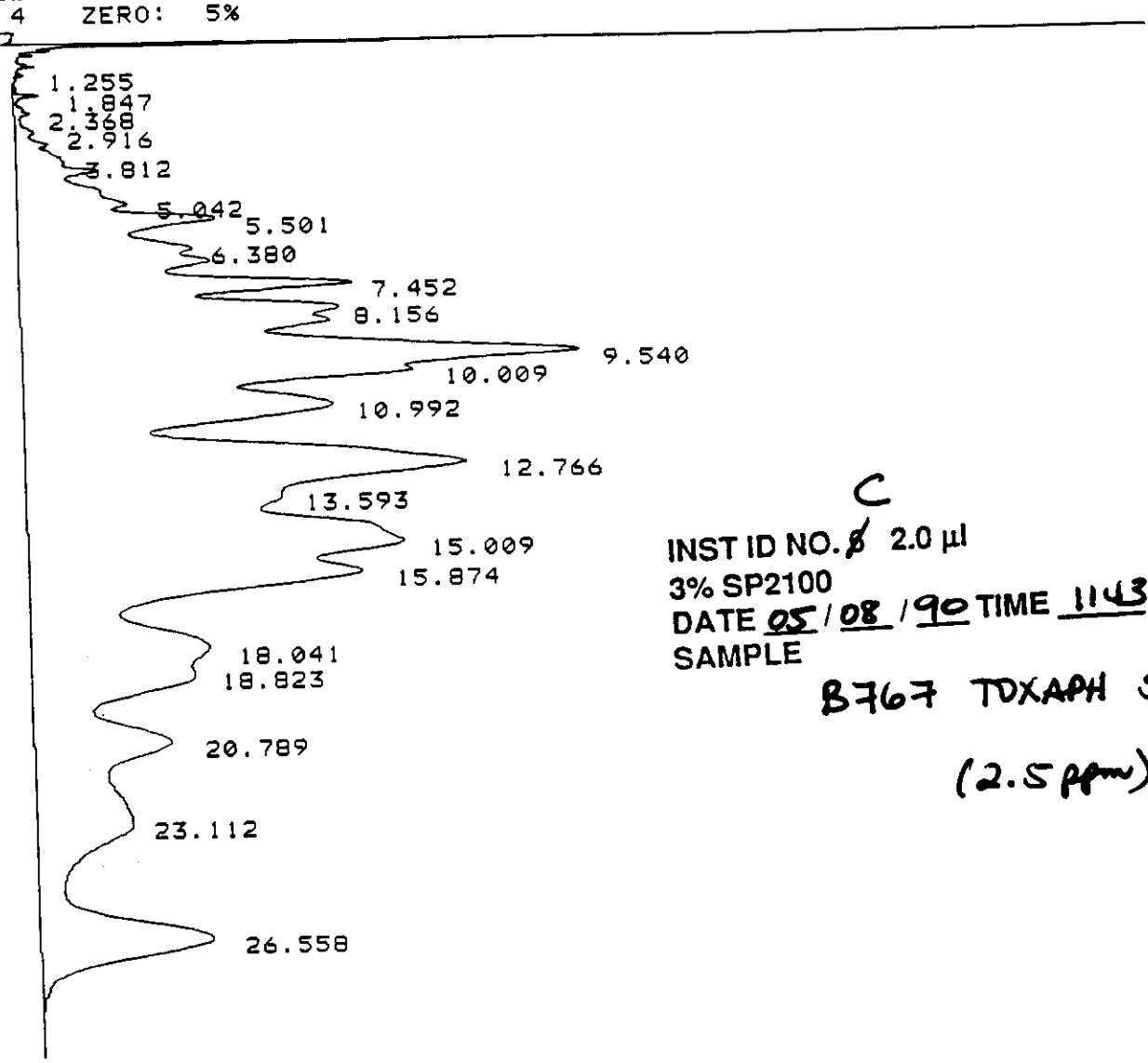
NOISE: 7.3 OFFSET: -17

RACK: 2 VIAL: 1 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
^RT= OUTSIDE RETENTION TIME WINDOW
IGIBLOM B.2 CTL2660 CLP PEST SOIL
VERSCDM B.4 CTL2565 CLP PEST SOIL

varian /sunnyvale,calif.p/n 03-

CHART SPEED 0.5 CM/MIN
ATT : 4 ZERO: 5%




INST ID NO. ~~B~~ C 2.0 µl
3% SP2100
DATE 05 / 08 / 90 TIME 1143
SAMPLE
B767 TOXAPH 5.0ng
(2.5 ppm)

varian /sunnyv. calif. p/n 03-906362-00

100268

TITLE: CLP PESTICIDES 11:43 8 MAY 90

CHANNEL NO: 2 SAMPLE: B767 TOXAPH METHOD: CLP-2A

| PEAK # | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | | 1304 | 2.916 | | 1304 | VV | ? 13.90 |
| 2 | | 1561 | 3.276 | | 1561 | VV | ? 13.90 |
| 3 | | 4183 | 3.812 | | 4183 | VV | ? 29.50 |
| 4 | | 5107 | 4.061 | | 5107 | VV | ? 19.30 |
| 5 | | 15657 | 5.042 | | 15657 | VV | ? 29.90 |
| 6 | HEPT EPOX | 22207 | 5.501 | 0.191 | 22207 | VV | ? 28.90 |
| 7 | A-ENDOSULF | 17908 | 6.380 | -0.250 | 17908 | VV | ? 49.60 |
| 8 | A-CHLORDAN | 18217 | 6.737 | -0.023 | 18217 | VV | ? 22.10 |
| 9 | DDE/DIELD. | 35752 | 7.452 | -0.318 | 35752 | VV | ? 35.80 |
| 10 | | 32354 | 8.156 | | 32354 | VV | ? 42.00 |
| 11 | ENDRIN | 28588 | 8.530 | -0.150 | 28588 | VV | ? 14.65 |
| 12 | DDD | 91464 | 9.540 | -0.250 | 91464 | VV | ? 57.70 |
| 13 | ENDRIN ALD | 34583 | 10.009 | 0.169 | 34583 | VV | ? 5.10 |
| 14 | ESS | 63701 | 10.992 | -0.458 | 63701 | VV | ? 55.00 |
| 15 | DDT | 116585 | 12.766 | -0.094 | 116585 | VV | ? 57.60 |
| 16 | | 21851 | 13.593 | | 21851 | VV | ? |
| 17 | END KETONE | 99558 | 15.009 | 0.279 | 99558 | VV | ?109.10 |
| 18 | | 68325 | 15.874 | | 68325 | VV | ? 31.10 |
| 19 | | 46841 | 18.041 | | 46841 | VV | ?108.20 |
| 20 | METHOXYCHL | 31630 | 18.823 | -0.467 | 31630 | VV | ? 88.10 |
| 21 | | 38366 | 20.789 | | 38366 | VV | ? 89.60 |
| 22 | | 44911 | 23.112 | | 44911 | VV | ?180.85 |
| 23 | DBC | 47653 | 26.558 | 0.028 | 47653 | VB | 73.95 |
| TOTALS: | | 888306 | | -1.343 | 888306 | | |

DETECTED PKS: 29 REJECTED PKS: 6

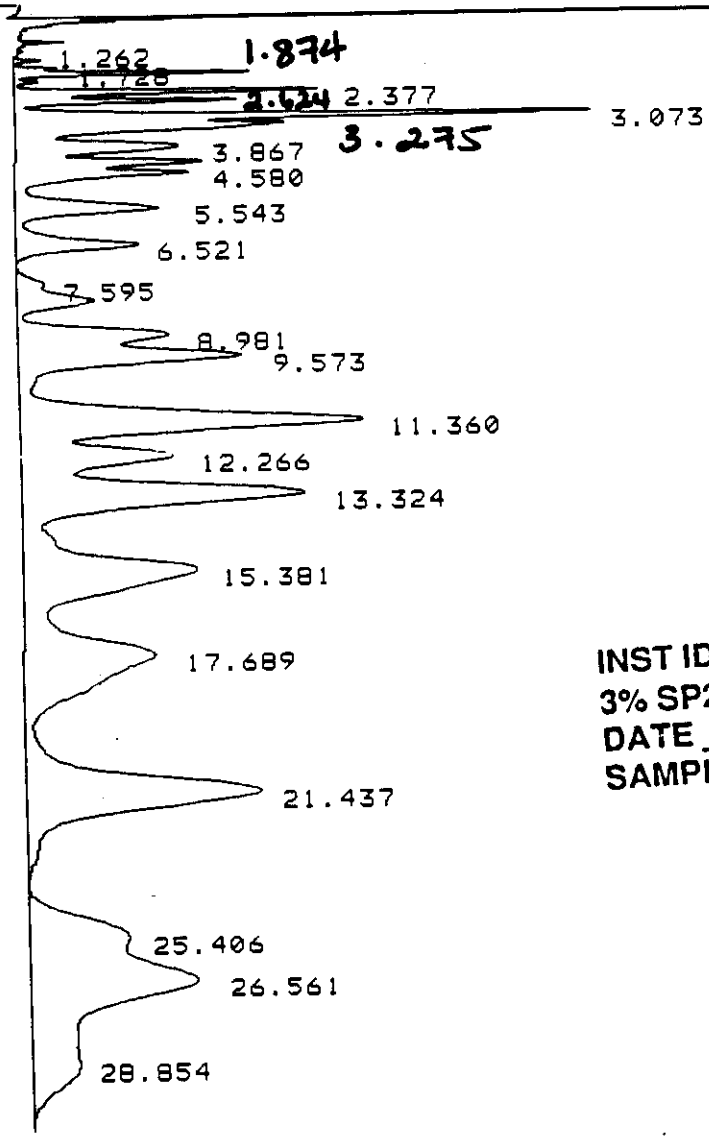
DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 6.1 OFFSET: -14

RACK: 1 VIAL: 10 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT* OUTSIDE RETENTION TIME WINDOW
ENGIHARL 2534 WATER PEST/CLP

CHART SPEED 0.5 CM/MIN
ATT: 4 ZERO: 5%




INST ID NO. ~~B~~ C 2.0 µl
3% SP2100
DATE 05 / 08 / 90 TIME 1216
SAMPLE B699 AR1660 20ng
(1.0 ppm)

100270

varian / sunnyvale calib p. n 03-906362-00

TITLE: CLP PESTICIDES 12:16 8 MAY 90

CHANNEL NO: 2 SAMPLE: B699 AR1660 METHOD: CLP-2A

| PK | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | A-BHC | 4408 | 1.874 | 0.044 | 4408 | VV | 5.25 |
| 2 | | 7335 | 2.377 | | 7335 | VV | 6.90 |
| 3 | | 5473 | 2.624 | | 5473 | VV | 7.05 |
| 4 | | 18563 | 3.073 | | 18563 | VV | 8.90 |
| 5 | | 13178 | 3.275 | | 13178 | VV | ? 16.35 |
| 6 | | 10218 | 3.867 | | 10218 | VV | ? 20.25 |
| 7 | ALDRIN | 8219 | 4.292 | -0.048 | 8219 | VV | 14.90 |
| 8 | | 8314 | 4.580 | | 8314 | VV | ? 14.15 |
| 9 | HEPT EPOX | 10064 | 5.543 | 0.233 | 10064 | VV | 20.50 |
| 10 | A-ENDOSULF | 8468 | 6.521 | -0.109 | 8468 | VV | 18.15 |
| 11 | DDE/DIELD. | 1523 | 7.595 | -0.175 | 1523 | VV | ? 24.20 |
| 12 | | 5974 | 8.034 | | 5974 | VV | 23.85 |
| 13 | B-ENDOSULF | 12916 | 8.981 | 0.091 | 12916 | VV | ? 25.50 |
| 14 | DDD | 20794 | 9.573 | -0.217 | 20794 | VV | ? 28.10 |
| 15 | ESS | 39798 | 11.360 | -0.090 | 39798 | VV | 32.70 |
| 16 | | 16571 | 12.266 | | 16571 | VV | 34.05 |
| 17 | DDT | 37183 | 13.324 | 0.464 | 37183 | VV | 37.35 |
| 18 | END KETONE | 36289 | 15.381 | 0.651 | 36289 | VV | 57.60 |
| 19 | | 36106 | 17.689 | | 36106 | VV | 80.30 |
| 20 | | 48608 | 21.437 | | 48608 | VV | 54.70 |
| 21 | | 17564 | 25.406 | | 17564 | VV | ? 72.90 |
| 22 | DBC | 44557 | 26.561 | 0.031 | 44557 | VV | ? 91.45 |
| 23 | | 14549 | 28.854 | | 14549 | VB | ? 99.50 |
| TOTALS: | | 426672 | | 0.875 | 426672 | | |

DETECTED PKS: 27 REJECTED PKS: 4

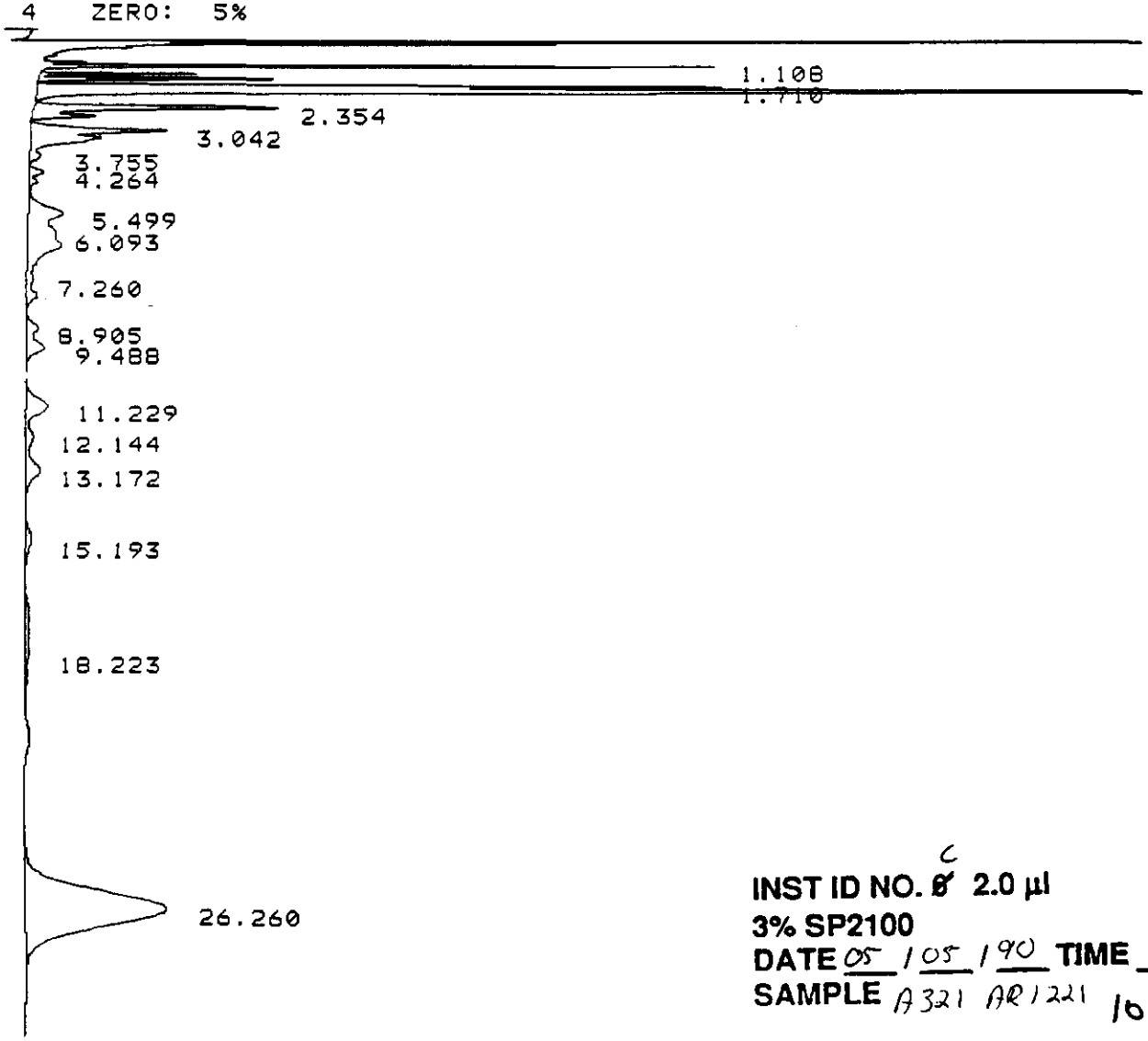
D SOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 6.1 OFFSET: -13

RACK: 1 VIAL: 11 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIHARL 2534 WATER PEST/CLP

CHART SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%




INST ID NO. ~~8~~ C 2.0 µl
3% SP2100
DATE 05 / 05 / 90 TIME 732
SAMPLE A321 AR1221 10. ng
(5.0 ppm)

100272

TITLE: CLP PESTICIDES 7:32 5 MAY 90

CHANNEL NO: 2 SAMPLE: A321 AR1221 METHOD: CLP-2A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 7152 | 1.108 | | 7152 | BB | | 2.85 |
| 2 | | 1921 | 1.351 | | 1921 | BV | | 3.30 |
| 3 | | 3361 | 1.496 | | 3361 | VV | | 3.85 |
| [illegible] | | 11086 | 1.710 | | 11086 | VV | ? | 4.30 |
| [illegible] | A-BHC | 34845 | 1.854 | 0.024 | 34845 | VV | | 5.80 |
| [illegible] | | 6966 | 2.354 | | 6966 | VV | ? | 7.45 |
| 7 | | 1585 | 2.596 | | 1585 | VV | ? | 6.90 |
| 8 | | 4951 | 3.042 | | 4951 | VV | | 9.05 |
| 9 | | 3616 | 3.236 | | 3616 | VV | ? | 15.90 |
| 10 | HEPT EPOX | 3425 | 5.499 | 0.189 | 3425 | VV | ? | 24.70 |
| 11 | G-CHLORDAN | 2076 | 6.093 | 0.003 | 2076 | VV | ? | 24.80 |
| 12 | A-ENDOSULF | 4120 | 6.441 | -0.189 | 4120 | VV | ? | 37.25 |
| 13 | DDE/DIELD. | 832 | 7.941 | 0.171 | 832 | VV | | 16.00 |
| 14 | B-ENDOSULF | 1073 | 8.905 | 0.015 | 1073 | VV | ? | 26.30 |
| 15 | DDD | 1668 | 9.488 | -0.302 | 1668 | VV | | 25.60 |
| 16 | ESS | 2653 | 11.229 | -0.221 | 2653 | VV | | 31.50 |
| 17 | | 1019 | 12.144 | | 1019 | VV | | 31.20 |
| 18 | DDT | 1867 | 13.172 | 0.312 | 1867 | VV | | 35.20 |
| 19 | END KETONE | 1105 | 15.193 | 0.463 | 1105 | VV | | 46.40 |
| 20 | | 1958 | 18.223 | | 1958 | VB | ? | |
| 21 | DBC | 36206 | 26.260 | -0.270 | 36206 | BB | ? | 58.35 |
| TOTALS: | | 133485 | | 0.195 | 133485 | | | |

DETECTED PKS: 25 REJECTED PKS: 4

DIVISOR: 1.00000 MULTIPLIER: 10000.0

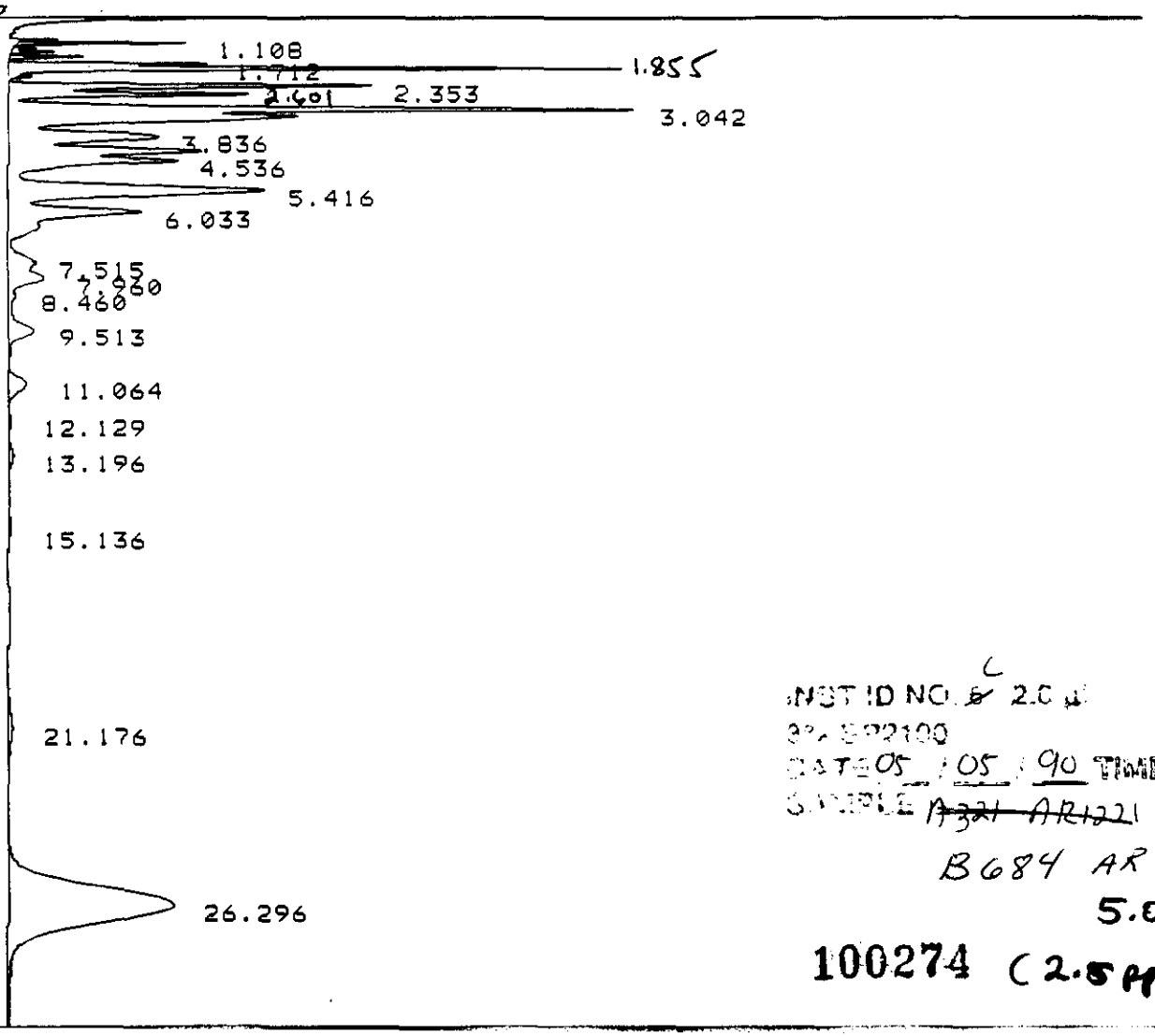
NOISE: 8.5 OFFSET: -1

RACK: 1 VIAL: 13 INJ: 1

NOTES:
[illegible]STRUMENT ID: C
[illegible]OLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
CLP STANDARDS - QUANT

100273

CHART SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%




INST ID NO. ~~6~~ C 2.0 µl
3% SP2100
DATE 05 / 05 / 90 TIME ~~732~~ 0856
SAMPLE ~~A321 AR1221~~
B684 AR 1232
5.0ng
100274 (2.5 ppm)

TITLE: CLP PESTICIDES 8:56 5 MAY 90

CHANNEL NO: 2 SAMPLE: B684 AR1232 METHOD: CLP-2A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 1735 | 1.108 | | 1735 | BV | | 2.80 |
| 2 | | 1019 | 1.497 | | 1019 | VV | | 3.75 |
| | | 3139 | 1.712 | | 3139 | VV | ? | 4.40 |
| | A-BHC | 13115 | 1.855 | 0.025 | 13115 | VV | | 5.50 |
| 5 | | 9573 | 2.353 | | 9573 | VV | | 7.00 |
| 6 | | 6440 | 2.601 | | 6440 | VV | | 7.10 |
| 7 | | 21582 | 3.042 | | 21582 | VV | | 8.90 |
| 8 | | 14939 | 3.242 | | 14939 | VV | ? | 16.35 |
| 9 | | 9898 | 3.836 | | 9898 | VV | ? | 19.35 |
| 10 | ALDRIN | 9157 | 4.251 | -0.089 | 9157 | VV | | 14.55 |
| 11 | | 8798 | 4.536 | | 8798 | VV | ? | 14.45 |
| 12 | HEPT EPOX | 18881 | 5.416 | 0.106 | 18881 | VV | | 19.80 |
| 13 | G-CHLORDAN | 8482 | 6.033 | -0.057 | 8482 | VV | | 16.25 |
| 14 | A-ENDOSULF | 2228 | 6.441 | -0.189 | 2228 | VV | ? | 28.80 |
| 15 | | 2623 | 7.515 | | 2623 | VV | ? | 27.80 |
| 16 | DDE/DIELD. | 3002 | 7.960 | 0.190 | 3002 | VV | ? | 27.25 |
| 17 | DDD | 2957 | 9.513 | -0.277 | 2957 | VV | | 23.70 |
| 18 | ESS | 2175 | 11.064 | -0.386 | 2175 | VV | | 31.70 |
| 19 | DDT | 807 | 13.196 | 0.336 | 807 | VB | | 33.60 |
| 20 | | 1010 | 21.176 | | 1010 | BB | | 51.20 |
| 21 | DBC | 43309 | 26.296 | -0.234 | 43309 | BB | | 68.65 |
| TOTALS: | | 184869 | | -0.575 | 184869 | | | |

DETECTED PKS: 27 REJECTED PKS: 6

DIVISOR: 1.00000 MULTIPLIER: 10000.0

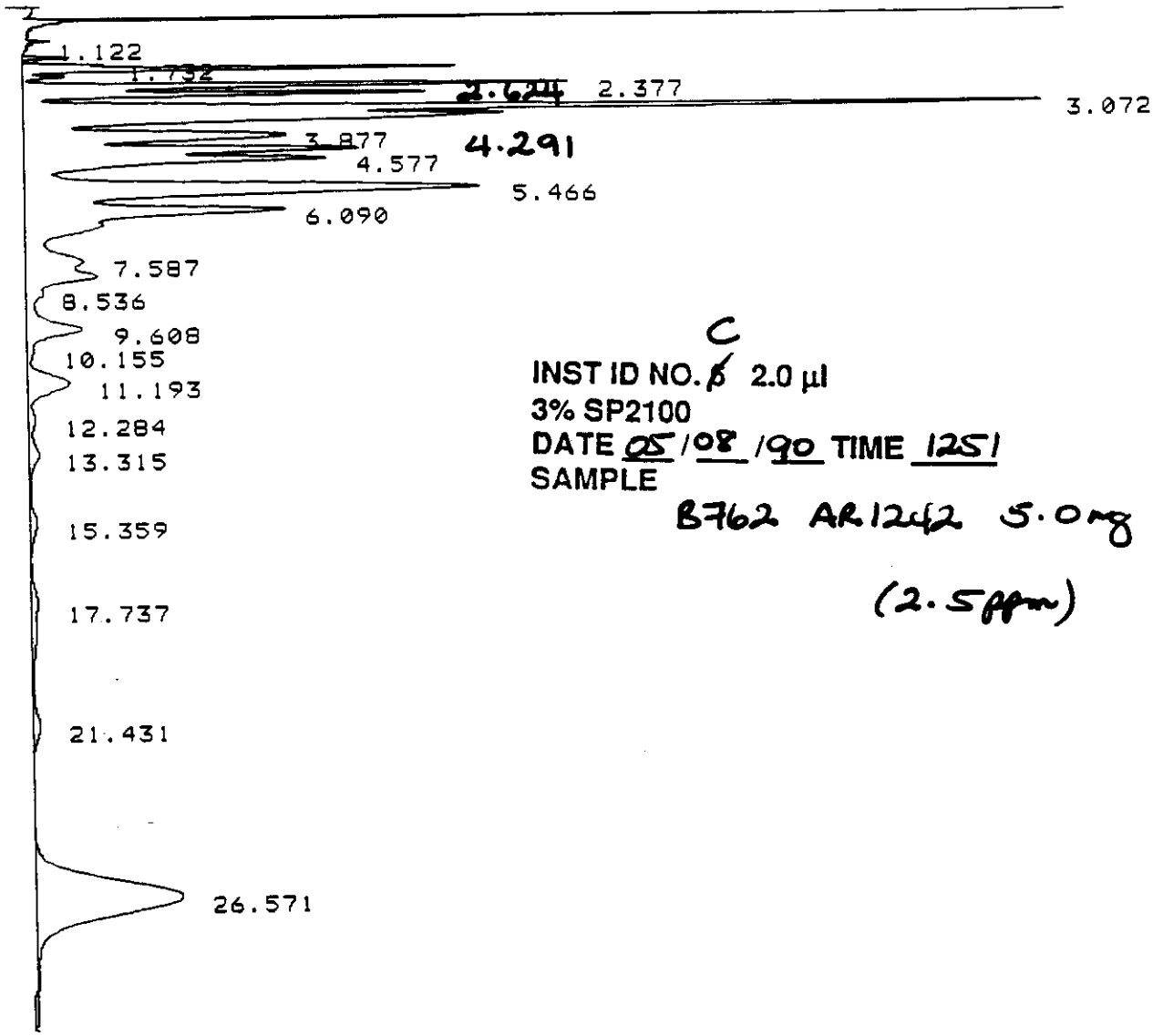
NOISE: 6.1 OFFSET: -14

RACK: 1 VIAL: 14 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIHARL 2542 LOW SOILS/PEST QUANT
ENGIALBA 2562 LOW SOILS/PEST QUANT
VERSCDM 2536 MED SOILS/PEST CONF

036362-00

CHART SPEED 0.5 CM/MIN
ATT : 4 ZERO: 5%




INST ID NO. ~~B~~ C 2.0 µl
3% SP2100
DATE 05 /08 /90 TIME 1251
SAMPLE
B762 AR1242 5.0mg
(2.5ppm)

TITLE: CLP PESTICIDES 12:51 8 MAY 90

CHANNEL NO: 2 SAMPLE: B762 AR1242 METHOD: CLP-2A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| | | 1189 | 1.732 | | 1189 | VV | ? 4.60 |
| | A-BHC | 9203 | 1.874 | 0.044 | 9203 | VV | 5.35 |
| 3 | G-BHC | 903 | 2.085 | -0.075 | 903 | VV | 5.55 |
| 4 | | 14512 | 2.377 | | 14512 | VV | 7.00 |
| 5 | | 11082 | 2.624 | | 11082 | VV | 7.15 |
| 6 | | 36165 | 3.072 | | 36165 | VV | 8.95 |
| 7 | | 24961 | 3.272 | | 24961 | VV | ? 16.20 |
| 8 | | 17675 | 3.877 | | 17675 | VV | ? 20.00 |
| 9 | ALDRIN | 16228 | 4.291 | -0.049 | 16228 | VV | 15.00 |
| 10 | | 16351 | 4.577 | | 16351 | VV | ? 14.75 |
| 11 | HEPT EPOX | 36921 | 5.466 | 0.156 | 36921 | VV | 21.05 |
| 12 | G-CHLORDAN | 18586 | 6.090 | 0.000 | 18586 | VV | 18.25 |
| 13 | A-ENDOSULF | 6767 | 6.501 | -0.129 | 6767 | VV | ? 38.55 |
| 14 | DDE/DIELD. | 6411 | 7.587 | -0.183 | 6411 | VV | ? 28.90 |
| 15 | | 6462 | 8.035 | | 6462 | VV | ? 29.95 |
| 16 | ENDRIN | 1429 | 8.536 | -0.144 | 1429 | VV | 5.60 |
| 17 | DDD | 6564 | 9.608 | -0.182 | 6564 | VV | 26.65 |
| 18 | ESS | 5738 | 11.193 | -0.257 | 5738 | VV | 34.30 |
| 19 | | 1084 | 12.284 | | 1084 | VV | ? 35.70 |
| 20 | DDT | 1941 | 13.315 | 0.455 | 1941 | VV | ? 53.10 |
| 21 | END KETONE | 1733 | 15.359 | 0.629 | 1733 | VV | 48.00 |
| 22 | | 3244 | 17.737 | | 3244 | VV | 118.40 |
| 23 | | 1750 | 21.431 | | 1750 | VB | 54.40 |
| 24 | DBC | 39912 | 26.571 | 0.041 | 39912 | BB | 69.20 |
| TOTALS: | | 286811 | | 0.306 | 286811 | | |

DETECTED PKS: 28 REJECTED PKS: 4

DIVISOR: 1.00000 MULTIPLIER: 10000.0

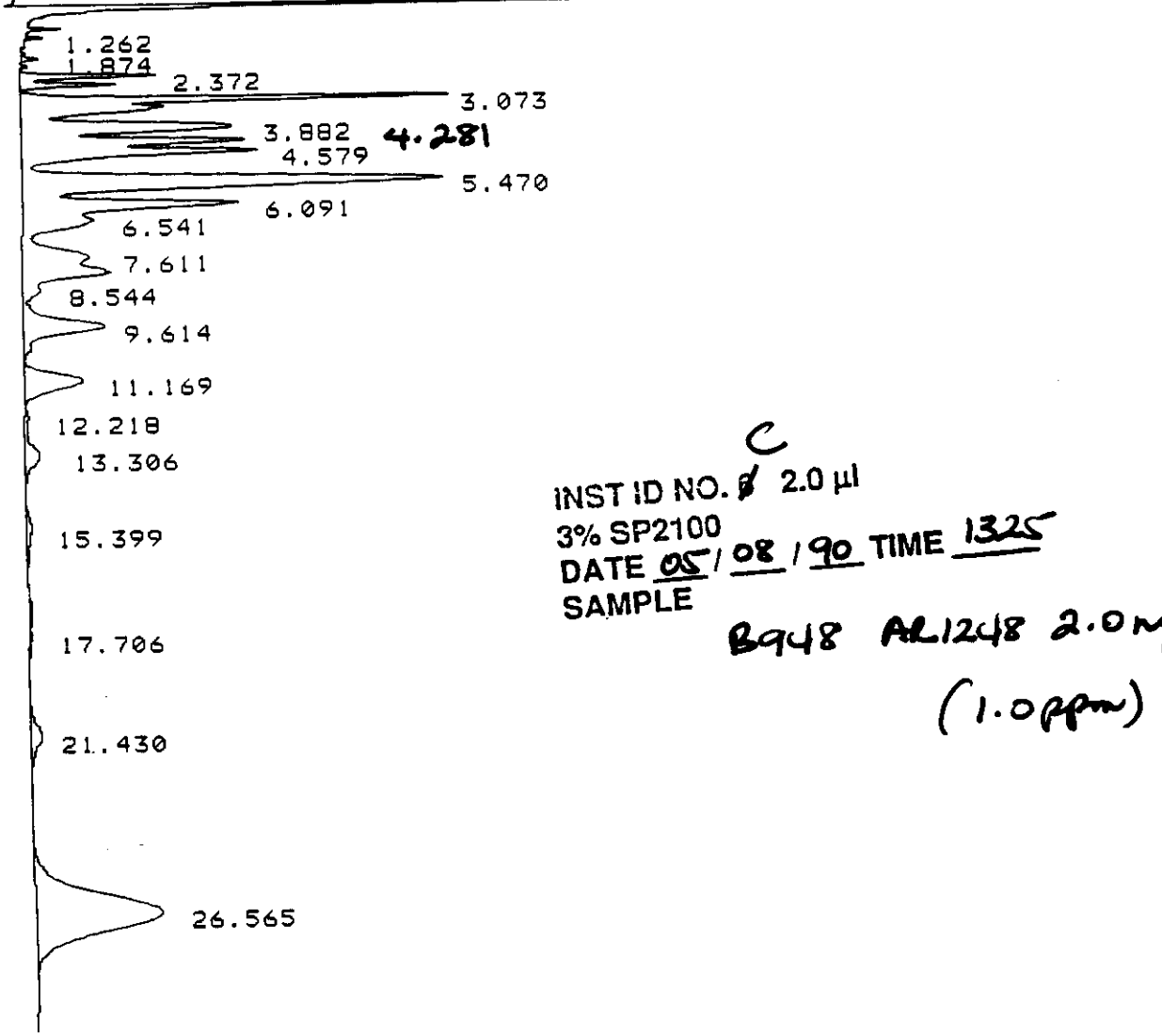
N E: 6.1 OFFSET: -2

RACK: 1 VIAL: 13 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIHARL 2534 WATER PEST/CLP

varian /sunnyvale,calif.p/n 03 906362.00

CHART SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%




INST ID NO. ~~B~~ C 2.0 µl
3% SP2100
DATE 05 / 08 / 90 TIME 1325
SAMPLE
B948 AR1248 2.0 mg
(1.0 ppm)

varian /sunnyvale, calif. p/n 03-9[illegible]362 00

100278

TITLE: CLP PESTICIDES 13:25 8 MAY 90

CHANNEL NO: 2 SAMPLE: B948 AR1248 METHOD: CLP-2A

| PE | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | | 3235 | 2.372 | | 3235 | BV | 6.65 |
| 2 | | 2310 | 2.624 | | 2310 | VV | 6.65 |
| 3 | | 13232 | 3.073 | | 13232 | VV | 8.35 |
| 4 | | 7613 | 3.277 | | 7613 | VV | ? 17.55 |
| 5 | | 13561 | 3.882 | | 13561 | VV | ? 19.80 |
| 6 | ALDRIN | 10071 | 4.281 | -0.059 | 10071 | VV | 14.20 |
| 7 | | 11818 | 4.579 | | 11818 | VV | 13.65 |
| 8 | HEPT EPOX | 31110 | 5.470 | 0.160 | 31110 | VV | 20.60 |
| 9 | G-CHLORDAN | 13456 | 6.091 | 0.001 | 13456 | VV | 16.75 |
| 10 | A-ENDOSULF | 5860 | 6.541 | -0.089 | 5860 | VV | ? 33.55 |
| 11 | DDE/DIELD. | 6267 | 7.611 | -0.159 | 6267 | VV | ? 28.60 |
| 12 | | 6944 | 8.042 | | 6944 | VV | ? 27.75 |
| 13 | ENDRIN | 1092 | 8.544 | -0.132 | 1092 | VV | ? 20.30 |
| 14 | DDD | 8156 | 9.614 | -0.176 | 8156 | VV | 24.35 |
| 15 | ESS | 6560 | 11.169 | -0.281 | 6560 | VV | 30.55 |
| 16 | DDT | 2019 | 13.306 | 0.446 | 2019 | VB | 33.60 |
| 17 | END KETONE | 1175 | 15.399 | 0.669 | 1175 | BB | 54.40 |
| 18 | | 2029 | 21.430 | | 2029 | BV | 54.40 |
| 19 | DBC | 32399 | 26.565 | 0.035 | 32399 | VB | 70.50 |
| TOTALS: | | 178907 | | 0.411 | 178907 | | |

DETECTED PKS: 24 REJECTED PKS: 5

DIVISOR: 1.00000 MULTIPLIER: 10000.0

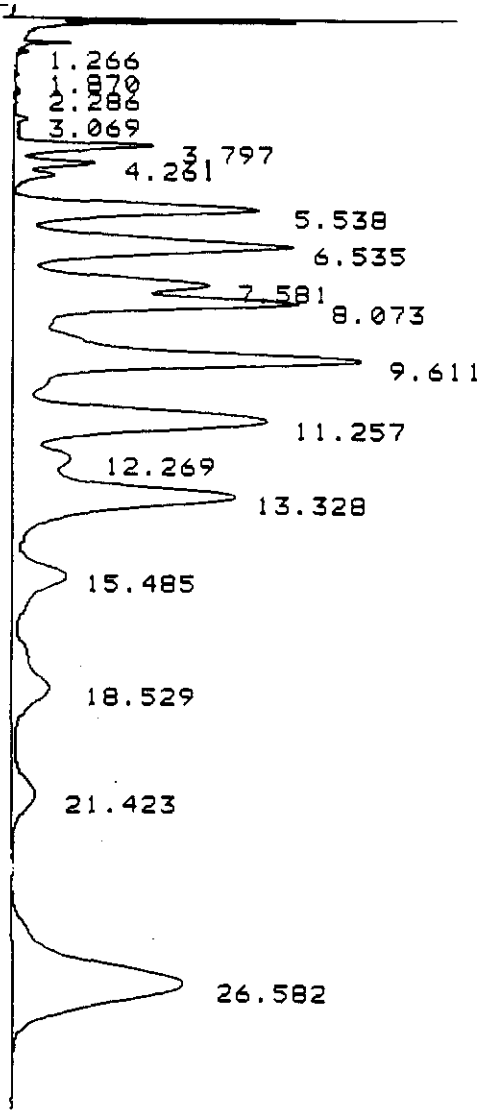
NOISE: 6.1 OFFSET: -6

R/ : 1 VIAL: 14 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIHARL 2534 WATER PEST/CLP

ivvale, calif. p/n 03-906362-00

CHART SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%




INST ID NO. ~~B~~ C 2.0 µl
3% SP2100
DATE 05 / 08 / 90 TIME 1358
SAMPLE
B761 AR1254 2.0ng
(1.0 ppm)

TITLE: CLP PESTICIDES 13:58 8 MAY 90

C' NEL NO: 2 SAMPLE: B761 AR1254 METHOD: CLP-2A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 6035 | 3.797 | | 6035 | VV | ? | 9.50 |
| 2 | ALDRIN | 3086 | 4.261 | -0.079 | 3086 | VV | | 11.30 |
| 3 | | 1922 | 4.581 | | 1922 | VV | | 13.60 |
| 4 | HEPT EPOX | 17768 | 5.538 | 0.228 | 17768 | VV | ? | 21.00 |
| 5 | A-ENDOSULF | 26816 | 6.535 | -0.095 | 26816 | VV | | 27.60 |
| 6 | DDE/DIELD. | 16956 | 7.581 | -0.189 | 16956 | VV | ? | 28.40 |
| 7 | | 23297 | 8.073 | | 23297 | VV | ? | 25.10 |
| 8 | DDD | 40059 | 9.611 | -0.179 | 40059 | VV | | 26.55 |
| 9 | ESS | 32338 | 11.257 | -0.193 | 32338 | VV | | 37.65 |
| 10 | | 6358 | 12.269 | | 6358 | VV | ? | 38.80 |
| 11 | DDT | 33098 | 13.328 | 0.468 | 33098 | VV | | 38.85 |
| 12 | | 9957 | 15.485 | | 9957 | VV | | 46.30 |
| 13 | METHOXYCHL | 9677 | 18.529 | -0.761 | 9677 | VV | ? | 61.45 |
| 14 | | 5104 | 21.423 | | 5104 | VB | ? | 59.35 |
| 15 | DBC | 43648 | 26.582 | 0.052 | 43648 | BB | | 70.45 |
| TALS: | | 276119 | | -0.748 | 276119 | | | |

DETECTED PKS: 21 REJECTED PKS: 6

DIVISOR: 1.00000 MULTIPLIER: 10000.0

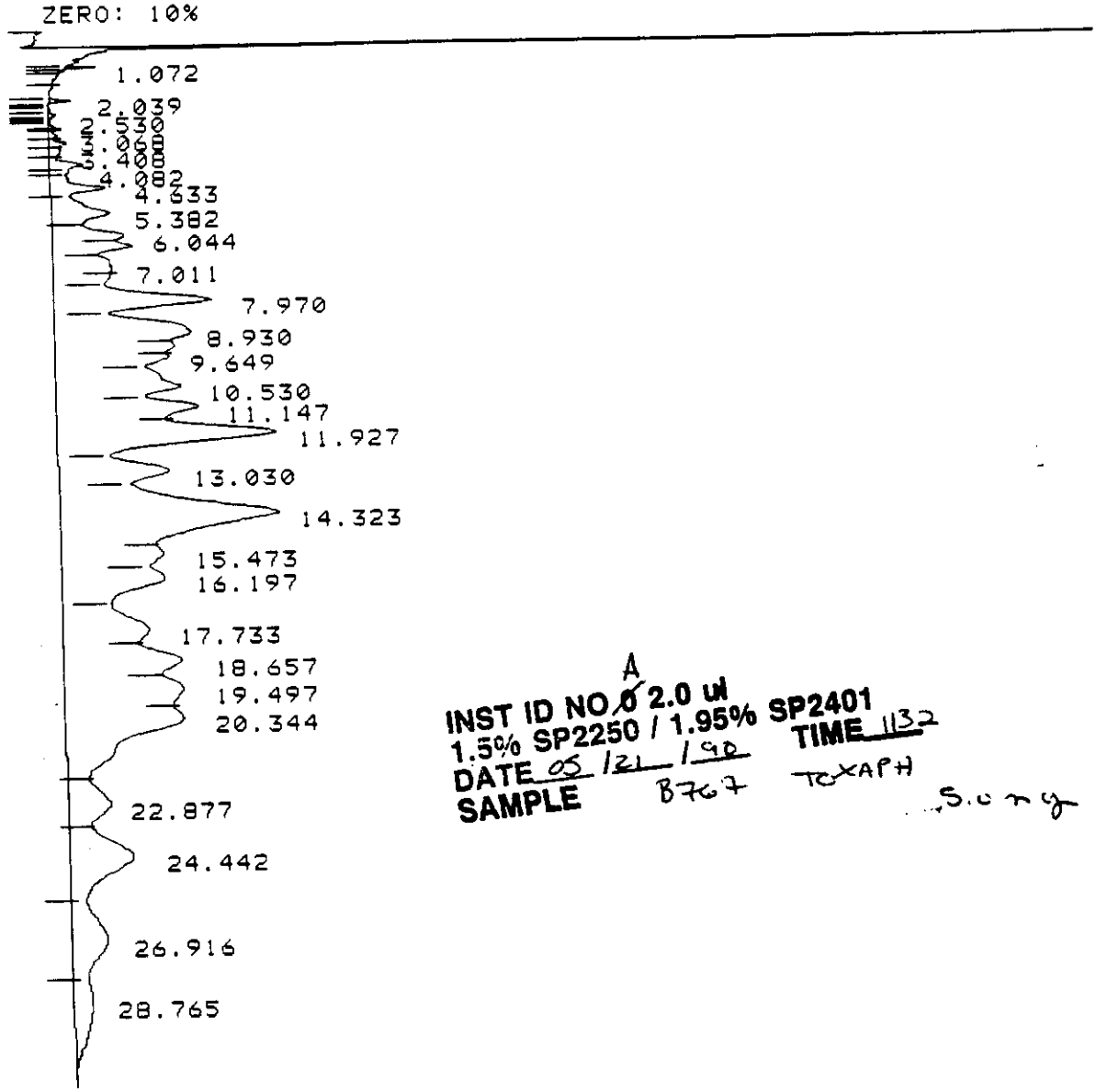
NOISE: 6.1 OFFSET: -8

RACK: 2 VIAL: 1 INJ: 1

N S:
STRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIHARL 2534 WATER PEST/CLP

varian /sunnyvale,calif.p/n 03-906362-00

CH/ ?T SPEED 0.5 CM/MIN
AT N: 16 ZERO: 10%




INST ID NO ~~0~~ A 2.0 ul
1.5% SP2250 / 1.95% SP2401
DATE 05 /21 /90 TIME 1132
SAMPLE B767 TOXAPH
S.o n g

varian /sunnyvale, calif.p/n 03-906362-01

100282

TITLE: CLP PESTICIDES 11:32 21 MAY 90

CHANNEL NO: 3 SAMPLE: B767 TOXAPH METHOD: CLP-3A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 1160 | 1.072 | | 1160 | BB | | 2.20 |
| | A-BHC | 1389 | 2.039 | -0.041 | 1389 | BB | | 4.15 |
| | | 625 | 2.449 | | 625 | BV | | 6.25 |
| 4 | B-BHC | 558 | 2.844 | -0.046 | 558 | VV | ? | 6.90 |
| 5 | HEPTACHLOR | 1233 | 3.068 | -0.052 | 1233 | VV | ? | 10.65 |
| 6 | | 2395 | 3.308 | | 2395 | VV | ? | 9.40 |
| 7 | D-BHC | 2518 | 3.408 | 0.048 | 2518 | VV | ? | |
| 8 | | 6326 | 3.931 | | 6326 | VV | ? | 12.20 |
| 9 | | 2117 | 4.082 | | 2117 | VV | ? | |
| 10 | | 14924 | 4.633 | | 14924 | VV | ? | 14.70 |
| 11 | HEPT EPOX | 26480 | 5.382 | -0.058 | 26480 | VV | ? | 13.90 |
| 12 | G-CHLORDAN | 22552 | 6.044 | 0.024 | 22552 | VV | ? | 28.50 |
| 13 | A-CHLORDAN | 22047 | 6.360 | -0.180 | 22047 | VV | ? | 14.40 |
| 14 | | 24818 | 7.011 | | 24818 | VV | ? | 29.30 |
| 15 | | 15906 | 7.136 | | 15906 | VV | ? | |
| 16 | | 70878 | 7.970 | | 70878 | VV | ? | 31.40 |
| 17 | | 77438 | 8.930 | | 77438 | VV | ? | 29.20 |
| 18 | | 33983 | 9.316 | | 33983 | VV | ? | 10.30 |
| 19 | | 34541 | 9.649 | | 34541 | VV | ? | 6.70 |
| 20 | | 77854 | 10.530 | | 77854 | VV | ? | 41.90 |
| 21 | | 64326 | 11.147 | | 64326 | VV | ? | 32.90 |
| 22 | B-ENDOSULF | 122615 | 11.927 | -0.023 | 122615 | VV | | 44.90 |
| 23 | | 62206 | 13.030 | | 62206 | VV | ? | 50.90 |
| 24 | | 208774 | 14.323 | | 208774 | VV | ? | 73.10 |
| 25 | ENDRIN ALD | 51371 | 15.473 | 0.203 | 51371 | VV | ? | 20.80 |
| 26 | | 71909 | 16.197 | | 71909 | VV | ? | 27.55 |
| 27 | | 68154 | 17.733 | | 68154 | VV | ? | 80.80 |
| 28 | ESS | 79156 | 18.657 | 0.407 | 79156 | VV | ? | 57.30 |
| 29 | | 83370 | 19.497 | | 83370 | VV | ? | 42.90 |
| 30 | | 121012 | 20.344 | | 121012 | VV | ? | 92.15 |
| 31 | DBC | 38447 | 22.877 | -0.463 | 38447 | VV | ? | 77.40 |
| 32 | ENDRIN KET | 70753 | 24.442 | -0.618 | 70753 | VV | ? | 172.70 |
| | | 48352 | 26.916 | | 48352 | VV | ? | 114.00 |
| 34 | | 28770 | 28.765 | | 28770 | VB | ? | 54.40 |
| TOTALS: | | 1558960 | | -0.799 | 1558960 | | | |

DETECTED PKS: 37 REJECTED PKS: 3

DIVISOR: 1.00000 MULTIPLIER: 10000.0

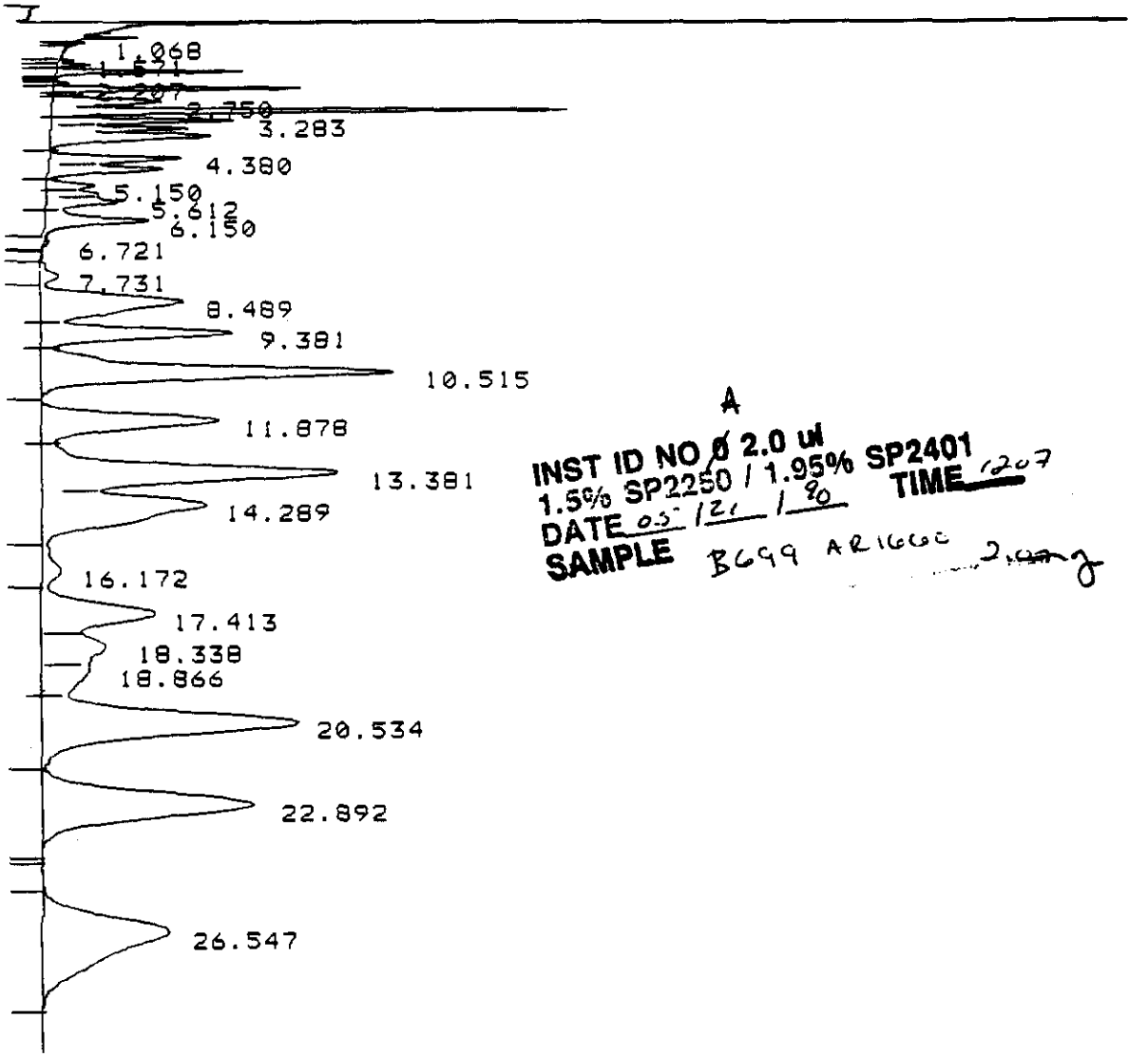
ISE: 29.1 OFFSET: -25

RACK: 1 VIAL: 10 INJ: 1

NOTES:
COL: 1.5% SP2250/1.95% SP2401
AMT INJ.2UL/INSTRUMENT LETTER A
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIBLOM CTL 2660 PEST SOILS
VERSCDM CTL 2562 PEST SOIL

varian /sunnyvale,calif.p/n 03-906362-01

CH[illegible]T SPEED 0.5 CM/MIN
AT[illegible]N: 16 ZERO: 10%




A
INST ID NO ~~0~~ 2.0 ul
1.5% SP2250 / 1.95% SP2401
DATE 05 / 21 / 90 TIME 1207
SAMPLE B699 AR1660 2.0mg

varian / sunnyv

rale, calif. p/n 03-906362-01

TITLE: CLP PESTICIDES 12:07 21 MAY 90

CHANNEL NO: 3 SAMPLE: B699 AR1660 METHOD: CLP-3A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| | | 755 | 1.571 | | 755 | BV | | 3.45 |
| 2 | | 1594 | 1.689 | | 1594 | VV | | 3.55 |
| 3 | | 12676 | 1.892 | | 12676 | VB | | 4.45 |
| 4 | | 868 | 2.207 | | 868 | BV | | 4.65 |
| 5 | | 18572 | 2.375 | | 18572 | VV | | 5.15 |
| 6 | G-BHC | 1932 | 2.522 | -0.058 | 1932 | VV | ? | 3.40 |
| 7 | | 15816 | 2.750 | | 15816 | VV | ? | 5.40 |
| 8 | B-BHC | 3253 | 2.834 | -0.056 | 3253 | VV | ? | |
| 9 | | 48251 | 3.011 | | 48251 | VV | | 6.40 |
| 10 | D-BHC | 20013 | 3.283 | -0.077 | 20013 | VV | ? | 7.60 |
| 11 | | 14777 | 3.507 | | 14777 | VV | ? | 7.70 |
| 12 | ALDRIN | 29991 | 3.721 | -0.019 | 29991 | VV | | 13.80 |
| 13 | | 20576 | 4.380 | | 20576 | VV | | 11.50 |
| 14 | | 19245 | 4.681 | | 19245 | VV | | 12.80 |
| 15 | | 7505 | 5.150 | | 7505 | VV | ? | 10.40 |
| 16 | HEPT EPOX | 7540 | 5.406 | -0.034 | 7540 | VV | ? | 11.10 |
| 17 | | 13884 | 5.612 | | 13884 | VV | ? | 16.60 |
| 18 | G-CHLORDAN | 23325 | 6.150 | 0.130 | 23325 | VV | | 13.00 |
| 19 | A-ENDOSULF | 609 | 6.721 | -0.069 | 609 | T | ? | 10.90 |
| 20 | DDE | 4574 | 7.731 | 0.051 | 4574 | BV | | 15.90 |
| 21 | | 60270 | 8.489 | | 60270 | VV | | 31.70 |
| 22 | | 54857 | 9.381 | | 54857 | VV | | 19.95 |
| 23 | | 124121 | 10.515 | | 124121 | VV | | 22.30 |
| 24 | B-ENDOSULF | 70288 | 11.878 | -0.072 | 70288 | VV | | 27.35 |
| 25 | | 135266 | 13.381 | | 135266 | VV | | 30.25 |
| 26 | | 102615 | 14.289 | | 102615 | VV | | 48.70 |
| 27 | | 10921 | 16.172 | | 10921 | VV | | 33.05 |
| 28 | | 61815 | 17.413 | | 61815 | VV | | 39.00 |
| 29 | ESS | 39054 | 18.338 | 0.088 | 39054 | VV | ? | 42.20 |
| 30 | | 26355 | 18.866 | | 26355 | VV | ? | |
| 31 | | 161818 | 20.534 | | 161818 | VV | | 42.65 |
| 32 | DBC | 143115 | 22.892 | -0.448 | 143115 | VB | | 46.65 |
| 33 | | 132036 | 26.547 | | 132036 | BB | | 70.00 |
| TOTALS: | | 1388290 | | -0.564 | 1388290 | | | |

DETECTED PKS: 34 REJECTED PKS: 1

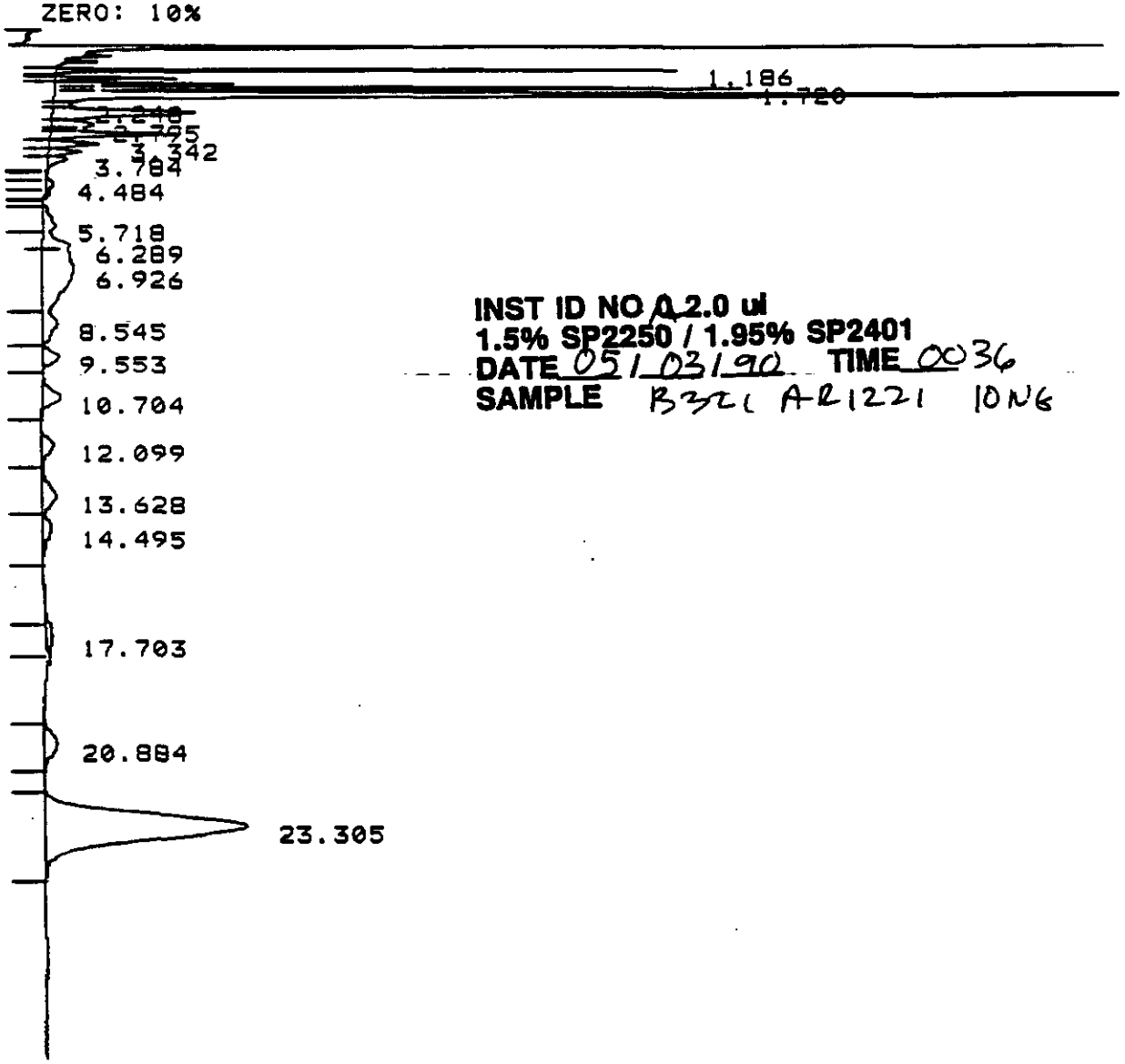
DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 29.1 OFFSET: -30

RACK: 1 VIAL: 11 INJ: 1

NOTES:
COL: 1.5% SP2250/1.95% SP2401
AMT INJ.2UL/INSTRUMENT LETTER A
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIBLOM CTL 2660 PEST SOILS
VERSCDM CTL 2562 PEST SOIL

:HART SPEED 0.5 CM/MIN
ITTEN: 16 ZERO: 10%




INST ID NO A 2.0 ul
1.5% SP2250 / 1.95% SP2401
DATE 05/03/90 TIME 0036
SAMPLE B321 AR1221 10NG

100286

TITLE: CLP PESTICIDES 0:36 3 MAY 90

CH IEL NO: 3 SAMPLE: B321 AR1221 METHOD: CLP-3A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 23892 | 1.186 | | 23892 | BV | | 2.60 |
| 2 | | 5706 | 1.423 | | 5706 | VV | | 3.20 |
| 3 | | 10295 | 1.596 | | 10295 | VV | | 4.05 |
| 4 | | 37243 | 1.720 | | 37243 | VV | | 3.70 |
| 5 | | 132668 | 1.928 | | 132668 | VV | | 4.90 |
| 6 | | 22191 | 2.412 | | 22191 | VV | | 10.60 |
| 7 | | 6712 | 2.795 | | 6712 | VV | ? | 6.60 |
| [illegible] | -BHC | 2527 | 2.900 | -0.080 | 2527 | VV | ? | 1.60 |
| [illegible] | | 12053 | 3.067 | | 12053 | VV | | 6.50 |
| 10 | | 5781 | 3.342 | | 5781 | VV | | 7.15 |
| 11 | D-BHC | 3580 | 3.568 | 0.088 | 3580 | VV | | 6.50 |
| 12 | ALDRIN | 3234 | 3.784 | -0.076 | 3234 | VB | | 8.05 |
| 13 | | 1774 | 4.484 | | 1774 | BV | ? | 14.75 |
| 14 | | 680 | 4.669 | | 680 | VB | ? | 22.60 |
| 15 | HEPT EPOX | 4991 | 5.718 | 0.098 | 4991 | BV | ? | 28.60 |
| [illegible] | G-CHLORDAN | 7177 | 6.289 | 0.069 | 7177 | VV | ? | 20.70 |
| | A-ENDOSULF | 33447 | 6.926 | -0.094 | 33447 | VV | ? | 28.80 |
| 18 | DIELDRIN | 7325 | 8.545 | 0.045 | 7325 | VV | ? | 28.55 |
| 19 | | 5027 | 9.553 | | 5027 | VV | | 18.50 |
| 20 | | 7342 | 10.704 | | 7342 | VV | | 22.70 |
| 21 | DDD | 4368 | 12.099 | 0.209 | 4368 | VV | | 27.55 |
| 22 | | 7326 | 13.628 | | 7326 | VV | | 31.60 |
| 23 | DDT | 4961 | 14.495 | 0.205 | 4961 | VB | ? | 38.90 |
| 24 | | 2892 | 17.703 | | 2892 | BB | ? | 44.90 |
| 25 | | 7500 | 20.884 | | 7500 | BB | | 42.80 |
| 26 | | 139594 | 23.305 | | 139594 | BB | | 47.60 |
| TOTALS: | | 500286 | | 0.464 | 500286 | | | |

DETECTED PKS: 28 REJECTED PKS: 2

DIVISOR: 1.00000 MULTIPLIER: 10000.0

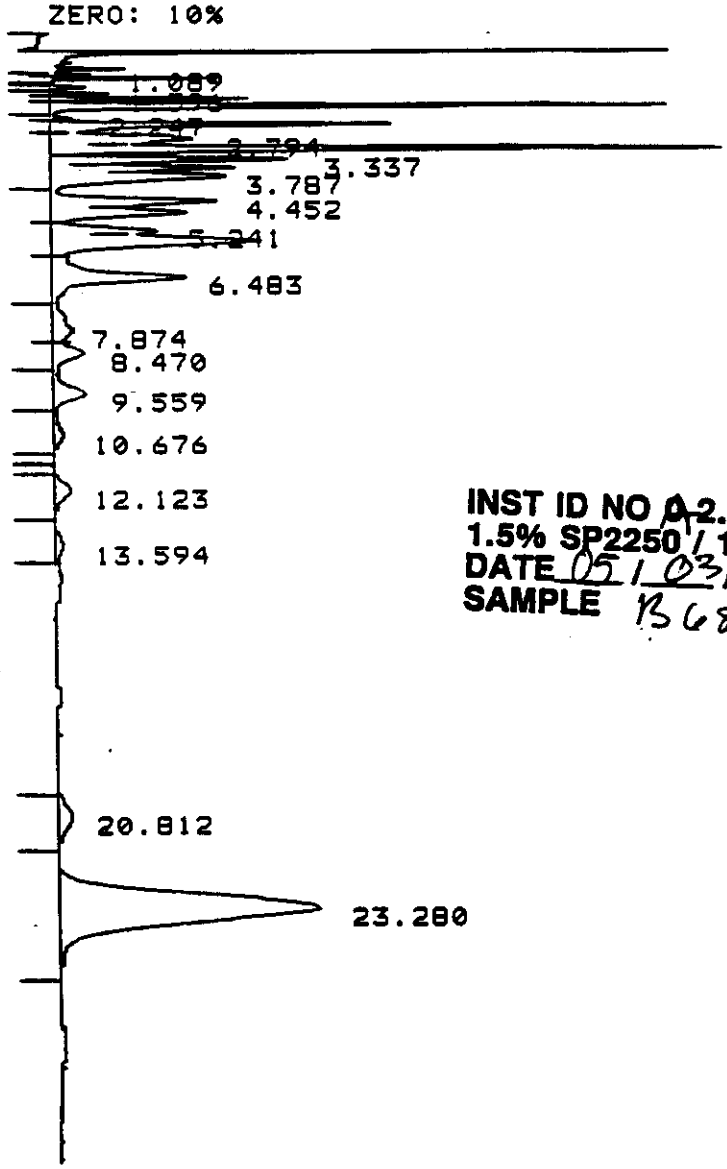
NOISE: 43.7 OFFSET: -37

RACK: 1 VIAL: 13 INJ: 1

NO[illegible]
[illegible]UL: 1.5% SP2250/1.95% SP2401
AMT INJ.2UL/INSTRUMENT LETTER A
ORT= OUTSIDE RETENTION TIME WINDOW
E$E AVTEX CTL 2592 AND 2655 PCB WATER
VERSCDM CTL 2536 PESTICIDE SOILS

100287

CH SPEED 0.5 CM/MIN
ATION: 16 ZERO: 10%




INST ID NO 0 2.0 uL
1.5% SP2250 / 1.95% SP2401
DATE 05/03/90 TIME 0110
SAMPLE B684 AR1232 S.ONG

100288

TITLE: CLP PESTICIDES 1:10 3 MAY 90

CHANNEL NO: 3 SAMPLE: B684 AR1232 METHOD: CLP-3A

| PF | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 1144 | 1.089 | | 1144 | BV | | 2.35 |
| 2 | | 5812 | 1.185 | | 5812 | VB | | 2.60 |
| 3 | | 1590 | 1.422 | | 1590 | BV | | 3.25 |
| 4 | | 3034 | 1.596 | | 3034 | VV | | 4.00 |
| 5 | | 9768 | 1.718 | | 9768 | VV | | 3.75 |
| 6 | | 43352 | 1.926 | | 43352 | VV | | 4.85 |
| 7 | | 676 | 2.247 | | 676 | T | | 5.05 |
| 8 | | 28353 | 2.414 | | 28353 | VV | | 5.45 |
| 9 | | 24112 | 2.794 | | 24112 | VV | ? | 7.30 |
| 11 | )-BHC | 59028 | 3.061 | 0.081 | 59028 | VV | ? | 4.15 |
| | | 24539 | 3.337 | | 24539 | VV | ? | 8.00 |
| 1_ | D-BHC | 18775 | 3.566 | 0.086 | 18775 | VV | ? | 9.65 |
| 13 | ALDRIN | 30920 | 3.787 | -0.073 | 30920 | VV | ? | 15.25 |
| 14 | | 26050 | 4.452 | | 26050 | VV | | 12.80 |
| 15 | | 22751 | 4.759 | | 22751 | VV | ? | 14.90 |
| 16 | | 15350 | 5.241 | | 15350 | VV | ? | 12.50 |
| 17 | HEPT EPOX | 43638 | 5.516 | -0.104 | 43638 | VV | | 17.25 |
| 18 | | 34505 | 6.483 | | 34505 | VV | | 15.05 |
| 9 | DDE | 9281 | 7.874 | -0.066 | 9281 | VV | ? | 30.85 |
| 0 | DIELDRIN | 8983 | 8.470 | -0.030 | 8983 | VV | | 22.10 |
| 21 | | 10558 | 9.559 | | 10558 | VV | | 23.05 |
| 22 | | 3394 | 10.676 | | 3394 | VB | ? | 27.50 |
| 23 | B-ENDOSULF | 5944 | 12.123 | -0.227 | 5944 | BV | | 26.85 |
| 24 | | 2254 | 13.594 | | 2254 | VB | | 32.55 |
| 25 | | 7640 | 20.812 | | 7640 | BV | | 41.10 |
| 26 | | 162482 | 23.280 | | 162482 | VB | | 46.90 |
| TOTALS: | | 603933 | | -0.333 | 603933 | | | |

DETECTED PKS: 26 REJECTED PKS: 0

DIVISOR: 1.00000 MULTIPLIER: 10000.0

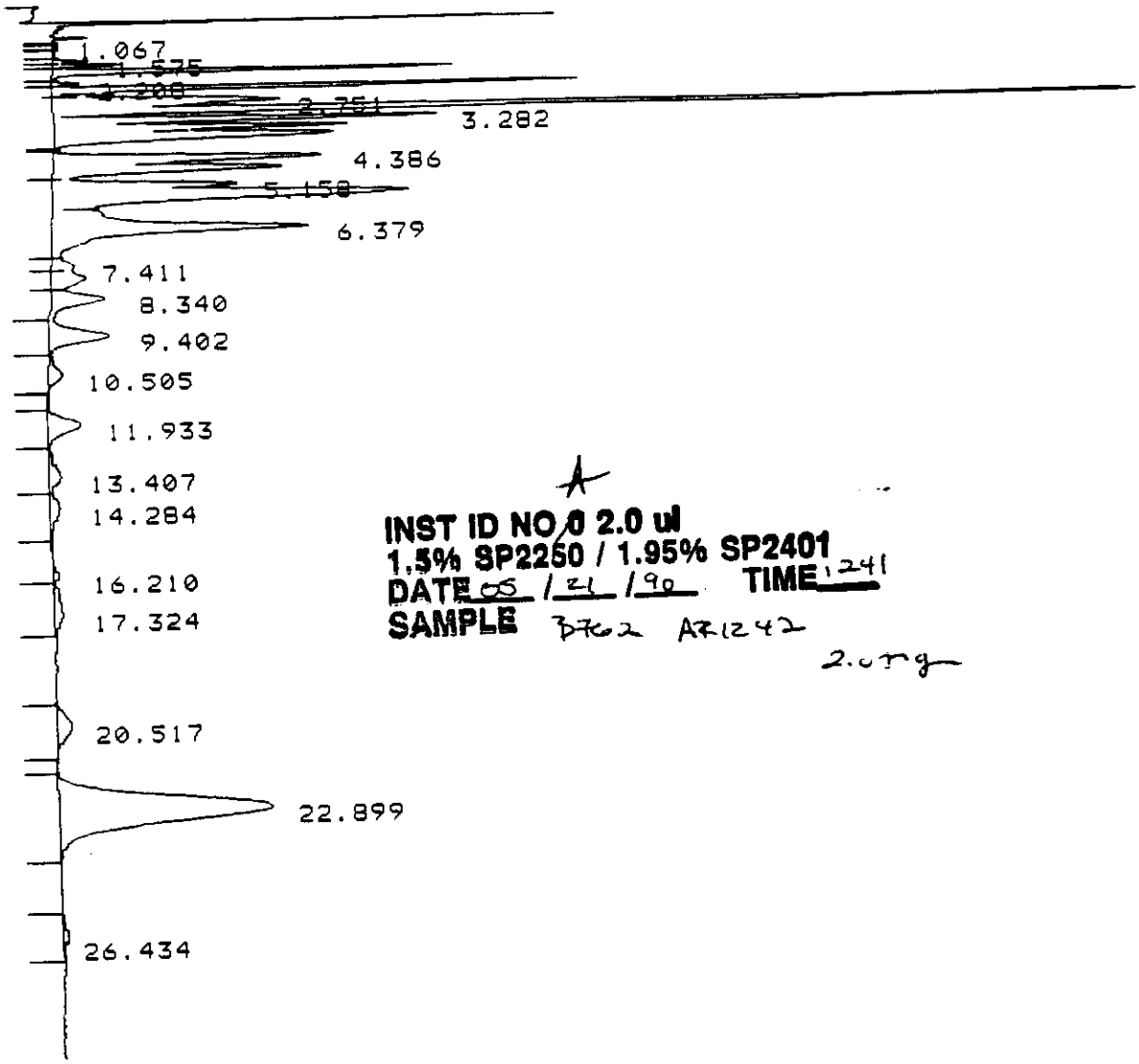
NOISE: 43.7 OFFSET: -21

RACK: 1 VIAL: 14 INJ: 1

NOTES:
: 1.5% SP2250/1.95% SP2401
INJ.2UL/INSTRUMENT LETTER A
= OUTSIDE RETENTION TIME WINDOW
E$E AVTEX CTL 2592 AND 2655 PCB WATER
VERSCDM CTL 2536 PESTICIDE SOILS

ORIGINAL
(Red)

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10%




INST ID NO. 0 2.0 ul
1.5% SP2250 / 1.95% SP2401
DATE 05 / 21 / 90 TIME 1241
SAMPLE B762 AR1242
2.0 mg

varian /sunnyvale,calif.p/n 03-906362-01

100290

TITLE: CLP PESTICIDES 12:41 21 MAY 90

CHANNEL NO: 3 SAMPLE: B762 AR1242 METHOD: CLP-3A

| PEAK N/ | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| | | 1908 | 1.575 | | 1908 | BV | | 3.85 |
| 2 | | 3580 | 1.691 | | 3580 | VV | | 3.65 |
| 3 | | 28026 | 1.893 | | 28026 | VV | | 4.45 |
| 4 | | 1602 | 2.208 | | 1602 | VV | | 4.40 |
| 5 | | 39041 | 2.375 | | 39041 | VV | | 5.10 |
| 6 | G-BHC | 3657 | 2.522 | -0.058 | 3657 | VV | ? | 3.00 |
| 7 | | 39939 | 2.751 | | 39939 | VV | ? | 5.65 |
| 8 | | 102023 | 3.012 | | 102023 | VV | | 6.30 |
| 9 | D-BHC | 41547 | 3.282 | -0.078 | 41547 | VV | | 7.65 |
| 10 | | 31725 | 3.508 | | 31725 | VV | | 8.65 |
| 11 | ALDRIN | 51307 | 3.726 | -0.014 | 51307 | VB | ? | 14.65 |
| 12 | | 43340 | 4.386 | | 43340 | BV | | 12.05 |
| 13 | | 39535 | 4.686 | | 39535 | VV | ? | 13.50 |
| 14 | | 28035 | 5.158 | | 28035 | VV | ? | 12.20 |
| 15 | HEPT EPOX | 84795 | 5.429 | -0.011 | 84795 | VV | | 17.05 |
| 16 | A-CHLORDAN | 82129 | 6.379 | -0.161 | 82129 | VV | | 15.65 |
| 17 | | 5382 | 7.411 | | 5382 | VV | ? | 17.30 |
| 18 | DDE | 11007 | 7.753 | 0.073 | 11007 | VV | ? | 25.05 |
| 19 | DIELDRIN | 16514 | 8.340 | 0.120 | 16514 | VV | | 19.05 |
| 20 | | 19287 | 9.402 | | 19287 | VV | | 20.95 |
| 21 | | 5224 | 10.505 | | 5224 | VB | | 21.75 |
| 22 | B-ENDOSULF | 12894 | 11.933 | -0.017 | 12894 | BV | | 26.25 |
| 23 | DDT | 5678 | 13.407 | -0.413 | 5678 | VV | ? | 32.70 |
| 24 | | 4776 | 14.284 | | 4776 | VV | | 42.75 |
| 25 | | 1568 | 16.210 | | 1568 | VV | ? | 37.30 |
| 26 | | 5043 | 17.324 | | 5043 | VB | | 33.20 |
| 27 | | 9020 | 20.517 | | 9020 | BB | | 41.05 |
| 28 | DBC | 143293 | 22.899 | -0.441 | 143293 | BB | | 47.00 |
| 29 | METHOXYCHL | 2427 | 26.434 | 0.724 | 2427 | BB | ? | 25.80 |
| TOTALS: | | 864302 | | -0.276 | 864302 | | | |

DETECTED PKS: 31 REJECTED PKS: 2

DIVISOR: 1.00000 MULTIPLIER: 10000.0

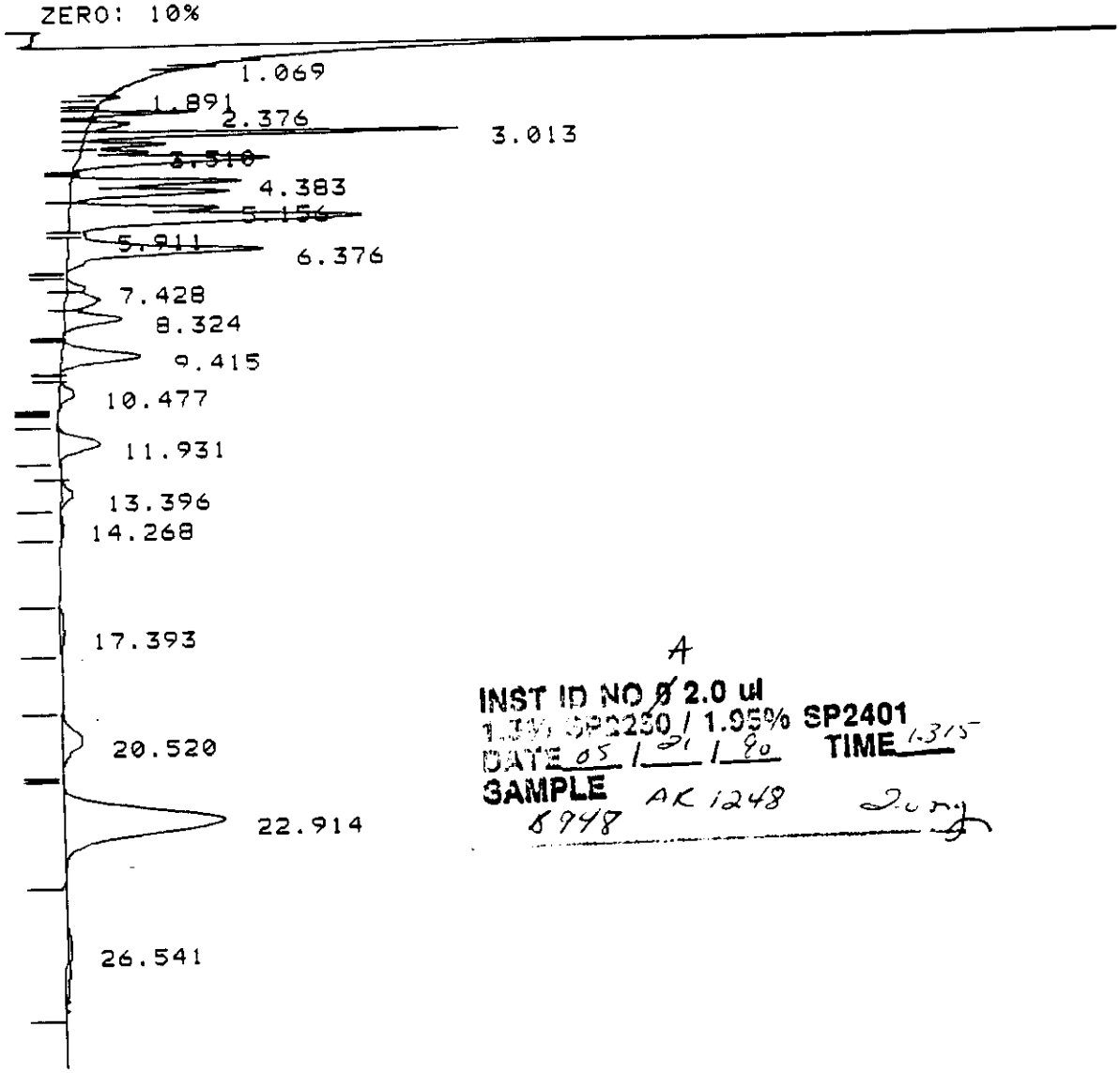
NOISE: 29.1 OFFSET: -22

PACK: 1 VIAL: 13 INJ: 1

NOTES:
COL: 1.5% SP2250/1.95% SP2401
AMT INJ.2UL/INSTRUMENT LETTER A
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIBLOM CTL 2660 PEST SOILS
VERSCDM CTL 2562 PEST SOIL

varian /sunnyvale,calif.p/n 03-900562-01

CHART SPEED 0.5 CM/MIN
ATTEN 16 ZERO: 10%




A

INST ID NO Ø 2.0 ul
1.3% SP2250 / 1.95% SP2401
DATE 05 / 21 / 90 TIME 1315
SAMPLE AK 1248 20 ng
8948

100292

varian /sunnyvale,calif.p/n 03-906362-01

TITLE: CLP PESTICIDES 13:15 21 MAY 90

CHANNEL NO: 3 SAMPLE: B948 AR1248 METHOD: CLP-3A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 691 | 1.069 | | 691 | BB | | 1.75 |
| 2 | | 662 | 1.891 | | 662 | BB | | 3.30 |
| 3 | | 7542 | 2.376 | | 7542 | BV | | 4.90 |
| 4 | | 5647 | 2.674 | | 5647 | VV | | 9.70 |
| 5 | | 33914 | 3.013 | | 33914 | VV | | 6.20 |
| 6 | D-BHC | 9152 | 3.287 | -0.073 | 9152 | VV | | 7.00 |
| 7 | | 6790 | 3.510 | | 6790 | VV | ? | 7.00 |
| 8 | ALDRIN | 35933 | 3.733 | -0.007 | 35933 | VB | | 12.60 |
| 9 | | 25884 | 4.383 | | 25884 | BV | | 10.80 |
| 10 | | 26880 | 4.681 | | 26880 | VV | | 12.30 |
| 11 | | 22736 | 5.156 | | 22736 | VV | ? | 11.50 |
| 12 | HEPT EPOX | 69498 | 5.434 | -0.006 | 69498 | VV | | 16.35 |
| 13 | A-CHLORDAN | 50179 | 6.376 | -0.164 | 50179 | VB | | 14.55 |
| 14 | | 3640 | 7.428 | | 3640 | BV | ? | 15.50 |
| 15 | DDE | 10615 | 7.766 | 0.086 | 10615 | VV | ? | 26.30 |
| 16 | DIELDRIN | 15163 | 8.324 | 0.104 | 15163 | VB | | 18.00 |
| 17 | | 23734 | 9.415 | | 23734 | BB | | 20.60 |
| 18 | | 4944 | 10.477 | | 4944 | BB | | 21.70 |
| 19 | B-ENDOSULF | 15507 | 11.931 | -0.019 | 15507 | BB | | 25.25 |
| 20 | | 3881 | 13.396 | | 3881 | BV | | 22.95 |
| 21 | | 795 | 14.268 | | 795 | VB | ? | 27.20 |
| 22 | | 3181 | 17.393 | | 3181 | BB | ? | 55.60 |
| 23 | | 12289 | 20.520 | | 12289 | BV | ? | 52.25 |
| 24 | DBC | 113279 | 22.914 | -0.426 | 113279 | VV | | 47.30 |
| 25 | | 5782 | 26.541 | | 5782 | T | | 67.80 |
| TOTALS: | | 508318 | | -0.505 | 508318 | | | |

DETECTED PKS: 26 REJECTED PKS: 1

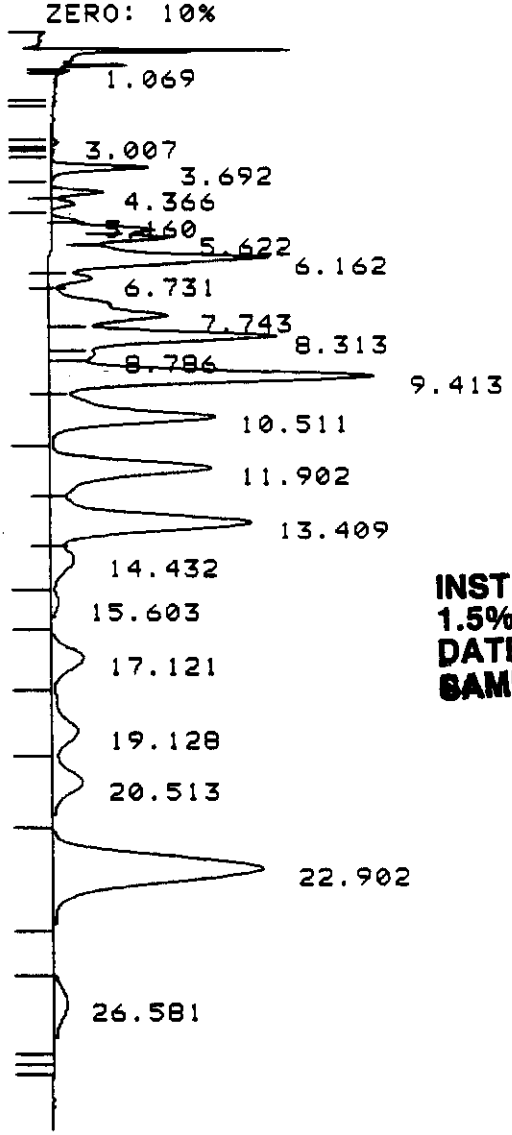
DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 29.1 OFFSET: -32

RACK: 1 VIAL: 14 INJ: 1

NOTES:
COL: 1.5% SP2250/1.95% SP2401
AMT INJ.2UL/INSTRUMENT LETTER A
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIBLOM CTL 2660 PEST SOILS
VERSCDM CTL 2562 PEST SOIL

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10%




INST ID NO A 2.0 uL
1.5% SP2250 / 1.95% SP2401
DATE 05 / 21 / 90 TIME 1349
SAMPLE B761 AR1254 2.0ng

100294

TITLE: CLP PESTICIDES 13:49 21 MAY 90

CHANNEL NO: 3 SAMPLE: B761 AR1254 METHOD: CLP-3A

| PE NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | | 676 | 3.007 | | 676 | BB | 6.15 |
| 2 | ALDRIN | 13309 | 3.692 | -0.048 | 13309 | VV | 9.30 |
| 3 | | 6976 | 4.366 | | 6976 | VV | 9.40 |
| 4 | | 3585 | 4.675 | | 3585 | VV | 10.60 |
| 5 | | 3230 | 5.160 | | 3230 | VV | ? 12.60 |
| 6 | HEPT EPOX | 16812 | 5.389 | -0.051 | 16812 | VV | ? 13.20 |
| 7 | | 20603 | 5.622 | | 20603 | VV | ? 17.95 |
| 8 | G-CHLORDAN | 62572 | 6.162 | 0.142 | 62572 | VV | 19.25 |
| 9 | A-ENDOSULF | 8487 | 6.731 | -0.059 | 8487 | VV | ? 16.80 |
| 10 | DDE | 45059 | 7.743 | 0.063 | 45059 | VV | ? 26.10 |
| 11 | DIELDRIN | 61339 | 8.313 | 0.093 | 61339 | VV | 18.95 |
| 12 | | 8627 | 8.786 | | 8627 | VV | ? 5.60 |
| 13 | | 97719 | 9.413 | | 97719 | VV | ? 19.25 |
| 14 | | 60824 | 10.511 | | 60824 | VV | 23.95 |
| 15 | B-ENDOSULF | 62460 | 11.902 | -0.048 | 62460 | VV | 26.15 |
| 16 | DDT | 87040 | 13.409 | -0.411 | 87040 | VV | ? 29.60 |
| 17 | | 12441 | 14.432 | | 12441 | VV | ? 49.10 |
| 18 | ENDRIN ALD | 2874 | 15.603 | 0.333 | 2874 | VV | 28.50 |
| 19 | | 17337 | 17.121 | | 17337 | VV | 40.75 |
| 20 | | 16474 | 19.128 | | 16474 | VV | 43.15 |
| 21 | | 17714 | 20.513 | | 17714 | VV | 44.15 |
| 22 | DBC | 133214 | 22.902 | -0.438 | 133214 | VB | 46.50 |
| 23 | | 11013 | 26.581 | | 11013 | BB | 54.40 |
| TOTALS: | | 770385 | | -0.424 | 770385 | | |

DETECTED PKS: 25 REJECTED PKS: 2

DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 29.1 OFFSET: -12

RACK: 2 VIAL: 1 INJ: 1

NOTES:
COL: 1.5% SP2250/1.95% SP2401
AMT INJ.2UL/INSTRUMENT LETTER A
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIBLOM CTL 2660 PEST SOILS
VERSCDM CTL 2562 PEST SOIL

Versar INC.

# REAGENT BLANK DATA

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK61

Lab Name: VERSAR, INC. Contract:

Lab Code: VERSAR Case No.: VERSCDM SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: RB7961

Sample wt/vol: 1000 (g/ml) ML Lab File ID:

Level: (low/med) LOW Date Received: 04/24/90

% Moisture: not dec. dec. Date Extracted: 04/26/90

Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 05/15/90

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 0.05 | U |
| 319-85-7 | beta-BHC | 0.05 | U |
| 319-86-8 | delta-BHC | 0.05 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.05 | U |
| 76-44-8 | Heptachlor | 0.05 | U |
| 309-00-2 | Aldrin | 0.05 | U |
| 1024-57-3 | Heptachlor Epoxide | 0.05 | U |
| 959-98-8 | Endosulfan I | 0.05 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U |
| 1031-07-8 | Endosulfan Sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin Ketone | 0.10 | U |
| 5103-71-9 | alpha-Chlordane | 0.10 | U |
| 5103-74-2 | gamma-Chlordane | 0.10 | U |
| 8001-35-2 | Toxaphene | 1.0 | U |
| 12674-11-2 | Aroclor-1016 | 0.50 | U |
| 11104-28-2 | Aroclor-1221 | 0.50 | U |
| 11141-16-5 | Aroclor-1232 | 0.50 | U |
| 53469-21-9 | Aroclor-1242 | 0.50 | U |
| 12672-29-6 | Aroclor-1248 | 0.50 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |

KC
05/16/90

PESTICIDE SAMPLE TABLE

EPA SAMPLE NUMBER

PBLK61

VERSAR# RB7961

MATRIX IS: WATER

Lab Name: VERSAR, INC.

Lab Code: VERSAR

Instrument ID: C

Run Date: 05/15/90

Inject Vol 2.00 (uL)

Case No.: VERSCOM #2565

Contract:

SAS No.:

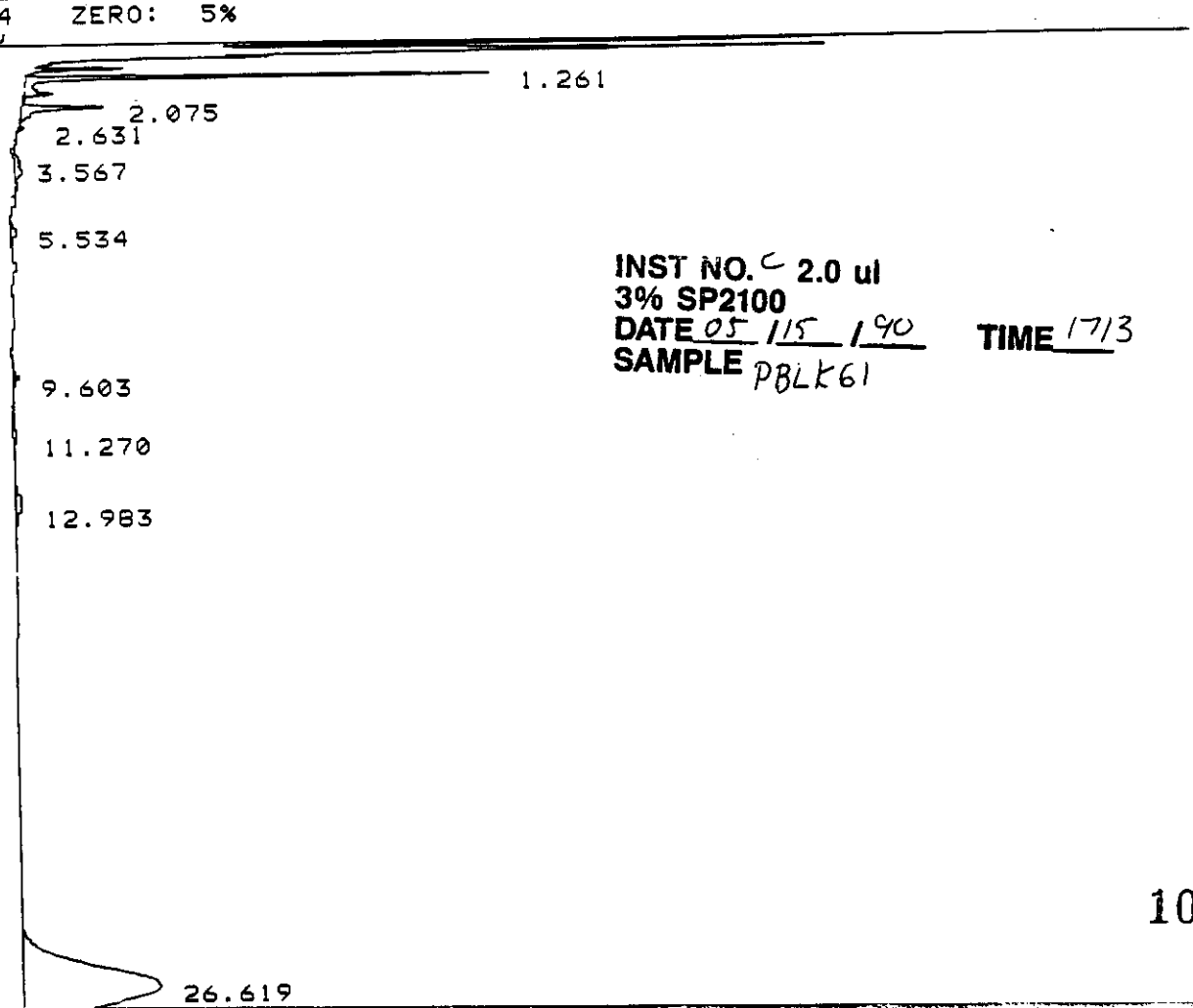
GC Column ID: 3% SP2100

Window Width: 1.0%

| COMPOUND | RT WINDOW FROM | RT WINDOW TO | SAMPLE RT | SAMPLE AREA | / CALIB FACTOR = | NG INJECTED | / INJECT VOLUME (uL) | = INJECT CONC (ug/ml) | X DF | = SAMPLE CONC (ug/L) | DETECTION LIMIT (ug/L) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 1.82 | 1.86 | 0.00 | 0 | 188290 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 0.05 | |
| beta-BHC | 1.95 | 1.99 | 0.00 | 0 | 86215 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 0.05 | |
| delta-BHC | 2.21 | 2.26 | 0.00 | 0 | 201835 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 0.05 | |
| gamma-BHC | 2.15 | 2.19 | 0.00 | 0 | 216520 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 0.05 | |
| Heptachlor | 3.48 | 3.55 | 0.00 | 0 | 185445 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 0.05 | |
| Aldrin | 4.32 | 4.41 | 0.00 | 0 | 249155 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 0.05 | |
| Hept. epoxide | 5.29 | 5.39 | 0.00 | 0 | 243250 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 0.05 | |
| Endosulfan I | 6.60 | 6.73 | 0.00 | 0 | 238750 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 0.05 | |
| Dieldrin | 7.73 | 7.89 | 0.00 | 0 | 262140 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 0.10 | |
| 4,4'-DDE | 7.70 | 7.86 | 0.00 | 0 | 204980 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 0.10 | |
| Endrin | 8.62 | 8.80 | 0.00 | 0 | 157800 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 0.10 | |
| Endosulfan II | 8.84 | 9.02 | 0.00 | 0 | 232690 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 0.10 | |
| 4,4'-DDD | 9.73 | 9.93 | 0.00 | 0 | 169935 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 0.10 | |
| Endo.sulfate | 11.37 | 11.60 | 0.00 | 0 | 135705 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 0.10 | |
| 4,4'DDT | 12.79 | 13.05 | 12.98 | 788 | 178740 | 0.004 | 2.00 | 0.002 | 10.00 | 0.02 | 0.10 | EQL |
| Methoxychlor | 19.15 | 19.54 | 0.00 | 0 | 67715 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 0.50 | |
| Endrin ketone | 14.64 | 14.94 | 0.00 | 0 | 237255 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 0.10 | |
| a. Chlordane | 6.72 | 6.85 | 0.00 | 0 | 218920 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 0.10 | |
| g. Chlordane | 6.05 | 6.18 | 0.00 | 0 | 215035 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 0.10 | |
| Toxaphene | 10.92 | 11.14 | 0.00 | 0 | 143890 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 1.00 | |
| Aroclor-1016 | 3.83 | 3.91 | 0.00 | 0 | 46350 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 0.50 | |
| Aroclor-1221 | 1.84 | 1.88 | 0.00 | 0 | 3329 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 0.50 | |
| Aroclor-1232 | 3.21 | 3.27 | 0.00 | 0 | 13030 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 0.50 | |
| Aroclor-1242 | 4.53 | 4.63 | 0.00 | 0 | 41367 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 0.50 | |
| Aroclor-1248 | 7.54 | 7.70 | 0.00 | 0 | 58403 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 0.50 | |
| Aroclor-1254 | 9.53 | 9.73 | 0.00 | 0 | 110551 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 1.00 | |
| Aroclor-1260 | 13.21 | 13.47 | 0.00 | 0 | 145689 | 0.000 | 2.00 | 0.000 | 10.00 | 0.00 | 1.00 | |
| DBC | 26.33 | 26.86 | 26.62 | 36582 | 245425 | 0.149 | 2.00 | 0.075 | 10.00 | 0.75 | 0.10 | HIT |

KC

CHA( SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%




INST NO. C 2.0 ul
3% SP2100
DATE 05 / 15 / 90 TIME 1713
SAMPLE PBLK61

100299

TITLE: CLP PESTICIDES 17:13 15 MAY 90

CHANNEL NO: 2 SAMPLE: PBLK61 METHOD: CLP-2A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | | 6443 | 1.261 | | 6443 | BV | 3.65 |
| 2 | ~~G-BHC~~ | 1910 | 2.075 | -0.085 | 1910 | VV | 6.15 |
| 3 | DDT | 788 | 12.983 | 0.123 | 788 | VB | ? 60.10 |
| 4 | DBC | 36582 | 26.619 | 0.089 | 36582 | BB | 73.20 |
| TOTALS: | | 45723 | | 0.127 | 45723 | | |

.TECTED PKS: 13 REJECTED PKS: 9

DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 4.9 OFFSET: -6

RACK: 2 VIAL: 2 INJ: 1

NOTES:
INSTRUMENT ID: C
( `LUMN: 3% SP2100
..JECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
VERSCDM B.4 CTL2565 CLP PEST WATER

varian 'sunnyvale, calif.p/n 13-906362-00

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK00

Lab Name: VERSAR, INC. Contract:

Lab Code: VERSAR Case No.: R3-7 SAS No.: SDG No.: 4

Matrix: (soil/water) SOIL Lab Sample ID: RB8000

Sample wt/vol: 30 (g/ml) G Lab File ID:

Level: (low/med) LOW Date Received: 04/23/90

% Moisture: not dec. 0 dec. Date Extracted: 05/01/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/18/90

GPC Cleanup: (Y/N) Y pH: Dilution Factor: 1.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 8.0 | U |
| 319-85-7 | beta-BHC | 8.0 | U |
| 319-86-8 | delta-BHC | 8.0 | U |
| 58-89-9 | gamma-BHC (Lindane) | 8.0 | U |
| 76-44-8 | Heptachlor | 8.0 | U |
| 309-00-2 | Aldrin | 8.0 | U |
| 1024-57-3 | Heptachlor Epoxide | 8.0 | U |
| 959-98-8 | Endosulfan I | 8.0 | U |
| 60-57-1 | Dieldrin | 16 | U |
| 72-55-9 | 4,4'-DDE | 16 | U |
| 72-20-8 | Endrin | 16 | U |
| 33213-65-9 | Endosulfan II | 16 | U |
| 72-54-8 | 4,4'-DDD | 16 | U |
| 1031-07-8 | Endosulfan Sulfate | 16 | U |
| 50-29-3 | 4,4'-DDT | 16 | U |
| 72-43-5 | Methoxychlor | 80 | U |
| 53494-70-5 | Endrin Ketone | 16 | U |
| 5103-71-9 | alpha-Chlordane | 16 | U |
| 5103-74-2 | gamma-Chlordane | 16 | U |
| 8001-35-2 | Toxaphene | 160 | U |
| 12674-11-2 | Aroclor-1016 | 80 | U |
| 11104-28-2 | Aroclor-1221 | 80 | U |
| 11141-16-5 | Aroclor-1232 | 80 | U |
| 53469-21-9 | Aroclor-1242 | 80 | U |
| 12672-29-6 | Aroclor-1248 | 80 | U |
| 11097-69-1 | Aroclor-1254 | 160 | U |
| 11096-82-5 | Aroclor-1260 | 160 | U |

KC
05/21/90

100301

PESTICIDE SAMPLE TABLE

EPA SAMPLE NUMBER

PBLK00

VERSAR# RB8000

MATRIX IS: SOIL

Lab Name: VERSAR, INC.

Lab Code: VERSAR

Instrument ID: C

Run Date: 05/18/90

Inject Vol 2.00 (uL)

Case No.: R3-7

Contract:

SAS No.:

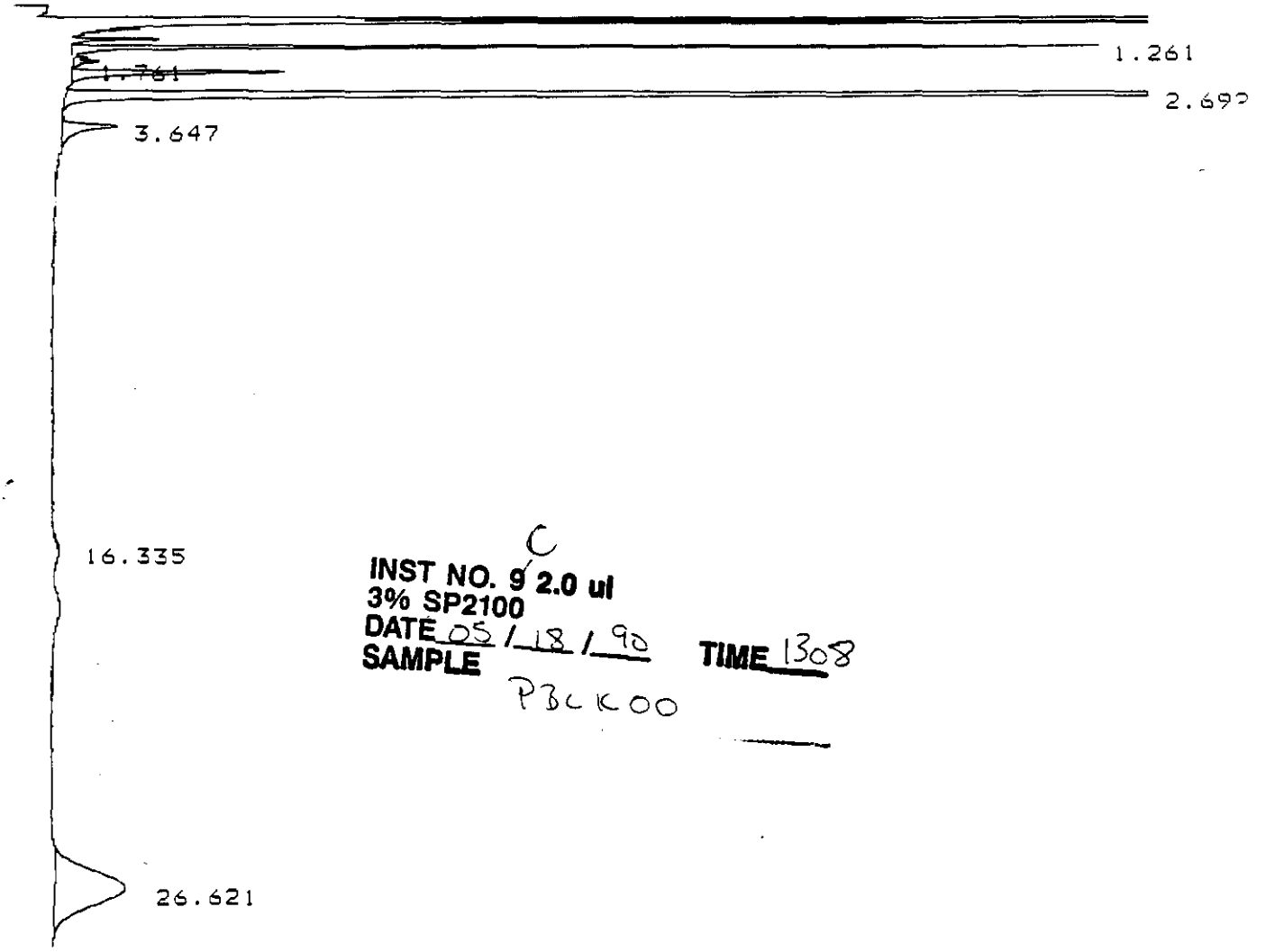
GC Column ID: 3% SP2100

Window Width: 1.0%

| COMPOUND | RT WINDOW FROM | RT WINDOW TO | SAMPLE RT | SAMPLE AREA | / CALIB FACTOR = | NG INJECTED | / INJECT VOLUME (uL) | = INJECT CONC (ug/ml) | X DF | = SAMPLE CONC (ug/kg) | DETECTION LIMIT (ug/kg) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 1.84 | 1.88 | 0.00 | 0 | 182880 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 8.01 | |
| beta-BHC | 1.97 | 2.01 | 2.01 | 5408 | 75830 | 0.071 | 2.00 | 0.036 | 1601.33 | 57.10 | 8.01 | HIT |
| delta-BHC | 2.24 | 2.28 | 0.00 | 0 | 163995 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 8.01 | |
| gamma-BHC | 2.17 | 2.22 | 0.00 | 0 | 184770 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 8.01 | |
| Heptachlor | 3.52 | 3.59 | 0.00 | 0 | 175010 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 8.01 | |
| Aldrin | 4.37 | 4.46 | 0.00 | 0 | 205830 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 8.01 | |
| Hept. epoxide | 5.35 | 5.46 | 0.00 | 0 | 202165 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 8.01 | |
| Endosulfan I | 6.68 | 6.81 | 0.00 | 0 | 192000 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 8.01 | |
| Dieldrin | 7.82 | 7.98 | 0.00 | 0 | 214295 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 16.01 | |
| 4,4'-DDE | 7.81 | 7.97 | 0.00 | 0 | 164995 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 16.01 | |
| Endrin | 8.73 | 8.91 | 0.00 | 0 | 150735 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 16.01 | |
| Endosulfan II | 8.94 | 9.12 | 0.00 | 0 | 183020 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 16.01 | |
| 4,4'-DDD | 9.86 | 10.06 | 0.00 | 0 | 129995 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 16.01 | |
| Endo.sulfate | 11.51 | 11.74 | 0.00 | 0 | 112700 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 16.01 | |
| 4,4'DDT | 12.97 | 13.24 | 0.00 | 0 | 120365 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 16.01 | |
| Methoxychlor | 13.42 | 13.81 | 0.00 | 0 | 53155 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 80.07 | |
| Endrin ketone | 14.82 | 15.12 | 0.00 | 0 | 174150 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 16.01 | |
| a. Chlordane | 6.81 | 6.94 | 0.00 | 0 | 171660 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 16.01 | |
| g. Chlordane | 6.13 | 6.26 | 0.00 | 0 | 178215 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 16.01 | |
| Toxaphene | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 1601.33 | 0.00 | 160.13 | |
| Aroclor-1016 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 1601.33 | 0.00 | 80.07 | |
| Aroclor-1221 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 1601.33 | 0.00 | 80.07 | |
| Aroclor-1232 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 1601.33 | 0.00 | 80.07 | |
| Aroclor-1242 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 1601.33 | 0.00 | 80.07 | |
| Aroclor-1248 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 1601.33 | 0.00 | 80.07 | |
| Aroclor-1254 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 1601.33 | 0.00 | 160.13 | |
| Aroclor-1260 | 0.00 | 0.00 | 0.00 | 0 | 0 | ERR | 2.00 | ERR | 1601.33 | 0.00 | 160.13 | |
| DBC | 26.72 | 27.25 | *26.62 | 17847 | 152885 | 0.117 | 2.00 | 0.058 | 1601.33 | 93.47 | 16.01 | HIT |

KC
5/15/90

CHART SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%




INST NO. 9 C 2.0 ul
3% SP2100
DATE 05 / 18 / 90 TIME 1308
SAMPLE PBLK00

100303

varian / sunnyvale, calif. p/n 03-906362-01

TITLE: CLP PESTICIDES 13:08 18 MAY 90

CHANNEL NO: 2 SAMPLE: PBLK00 METHOD: CLP-2A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 14440 | 1.261 | | 14440 | BV | | 3.50 |
| 2 | B-BHC | 5408 | 2.014 | 0.024 | 5408 | VB | | 6.10 |
| 3 | | 51169 | 2.692 | | 51169 | BB | | 6.95 |
| 4 | HEPTACHLOR | 2927 | 3.647 | 0.087 | 2927 | BB | | 10.65 |
| 5 | DBC | 17847 | 26.621 | -0.369 | 17847 | BB | ? | 8.80 |
| TOTALS: | | 91791 | | -0.258 | 91791 | | | |

TECTED PKS: 9 REJECTED PKS: 4

DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 7.3 OFFSET: -15

RACK: 2 VIAL: 5 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
I( ECTION VOLUME 2 UL
OR I = OUTSIDE RETENTION TIME WINDOW
ENGIBLOM B.2 CTL2660 CLP PEST SOIL
VERSCDM B.4 CTL2565 CLP PEST SOIL

PESTICIDE SAMPLE TABLE

EPA SAMPLE NUMBER: PBLK00

Lab Name: VERSAR, INC. Case No.: R3-7

Lab Code: VERSAR Contract:

Instrument ID: A SAS No.:

Run Date: 05/21/90 GC Column ID: SP2250/SP2401

MATRIX IS: SOIL

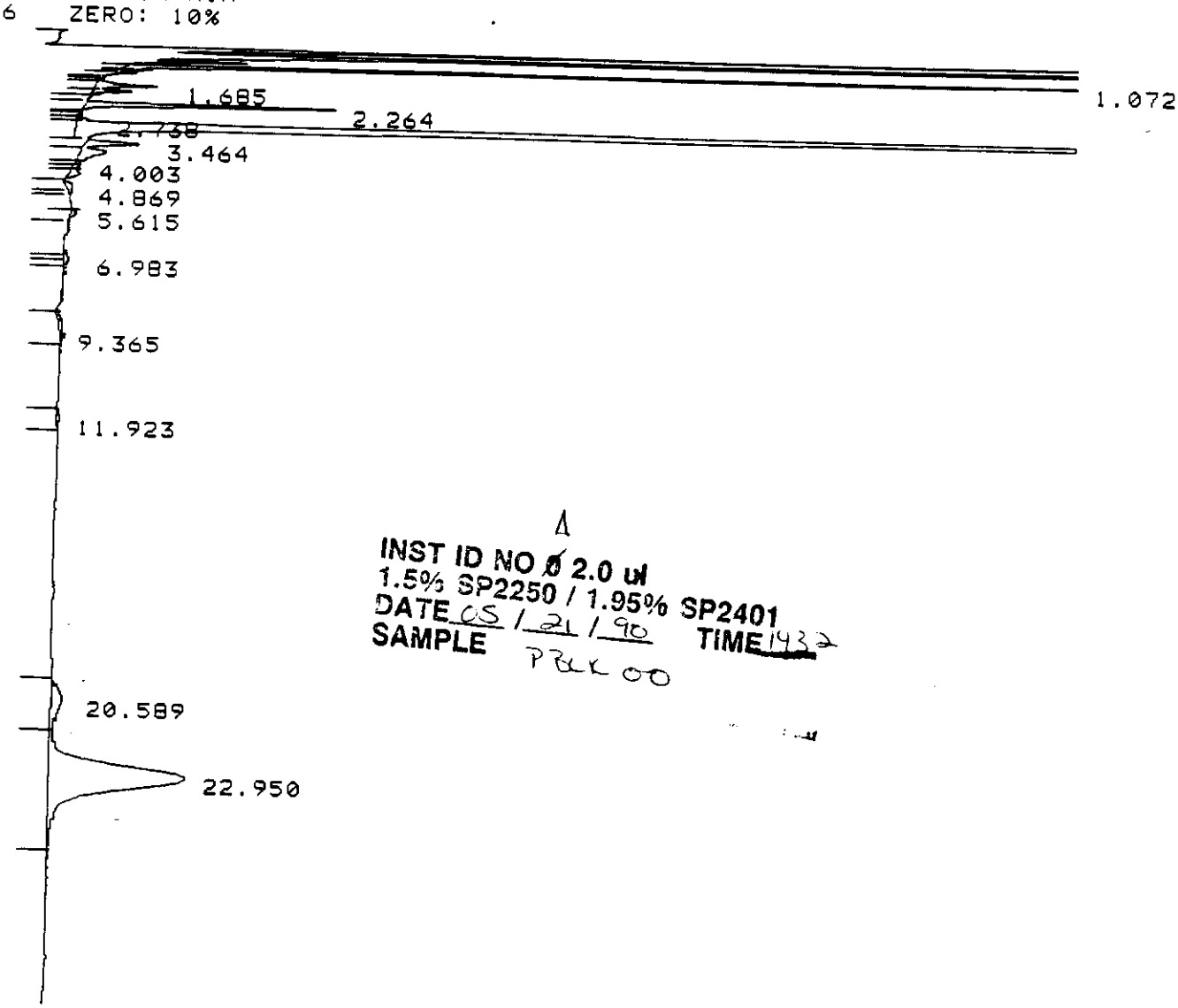
Inject Vol 2.00 (uL) Window Width: 1.0%

| COMPOUND | RT WINDOW FROM | RT WINDOW TO | SAMPLE RT | SAMPLE AREA | / CALIB FACTOR = | NG INJECTED | / INJECT VOLUME (uL) | = INJECT CONC (ug/ml) | X DF | = SAMPLE CONC (ug/kg) | DETECTION LIMIT (ug/kg) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 2.02 | 2.06 | 0.00 | 0 | 1187595 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 8.01 | |
| beta-BHC | 2.81 | 2.86 | 0.00 | 0 | 334580 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 8.01 | |
| delta-BHC | 3.27 | 3.33 | 0.00 | 0 | 1062370 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 8.01 | |
| gamma-BHC | 2.51 | 2.56 | 0.00 | 0 | 891410 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 8.01 | |
| Heptachlor | 3.03 | 3.09 | 0.00 | 0 | 1008380 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 8.01 | |
| Aldrin | 3.64 | 3.71 | 0.00 | 0 | 876660 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 8.01 | |
| Hept. epoxide | 5.28 | 5.39 | 0.00 | 0 | 822865 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 8.01 | |
| Endosulfan I | 6.59 | 6.72 | 0.00 | 0 | 770190 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 8.01 | |
| Dieldrin | 7.99 | 8.15 | 0.00 | 0 | 859525 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 16.01 | |
| 4,4'-DDE | 7.47 | 7.62 | 0.00 | 0 | 810045 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 16.01 | |
| Endrin | 9.67 | 9.87 | 0.00 | 0 | 548840 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 16.01 | |
| Endosulfan II | 11.60 | 11.84 | 0.00 | 0 | 743615 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 16.01 | |
| 4,4'-DDD | 11.19 | 11.42 | 0.00 | 0 | 642785 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 16.01 | |
| Endo.sulfate | 17.70 | 18.06 | 0.00 | 0 | 566175 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 16.01 | |
| 4,4'DDT | 13.42 | 13.70 | 0.00 | 0 | 519900 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 16.01 | |
| Methoxychlor | 25.03 | 25.53 | 0.00 | 0 | 291850 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 80.07 | |
| Endrin ketone | 24.31 | 24.81 | 0.00 | 0 | 737430 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 16.01 | |
| a. Chlordane | 6.36 | 6.49 | 0.00 | 0 | 858420 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 16.01 | |
| g. Chlordane | 5.85 | 5.97 | 0.00 | 0 | 877705 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 16.01 | |
| Toxaphene | 11.81 | 12.05 | 0.00 | 0 | 96724 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 160.13 | |
| Aroclor-1016 | 2.98 | 3.04 | 0.00 | 0 | 58715 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 80.07 | |
| Aroclor-1221 | 1.70 | 1.74 | 0.00 | 0 | 22629 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 80.07 | |
| Aroclor-1232 | 2.76 | 2.82 | 0.00 | 0 | 22291 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 80.07 | |
| Aroclor-1242 | 3.69 | 3.77 | 0.00 | 0 | 41491 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 80.07 | |
| Aroclor-1248 | 5.11 | 5.21 | 0.00 | 0 | 97589 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 80.07 | |
| Aroclor-1254 | 10.40 | 10.62 | 0.00 | 0 | 184691 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 160.13 | |
| Aroclor-1260 | 13.25 | 13.51 | 0.00 | 0 | 297054 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 160.13 | |
| DBC | 22.66 | 23.12 | 22.95 | 105593 | 779330 | 0.135 | 2.00 | 0.068 | 1601.33 | 108.48 | 16.01 | HIT |

KC
05/21/90

100305

CHART SPEED 0.5 CM/MIN
AT 1: 16 ZERO: 10%




INST ID NO Ø 2.0 ul
1.5% SP2250 / 1.95% SP2401
DATE 05 / 21 / 90 TIME 1432
SAMPLE PBLK 00

100306

TITLE: CLP PESTICIDES 14:32 21 MAY 90

CHANNEL NO: 3 SAMPLE: PBLK00 METHOD: CLP-3A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 68552 | 1.072 | | 68552 | BV | | 2.40 |
| 2 | | 565 | 1.180 | | 565 | T | ? | 3.10 |
| 3 | | 1020 | 1.279 | | 1020 | T | | 2.75 |
| 4 | | 5057 | 1.685 | | 5057 | BV | | 4.00 |
| 5 | | 2538 | 1.853 | | 2538 | VB | | 3.75 |
| 6 | | 18752 | 2.264 | | 18752 | BB | | 4.70 |
| 7 | | 586 | 2.738 | | 586 | VV | ? | 6.00 |
| 8 | B-BHC | 321891 | 2.924 | 0.034 | 321891 | VV | | 5.85 |
| 9 | | 5840 | 3.464 | | 5840 | T | ? | 7.85 |
| 10 | ALDRIN | 5525 | 3.724 | -0.016 | 5525 | T | ? | 15.00 |
| 11 | | 754 | 4.003 | | 754 | T | ? | |
| 12 | | 777 | 4.133 | | 777 | T | ? | 13.20 |
| 13 | | 2261 | 4.405 | | 2261 | T | ? | 6.25 |
| 4 | | 1140 | 4.869 | | 1140 | T | ? | 12.70 |
| .5 | | 1369 | 5.615 | | 1369 | BB | ? | 6.95 |
| 16 | | 2538 | 9.365 | | 2538 | BB | ? | 26.60 |
| 17 | B-ENDOSULF | 1015 | 11.923 | -0.027 | 1015 | BB | | 31.40 |
| 18 | | 8424 | 20.589 | | 8424 | BV | | 47.35 |
| 19 | DBC | 105593 | 22.950 | -0.390 | 105593 | VB | | 47.70 |
| TOTALS: | | 554197 | | -0.399 | 554197 | | | |

DETECTED PKS: 23 REJECTED PKS: 4

DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 29.1 OFFSET: -28

RACK: 2 VIAL: 2 INJ: 1

NOTES:
COL: 1.5% SP2250/1.95% SP2401
MT INJ.2UL/INSTRUMENT LETTER A
RT= OUTSIDE RETENTION TIME WINDOW
ENGIBLOM CTL 2660 PEST SOILS
VERSCDM CTL 2562 PEST SOIL

D

1D

# PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK02

Lab Name: VERSAR, INC. Contract:

b Code: VERSAR Case No.: R3-7 SAS No.: SDG No.: 4

Matrix: (soil/water) SOIL Lab Sample ID: RB8002

Sample wt/vol: 1.00 (g/ml) G Lab File ID:

Level: (low/med) MED Date Received: 04/23/90

% Moisture: not dec. 0.0 dec. Date Extracted: 05/01/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/06/90

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 319-84-6 | alpha-BHC | 60 | U |
| 319-85-7 | beta-BHC | 60 | U |
| 319-86-8 | delta-BHC | 60 | U |
| 58-89-9 | gamma-BHC (Lindane) | 60 | U |
| 76-44-8 | Heptachlor | 60 | U |
| 309-00-2 | Aldrin | 60 | U |
| 1024-57-3 | Heptachlor Epoxide | 60 | U |
| 959-98-8 | Endosulfan I | 60 | U |
| 60-57-1 | Dieldrin | 120 | U |
| 72-55-9 | 4,4'-DDE | 120 | U |
| 72-20-8 | Endrin | 120 | U |
| 33213-65-9 | Endosulfan II | 120 | U |
| 72-54-8 | 4,4'-DDD | 120 | U |
| 1031-07-8 | Endosulfan Sulfate | 120 | U |
| 50-29-3 | 4,4'-DDT | 120 | U |
| 72-43-5 | Methoxychlor | 600 | U |
| 53494-70-5 | Endrin Ketone | 120 | U |
| 5103-71-9 | alpha-Chlordane | 120 | U |
| 5103-74-2 | gamma-Chlordane | 120 | U |
| 8001-35-2 | Toxaphene | 1200 | U |
| 12674-11-2 | Aroclor-1016 | 600 | U |
| 11104-28-2 | Aroclor-1221 | 600 | U |
| 11141-16-5 | Aroclor-1232 | 600 | U |
| 53469-21-9 | Aroclor-1242 | 600 | U |
| 12672-29-6 | Aroclor-1248 | 600 | U |
| 11097-69-1 | Aroclor-1254 | 1200 | U |
| 11096-82-5 | Aroclor-1260 | 1200 | U |

100308

FORM I PEST 1/87 Rev.

D

JC 5/9/90

PESTICIDE SAMPLE TABLE

EPA SAMPLE NUMBER

PBLK02

Lab Name: VERSAR, INC. Case No.: R3-7

Lab Code: VERSAR Contract:

Instrument ID: A SAS No.:

Run Date: 05/04/90 GC Column ID: SP2250/SP2401

MATRIX IS: SOIL

Inject Vol 2.00 (uL) Window Width: 1.0%

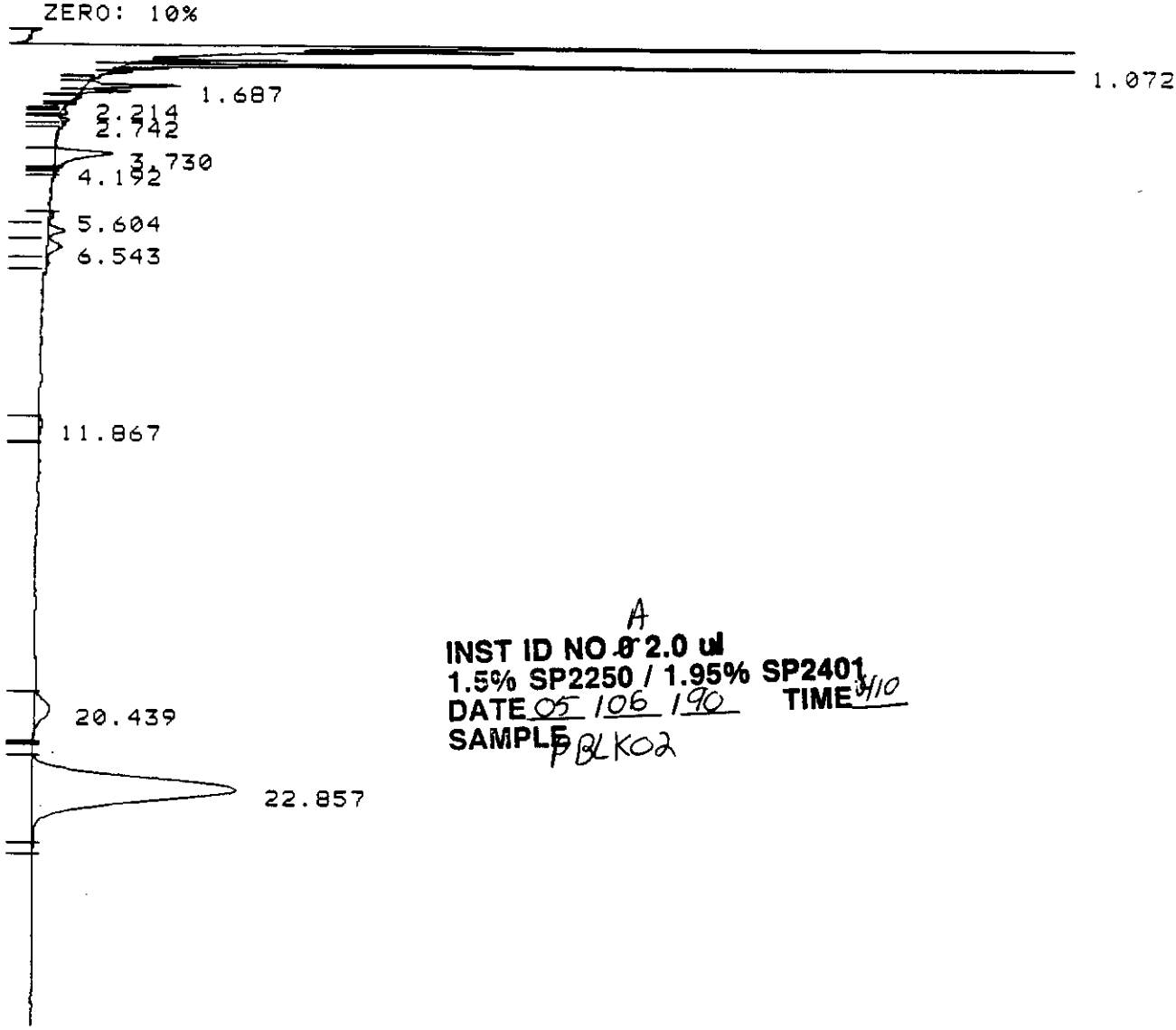
| COMPOUND | RT WINDOW FROM | RT WINDOW TO | SAMPLE RT | SAMPLE AREA | / CALIB FACTOR = | NG INJECTED | / INJECT VOLUME (uL) | = INJECT CONC (ug/ml) | X DF | = SAMPLE CONC (ug/kg) | DETECTION LIMIT (ug/kg) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 2.03 | 2.07 | 0.00 | 0 | 1086290 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 60.05 | |
| beta-BHC | 2.81 | 2.87 | 0.00 | 0 | 308685 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 60.05 | |
| delta-BHC | 3.28 | 3.34 | 0.00 | 0 | 974375 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 60.05 | |
| gamma-BHC | 2.51 | 2.56 | 2.52 | 522 | 934015 | 0.001 | 2.00 | 0.000 | 12010.00 | 3.36 | 60.05 | BDL |
| Heptachlor | 3.04 | 3.10 | 0.00 | 0 | 919020 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 60.05 | |
| Aldrin | 3.64 | 3.72 | 0.00 | | 910090 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 60.05 | |
| Hept. epoxide | 5.30 | 5.40 | 0.00 | 0 | 868365 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 60.05 | |
| Endosulfan I | 6.61 | 6.74 | 0.00 | 0 | 799290 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 60.05 | |
| Dieldrin | 8.01 | 8.17 | 0.00 | 0 | 870345 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 120.10 | |
| 4,4'-DDE | 7.48 | 7.63 | 0.00 | 0 | 735660 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 120.10 | |
| Endrin | 9.70 | 9.89 | 0.00 | 0 | 525950 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 120.10 | |
| Endosulfan II | 11.63 | 11.86 | 0.00 | 0 | 776255 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 120.10 | |
| 4,4'-DDD | 11.21 | 11.44 | 0.00 | 0 | 598660 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 120.10 | |
| Endo.sulfate | 17.76 | 18.12 | 0.00 | 0 | 515975 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 120.10 | |
| 4,4'DDT | 13.45 | 13.72 | 0.00 | 0 | 577460 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 120.10 | |
| Methoxychlor | 25.06 | 25.57 | 0.00 | 0 | 259000 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 600.50 | |
| Endrin ketone | 24.37 | 24.86 | 0.00 | 0 | 776485 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 120.10 | |
| a. Chlordane | 6.37 | 6.50 | 0.00 | 0 | 783300 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 120.10 | |
| g. Chlordane | 5.86 | 5.98 | 0.00 | 0 | 806505 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 120.10 | |
| Toxaphene | 10.47 | 10.69 | 0.00 | 0 | 195275 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 1201.00 | |
| Aroclor-1016 | 2.73 | 2.79 | 0.00 | 0 | 69855 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 600.50 | |
| Aroclor-1221 | 2.34 | 2.38 | 0.00 | 0 | 3258 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 600.50 | |
| Aroclor-1232 | 3.01 | 3.07 | 0.00 | 0 | 10260 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 600.50 | |
| Aroclor-1242 | 3.47 | 3.55 | 0.00 | 0 | 68429 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 600.50 | |
| Aroclor-1248 | 3.26 | 3.32 | 0.00 | 0 | 55353 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 600.50 | |
| Aroclor-1254 | 9.32 | 9.50 | 0.00 | 0 | 191151 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 1201.00 | |
| Aroclor-1260 | 13.28 | 13.54 | 0.00 | 0 | 284536 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 1201.00 | |
| DBC | 22.69 | 23.15 | 22.86 | 142657 | 730565 | 0.195 | 2.00 | 0.098 | 12010.00 | 1172.53 | 120.10 | HIT |

CF 05/08/90

100309

ORIGINAL
(Red)

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10%




INST ID NO. A 2.0 ul
1.5% SP2250 / 1.95% SP2401
DATE 05 / 06 / 90 TIME 1410
SAMPLE PBLK02

varian /sunnyvale, calif. p/n 03-906362-00

100310

ORIGINAL
(Red)

TITLE: CLP PESTICIDES 4:10 6 MAY 90

CHANNEL NO: 3 SAMPLE: PBLK02 METHOD: CLP-3A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 94489 | 1.072 | | 94489 | BV | | 2.35 |
| 2 | | 964 | 1.175 | | 964 | T | ? | 3.25 |
| 3 | | 761 | 1.275 | | 761 | T | | 2.25 |
| 4 | | 7117 | 1.687 | | 7117 | BV | | 4.30 |
| 5 | | 2967 | 1.851 | | 2967 | VV | | 3.40 |
| | A-BHC OK | 502 | 2.036 | -0.044 | 502 | VV | ? | 5.95 |
| | G-BHC | 522 | 2.524 | -0.056 | 522 | VV | ? | 2.10 |
| | | 765 | 2.742 | | 765 | VV | ? | 6.55 |
| 9 | ALDRIN | 12108 | 3.730 | -0.010 | 12108 | BV | ? | 14.45 |
| 10 | | 963 | 5.604 | | 963 | BV | ? | 11.50 |
| 11 | G-CHLORDAN OK | 3131 | 6.049 | 0.029 | 3131 | VV | | 11.95 |
| 12 | A-CHLORDAN OK | 4173 | 6.543 | 0.003 | 4173 | VB | ? | 17.70 |
| 13 | B-ENDOSULF | 1852 | 11.867 | -0.083 | 1852 | BB | ? | 25.40 |
| 14 | | 8723 | 20.439 | | 8723 | BB | | 36.90 |
| 15 | DBC | 142657 | 22.857 | -0.483 | 142657 | BB | | 46.65 |
| TOTALS: | | 281694 | | -0.644 | 281694 | | | |

DETECTED PKS: 23 REJECTED PKS: 8

DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 35.2 OFFSET: -25

RACK: 4 VIAL: 5 INJ: 1

NOTES:
COL: 1.5% SP2250/1.95% SP2401
AMT INJ.2UL/INSTRUMENT LETTER A
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIALBA CTL#'S 2521,2544 PEST SOILS
ENGIHARL CTL# 2534,2542 PEST SOILS & H2O'S
VERSCDM CTL# 2565 PEST SOIL

D
D

ORIGINAL
(Red)

PESTICIDE SAMPLE TABLE

EPA SAMPLE NUMBER

PBLK02

VERSAR# RB8002

MATRIX IS: SOIL

Lab Name: VERSAR, INC.

Lab Code: VERSAR

Instrument ID: C

Run Date: 05/09/90

Inject Vol 2.00 (uL)

Case No.: R3-7

Contract:

SAS No.:

GC Column ID: 3% SP2100

Window Width: 1.0%

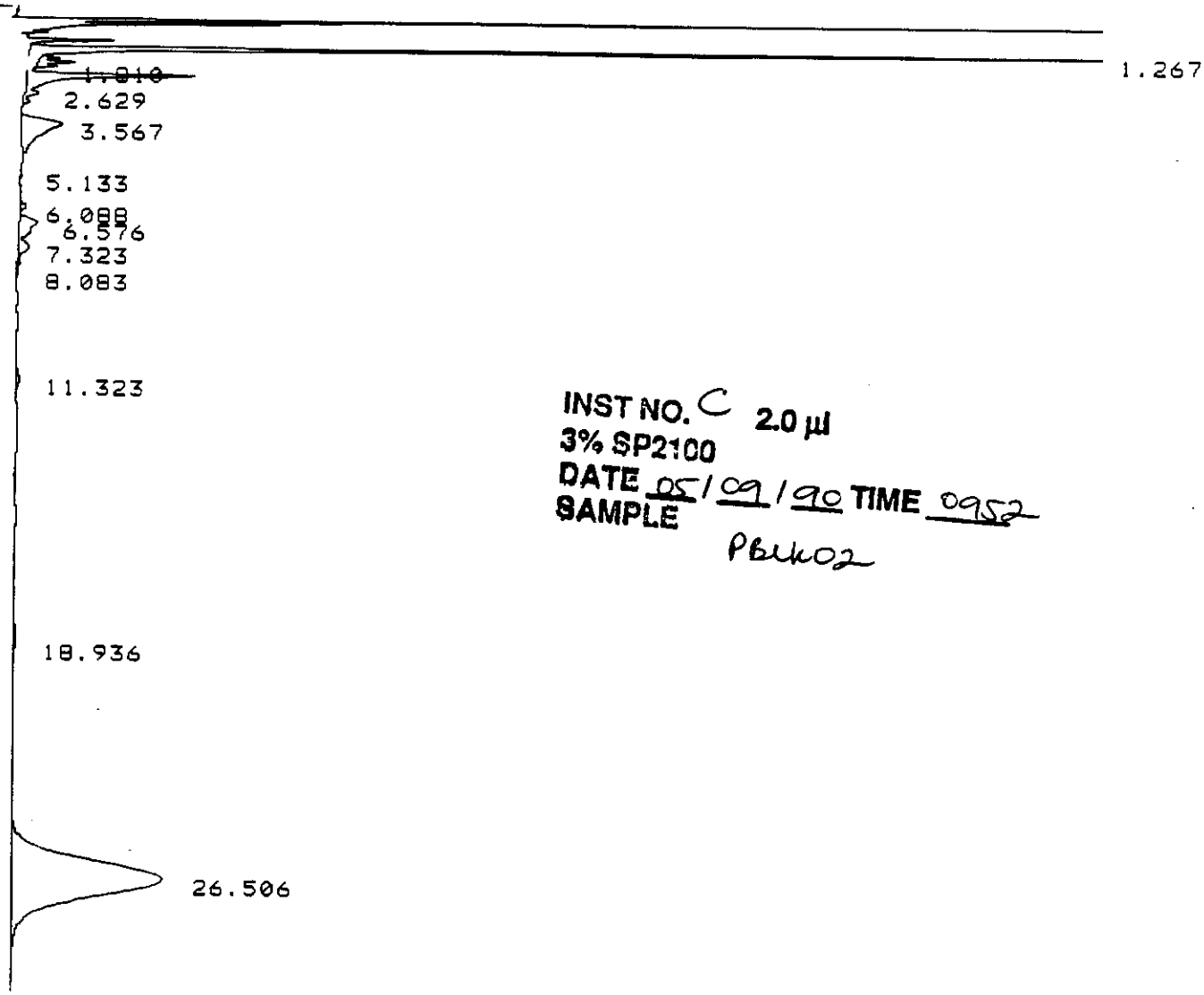
| COMPOUND | RT WINDOW FROM | RT WINDOW TO | SAMPLE RT | SAMPLE AREA | / CALIB FACTOR = | NG INJECTED | / INJECT VOLUME (uL) | = INJECT CONC (ug/ml) | X DF | = SAMPLE CONC (ug/kg) | DETECTION LIMIT (ug/kg) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 1.83 | 1.86 | 0.00 | 0 | 169700 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 60.05 | |
| beta-BHC | 1.95 | 1.99 | 0.00 | 0 | 71885 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 60.05 | |
| delta-BHC | 2.21 | 2.26 | 0.00 | 0 | 157285 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 60.05 | |
| gamma-BHC | 2.15 | 2.19 | 0.00 | 0 | 161580 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 60.05 | |
| Heptachlor | 3.48 | 3.55 | 0.00 | 0 | 159080 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 60.05 | |
| Aldrin | 4.31 | 4.40 | 0.00 | 0 | 180455 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 60.05 | |
| Hept. epoxide | 5.27 | 5.38 | 0.00 | 0 | 178090 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 60.05 | |
| Endosulfan I | 6.58 | 6.72 | 0.00 | 0 | 170465 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 60.05 | |
| Dieldrin | 7.71 | 7.87 | 0.00 | 0 | 186530 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 120.10 | |
| 4,4'-DDE | 7.69 | 7.85 | 0.00 | 0 | 157740 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 120.10 | |
| Endrin | 8.61 | 8.78 | 0.00 | 0 | 125095 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 120.10 | |
| Endosulfan II | 8.81 | 8.99 | 0.00 | 0 | 166375 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 120.10 | |
| 4,4'-DDD | 9.71 | 9.90 | 0.00 | 0 | 126510 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 120.10 | |
| Endo.sulfate | 11.34 | 11.57 | 0.00 | 0 | 109675 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 120.10 | |
| 4,4'DDT | 12.75 | 13.01 | 0.00 | 0 | 120595 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 120.10 | |
| Methoxychlor | 19.11 | 19.50 | 0.00 | 0 | 51455 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 600.50 | |
| Endrin ketone | 14.59 | 14.89 | 0.00 | 0 | 165390 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 120.10 | |
| a. Chlordane | 6.71 | 6.84 | 0.00 | 0 | 164465 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 120.10 | |
| g. Chlordane | 6.04 | 6.17 | 0.00 | 0 | 169450 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 120.10 | |
| Toxaphene | 10.88 | 11.10 | 0.00 | 0 | 75165 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 1201.00 | |
| Aroclor-1016 | 2.59 | 2.65 | 0.00 | 0 | 24479 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 600.50 | |
| Aroclor-1221 | 1.49 | 1.52 | 0.00 | 0 | 5837 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 600.50 | |
| Aroclor-1232 | 1.84 | 1.88 | 0.00 | 0 | 6800 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 600.50 | |
| Aroclor-1242 | 3.84 | 3.92 | 0.00 | 0 | 15170 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 600.50 | |
| Aroclor-1248 | 4.53 | 4.63 | 0.00 | 0 | 40008 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 600.50 | |
| Aroclor-1254 | 7.50 | 7.66 | 0.00 | 0 | 62448 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 1201.00 | |
| Aroclor-1260 | 13.19 | 13.45 | 0.00 | 0 | 82974 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 1201.00 | |
| DBC | 26.29 | 26.82 | 26.51 | 42073 | 168665 | 0.249 | 2.00 | 0.125 | 12010.00 | 1497.93 | 120.10 | HIT |

D

62.00

ORIGINAL
(Red)

CHART SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%




INST NO. C 2.0 µl
3% SP2100
DATE 05/09/90 TIME 0952
SAMPLE
PBLK02

100313

ORIGINAL
(Red)

TITLE: CLP PESTICIDES 9:52 9 MAY 90

C' NEL NO: 2 SAMPLE: PBLK02 VRCDM METHOD: CLP-2A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|
| 1 | | 20621 | 1.267 | | 20621 | BV | 3.90 |
| 2 | G-BHC N/A | 5685 | 2.081 | -0.079 | 5685 | VV | 6.65 |
| 3 | HEPTACHLOR N/A | 4489 | 3.567 | 0.067 | 4489 | BB | ? 30.50 |
| 4 | A-ENDOSULF N/A | 1673 | 6.576 | -0.054 | 1673 | VV | 27.20 |
| 5 | | 929 | 7.323 | | 929 | VV | 16.40 |
| 6 | DBC | 42073 | 26.506 | -0.024 | 42073 | BB | ? 71.65 |
| TOTALS: | | 75470 | | -0.090 | 75470 | | |

DETECTED PKS: 17 REJECTED PKS: 11

DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 4.9 OFFSET: -8

I X: 3 VIAL: 14 INJ: 1

NOTES:
INSTRUMENT ID: C
COLUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIHARL 2534 WATER PEST/CLP

N/A - Analyte not present in primary analysis.

100314

ORIGINAL
(Red)

Versar INC.

# VI. SAMPLE PREPARATION PACKAGE

1. Parameter Request Sheet
2. Screening Data Summary (soils only)
3. Comments
   a. Extraction
   b. Volatiles
   c. Semivolatiles
   d. Pesticides
4. Extraction Worksheets
   a. Chronicle
   b. Dry Weight Factor (soils only)
   c. Dilution Factor (B) Worksheets
5. Injection Sequence Logs
6. Chain of Custody

VERSAR LIMS

Revised

04/26/90

ORIGINAL (Red)

VERSAR LABORATORY OPERATIONS
PARAMETER REQUEST SHEET

Deliver To: 46

Control: 2565
Code: VERSCDM
Batch: 4
Job Number: 420.1.0

Case: R3-7
SDG: 4
Quote: 9000194 - 90
Charge:

Manager: BECKMAN
Company: VERSAR DIV 31

Site: CDM

Received: 23-APR-90
Due: 21-MAY-90

Sampled: 19-APR-90
Report: 21-MAY-90
Disposal: 30-AUG-90

QC Level:
Deliver:

Rep Type:
Required: 1 Full, 1 Summary

Comments: Protocols - See VERSCDM-2(2536); Do 1 set of water QC for METALS ONLY. No sample QC for soils.

| Test | Sample | X | C | Field Number | Matrix | Location | Other Tests | | |
|---|---|---|---|---|---|---|---|---|---|
| BNAL - 48 | | | | | | | | | |
| | 16909 | A | | 4 | SOIL | A-34 | XBNA | | |
| | 16910 | A | | 8 | SOIL | A-34 | XBNA | | |
| | 16911 | A | | 9 | SOIL | A-34 | XBNA | | |
| Bac quals | 16912 | A | | 10 | SOIL | A-34 | XBNA | | |
| | 16913 | A | | 11 | SOIL | A-34 | XBNA | | |
| | 16914 | A | | 12 | SOIL | A-34 | XBNA | | |
| | 16915 | A | | 13 | SOIL | A-34 | XBNA | | |
| | 16916 | A | | 14 | SOIL | A-34 | XBNA | | |
| | 16917 | A | | 15 | SOIL | A-34 | XBNA | | |
| | 16918 | A | | GW-1 | HOH | A-34 | XACD<br>XPES | XBN | PEST |
| CLPM - 43 | | | | | | | | | |
| | 16928 | A | | 4 | SOIL | A-34 | | | |
| | 16929 | A | | 8 | SOIL | A-34 | | | |
| | 16930 | A | | 9 | SOIL | A-34 | | | |
| | 16931 | A | | 10 | SOIL | A-34 | | | |
| | 16932 | A | | 11 | SOIL | A-34 | | | |
| | 16933 | A | | 12 | SOIL | A-34 | | | |
| | 16934 | A | | 13 | SOIL | A-34 | | | |
| | 16935 | A | | 14 | SOIL | A-34 | | | |
| | 16936 | A | | 15 | SOIL | A-34 | | | |
| | 16937 | A | | GW-1 | HOH | A-34 | | | |
| | 16948 | A | | GW-1 | DHOH | A-34 | | | |
| CNM - 44 | | | | | | | | | |
| | 16938 | A | | 4 | SOIL | A-34 | TS | | |
| | 16939 | A | | 8 | SOIL | A-34 | TS | | |
| | 16940 | A | | 9 | SOIL | A-34 | TS | | |
| | 16941 | A | | 10 | SOIL | A-34 | TS | | |
| | 16942 | A | | 11 | SOIL | A-34 | TS | | |
| | 16943 | A | | 12 | SOIL | A-34 | TS | | |
| | 16944 | A | | 13 | SOIL | A-34 | TS | | |
| | 16945 | A | | 14 | SOIL | A-34 | TS | | |
| | 16946 | A | | 15 | SOIL | A-34 | TS | | |



Continued ->

100316

ORIGINAL (Red)

Control #: 2565

| Test | Sample | X | C | Field Number | Matrix | Location | Other Tests | | |
|---|---|---|---|---|---|---|---|---|---|
| | 16947 | A | | GW-1 | HOH | A-34 | | | |
| PEST - 47 | | | | | | | | | |
| | 16918 | A | | GW-1 | HOH | A-34 | XACD | XBN | XPES |
| | | | | | | | BNAL | | |
| | 16919 | A | | 4 | SOIL | A-34 | XPES | | |
| | 16920 | A | | 8 | SOIL | A-34 | XPES | | |
| | 16921 | A | | 9 | SOIL | A-34 | XPES | | |
| | 16922 | A | | 10 | SOIL | A-34 | XPES | | |
| | 16923 | A | | 11 | SOIL | A-34 | XPES | | |
| | 16924 | A | | 12 | SOIL | A-34 | XPES | | |
| | 16925 | A | | 13 | SOIL | A-34 | XPES | | |
| | 16926 | A | | 14 | SOIL | A-34 | XPES | | |
| | 16927 | A | | 15 | SOIL | A-34 | XPES | | |
| TCBN - 48 | | | | | | | | | |
| | 16960 | B | | 11 | SOIL | A-34 | TCLX | TCLM | XTCB |
| | | | | | | | TCPS | XTCP | TCHB |
| | | | | | | | XTCH | | |
| TCHB - 47 | | | | | | | | | |
| | 16960 | B | | 11 | SOIL | A-34 | TCLX | TCLM | TCBN |
| | | | | | | | XTCB | TCPS | XTCP |
| | | | | | | | XTCH | | |
| TCLM - 43 | | | | | | | | | |
| | 16960 | B | | 11 | SOIL | A-34 | TCLX | TCBN | XTCB |
| | | | | | | | TCPS | XTCP | TCHB |
| | | | | | | | XTCH | | |
| TCLV - 48 | | | | | | | | | |
| | 16961 | B | | 11 | SOIL | GC/MS | ZHE | | |
| TCLX - 43 | | | | | | | | | |
| | 16960 | B | | 11 | SOIL | A-34 | TCLM | TCBN | XTCB |
| | | | | | | | TCPS | XTCP | TCHB |
| | | | | | | | XTCH | | |
| TCPS - 47 | | | | | | | | | |
| | 16960 | B | | 11 | SOIL | A-34 | TCLX | TCLM | TCBN |
| | | | | | | | XTCB | XTCP | TCHB |
| | | | | | | | XTCH | | |
| TS - 44 | | | | | | | | | |
| | 16938 | A | | 4 | SOIL | A-34 | CNM | | |
| | 16939 | A | | 8 | SOIL | A-34 | CNM | | |
| | 16940 | A | | 9 | SOIL | A-34 | CNM | | |
| | 16941 | A | | 10 | SOIL | A-34 | CNM | | |
| | 16942 | A | | 11 | SOIL | A-34 | CNM | | |
| | 16943 | A | | 12 | SOIL | A-34 | CNM | | |
| | 16944 | A | | 13 | SOIL | A-34 | CNM | | |
| | 16945 | A | | 14 | SOIL | A-34 | CNM | | |
| | 16946 | A | | 15 | SOIL | A-34 | CNM | | |
| | 16949 | B | | 4 | SOIL | GC/MS | VOAL | | |
| | 16950 | B | | 8 | SOIL | GC/MS | VOAL | | |
| | 16951 | B | | 9 | SOIL | GC/MS | VOAL | | |
| | 16952 | B | | 10 | SOIL | GC/MS | VOAL | | |
| | 16953 | B | | 11 | SOIL | GC/MS | VOAL | | |
| | 16954 | B | | 12 | SOIL | GC/MS | VOAL | | |
| | 16955 | B | | 13 | SOIL | GC/MS | VOAL | | |
| | 16956 | B | | 14 | SOIL | GC/MS | VOAL | | |
| | 16957 | B | | 15 | SOIL | GC/MS | VOAL | | |
| VOAL - 48 | | | | | | | | | |
| | 16949 | B | | 4 | SOIL | GC/MS | TS | | |



Continued ->

100317

ORIGINAL (Red)

Control #: 2565

| Test | Sample | X | C | Field Number | Matrix | Location | Other Tests | | |
|---|---|---|---|---|---|---|---|---|---|
| | 16950 | B | | 8 | SOIL | GC/MS | TS | | |
| | 16951 | B | | 9 | SOIL | GC/MS | TS | | |
| | 16952 | B | | 10 | SOIL | GC/MS | TS | | |
| | 16953 | B | | 11 | SOIL | GC/MS | TS | | |
| | 16954 | B | | 12 | SOIL | GC/MS | TS | | |
| | 16955 | B | | 13 | SOIL | GC/MS | TS | | |
| | 16956 | B | | 14 | SOIL | GC/MS | TS | | |
| | 16957 | B | | 15 | SOIL | GC/MS | TS | | |
| | 16958 | B | | GW-1 | HOH | GC/MS | | | |
| | 16959 | B | | TB-2 | HOH | GC/MS | | | |
| XACD - 46 | | | | | | | | | |
| | 16918 | A | | GW-1 | HOH | A-34 | XBN | PEST | XPES |
| | | | | | | | BNAL | | |
| XBN - 46 | | | | | | | | | |
| | 16918 | A | | GW-1 | HOH | A-34 | XACD | PEST | XPES |
| | | | | | | | BNAL | | |
| XBNA - 46 | | | | | | | | | |
| | 16909 | A | | 4 | SOIL | A-34 | BNAL | | |
| | 16910 | A | | 8 | SOIL | A-34 | BNAL | | |
| | 16911 | A | | 9 | SOIL | A-34 | BNAL | | |
| | 16912 | A | | 10 | SOIL | A-34 | BNAL | | |
| | 16913 | A | | 11 | SOIL | A-34 | BNAL | | |
| | 16914 | A | | 12 | SOIL | A-34 | BNAL | | |
| | 16915 | A | | 13 | SOIL | A-34 | BNAL | | |
| | 16916 | A | | 14 | SOIL | A-34 | BNAL | | |
| | 16917 | A | | 15 | SOIL | A-34 | BNAL | | |
| XPES - 46 | | | | | | | | | |
| | 16918 | A | | GW-1 | HOH | A-34 | XACD | XBN | PEST |
| | | | | | | | BNAL | | |
| | 16919 | A | | 4 | SOIL | A-34 | PEST | | |
| | 16920 | A | | 8 | SOIL | A-34 | PEST | | |
| | 16921 | A | | 9 | SOIL | A-34 | PEST | | |
| | 16922 | A | | 10 | SOIL | A-34 | PEST | | |
| | 16923 | A | | 11 | SOIL | A-34 | PEST | | |
| | 16924 | A | | 12 | SOIL | A-34 | PEST | | |
| | 16925 | A | | 13 | SOIL | A-34 | PEST | | |
| | 16926 | A | | 14 | SOIL | A-34 | PEST | | |
| | 16927 | A | | 15 | SOIL | A-34 | PEST | | |
| XTCB - 46 | | | | | | | | | |
| | 16960 | B | | 11 | SOIL | A-34 | TCLX | TCLM | TCBN |
| | | | | | | | TCPS | XTCP | TCHB |
| | | | | | | | XTCH | | |
| XTCH - 46 | | | | | | | | | |
| | 16960 | B | | 11 | SOIL | A-34 | TCLX | TCLM | TCBN |
| | | | | | | | XTCB | TCPS | XTCP |
| | | | | | | | TCHB | | |
| XTCP - 46 | | | | | | | | | |
| | 16960 | B | | 11 | SOIL | A-34 | TCLX | TCLM | TCBN |
| | | | | | | | XTCB | TCPS | TCHB |
| | | | | | | | XTCH | | |
| ZHE - 43 | | | | | | | | | |
| | 16961 | B | | 11 | SOIL | GC/MS | TCLV | | |



100318

ORIGINAL (Red)

# EXTRACTS READY FOR ANALYSIS

DATE 05-11-90

CODE UEMSCDM BATCH 4 CONTROL # 2565

DATE RECEIVED 4-24-90 DATE EXTRACTED 4-26-90

# OF EXTRACT 2 # OF SAMPLES 1

MATRIX Hott PARAMETER Pest LOCATION 5

IS THIS A RE-EXTRACTION? No

COMMENTS

TECHNICIAN SIGNATURE R Williams

==========

SUPERVISOR USE ONLY

**PROVIDE AN EXPLANATION IF ANSWER IS NO**

| | | |
|---|---|---|
| Was the extraction holding time met? | ☑ YES | ☐ NO |
| Was proper QC performed with the extraction? | ☑ YES | ☐ NO |
| Are all columns complete, initialed, and dated? | ☑ YES | ☐ NO |
| Is column information accurate? | ☑ YES | ☐ NO |
| Is header information complete and accurate? | ☑ YES | ☐ NO |
| Were the correct standards used in the extraction? | ☑ YES | ☐ NO |
| Are final volumes correct? | ☑ YES | ☐ NO |
| Are sample comments included, initialed and dated? | ☑ YES | ☐ NO |
| Are dry weights included with the data package? | ☐ YES | ☑ NO $H_2O$ |
| Are dry weights correct? | ☐ YES | ☑ NO ↓ |

What clean-up procedure was used? Alumina 7%

SUPERVISOR _____ SECTION CHIEF J. Lang

100319

ORIGINAL (Red)

# EXTRACTS READY FOR ANALYSIS

DATE 5-14-90

CODE Versedm BATCH 4 CONTROL # 2565

DATE RECEIVED 4-23-90 DATE EXTRACTED 5-1-90

# OF EXTRACT 8 # OF SAMPLES 6

MATRIX Soil PARAMETER Pest LOCATION 5

IS THIS A RE-EXTRACTION? NO

COMMENTS 16910, 16912, 16914, 16915, 16916, 16917, RB8000, MSTD 3063

TECHNICIAN SIGNATURE [signature]

==========

SUPERVISOR USE ONLY

**PROVIDE AN EXPLANATION IF ANSWER IS NO**

| | | |
|---|---|---|
| Was the extraction holding time met? | ☑ YES | ☐ NO |
| Was proper QC performed with the extraction? | ☑ YES | ☐ NO |
| Are all columns complete, initialed, and dated? | ☑ YES | ☐ NO |
| Is column information accurate? | ☑ YES | ☐ NO |
| Is header information complete and accurate? | ☑ YES | ☐ NO |
| Were the correct standards used in the extraction? | ☑ YES | ☐ NO |
| Are final volumes correct? | ☑ YES | ☐ NO |
| Are sample comments included, initialed and dated? | ☑ YES | ☐ NO |
| Are dry weights included with the data package? | ☑ YES | ☐ NO |
| Are dry weights correct? | ☑ YES | ☐ NO |

What clean-up procedure was used? GPC / Alumina

SUPERVISOR _____ SECTION CHIEF [signature]

100000

Rc 3/3

5/21

ORIGINAL (Red)

EXTRACTS READY FOR ANALYSIS

DATE 5-2-90

CODE VERSCOM BATCH 4 CONTROL # 2565

DATE RECEIVED 4-23-90 DATE EXTRACTED 5-1-90

# OF EXTRACT 5 # OF SAMPLES 3

MATRIX Soil (MIO) PARAMETER PEST LOCATION 5

IS THIS A RE-EXTRACTION? NO

COMMENTS 16909, 16911, 16913, RB8002, MSTD 3065

TECHNICIAN SIGNATURE [signature]

==========

SUPERVISOR USE ONLY

**PROVIDE AN EXPLANATION IF ANSWER IS NO**

| | | |
|---|---|---|
| Was the extraction holding time met? | ☑ YES | ☐ NO |
| Was proper QC performed with the extraction? | ☑ YES | ☐ NO |
| Are all columns complete, initialed, and dated? | ☑ YES | ☐ NO |
| Is column information accurate? | ☑ YES | ☐ NO |
| Is header information complete and accurate? | ☑ YES | ☐ NO |
| Were the correct standards used in the extraction? | ☑ YES | ☐ NO |
| Are final volumes correct? | ☑ YES | ☐ NO |
| Are sample comments included, initialed and dated? | ☑ YES | ☐ NO |
| Are dry weights included with the data package? | ☑ YES | ☐ NO |
| Are dry weights correct? | ☑ YES | ☐ NO |

What clean-up procedure was used? Florisil 7%

SUPERVISOR [signature] SECTION CHIEF [signature]

100321

VERSAR INC.

# SAMPLE PREPARATION COMMENT SHEET

ORIGINAL (Red)

PROJECT VERSCDM BATCH 4 CASE R3-7

MATRIX HOH PREPARATION PARAMETER PEST/BNA CONTROL 2565

| | |
|---|---|
| VERSAR SAMPLE NUMBER 16918 | CLEAR, CLEAN WATER. MJS 4/26/90 |
| FIELD SAMPLE NUMBER GW-1 | |
| SOIL SAMPLE pH | |
| VERSAR SAMPLE NUMBER MSTD 3048 | Extract flask broke during concentration 4/m 5/14/90. |
| FIELD SAMPLE NUMBER | |
| SOIL SAMPLE pH | |
| VERSAR SAMPLE NUMBER | |
| FIELD SAMPLE NUMBER | |
| SOIL SAMPLE pH | |

100322

VERSAR INC.

SAMPLE PREPARATION COMMENT SHEET

1 OF 3

ORIGINAL (Red)

PROJECT Verscom BATCH 4 CASE NA

CONTROL 2565

MATRIX Soil PREPARATION PARAMETER BNA-PEST

| | |
|---|---|
| VERSAR SAMPLE NUMBER 16909/16919 | Soil is Black in color / with A small Amount of Leaves in it. the Soil sticks together And has A small Amount of Rocks in it. the Soil is moist MH 4-25-9 |
| FIELD SAMPLE NUMBER 4 | This sample screened very high as a BNA. Suggest Running a dilution. 5/1/90 |
| SOIL SAMPLE pH 6.97 | |
| VERSAR SAMPLE NUMBER 16910/16920 | Soil is Black in Color. the Soil is moist with A Grain Like structure. Looks Like ~~[illegible]~~ there Are No Rocks MH 4-25-90 |
| FIELD SAMPLE NUMBER 8 | |
| SOIL SAMPLE pH 7.32 | |
| VERSAR SAMPLE NUMBER 16911/16921 | Soil is Dark Brown in Color. with A small Amount of Rocks And leaves. Soil is moist 4-25-90 MH |
| FIELD SAMPLE NUMBER 9 | |
| SOIL SAMPLE pH 7.52 | |

100323

VERSAR INC.

SAMPLE PREPARATION COMMENT SHEET

2 of 3

ORIGINAL (Red)

PROJECT VERSCOM BATCH 4 CASE NA

M[illegible]IX SOIL PREPARATION PARAMETER BNA-PEST CONTROL 2565

| | |
|---|---|
| VERSAR SAMPLE NUMBER 16912/16922 | Soil is reddish/brown color. Soil is very fine grain with small sticks in it. Soil is dry MH 4-25-90 |
| FIELD SAMPLE NUMBER 10 | |
| SOIL SAMPLE pH 6.72 | |
| VERSAR SAMPLE NUMBER 16913/16923 | Soil is black/gray in color and is very rocky. Soil is dry MH 4-25-90 |
| FIELD SAMPLE NUMBER 11 | |
| SOIL SAMPLE pH 7.16 | |
| VERSAR SAMPLE NUMBER 16914/16924 | Soil is brown in color and very rocky. Soil is moist MH 4-25-90 |
| FIELD SAMPLE NUMBER 12 | |
| SOIL SAMPLE pH 7.3 | |

100324

VERSAR INC. SAMPLE PREPARATION COMMENT SHEET 3 OF 3

ORIGINAL (Red)

PROJECT Versar BATCH 4 CASE NA

MATRIX Soil PREPARATION PARAMETER BNA-PEST CONTROL 2565

| | |
|---|---|
| VERSAR SAMPLE NUMBER 16915/16925 | Soil is Brown (Light) with Tan colored Particles in it. Soil has roots in it and is very wet with standing water above sample. MH 4-25-90 |
| FIELD SAMPLE NUMBER 13 | |
| SOIL SAMPLE pH 8.03 | |
| VERSAR SAMPLE NUMBER 16916/16926 | Soil is Brown/Tan in Color. Sample is very wet with standing water. Sample has a larger amount of Rock, Leaves, and Grass in it MH 4-25-90 |
| FIELD SAMPLE NUMBER 14 | |
| SOIL SAMPLE pH 9.32 | |
| VERSAR SAMPLE NUMBER 16917/16927 | Soil is Brown in Color with Dark Brown Rocks. Soil is sandy and is moist MH 4-25-90 |
| FIELD SAMPLE NUMBER 15 | |
| SOIL SAMPLE pH 7.15 | |

100325

**Versar** INC.

SAMPLE COMMENTS (PESTICIDES)

ORIGINAL (Red)

CASE _____

Analysis on 05/15/90, 3% SP2100 inst C.

| EPA # | COMMENTS |
|---|---|
| | |
| | Checked linearity from the run last night |
| | didn't make it at 1st Attempt. |
| | Restarted analysis ~~RPC~~ PC again PC 5/15/90 |
| | VERSCDMB#4 CTL ~~#2565~~ PC 2565 was set up. |
| | (CLP Pest $H_2O$) |
| | linearity checked and made for all 4 combo. |
| | Used .02 as mid evals. PC. |
| | |
| | Modified Run to include several Batches |
| | CL 05/15/90 |
| | Had to end run at first cont. standard. % Δ |
| | for G-BHC was at 23%. Everything completed |
| | for VERSCDM #2565 (PBLK61, 16918) except for copies and MSTD. |
| | ~~#~~ DBC shift remained < 2% except for |
| | 16412 MS & MSD which needed 1/10 dilution. |
| | 19978, 19979 and 16412 also required |
| | 1/10 dilution. KC 5-16/90 |
| | |
| | |
| | |
| | |

100326

Signature _____ Date _____

**Versar** INC.

ORIGINAL (Red)

SAMPLE COMMENTS (PESTICIDES)

ENGI BLOM B.2 #2660

CASE VERSCOM B.4 #2565

| EPA # | COMMENTS IDST. #C 370SP2100 QUANT |
|---|---|
| | |
| | Checked Linearity, %RSD was < 10% |
| | for 0.01 0.02 0.05. DBC shift |
| | is remaining < 2% but is beginning |
| | to shift early. Started F8 F9 PCBSTD |
| | completed DF for both cases - Started |
| | crunching samples - Copies of |
| | standards are in casebooks. KC 5/18/90 |
| | ENGI BLOM #2660 will need |
| | confirmation Sample 18771 had |
| | a hit for B-BHC. QC started |
| | for both cases. KC 5/18/90 |
| | |
| | Crunched remaining samples, Completed 78, 79. Final |
| | stds out of criteria >15% difference. CF 05/19/90 |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

Signature Date

100327

**Versar** INC.

ORIGINAL (Red)

SAMPLE COMMENTS (PESTICIDES)
ENGI BLOM #2660

CASE VERSCDM #2565

| EPA # | COMMENTS Inst A SP22501240) CONF. |
|---|---|
| | Set up confirmation for Engiblom and Verscdm. Put 7AM on Inst. linearity needs checking. set up .05 as mid evaluation CR 05/19/90 |
| | Restarted analysis, two standards shifted greater the 2% (?). Tried tightening rupture nut. CR 5/19/90 |
| | Checked linearity, did not make ~~it~~ it. |
| | Restarted analysis - Linearity good % RSD |
| | < 10% for all combinations - using |
| | 0.01, 0.02, 0.05 |
| | Started F9, F8 completed up to 1254 standard. |
| | PCB STD Printed out for both cases. Copies |
| | of standard are in case books - crunched |
| | PBLK00 - Started QC and Form mix. KC 05/21/90 |

100328

Signature Date

DATE 5/22/90 SUBJECT DATA REVIEW PROJECT NO.

2565
VERSCDM

CASE: R37
SDG: 4
SITE: CDM

420.1.0
VERSAR DIV 31
RECD 4/23/90
Extd 04/26/90 WATER
05/01/90 MED
05/01/90 LOW

* Trials for low soils labled with BOA #'s

PEST $H_2O$

| | | | |
|---|---|---|---|
| GW1 | | 16918 | $H_2O$ |
| 4 | | 16919 | Soil M |
| 8 | 16910 | 16920 | L |
| 9 | | 16921 | M |
| 10 | 16912 | 16922 | L |
| 11 | | 16923 | M |
| 12 | 16914 | 16924 | L |
| 13 | 16915 | 16925 | L |
| 14 | 16916 | 16926 | L |
| 15 | 16917 | 16927 | L |

$H_2O$ Init Primary C 32SP2100 5/15
Lin: 5 4 4 4
DEG: 0 0
DBC: ≤2% ALL [ND] UR
2 SAMPLES >3% UR

Init: AB + PCB
CCSF: AB
* 2D 7 of 19 > 15%
* RT's OK [Methoxy out]

$H_2O$ Environmental IDs
ND ALL

QC
SURR REC: 0 of 2 out
MS/MSD: NA
RB SUMM: NO POS ID OR SIG INT.
MSTD: BROKE.

MED Primary Inst A SP7250/SP2401 5/5
Lin: 1 3 5 1
DEG: 0/0 0/0 0/7 0/12
DBC ≤2% ALL [ND] UR

Init: AB + PCB
CCSM1: A
2D ≤15% ALL RT's OK
CCSM2: B
2D ≤10% ALL RT's OK
CCSF: AB
2D ≤15% ALL [DDT C 29]
RT's OK [Methoxy C 28]

MED Secondary C 5/8
Lin: 6 4 3 4
DEG: 3 0 0 0
DBC ≤2% ALL

Init: AB + PCB
CCSM1: A 2D ≤16% ALL RT's OK
CCSM2: AB 2D ≤10% ALL RT's OK
CCSF: AB 2D 17 of 19 > 20% [NSD8]
RT's OK

WITNESSED AND UNDERSTOOD

SIGNED DATE SIGNED [signature]
SIGNED DATE DATE 5/22/90

100329

DATE SUBJECT PROJECT NO.

2565 CONT

MED

ENVIRONMENTAL IDS
[ND ALL]

QC
SURR REC: 1 of 4 out
MS/MSD: NA
RB SUMM: NO POS ID OR SIG INT.
JOST C MSTD: 82/78/70/67/74/76/66

LOW

PRIMARY C 5/18
Cin: 8 9 6 7
Deg: 0 0
DBC: ≤ 2% ALL [10" ND]

Init: AB + PCB
* CCSF: AB %D > 50, < 80% ALL
* RT'S 5 of 19 out.

SECONDARY A 5/21
Cin: 3 4 6 3
Deg: 0/0 0/0
DBC ≤ 2% ALL

Init: AB + PCB
CCSF: AB
%D ≤ 20% ALL
RT'S OK

LOW

ENVIRONMENTAL ID'S

| | A | C | |
|---|---|---|---|
| 12 | 17.27 | 29.42 | END KETONE |
| 15 | 17.96 | 22.53 | DDE |

[ALL REMAINING ND]

QC
SURR REC: 2 of 7 out
MS/MSD: NA
RB SUMM: NO POS ID OR SIG INT
MSTD: 72/65/83/86/93/65
↑
NO ALDRIN!
(INTERFERENCE PEAK.)

WITNESSED AND UNDERSTOOD

SIGNED DATE SIGNED [signature]

SIGNED DATE DATE 5/22/20

100330

VERSAR INC.

CONTROL 065

PEST TYPE WATER SAMPLE PREPARATION SHEET -BY CONTINUOUS EXTRACTION

PROJECT VERSCDM

CASE R3-7

BATCH 4

DATE 4-26-90

EXTRACTION PARAMETER PEST

EXTRACTION START DATE 4-26-90

DATE EXTRACTION COMPLETE 4-27-90

ADSORBENT BATCH NUMBER ALUMINA

MATRIX SPIKE SOLUTION B759

SURROGATE SPIKE SOLUTION B929

PAGE 1 OF 1

| VERSAR SAMPLE NUMBER | FIELD SAMPLE NUMBER | SAMPLE VOLUME IN ML. | SPIKE SURR. | SPIKE MS | DATE PEST RECOVERED | DATE PEST CONCENTRN | INITIAL EXTRACT FINAL VOL. | ACID CLEANED YES/NO | VOLUME TO COLUMN CLEAN UP | FINAL CLEANED VOLUME | SAMPLE COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16918 | GW-1 | 1000mL | 1mL | — | 4-27-90 | 10 MAY 1990 | 0.5mL | NO | 0.5mL | 10ml | |
| RB 7961 | FBLK 61 | | 1mL | — | | | | | | | |
| MSTD 3048 | — | | 1mL | 1mL | | | | | | | See sample comment |
| | | KYJ 4/26/90 | KYJ 4/26/90 | KYJ 4/26/90 | KYJ | M.S.R | RW 5-11-90 | RW 5-10-90 | RW 5-10-90 | RW 5-10-90 | |

10C331

ORIGINAL (Red)

VERSAR INC. LOW LEVEL SOIL SAMPLE PREPARATION SHEET -BY SONICATION

CONTROL 2565

PROJECT VERSCDM

BATCH 4

CASE R3-7

DATE 5-1-90

SPIKING SOLUTIONS

M.S. BNA ~~2-3~~ 022402 MH S.S.S. BNA 22549

M.S. PEST B931 S.S.S. PEST B928

PAGE 1 OF 1

EXTRACTION PARAMETER BNA-PEST

DATE EXTRACTION COMPLETED 5-1-90

ADSORBENT BATCH NUMBER Alumina

| VERSAR SAMPLE NUMBER | FIELD SAMPLE NUMBER | SAMPLE WEIGHT IN GRAMS | SPIKE VOL. BNA MS | SPIKE VOL. BNA SSS | SPIKE VOL. PEST MS | SPIKE VOL. PEST SSS | INITIAL EXTRACT FINAL VOL | VOLUME TO GPC IN ML. | FINAL GPC VOLUME | VOLUME TO PEST CLEAN UP | VOLUME TO BNA | FINAL PEST VOLUME | FINAL BNA VOLUME | SAMPLE COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16910/16920 | 8 | 30.18 | — | 1.0mL | — | 1.0mL | 10mL | 5mL | 10mL | 0.5mL | 9.5mL | 1mL | 1mL | |
| 16912/16922 | 10 | 30.04 | — | — | — | 1.0mL | | | | | | | | Pest only. |
| 16914/16924 | 12 | 30.00 | — | 1.0mL | — | 1.0mL | | | | | | | | |
| 16915/16925 | 13 | 30.17 | — | 1.0mL | — | 1.0mL | | | | | | | | |
| 16916/16926 | 14 | 30.03 | — | 1.0mL | — | 1.0mL | | | | | | | | |
| 16917/16927 | 15 | 30.11 | — | 1.0mL | — | 1.0mL | | | | | | | | |
| RB8000 | PBLK00 | — | — | 1.0mL | — | 1.0mL | | | | | | | | |
| MSTD3063 | — | — | 2.0mL | 1.0mL | 1.0mL | 1.0mL | | | | | | | | |
| MH | 5-1-90 | MH | ST-1-90 | | | | 5-10-90 | | MH | 5-14-90 | MH | 5-14-90 | | |

MH

100332

VERSAR INC. MEDIUM LEVEL SOLID SAMPLE PREPARATION SHEET -BY SONICATION

PROJECT VERSCAM
CASE B3-7
BATCH 4
DATE 05-01-90

SPIKING SOLUTIONS
M.S. BNA —
M.S. PEST B169
S.S.S BNA —
S.S.S PEST B929

PAGE 1 OF 1
EXTRACTION PARAMETER Pest
DATE EXTRACTION COMPLETED 5-1-90
ADSORBENT BATCH NUMBER Alumina

| VERSAR SAMPLE NUMBER | FIELD SAMPLE NUMBER | SAMPLE WEIGHT IN GRAMS | SPIKE VOL. BNA MS | SPIKE VOL. BNA SSS | SPIKE VOL. PEST MS | SPIKE VOL. PEST SSS | TOTAL EXTRACTION VOLUME | ALIQUOT OF EXTRACT TO BNA | BNA FINAL VOLUME | ALIQUOT OF EXTRACT TO PEST | COLUMN CLEAN UP YES/NO | PEST FINAL VOLUME | SAMPLE COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16909 | 4 | 1.02g | — | — | — | 1ml | 10ml | NA | NA | 1ml | Yes | 1.0mL | |
| 16911 | 9 | 1.00g | — | — | — | 1ml | 10ml | | | 1ml | | | |
| 16913 | 11 | 1.14 | — | — | — | 1ml | 10ml | | | 1ml | | | |
| RB 8002 | PBLK02 | — | — | — | — | 1ml | 10ml | | | 1ml | | | |
| MTA 2065 | — | — | — | — | 1ml | 1ml | 10ml | | | 1ml | | | |
| | | | | | AW 5-1-90 | AW | DW 5-1-90 | KMJ | KMJ | DW 5-1-90 | Dem 5-2-90 | MH 5-2-90 | |

100333

ORIGINAL (Red)

VERSAR INC. Total Solids

Project :VERSCDM Case :R3-7 Batch :4

ORIGINAL (Red)

Date :04-30-1990 Analyst :MH

| Versar Sample# | Field Sample# | Tray Weight | Tray + Wet Wt Sample | Net Wet Weight Sample | Tray + Dry Wt Sample | Net Dry Weight Sample | % Moisture | Dry Weight Factor |
|---|---|---|---|---|---|---|---|---|
| 16909/16919 | 4 | 0.99g | 6.00g | 5.01g | 5.31g | 4.32g | 13.8% | 1.16 |
| 16910/16920 | 8 | 1.00g | 6.12g | 5.12g | 4.18g | 3.18g | 37.9% | 1.61 |
| 16911/16921 | 9 | 0.99g | 6.09g | 5.10g | 5.27g | 4.28g | 16.1% | 1.19 |
| 16912/16922 | 10 | 0.99g | 5.99g | 5.00g | 4.41g | 3.42g | 31.6% | 1.46 |
| 16913/16923 | 11 | 0.99g | 5.99g | 5.00g | 5.79g | 4.80g | 4.0% | 1.04 |
| 16914/16924 | 12 | 0.99g | 6.03g | 5.04g | 5.70g | 4.71g | 6.5% | 1.07 |
| 16915/16925 | 13 | 1.00g | 6.08g | 5.08g | 3.01g | 2.01g | 60.4% | 2.53 |
| 16916/16926 | 14 | 0.99g | 6.12g | 5.13g | 3.53g | 2.54g | 50.5% | 2.02 |
| 16917/16927 | 15 | 1.00g | 6.01g | 5.01g | 5.61g | 4.61g | 8.0% | 1.09 |

VERSAR INC. GPC SAMPLE IDENTIFICATION LOG PAGE 1 OF 1

CONTROL # 2536, 2565, 2400 Rec

CODE Vers. CDM, vers COM, EC SUMS

BATCH 2, 4, 1

CASE —

DATE 5-10-90

EXTRACT VOL 10 ml

DUMP TIME 21 min

COLLECT TIME 21 min

WASH TIME 20 min

GPC CALIBRATION # 22502

CALIBRATION STD 3 ml

INJECT VOL 5ml

*3.0 ml of dilution + 9.5 ml of undiluted extract

REMAINING EXTRACT VOLUME 3 ml

| No. | SAMPLE # | FIELD # | REMARKS : |
|---|---|---|---|
| 1 | 16412* | 1 | .5 ml of extract Diluted to 10ml |
| 2 | 16412 ms* | 1 | See sample comment |
| 3 | 16412 msd* | 1 | |
| 4 | 16413 | 2 | |
| 5 | 16414 | 3 | |
| 6 | 16424 | 7 | |
| 7 | RB 7966 | — | |
| 8 | MSTD 3049 | — | |
| 9 | 16912 | 10 | |
| 10 | 16914 | 12 | |
| 11 | 16915 | 13 | |
| 12A ~~12~~ 12B | 16916 16917 | 14 ~~14~~ 15 | |
| 13 | GPC BLANK | — | |
| 14 | RB 8000 | — | |
| 15 | MSTD 3063 | — | |
| 16 | 16910 | 8 | |
| 17 | 13693 msd | 62SB1070901XX | Re-extracted due to Bad |
| 18 | RB 8060 | | GPC Clean-up on the first Run. |
| 19 | | | |
| 20 | | | |
| 21 | | | |
| 22 | | | |
| 23 | | | |

vers COM B.2

vers COM B4

EC SU B1

100335

GTC STD 1

05-07-90

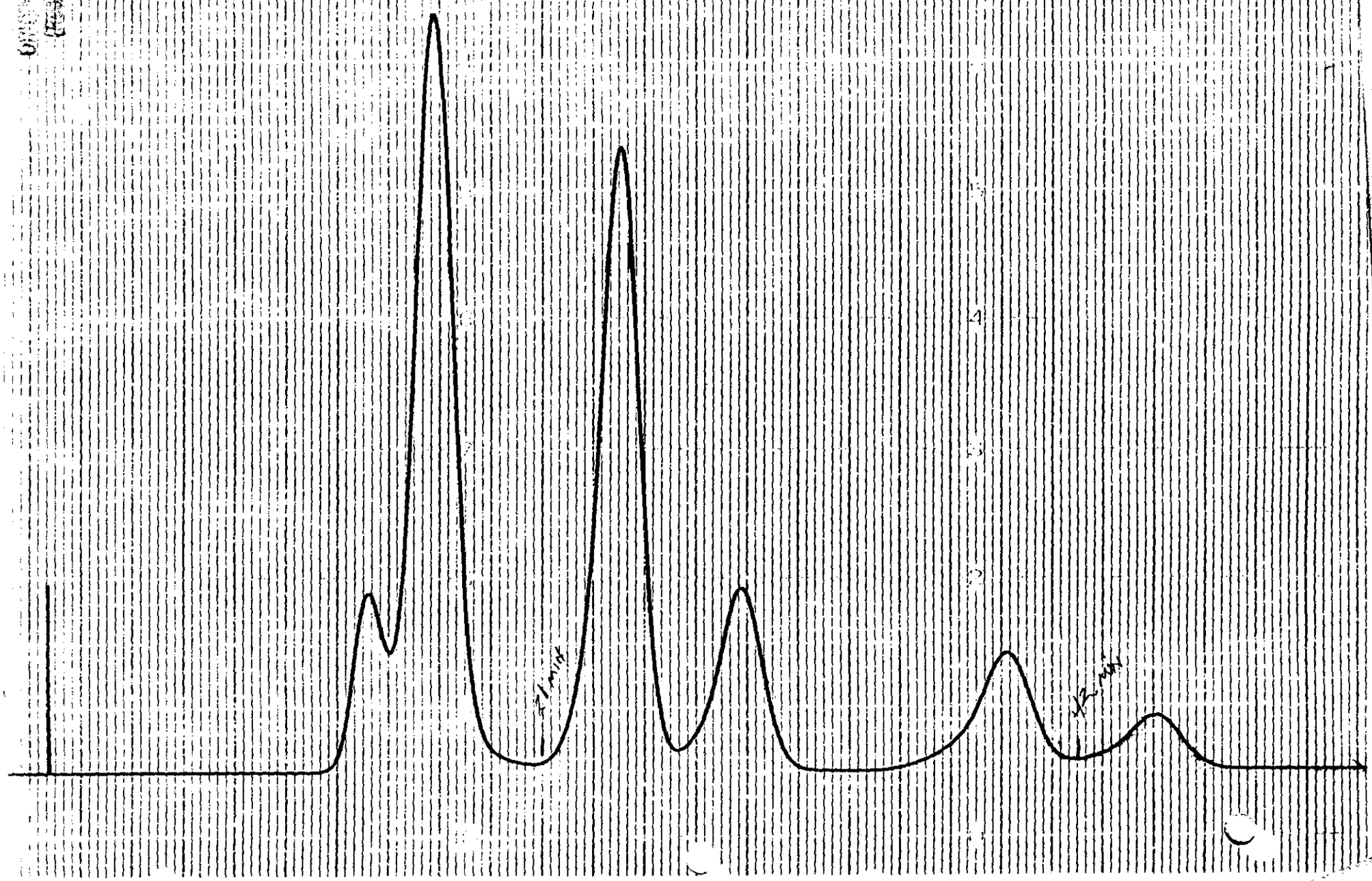


Figure 3

106337

PESTICIDES DILUTION FACTOR TABLE

Lab Name: VERSAR, INC. Case No.: VERSCDM #2565

Lab Code: VERSAR Contract:

Instrument ID: C SAS No.:

Run Date: 05/15,16/90 GC Column ID: 3% SP2100

Inject 2.00 (uL) Window Width: 1.0%

Extraction Date: 04/26/90 Extraction Chemist: KJ

DILUTION FACTOR (DF) = (NG INJECTED)/(UL INJECTED)*DF = CONC (UG/KG OR UG/L)

| | MATRIX | EPA SAMPLE # | LAB SAMPLE ID # | VOL (ml) OF SAMPLE | % MOISTURE | INITIAL EXT FINAL VOL (ML) | ALIQUOT TO PEST (ML) | FINAL PEST VOL (ML) | DILUTION AT INSTRUMENT | DILUTION FACTOR (ml/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | WATER | PBLK61 | RB7961 | 1000 | 0.00 | 0.50 | 0.50 | 10.00 | 1.0 | 10.00 |
| 2 | WATER | MSTD3048 | MSTD3048 | 1000 | 0.00 | 0.50 | 0.50 | 10.00 | 1.0 | 10.00 |
| 3 | WATER | GW1 | 16918 | 1000 | 0.00 | 0.50 | 0.50 | 10.00 | 1.0 | 10.00 |
| 4 | WATER | X | X | X | 0.00 | 0.50 | 0.50 | 10.00 | 1.0 | ERR |
| 5 | WATER | X | X | X | 0.00 | 0.50 | 0.50 | 10.00 | 1.0 | ERR |
| 6 | WATER | X | X | X | 0.00 | 0.50 | 0.50 | 10.00 | 1.0 | ERR |
| 7 | WATER | X | X | X | 0.00 | 0.50 | 0.50 | 10.00 | 1.0 | ERR |
| 8 | WATER | X | X | X | 0.00 | 0.50 | 0.50 | 10.00 | 1.0 | ERR |
| 9 | WATER | X | X | X | 0.00 | 0.50 | 0.50 | 10.00 | 1.0 | ERR |
| 10 | WATER | X | X | X | 0.00 | 0.50 | 0.50 | 10.00 | 1.0 | ERR |
| 11 | WATER | X | X | X | 0.00 | 0.50 | 0.50 | 10.00 | 1.0 | ERR |
| 12 | WATER | X | X | X | 0.00 | 0.50 | 0.50 | 10.00 | 1.0 | ERR |
| 13 | WATER | X | X | X | 0.00 | 0.50 | 0.50 | 10.00 | 1.0 | ERR |
| 14 | WATER | X | X | X | 0.00 | 0.50 | 0.50 | 10.00 | 1.0 | ERR |
| 15 | WATER | X | X | X | 0.00 | 0.50 | 0.50 | 10.00 | 1.0 | ERR |
| 16 | WATER | X | X | X | 0.00 | 0.50 | 0.50 | 10.00 | 1.0 | ERR |
| 17 | WATER | X | X | X | 0.00 | 0.50 | 0.50 | 10.00 | 1.0 | ERR |
| 18 | WATER | X | X | X | 0.00 | 0.50 | 0.50 | 10.00 | 1.0 | ERR |
| 19 | WATER | X | X | X | 0.00 | 0.50 | 0.50 | 10.00 | 1.0 | ERR |
| 20 | WATER | X | X | X | 0.00 | 0.50 | 0.50 | 10.00 | 1.0 | ERR |
| 21 | WATER | X | X | X | 0.00 | 0.50 | 0.50 | 10.00 | 1.0 | ERR |
| 22 | WATER | X | X | X | 0.00 | 0.50 | 0.50 | 10.00 | 1.0 | ERR |
| 23 | WATER | X | X | X | 0.00 | 0.50 | 0.50 | 10.00 | 1.0 | ERR |
| 24 | WATER | X | X | X | 0.00 | 0.50 | 0.50 | 10.00 | 1.0 | ERR |
| 25 | WATER | X | X | X | 0.00 | 0.50 | 0.50 | 10.00 | 1.0 | ERR |
| 26 | WATER | X | X | X | 0.00 | 0.50 | 0.50 | 10.00 | 1.0 | ERR |
| 27 | WATER | X | X | X | 0.00 | 0.50 | 0.50 | 10.00 | 1.0 | ERR |
| 28 | WATER | X | X | X | 0.00 | 0.50 | 0.50 | 10.00 | 1.0 | ERR |
| 29 | WATER | X | X | X | 0.00 | 0.50 | 0.50 | 10.00 | 1.0 | ERR |
| 30 | WATER | X | X | X | 0.00 | 0.50 | 0.50 | 10.00 | 1.0 | ERR |

If sample matrix is SOIL, DF adjusted to meet EPA-CLP specified limits (1.201x).

KC

18-May-90

# PESTICIDES DILUTION FACTOR TABLE

Lab Name: VERSAR, INC. Case No.: R3-7

Lab Code: VERSAR Contract:

Instrument ID: C SAS No.:

Run Date: 05/18/90 GC Column ID: 3% SP2100

Inject 2.00 (uL) Window Width: 1.0%

Extraction Date: 05/01/90 Extraction Chemist: MH

DILUTION FACTOR (DF) = (NG INJECTED)/(UL INJECTED)*DF = CONC (UG/KG OR UG/L)

| | MATRIX | EPA SAMPLE # | LAB SAMPLE ID # | WT (g) OF SAMPLE | % MOISTURE | INITIAL EXT FINAL VOL (ML) | ALIQUOT TO PEST (ML) | FINAL PEST VOL (ML) | DILUTION AT INSTRUMENT | DILUTION FACTOR (ml/Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SOIL | PBLK00 | RB8000 | 30 | 0 | 20.00 | 0.50 | 1.00 | 1.0 | 1601.33 |
| 2 | SOIL | MSTD3063 | MSTD3063 | 30 | 0 | 20.00 | 0.50 | 1.00 | 1.0 | 1601.33 |
| 3 | SOIL | 8 | 16910/16920 | 30 | 38 | 20.00 | 0.50 | 1.00 | 1.0 | 2563.26 |
| 4 | SOIL | 10 | 16912/16922 | 30 | 32 | 20.00 | 0.50 | 1.00 | 1.0 | 2338.01 |
| 5 | SOIL | 12 | 16914/16924 | 30 | 7 | 20.00 | 0.50 | 1.00 | 1.0 | 1712.66 |
| 6 | SOIL | 13 | 16915/16925 | 30 | 60 | 20.00 | 0.50 | 1.00 | 1.0 | 4020.99 |
| 7 | SOIL | 14 | 16916/16926 | 30 | 51 | 20.00 | 0.50 | 1.00 | 1.0 | 3231.79 |
| 8 | SOIL | 15 | 16917/16927 | 30 | 8 | 20.00 | 0.50 | 1.00 | 1.0 | 1734.22 |
| 9 | SOIL | X | X | X | X | 20.00 | 0.50 | 1.00 | 1.0 | ERR |
| 10 | SOIL | X | X | X | X | 20.00 | 0.50 | 1.00 | 1.0 | ERR |
| 11 | SOIL | X | X | X | X | 20.00 | 0.50 | 1.00 | 1.0 | ERR |
| 12 | SOIL | X | X | X | X | 20.00 | 0.50 | 1.00 | 1.0 | ERR |
| 13 | SOIL | X | X | X | X | 20.00 | 0.50 | 1.00 | 1.0 | ERR |
| 14 | SOIL | X | X | X | X | 20.00 | 0.50 | 1.00 | 1.0 | ERR |
| 15 | SOIL | X | X | X | X | 20.00 | 0.50 | 1.00 | 1.0 | ERR |
| 16 | SOIL | X | X | X | X | 20.00 | 0.50 | 1.00 | 1.0 | ERR |
| 17 | SOIL | X | X | X | X | 20.00 | 0.50 | 1.00 | 1.0 | ERR |
| 18 | SOIL | X | X | X | X | 20.00 | 0.50 | 1.00 | 1.0 | ERR |
| 19 | SOIL | X | X | X | X | 20.00 | 0.50 | 1.00 | 1.0 | ERR |
| 20 | SOIL | X | X | X | X | 20.00 | 0.50 | 1.00 | 1.0 | ERR |
| 21 | SOIL | X | X | X | X | 20.00 | 0.50 | 1.00 | 1.0 | ERR |
| 22 | SOIL | X | X | X | X | 20.00 | 0.50 | 1.00 | 1.0 | ERR |
| 23 | SOIL | X | X | X | X | 20.00 | 0.50 | 1.00 | 1.0 | ERR |
| 24 | SOIL | X | X | X | X | 20.00 | 0.50 | 1.00 | 1.0 | ERR |
| 25 | SOIL | X | X | X | X | 20.00 | 0.50 | 1.00 | 1.0 | ERR |
| 26 | SOIL | X | X | X | X | 20.00 | 0.50 | 1.00 | 1.0 | ERR |
| 27 | SOIL | X | X | X | X | 20.00 | 0.50 | 1.00 | 1.0 | ERR |
| 28 | SOIL | X | X | X | X | 20.00 | 0.50 | 1.00 | 1.0 | ERR |
| 29 | SOIL | X | X | X | X | 20.00 | 0.50 | 1.00 | 1.0 | ERR |
| 30 | SOIL | X | X | X | X | 20.00 | 0.50 | 1.00 | 1.0 | ERR |

If sample matrix is SOIL, DF adjusted to meet EPA-CLP specified limits (1.20lx).

KC 30389

PESTICIDES DILUTION FACTOR TABLE

Lab Name: VERSAR, INC. Case No.: R3-7

Lab Code: VERSAR Contract:

Instrument ID: A SAS No.:

Run Date: 05/05,06/90 GC Column ID: SP2250/SP2401

Inject 2.00 (uL) Window Width: 1.0%

Extraction Date: 05/01/90 Extraction Chemist: MH

DILUTION FACTOR (DF) = (NG INJECTED)/(UL INJECTED)*DF = CONC (UG/KG OR UG/L)

| | MATRIX | EPA SAMPLE # | LAB SAMPLE ID # | WT (g) OF SAMPLE | % MOISTURE | INITIAL EXT FINAL VOL (ML) | ALIQUOT TO PEST (ML) | FINAL PEST VOL (ML) | DILUTION AT INSTRUMENT | DILUTION FACTOR (ml/Kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SOIL | 14 | 16909 | 1 | 14 | 10.00 | 1.00 | 1.00 | 1.0 | 13659.52 |
| 2 | SOIL | 19 | 16911 | 1 | 16 | 10.00 | 1.00 | 1.00 | 1.0 | 14314.66 |
| 3 | SOIL | 11 | 16913 | 1 | 60 | 10.00 | 1.00 | 1.00 | 1.0 | 26603.76 |
| 4 | SOIL | PBLK02 | RB8002 | 1 | 0 | 10.00 | 1.00 | 1.00 | 1.0 | 12010.00 |
| 5 | SOIL | MSTD3065 | MSTD3065 | 1 | 0 | 10.00 | 1.00 | 1.00 | 1.0 | 12010.00 |
| 6 | SOIL | X | X | X | X | 10.00 | 1.00 | 1.00 | 1.0 | ERR |
| 7 | SOIL | X | X | X | X | 10.00 | 1.00 | 1.00 | 1.0 | ERR |
| 8 | SOIL | X | X | X | X | 10.00 | 1.00 | 1.00 | 1.0 | ERR |
| 9 | SOIL | X | X | X | X | 10.00 | 1.00 | 1.00 | 1.0 | ERR |
| 10 | SOIL | X | X | X | X | 10.00 | 1.00 | 1.00 | 1.0 | ERR |
| 11 | SOIL | X | X | X | X | 10.00 | 1.00 | 1.00 | 1.0 | ERR |
| 12 | SOIL | X | X | X | X | 10.00 | 1.00 | 1.00 | 1.0 | ERR |
| 13 | SOIL | X | X | X | X | 10.00 | 1.00 | 1.00 | 1.0 | ERR |
| 14 | SOIL | X | X | X | X | 10.00 | 1.00 | 1.00 | 1.0 | ERR |
| 15 | SOIL | X | X | X | X | 10.00 | 1.00 | 1.00 | 1.0 | ERR |
| 16 | SOIL | X | X | X | X | 10.00 | 1.00 | 1.00 | 1.0 | ERR |
| 17 | SOIL | X | X | X | X | 10.00 | 1.00 | 1.00 | 1.0 | ERR |
| 18 | SOIL | X | X | X | X | 10.00 | 1.00 | 1.00 | 1.0 | ERR |
| 19 | SOIL | X | X | X | X | 10.00 | 1.00 | 1.00 | 1.0 | ERR |
| 20 | SOIL | X | X | X | X | 10.00 | 1.00 | 1.00 | 1.0 | ERR |
| 21 | SOIL | X | X | X | X | 10.00 | 1.00 | 1.00 | 1.0 | ERR |
| 22 | SOIL | X | X | X | X | 10.00 | 1.00 | 1.00 | 1.0 | ERR |
| 23 | SOIL | X | X | X | X | 10.00 | 1.00 | 1.00 | 1.0 | ERR |
| 24 | SOIL | X | X | X | X | 10.00 | 1.00 | 1.00 | 1.0 | ERR |
| 25 | SOIL | X | X | X | X | 10.00 | 1.00 | 1.00 | 1.0 | ERR |
| 26 | SOIL | X | X | X | X | 10.00 | 1.00 | 1.00 | 1.0 | ERR |
| 27 | SOIL | X | X | X | X | 10.00 | 1.00 | 1.00 | 1.0 | ERR |
| 28 | SOIL | X | X | X | X | 10.00 | 1.00 | 1.00 | 1.0 | ERR |
| 29 | SOIL | X | X | X | X | 10.00 | 1.00 | 1.00 | 1.0 | ERR |
| 30 | SOIL | X | X | X | X | 10.00 | 1.00 | 1.00 | 1.0 | ERR |

If sample matrix is SOIL, DF adjusted to meet EPA-CLP specified limits (1.20lx).

CL 05/08/90

100340

DATE 05/05/90 SUBJECT Inj. log A PROJECT NO.

ORIGINAL (PLD)

Oper. Judy Amador Date 5/5/90
Detec. ECD Temp. 300 °C
Column 6' x 4mm Type SP2250/SP2401
Carrier Gas N2 at
Oven 205 °C for 30 ISO
for — min at
Inst. ID A Baseline
Project ENGIALBA 2521, 2544 / Parameter Allen 2416
ENGIHARL 2534, 2542 / VERSCOM 2565 Pest / H2O & SOILS

Quant Analysis

| SAMP# | RACK/VIAL | TYPE SAMPLE ID |
|---|---|---|
| 1 | 1/ 1 | B787 EVAL.01 |
| 2 | 1/ 2 | B788 EVAL.02 |
| 3 | 1/ 4 | B789 EVAL.05 |
| 4 | 1/ 5 | B790 EVAL.10 |
| 5 | 1/ 7 | B973 INDA.10 |
| 6 | 1/ 8 | B974 INDB.10 |
| 7 | 1/10 | B767 TOXAPH |
| 8 | 1/11 | B699 AR1660 |
| 9 | 1/13 | B762 AR1242 |
| 10 | 1/14 | B696 AR1248 |
| 11 | 2/ 1 | B761 AR1254 |
| 12 | 2/ 2 | PBLK57 |
| 13 | 2/ 4 | 16131 |
| 14 | 2/ 5 | 16131MS |
| 15 | 2/ 7 | 16131MSD |
| 16 | 2/ 8 | PBLK58 |
| 17 | 2/10 | B788 EVALB |
| 18 | 2/11 | 16378 |
| 19 | 2/13 | 16378MS |
| 20 | 2/14 | 16378MSD |
| 21 | 3/ 1 | 16379 |
| 22 | 3/ 2 | 16378 1/10 |
| 23 | 3/ 4 | B973 INDA.10 |
| 24 | 3/ 5 | PBLK89 |
| 25 | 3/ 7 | 16638 |
| 26 | 3/ 8 | 16639 |
| 27 | 3/10 | PBLK39 |
| 28 | 3/11 | 16607 |
| 29 | 3/13 | B788 EVALB |
| 30 | 3/14 | 16608 |
| 31 | 4/ 1 | 16609 |
| 32 | 4/ 2 | 16610 |
| 33 | 4/ 4 | 16611 |
| 34 | 4/ 5 | PBLK02 |
| 35 | 4/ 7 | B974 INDB.10 |
| 36 | 4/ 8 | 16909 |
| 37 | 4/10 | 16911 |
| 38 | 4/11 | 16913 |
| 39 | 4/13 | MSTD3045 |
| 40 | 4/14 | MSTD3046 |
| 41 | 5/ 1 | B788 EVALB |
| 42 | 5/ 2 | MSTD3058 |
| 43 | 5/ 4 | B973 INDA.10 |
| 44 | 5/ 5 | B974 INDB.10 |
| 45 | 5/ 7 | MSTD3040 |
| 46 | 5/ 8 | MSTD3065 |

Dilution made by
(This std misinjected - reshot after B699 AR1660) JKL 05/
1/10 = 100 ul sample
1 ml hexane
JA
5/5/90

Judy Amador

TNESSED AND UNDERSTOOD

GNED DATE SIGNED Judy Amador

GNED

100341

48 DATE 05/15/90 SUBJECT Inylog book C PROJECT NO.

ORIGINAL (Red)

Oper. P. Chimyuoth Date 05/15/90
Detec. ECD Temp. 300 °C
Column 6' X 2 mm Type 3% SP2100
Carrier Gas Ar/CH4 at ____ mL/min
Oven 190 °C for 30 min to 150
for ____ min at ____ °C/min
Inst. ID C Baseline ____
Project VERSCDM B4 (GSY MD) Parameter CLPPest.

| SAMP# | RACK/VIAL | TYPE SAMPLE ID |
|---|---|---|
| 1 | 1/ 1 | B787 EVAL.01 |
| 2 | 1/ 2 | B788 EVAL.02 |
| 3 | 1/ 4 | B789 EVAL.05 |
| 4 | 1/ 5 | B790 EVAL.10 |
| 5 | 1/ 7 | B973 INDA.10 |
| 6 | 1/ 8 | B974 INDB.10 |
| 7 | 1/10 | B767 TOXAPH |
| 8 | 1/11 | B699 AR1660 |
| 9 | 1/13 | B762 AR1242 |
| 10 | 1/14 | B948 AR1248 |
| 11 | 2/ 1 | B761 AR1254 |
| 12 | 2/ 2 | PBLK61 |
| 13 | 2/ 4 | 16918 |
| 14 | 2/ 5 | PBLK77 |
| 15 | 2/ 7 | 19978 |
| 16 | 2/ 8 | 19979 |
| 17 | 2/10 | EVALB |
| 18 | 2/11 | RB7966 |
| 19 | 2/13 | 16412 |
| 20 | 2/14 | 16412MS |
| 21 | 3/ 1 | 16412MSD |
| 22 | 3/ 2 | 16413 |
| 23 | 3/ 4 | *B973 INDA.10 |
| 24 | 3/ 5 | ~~[illegible]~~ INDB |
| 25 | 3/ 7 | 16424 |
| 26 | 3/ 8 | RB8067 |
| 27 | 3/10 | 18771 |
| 28 | 3/11 | GPCBLK |
| 29 | 3/13 | EVALB |
| 30 | 3/14 | RB8000 |
| 31 | 4/ 1 | 16912 |
| 32 | 4/ 2 | 16914 |
| 33 | 4/ 4 | 16915 |
| 34 | 4/ 5 | 16916 |
| 35 | 4/ 7 | B974 INDB.10 |
| 36 | 4/ 8 | 16917 |
| 37 | 4/10 | 16910 |
| 38 | 4/11 | 19978 1/10 |
| 39 | 4/13 | 19979 1/10 |
| 40 | 4/14 | 16412 1/10 |
| 41 | 5/ 1 | EVALB |
| 42 | 5/ 2 | 16412MS 1/10 |
| 43 | 5/ 4 | 16412MSD1/10 |
| 44 | 5/ 5 | B973 INDA.10 |
| 45 | 5/ 7 | B974INDB.10 |
| 46 | 5/ 8 | MSTD3063 |
| 47 | 5/10 | MSTD3098 |
| 48 | 5/11 | MSTD3049 |
| 49 | 5/13 | MSTD3091 |

P. Chimyuoth

Kenneth Boyle

1/10 → 100mL of sample to 1 mL of hexane. K.B. 10-90

*wrong of column for ~~[illegible]~~ 70 D for G-BHC 2370.

WITNESSED AND UNDERSTOOD
SIGNED Carrie Crighton DATE 05/16/90 SIGNED P. Chimyuoth

100342

DATE 05-18-90 SUBJECT Injection Log C PROJECT NO.

ORIGINAL (Red)

Oper K. Croghan Date 05-18-90
Detec. ECD Temp. 300 °C
Column 6' x 2 mm Type 370SP2100
Carrier Gas Ar/CH4 at _____ ml/m
Oven 190 °C for 30 min to 150
for _____ min at _____ °C/min
Inst. ID C Baseline _____
Project ENCI BCOM #2660 Parameter OCP Pest
Pest Soil
VERSCAM #2565 8.4 Pest Soil

PAGE 2

| SAMP# | RACK/VIAL | TYPE SAMPLE ID |
|---|---|---|
| 1 | 1/ 1 | B787 EVAL.01 |
| 2 | 1/ 2 | B788 EVAL.02 |
| 3 | 1/ 4 | B789 EVAL.05 |
| 4 | 1/ 5 | B790 EVAL.10 |
| 5 | 1/ 7 | B973 INDA.10 |
| 6 | 1/ 8 | B974 INDB.10 |
| 7 | 1/10 | B767 TOXAPH |
| 8 | 1/11 | B699 AR1660 |
| 9 | 1/13 | B762 AR1242 |
| 10 | 1/14 | B948 AR1248 |
| 11 | 2/ 1 | B761 AR1254 |
| 12 | 2/ 2 | PBLK67 |
| 13 | 2/ 4 | 18771 |
| 14 | 2/ 5 | PBLK00 |
| 15 | 2/ 7 | 16910/20 |
| 16 | 2/ 8 | 16912/22 |
| 17 | 2/10 | EVALB |
| 18 | 2/11 | 16914/24 |
| 19 | 2/13 | 16915/25 |
| 20 | 2/14 | 16916/26 |
| 21 | 3/ 1 | 16917/27 |
| 22 | 3/ 2 | B973 INDA.10 |
| 23 | 3/ 4 | B974 INDB.10 |
| 24 | 3/ 5 | MSTD3091 |
| 25 | 3/ 7 | MSTD3063 |

Karen Croghan

Pest vials labeled as BUA (SAMPLE ID'S) CEB 5/22/90

WITNESSED AND UNDERSTOOD
SIGNED J. Huff DATE 05-18-90 SIGNED Karen Croghan

100343

DATE 05/07/90 SUBJECT Inj. log C PROJECT NO.

Oper. Judy Amador Date 5/7/90
Detec. ECD Temp. 300 °C
Column 6' x 2mm Type 3% SP2100
Carrier Gas Ar/CH4 at — ml/min
Oven 190 °C for 30 min to 150 °C
for ____ min at — °C/min
Inst. ID C Baseline ____
Project ENGI HARL 2534 Parameter Atten 2↑4
H2O / CLP

| SAMP# | RACK/VIAL | TYPE SAMPLE ID |
|---|---|---|
| 1 | 1/ 1 | B787 EVAL.01 |
| 2 | 1/ 2 | B788 EVAL.02 |
| 3 | 1/ 4 | B789 EVAL.05 |
| 4 | 1/ 5 | B790 EVAL.10 |
| 5 | 1/ 7 | B973 INDA.10 |
| 6 | 1/ 8 | B974 INDB.10 |
| 7 | 1/10 | B767 TOXAPH |
| 8 | 1/11 | B699 AR1660 |
| 9 | 1/13 | B762 AR1242 |
| 10 | 1/14 | B948 AR1248 |
| 11 | 2/ 1 | B761 AR1254 |
| 12 | 2/ 2 | PBLK31 |
| 13 | 2/ 4 | 16349 |
| 14 | 2/ 5 | 16350 |
| 15 | 2/ 7 | 16351 |
| 16 | 2/ 8 | 16352 |
| 17 | 2/10 | EVALB |
| 18 | 2/11 | 16353 |
| 19 | 2/13 | 16353MS |
| 20 | 2/14 | 16353MSD |
| 21 | 3/ 1 | 16354 |
| 22 | 3/ 2 | 16355 |
| 23 | 3/ 4 | B973 INDA.10 |
| 24 | 3/ 5 | 16356 |
| 25 | 3/ 7 | 16357 |
| 26 | 3/ 8 | EVALB |
| 27 | 3/10 | B973 INDA.10 |
| 28 | 3/11 | B974 INDB.10 |
| 29 | 3/13 | MSTD3038 |
| 30 | 3/14 | PBLK02 VRCDM |
| 31 | 4/ 1 | 16909 |
| 32 | 4/ 2 | 16911 |
| 33 | 4/ 4 | 16913 |
| 34 | 4/ 5 | EVALB |
| 35 | 4/ 7 | B973 INDA.10 |
| 36 | 4/ 8 | B974 INDB.10 |
| 37 | 4/10 | MSTD3065 |

Judy Amador

WITNESSED AND UNDERSTOOD

SIGNED P. Chinyavong DATE 05/09/90 SIGNED Judy Amador

SIGNED DATE DATE 5-8-90

100344

DATE 05/19/90 SUBJECT Injection log A PROJECT NO. ORIGINAL (Red)

Oper. Cynthia Lowery Date 05/19/90
Detec. ECD Temp. 300 °C
Column 6x4mm Type SP22S0124d
Carrier Gas N2 at _____ ml/min
Oven 205 °C for 30 min to 150 °C
for _____ min at _____ °C/min
Inst. ID A Baseline _____
Project Ergoblom and Versedm Parameter _____

Changed Septum + Parcel CL 05/19/90

Cynthia Lowery

| SAMP# | RACK/VIAL | TYPE SAMPLE ID |
|---|---|---|
| 1 | 1/ 1 | B787 EVAL.01 |
| 2 | 1/ 2 | B788 EVAL.02 |
| 3 | 1/ 4 | B789 EVAL.05 |
| 4 | 1/ 5 | B790 EVAL.10 |
| 5 | 1/ 7 | B973 INDA.10 |
| 6 | 1/ 8 | B974 INDB.10 |
| 7 | 1/10 | B767 TOXAPH |
| 8 | 1/11 | B699 AR1660 |
| 9 | 1/13 | B762 AR1242 |
| 10 | 1/14 | B948 AR1248 |
| 11 | 2/ 1 | B761 AR1254 |
| 12 | 2/ 2 | PBLK00 |
| 13 | 2/ 4 | 16910/20 |
| 14 | 2/ 5 | 16914/24 |
| 15 | 2/ 7 | 16915/25 |
| 16 | 2/ 8 | 16916/26 |
| 17 | 2/10 | EVALB |
| 18 | 2/11 | 16917/27 |
| 19 | 2/13 | PBLK67 |
| 20 | 2/14 | 18771 |
| 21 | 3/ 1 | B973 INDA.10 |
| 22 | 3/ 2 | B974 INDB.10 |
| 23 | 3/ 4 | MSTD3091 |
| 24 | 3/ 5 | MSTD3063 |

SAMPLE IDs DONE AS BNA, PEST RECABLED. CEB 5/21/90

modified sample table, to analyze Versedm first. #2562 KC

WITNESSED AND UNDERSTOOD

SIGNED Karen B Croghan DATE 05/21/90 SIGNED Cynthia Lowery

100345

SINGLE CHANNEL METHOD: CLP-2A 20:53 15 MAY 90

SECTION 1: BASIC
PAGE 1
ANALYSIS PARAMETERS
CHANNEL: 2
CALCULATION: ES
AREA/HT: A
STOP TIME: 30.00
NUMB EXPECTED PKS: 100
EQUILIBRATION TIME: 8
UNRETAINED PK TIME: 0.00
UNIDENT PK FACTOR: 1.000000
SLICE WIDTH: 10

PAGE 2
SAMPLE PARAMETERS
RUN TYPE: A
SAMPLE ID: B974 INDB.10
DIVISOR: 1.000000
AMT STD: 1.000000
MLTPLR: 10000.00

PAGE 3
REPORT INSTRUCTIONS
WHERE TO REPORT: L
COPIES: 1
TITLE: CLP PESTICIDES
FORMAT: E
DECIMAL PLACE: 0
RESULT UNITS: AREA
REPORT UNIDENT PKS: Y
REPORT INSTRUMENT CONDITIONS: N

PAGE 4
PLOT INSTRUCTIONS
PLOT: N
ZERO OFFSET: 5
ANNOTATION
RETENTION TIME: Y
PLOT CONTROL: N
TIME TICKS: N
TIME EVENTS: N
PK START/END: N

PAGE 5
CHART SPEED
PAGES OR CM/MIN: C
INIT VALUE: 0.5

PAGE 6
PLOT ATTEN
INIT PLOT ATTEN: 4

SECTION 2: TIME EVENTS
PAGE 1

| LINE# | TIME | EVENT | VALUE |
|---|---|---|---|
| 1 | 0.00 | PR | 700 |
| 2 | 0.00 | SN | 2 |
| 3 | 0.00 | T% | 5.0 |
| 4 | 0.00 | WI | 4 |
| 5 | 0.00 | II | 1.00 |

SECTION 3: PEAK TABLE
PAGE 1
STD PK#: 0
RELATIVE RETEN PK#: 0
RESOLUTION PK#: 0
RESOLUTION MINIMUM: 0.0

C
INST NO. 9 2.0 ul
3% SP2100
DATE ___/___/___
SAMPLE
methods
TIME

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100346

FACT%: 5.0
IDENTIFICATION TIME WINDOWS +/-
REF
%: 10
MIN: 0.00
NON REF
%: 5
MIN: 0.00

PAGE 2

| PK# | TIME | NAME | FACTOR | AMOUNT | REF | GR# | MUST LO | MUST HI |
|---|---|---|---|---|---|---|---|---|
| 1 | 1.83 | A-BHC | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 2 | 1.96 | B-BHC | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 3 | 2.16 | G-BHC | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 4 | 2.22 | D-BHC | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 5 | 3.50 | HEPTACHLOR | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 6 | 4.34 | ALDRIN | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 7 | 5.31 | HEPT EPOX | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 8 | 6.09 | G-CHLORDAN | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 9 | 6.63 | A-ENDOSULF | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 10 | 6.76 | A-CHLORDAN | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 11 | 7.77 | DDE/DIELD. | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 12 | 8.68 | ENDRIN | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 13 | 8.89 | B-ENDOSULF | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 14 | 9.79 | DDD | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 15 | 9.84 | ENDRIN ALD | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 16 | 11.45 | ESS | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 17 | 12.86 | DDT | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 18 | 14.73 | END KETONE | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 19 | 19.29 | METHOXYCHL | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 20 | 26.53 | DBC | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |

SECTION 4: GC INSTRUMENT CONTROL
PAGE 1
COL TEMP
ISO/INIT COL TEMP: 190
INIT HOLD TIME: 30.00

PAGE 2
DETECTORS
DET A TYPE: ECD
DET B TYPE:

| LN# | TIME | SIDE | ATTN | RANGE | ZERO |
|---|---|---|---|---|---|
| 1 | 0.00 | A | 4 | 10 | Y |
| 2 | 0.00 | B | | | Y |

PAGE 3
TEMP/FLOW
INJ A TEMP: 245
INJ B TEMP: 245
ION TEMP: 300
TCD TEMP:
TCD FIL TEMP:
AUX TEMP:
COL A FLOW:
COL B FLOW:

C
INST NO. 9 2.0 ul
3% SP2100
DATE___/___/___ TIME___
SAMPLE
method

PAGE 4

SECTION 7: POST RUN
PAGE 1
FILE NAME:
SAVE INSTRUCTIONS
TYPE:
WHERE TO SAVE: M
TRANSMIT/REPLOT INSTRUCTIONS
TRANSMIT RAW DATA: N
REPLOT WITH BASELINES: Y
RAW DATA LOCATION: U
TRANSMIT REPORT: N

PAGE 2
METHOD LINKING INSTRUCTIONS
METHOD:
LINK CALC RESULTS: N
PROGRAM EXECUTION
PROGRAM:
PARAMETERS:

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RESERVE PRINTER: N

ORIGINAL (Red)

SECTION 9: SAMPLE LIST+A/S CONTROL
PAGE 1
AUTOSAMPLER CONTROL
INJECT/CALIBRATION: 1
INJECT/ANALYSIS: 1
SAMP VOLUME: 1
VISTA AUTOSAMPLER ONLY
A/S MODE: MR
PURGE PULSES: 2
INJECT TIME: 0.03

PAGE 2

| SAMP# | RACK/VIAL | TYPE | SAMPLE ID | DIVISOR | AMT STD | MLTPLR |
|---|---|---|---|---|---|---|
| 1 | 1/ 1 | | B787 EVAL.01 | | | |
| 2 | 1/ 2 | | B788 EVAL.02 | | | |
| 3 | 1/ 4 | | B789 EVAL.05 | | | |
| 4 | 1/ 5 | | B790 EVAL.10 | | | |
| 5 | 1/ 7 | | B973 INDA.10 | | | |
| 6 | 1/ 8 | | B974 INDB.10 | | | |
| 7 | 1/10 | | B767 TOXAPH | | | |
| 8 | 1/11 | | B699 AR1660 | | | |
| 9 | 1/13 | | B762 AR1242 | | | |
| 10 | 1/14 | | B948 AR1248 | | | |
| 11 | 2/ 1 | | B761 AR1254 | | | |
| 12 | 2/ 2 | | PBLK61 | | | |
| 13 | 2/ 4 | | 16918 | | | |
| 14 | 2/ 5 | | PBLK77 | | | |
| 15 | 2/ 7 | | 19978 - | | | |
| 16 | 2/ 8 | | 19979 - | | | |
| 17 | 2/10 | | EVALB | | | |
| 18 | 2/11 | | RB7966 | | | |
| 19 | 2/13 | | 16412 - | | | |
| 20 | 2/14 | | 16412MS - | | | |
| 21 | 3/ 1 | | 16412MSD - | | | |
| 22 | 3/ 2 | | 16413 | | | |
| 23 | 3/ 4 | | B973 INDA.10 - 1.6BAC 2370 | | | |
| 24 | 3/ 5 | | ~~16414~~ IND B.10 | | | |
| 25 | 3/ 7 | | 16424 | | | |
| 26 | 3/ 8 | | RB8067 | | | |
| 27 | 3/10 | | 18771 | | | |
| 28 | 3/11 | | GPCBLK | | | |
| 29 | 3/13 | | EVALB | | | |
| 30 | 3/14 | | RB8000 | | | |
| 31 | 4/ 1 | | 16912 | | | |
| 32 | 4/ 2 | | 16914 | | | |
| 33 | 4/ 4 | | 16915 | | | |
| 34 | 4/ 5 | | 16916 | | | |
| 35 | 4/ 7 | | B974 INDB.10 | | | |
| 36 | 4/ 8 | | 16917 | | | |
| 37 | 4/10 | | 16910 | | | |
| 38 | 4/11 | | EVALB | | | |
| 39 | 4/13 | | B973 INDA.10 | | | |
| 40 | 4/14 | | B974 INDB.10 | | | |
| 41 | 5/ 1 | | MSTD3063 | | | |
| 42 | 5/ 2 | | MSTD3098 | | | |
| 43 | 5/ 4 | | MSTD3049 | | | |
| 44 | 5/ 5 | | MSTD3091 | | | |

INST NO. C 2.0 ul
3% SP2100
DATE ___/___/___ TIME ___
SAMPLE
method

SECTION 10: NOTE PAD
PAGE 1

| LINE# | VALUE |
|---|---|
| 1 | INSTRUMENT ID: C |
| 2 | COLUMN: 3% SP2100 |
| 3 | INJECTION VOLUME 2 UL |
| 4 | ORT= OUTSIDE RETENTION TIME WINDOW |
| 5 | VERSCDM B.4 CTL2565 CLP PEST WATER |
| 6 | GSXMD CTL 2694 PESTICIDE WATER |
| 7 | VERSCDM CTL 2536 PEST SOILS |
| 8 | ENGIBLOM CTL 2660 PEST SOILS |

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SINGLE CHANNEL METHOD: CLP-3A 22:21 7 MAY 90

SECTION 1: BASIC
PAGE 1
ANALYSIS PARAMETERS
CHANNEL: 3
CALCULATION: ES
AREA/HT: A
STOP TIME: 30.00
NUMB EXPECTED PKS: 300
EQUILIBRATION TIME: 10
UNRETAINED PK TIME: 0.00
UNIDENT PK FACTOR: 1.000000
SLICE WIDTH: 10

PAGE 2
SAMPLE PARAMETERS
RUN TYPE: A
SAMPLE ID: 16378
DIVISOR: 1.000000
AMT STD: 1.000000
MLTPLR: 10000.00

PAGE 3
REPORT INSTRUCTIONS
WHERE TO REPORT: L
COPIES: 1
TITLE: CLP PESTICIDES
FORMAT: E
DECIMAL PLACE: 0
RESULT UNITS: AREA
REPORT UNIDENT PKS: Y
REPORT INSTRUMENT CONDITIONS: N

PAGE 4
PLOT INSTRUCTIONS
PLOT: N
ZERO OFFSET: 10
ANNOTATION
RETENTION TIME: Y
PLOT CONTROL: N
TIME TICKS: N
TIME EVENTS: N
PK START/END: Y

PAGE 5
CHART SPEED
PAGES OR CM/MIN: C
INIT VALUE: 0.5

PAGE 6
PLOT ATTEN
INIT PLOT ATTEN: 16

SECTION 2: TIME EVENTS
PAGE 1

| LINE# | TIME | EVENT | VALUE |
|---|---|---|---|
| 1 | 0.00 | PR | 500 |
| 2 | 0.00 | SN | 2 |
| 3 | 0.00 | T% | 5.0 |
| 4 | 0.00 | WI | 4 |
| 5 | 0.00 | II | 1.00 |

SECTION 3: PEAK TABLE
PAGE 1
STD PK#: 0
RELATIVE RETEN PK#: 0
RESOLUTION PK#: 0

INST ID NO 0 2.0 ul
1.5% SP2250 / 1.95% SP2401
DATE 05 / 07 / 90 TIME
SAMPLE Method 100349

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SECTION 2: TIME EVENTS
PAGE 1

| LINE# | TIME | EVENT | VALUE |
|---|---|---|---|
| 1 | 0.00 | PR | 500 |
| 2 | 0.00 | SN | 2 |
| 3 | 0.00 | T% | 5.0 |
| 4 | 0.00 | WI | 4 |
| 5 | 0.00 | II | 1.00 |

INST ID NO 0 2.0 ul
1.5% SP2250 / 1.95% SP2401
DATE 05 / 07 / 90 TIME
SAMPLE Method

SECTION 3: PEAK TABLE
PAGE 1
STD PK#: 0
RELATIVE RETEN PK#: 0
RESOLUTION PK#: 0
RESOLUTION MINIMUM: 0.0
FACT%: 0.0
IDENTIFICATION TIME WINDOWS +/-
REF
%: 10
MIN: 0.00
NON REF
%: 3
MIN: 0.00

PAGE 2

| PK# | TIME | NAME | FACTOR | AMOUNT | REF GR# | MUST LO | MUST HI |
|---|---|---|---|---|---|---|---|
| 1 | 2.08 | A-BHC | 1.000000 | 1.000000 | | 0.000000 | 0.000000 |
| 2 | 2.58 | G-BHC | 1.000000 | 1.000000 | | 0.000000 | 0.000000 |
| 3 | 2.89 | B-BHC | 1.000000 | 1.000000 | | 0.000000 | 0.000000 |
| 4 | 3.12 | HEPTACHLOR | 1.000000 | 1.000000 | | 0.000000 | 0.000000 |
| 5 | 3.36 | D-BHC | 1.000000 | 1.000000 | | 0.000000 | 0.000000 |
| 6 | 3.74 | ALDRIN | 1.000000 | 1.000000 | | 0.000000 | 0.000000 |
| 7 | 5.44 | HEPT EPOX | 1.000000 | 1.000000 | | 0.000000 | 0.000000 |
| 8 | 6.02 | G-CHLORDAN | 1.000000 | 1.000000 | | 0.000000 | 0.000000 |
| 9 | 6.54 | A-CHLORDAN | 1.000000 | 1.000000 | | 0.000000 | 0.000000 |
| 10 | 6.79 | A-ENDOSULF | 1.000000 | 1.000000 | | 0.000000 | 0.000000 |
| 11 | 7.68 | DDE | 1.000000 | 1.000000 | | 0.000000 | 0.000000 |
| 12 | 8.22 | DIELDRIN | 1.000000 | 1.000000 | | 0.000000 | 0.000000 |
| 13 | 9.96 | ENDRIN | 1.000000 | 1.000000 | | 0.000000 | 0.000000 |
| 14 | 11.52 | DDD | 1.000000 | 1.000000 | | 0.000000 | 0.000000 |
| 15 | 11.95 | B-ENDOSULF | 1.000000 | 1.000000 | | 0.000000 | 0.000000 |
| 16 | 13.82 | DDT | 1.000000 | 1.000000 | | 0.000000 | 0.000000 |
| 17 | 15.27 | ENDRIN ALD | 1.000000 | 1.000000 | | 0.000000 | 0.000000 |
| 18 | 18.25 | ESS | 1.000000 | 1.000000 | | 0.000000 | 0.000000 |
| 19 | 23.34 | DBC | 1.000000 | 1.000000 | | 0.000000 | 0.000000 |
| 20 | 25.06 | ENDRIN KET | 1.000000 | 1.000000 | | 0.000000 | 0.000000 |
| 21 | 25.71 | METHOXYCHL | 1.000000 | 1.000000 | | 0.000000 | 0.000000 |

SECTION 4: GC INSTRUMENT CONTROL
PAGE 1
COL TEMP
ISO/INIT COL TEMP: 205
INIT HOLD TIME: 30.00

PAGE 2
DETECTORS
DET A TYPE: ECD
DET B TYPE:

| LN# | TIME | SIDE | ATTN | RANGE | ZERO |
|---|---|---|---|---|---|
| 1 | 0.00 | A | 32 | 10 | Y |
| 2 | 0.00 | B | | | Y |

PAGE 3
TEMP/FLOW
INJ A TEMP: 240
INJ B TEMP: 0
ION TEMP: 300
TCD TEMP:
TCD FIL TEMP:
AUX TEMP:
COL A FLOW:
COL B FLOW:



calit p/n 03 906362-00
varian

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 | 3.74 | ALDRIN | 1.000000 | 1.000000 | 0.000000 | 0.000000 |
| 7 | 5.44 | HEPT EPOX | 1.000000 | 1.000000 | 0.000000 | 0.000000 |
| 8 | 6.02 | G-CHLORDAN | 1.000000 | 1.000000 | 0.000000 | 0.000000 |
| 9 | 6.54 | A-CHLORDAN | 1.000000 | 1.000000 | 0.000000 | 0.000000 |
| 10 | 6.79 | A-ENDOSULF | 1.000000 | 1.000000 | 0.000000 | 0.000000 |
| 11 | 7.68 | DDE | 1.000000 | 1.000000 | 0.000000 | 0.000000 |
| 12 | 8.22 | DIELDRIN | 1.000000 | 1.000000 | 0.000000 | 0.000000 |
| 13 | 9.96 | ENDRIN | 1.000000 | 1.000000 | 0.000000 | 0.000000 |
| 14 | 11.52 | DDD | 1.000000 | 1.000000 | 0.000000 | 0.000000 |
| 15 | 11.95 | B-ENDOSULF | 1.000000 | 1.000000 | 0.000000 | 0.000000 |
| 16 | 13.82 | DDT | 1.000000 | 1.000000 | 0.000000 | 0.000000 |
| 17 | 15.27 | ENDRIN ALD | 1.000000 | 1.000000 | 0.000000 | 0.000000 |
| 18 | 18.25 | ESS | 1.000000 | 1.000000 | 0.000000 | 0.000000 |
| 19 | 23.34 | DBC | 1.000000 | 1.000000 | 0.000000 | 0.000000 |
| 20 | 25.06 | ENDRIN KET | 1.000000 | 1.000000 | 0.000000 | 0.000000 |
| 21 | 25.71 | METHOXYCHL | 1.000000 | 1.000000 | 0.000000 | 0.000000 |

SECTION 4: GC INSTRUMENT CONTROL
PAGE 1
COL TEMP
ISO/INIT COL TEMP: 205
INIT HOLD TIME: 30.00

PAGE 2
DETECTORS
DET A TYPE: ECD
DET B TYPE:

| LN# | TIME | SIDE | ATTN | RANGE | ZERO |
|---|---|---|---|---|---|
| 1 | 0.00 | A | 32 | 10 | Y |
| 2 | 0.00 | B | | | Y |

PAGE 3
TEMP/FLOW
INJ A TEMP: 240
INJ B TEMP: 0
ION TEMP: 300
TCD TEMP:
TCD FIL TEMP:
AUX TEMP:
COL A FLOW:
COL B FLOW:

PAGE 4

SECTION 7: POST RUN
PAGE 1
FILE NAME:
SAVE INSTRUCTIONS
TYPE:
WHERE TO SAVE: M
TRANSMIT/REPLOT INSTRUCTIONS
TRANSMIT RAW DATA: N
REPLOT WITH BASELINES: Y
RAW DATA LOCATION: L
TRANSMIT REPORT: N

PAGE 2
METHOD LINKING INSTRUCTIONS
METHOD:
LINK CALC RESULTS: N
PROGRAM EXECUTION
PROGRAM:
PARAMETERS:
RESERVE PRINTER: N

INST ID NO ~~0~~ A 2.0 ul
1.5% SP2250 / 1.95% SP2401
DATE 05/07/90 TIME
SAMPLE Method

SECTION 9: SAMPLE LIST+A/S CONTROL
PAGE 1
AUTOSAMPLER CONTROL
INJECT/CALIBRATION: 1
INJECT/ANALYSIS: 1
SAMP VOLUME: 2
VISTA AUTOSAMPLER ONLY
A/S MODE: MR
PURGE PULSES: 2
INJECT TIME: 0.03

| SAMP# | RACK/VIAL | TYPE | SAMPLE ID | DIVISOR | AMT STD | MLTPLR |
|---|---|---|---|---|---|---|
| 1 | 1/ 1 | | B787 EVAL.01 | | | |
| 2 | 1/ 2 | | B788 EVAL.02 | | | |
| 3 | 1/ 4 | | B789 EVAL.05 | | | |
| 4 | 1/ 5 | | B790 EVAL.10 | | | |
| 5 | 1/ 7 | | B973 INDA.10 | | | |
| 6 | 1/ 8 | | B974 INDB.10 | | | |
| 7 | 1/10 | | B767 TOXAPH | | | |
| 8 | 1/11 | | B699 AR1660 | | | |
| 9 | 1/13 | | B762 AR1242 | | | |
| 10 | 1/14 | | B696 AR1248 | | | |
| 11 | 2/ 1 | | B761 AR1254 | | | |
| 12 | 2/ 2 | | PBLK57 | | | |
| 13 | 2/ 4 | | 16131 | | | |
| 14 | 2/ 5 | | 16131MS | | | |
| 15 | 2/ 7 | | 16131MSD | | | |
| 16 | 2/ 8 | | PBLK58 | | | |
| 17 | 2/10 | | B788 EVALB | | | |
| 18 | 2/11 | | 16378 | | | |
| 19 | 2/13 | | 16378MS | | | |
| 20 | 2/14 | | 16378MSD | | | |
| 21 | 3/ 1 | | 16379 | | | |
| 22 | 3/ 2 | | 16378 1/10 | | | |
| 23 | 3/ 4 | | B973 INDA.10 | | | |
| 24 | 3/ 5 | | PBLK89 | | | |
| 25 | 3/ 7 | | 16638 | | | |
| 26 | 3/ 8 | | 16639 | | | |
| 27 | 3/10 | | PBLK39 | | | |
| 28 | 3/11 | | 16607 | | | |
| 29 | 3/13 | | B788 EVALB | | | |
| 30 | 3/14 | | 16608 | | | |
| 31 | 4/ 1 | | 16609 | | | |
| 32 | 4/ 2 | | 16610 | | | |
| 33 | 4/ 4 | | 16611 | | | |
| 34 | 4/ 5 | | PBLK02 | | | |
| 35 | 4/ 7 | | B974 INDB.10 | | | |
| 36 | 4/ 8 | | 16909 | | | |
| 37 | 4/10 | | 16911 | | | |
| 38 | 4/11 | | 16913 | | | |
| 39 | 4/13 | | MSTD3045 | | | |
| 40 | 4/14 | | MSTD3046 | | | |
| 41 | 5/ 1 | | B788 EVALB | | | |
| 42 | 5/ 2 | | MSTD3058 | | | |
| 43 | 5/ 4 | | 16378 RE | | | |
| 44 | 5/ 5 | | B973 INDA.10 | | | |
| 45 | 5/ 7 | | B974 INDB.10 | | | |
| 46 | 5/ 8 | | B935 AR1660 | | | |
| 47 | 5/10 | | PBLK85 | | | |
| 48 | 5/11 | | 14937 | | | |
| 49 | 5/13 | | PBLK77 | | | |
| 50 | 5/14 | | 14933 | | | |
| 51 | 6/ 1 | | 14933MS | | | |
| 52 | 6/ 2 | | 14933MSD | | | |
| 53 | 6/ 4 | | 14924 | | | |
| 54 | 6/ 5 | | PBLK54 | | | |
| 55 | 6/ 7 | | 14257 | | | |
| 56 | 6/ 8 | | 14257MS | | | |
| 57 | 6/10 | | 14257MSD | | | |
| 58 | 6/11 | | B935 AR1660 | | | |

ORIGINAL (Red)

INST ID NO A 2.0 ul
1.5% SP2250 / 1.95% SP2401
DATE 05/02/90 TIME
SAMPLE method

SECTION 10: NOTE PAD
PAGE 1

| LINE# | VALUE |
|---|---|
| 1 | COL: 1.5% SP2250/1.95% SP2401 |
| 2 | AMT INJ.2UL/INSTRUMENT LETTER A |
| 3 | ORT= OUTSIDE RETENTION TIME WINDOW |
| 4 | ENGIALBA CTL#'S 2521,2544 PEST SOILS |
| 5 | ENGIHARL CTL# 2534,2542 PEST SOILS & H2O'S |
| 6 | VERSCDM CTL# 2565 PEST SOIL |

ORIGINAL (Red)

SINGLE CHANNEL METHOD: CLP-2A 8:57 18 MAY 90

SECTION 1: BASIC
PAGE 1
ANALYSIS PARAMETERS
CHANNEL: 2
CALCULATION: ES
AREA/HT: A
STOP TIME: 30.00
NUMB EXPECTED PKS: 100
EQUILIBRATION TIME: 8
UNRETAINED PK TIME: 0.00
UNIDENT PK FACTOR: 1.000000
SLICE WIDTH: 10

PAGE 2
SAMPLE PARAMETERS
RUN TYPE: A
SAMPLE ID: B974 INDB.10
DIVISOR: 1.000000
AMT STD: 1.000000
MLTPLR: 10000.00

PAGE 3
REPORT INSTRUCTIONS
WHERE TO REPORT: L
COPIES: 1
TITLE: CLP PESTICIDES
FORMAT: E
DECIMAL PLACE: 0
RESULT UNITS: AREA
REPORT UNIDENT PKS: Y
REPORT INSTRUMENT CONDITIONS: N

PAGE 4
PLOT INSTRUCTIONS
PLOT: N
ZERO OFFSET: 5
ANNOTATION
RETENTION TIME: Y
PLOT CONTROL: N
TIME TICKS: N
TIME EVENTS: N
PK START/END: N

PAGE 5
CHART SPEED
PAGES OR CM/MIN: C
INIT VALUE: 0.5

PAGE 6
PLOT ATTEN
INIT PLOT ATTEN: 4

SECTION 2: TIME EVENTS
PAGE 1

| LINE# | TIME | EVENT | VALUE |
|---|---|---|---|
| 1 | 0.00 | PR | 700 |
| 2 | 0.00 | SN | 2 |
| 3 | 0.00 | T% | 5.0 |
| 4 | 0.00 | WI | 4 |
| 5 | 0.00 | II | 1.00 |

INST NO. 9 2.0 ul
3% SP2100
DATE___/___/___ TIME___
SAMPLE

varian /sunnyvale, calif. p/n 03-906362-01

SECTION 3: PEAK TABLE
PAGE 1
STD PK#: 0
RELATIVE RETEN PK#: 0
RESOLUTION PK#: 0
RESOLUTION MINIMUM: 0.0
FACT%: 5.0
IDENTIFICATION TIME WINDOWS +/-
REF
%: 10
MIN: 0.00
NON REF
%: 5
MIN: 0.00

PAGE 2

| PK# | TIME | NAME | FACTOR | AMOUNT | REF | GR# | MUST LO | MUST HI |
|---|---|---|---|---|---|---|---|---|
| 1 | 1.86 | A-BHC | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 2 | 1.99 | B-BHC | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 3 | 2.19 | G-BHC | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 4 | 2.26 | D-BHC | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 5 | 3.56 | HEPTACHLOR | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 6 | 4.41 | ALDRIN | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 7 | 5.40 | HEPT EPOX | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 8 | 6.20 | G-CHLORDAN | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 9 | 6.75 | A-ENDOSULF | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 10 | 6.88 | A-CHLORDAN | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 11 | 7.89 | DDE/DIELD. | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 12 | 8.82 | ENDRIN | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 13 | 9.03 | B-ENDOSULF | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 14 | 9.96 | DDD | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 15 | 9.97 | ENDRIN ALD | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 16 | 11.63 | ESS | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 17 | 13.10 | DDT | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 18 | 14.97 | END KETONE | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 19 | 19.62 | METHOXYCHL | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 20 | 26.99 | DBC | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |

SECTION 4: GC INSTRUMENT CONTROL
PAGE 1
COL TEMP
ISO/INIT COL TEMP: 190
INIT HOLD TIME: 30.00

PAGE 2
DETECTORS
DET A TYPE: ECD
DET B TYPE:

| LN# | TIME | SIDE | ATTN | RANGE | ZERO |
|---|---|---|---|---|---|
| 1 | 0.00 | A | 4 | 10 | Y |
| 2 | 0.00 | B | | | Y |

INST NO. 2.0 ul
3% SP2100
DATE / /
SAMPLE
TIME

PAGE 3
TEMP/FLOW
INJ A TEMP: 245
INJ B TEMP: 245
ION TEMP: 300
TCD TEMP:
TCD FIL TEMP:
AUX TEMP:
COL A FLOW:
COL B FLOW:

PAGE 4

SECTION 7: POST RUN
PAGE 1
FILE NAME:
SAVE INSTRUCTIONS
TYPE:
WHERE TO SAVE: M
TRANSMIT/REPLOT INSTRUCTIONS
TRANSMIT RAW DATA: N
REPLOT WITH BASELINES: Y
RAW DATA LOCATION: U
TRANSMIT REPORT: N

varian /sunnyvale, calif. p/n 03-906362-01

SECTION 9: SAMPLE LIST+A/S CONTROL
PAGE 1
AUTOSAMPLER CONTROL
INJECT/CALIBRATION: 1
INJECT/ANALYSIS: 1
SAMP VOLUME: 1
VISTA AUTOSAMPLER ONLY
A/S MODE: MR
PURGE PULSES: 2
INJECT TIME: 0.03

PAGE 2

| SAMP# | RACK/VIAL | TYPE | SAMPLE ID | DIVISOR | AMT STD | MLTPLR |
|---|---|---|---|---|---|---|
| 1 | 1/ 1 | | B787 EVAL.01 | | | |
| 2 | 1/ 2 | | B788 EVAL.02 | | | |
| 3 | 1/ 4 | | B789 EVAL.05 | | | |
| 4 | 1/ 5 | | B790 EVAL.10 | | | |
| 5 | 1/ 7 | | B973 INDA.10 | | | |
| 6 | 1/ 8 | | B974 INDB.10 | | | |
| 7 | 1/10 | | B767 TOXAPH | | | |
| 8 | 1/11 | | B699 AR1660 | | | |
| 9 | 1/13 | | B762 AR1242 | | | |
| 10 | 1/14 | | B948 AR1248 | | | |
| 11 | 2/ 1 | | B761 AR1254 | | | |
| 12 | 2/ 2 | | PBLK67 | | | |
| 13 | 2/ 4 | | 18771 | | | |
| 14 | 2/ 5 | | PBLK00 | | | |
| 15 | 2/ 7 | | 16910 | | | |
| 16 | 2/ 8 | | 16912 | | | |
| 17 | 2/10 | | EVALB | | | |
| 18 | 2/11 | | 16914 | | | |
| 19 | 2/13 | | 16915 | | | |
| 20 | 2/14 | | 16916 | | | |
| 21 | 3/ 1 | | 16917 | | | |
| 22 | 3/ 2 | | 16910 RE | | | |
| 23 | 3/ 4 | | B974 INDB.10 | | | |
| 24 | 3/ 5 | | B973 INDA.10 | | | |
| 25 | 3/ 7 | | MSTD3091 | | | |
| 26 | 3/ 8 | | MSTD3063 | | | |

INST NO. C 2.0 µl
3% SP2100
DATE ___/___/___ TIME ____
SAMPLE

SECTION 10: NOTE PAD
PAGE 1

| LINE# | VALUE |
|---|---|
| 1 | INSTRUMENT ID: C |
| 2 | COLUMN: 3% SP2100 |
| 3 | INJECTION VOLUME 2 UL |
| 4 | ORT= OUTSIDE RETENTION TIME WINDOW |
| 5 | ENGIBLOM B.2 CTL2660 CLP PEST SOIL |
| 6 | VERSCDM B.4 CTL2565 CLP PEST SOIL |

PAGES OR CM/MIN: C
INIT VALUE: 0.5

PAGE 6
PLOT ATTEN
INIT PLOT ATTEN: 4

SECTION 2: TIME EVENTS
PAGE 1

| LINE# | TIME | EVENT | VALUE |
|---|---|---|---|
| 1 | 0.00 | PR | 700 |
| 2 | 0.00 | SN | 2 |
| 3 | 0.00 | T% | 5.0 |
| 4 | 0.00 | WI | 4 |
| 5 | 0.00 | II | 1.00 |

SECTION 3: PEAK TABLE
PAGE 1
STD PK#: 0
RELATIVE RETEN PK#: 0
RESOLUTION PK#: 0
RESOLUTION MINIMUM: 0.0

100355

varian /sunnyvale, calif. p/n 03-906362-01

SINGLE CHANNEL METHOD: CLP-2A 9:46 9 MAY 90

SECTION 1: BASIC
PAGE 1
ANALYSIS PARAMETERS
CHANNEL: 2
CALCULATION: ES
AREA/HT: A
STOP TIME: 30.00
NUMB EXPECTED PKS: 100
EQUILIBRATION TIME: 8
UNRETAINED PK TIME: 0.00
UNIDENT PK FACTOR: 1.000000
SLICE WIDTH: 10

PAGE 2
SAMPLE PARAMETERS
RUN TYPE: A
SAMPLE ID: MSTD303B
DIVISOR: 1.000000
AMT STD: 1.000000
MLTPLR: 10000.00

PAGE 3
REPORT INSTRUCTIONS
WHERE TO REPORT: L
COPIES: 1
TITLE: CLP PESTICIDES
FORMAT: E
DECIMAL PLACE: 0
RESULT UNITS: AREA
REPORT UNIDENT PKS: Y
REPORT INSTRUMENT CONDITIONS: N

PAGE 4
PLOT INSTRUCTIONS
PLOT: N
ZERO OFFSET: 5
ANNOTATION
RETENTION TIME: Y
PLOT CONTROL: N
TIME TICKS: N
TIME EVENTS: N
PK START/END: N

PAGE 5
CHART SPEED
PAGES OR CM/MIN: C
INIT VALUE: 0.5

PAGE 6
PLOT ATTEN
INIT PLOT ATTEN: 4

INST ID NO. 4 2.0 µl
3% SP2100
DATE 05-09-90 TIME
SAMPLE

SECTION 2: TIME EVENTS
PAGE 1

| LINE# | TIME | EVENT | VALUE |
|---|---|---|---|
| 1 | 0.00 | PR | 700 |
| 2 | 0.00 | SN | 2 |
| 3 | 0.00 | T% | 5.0 |
| 4 | 0.00 | WI | 4 |
| 5 | 0.00 | II | 1.00 |

SECTION 3: PEAK TABLE
PAGE 1
STD PK#: 0
RELATIVE RETEN PK#: 0
RESOLUTION PK#: 0
RESOLUTION MINIMUM: 0.0
FACT%: 5.0
IDENTIFICATION TIME WINDOWS +/-
REF
%: 10
MIN: 0.00
NON REF
%: 5
MIN: 0.00

PAGE 2

| PK# | TIME | NAME | FACTOR | AMOUNT REF | GR# | MUST LO | MUST HI |
|---|---|---|---|---|---|---|---|
| 1 | 1.83 | A-BHC | 1.000000 | 1.000000 | | 0.000000 | 0.000000 |
| 2 | 1.96 | B-BHC | 1.000000 | 1.000000 | | 0.000000 | 0.000000 |
| 3 | 2.16 | G-BHC | 1.000000 | 1.000000 | | 0.000000 | 0.000000 |
| 4 | 2.22 | D-BHC | 1.000000 | 1.000000 | | 0.000000 | 0.000000 |
| 5 | 3.50 | HEPTACHLOR | 1.000000 | 1.000000 | | 0.000000 | 0.000000 |
| 6 | 4.34 | ALDRIN | 1.000000 | 1.000000 | | 0.000000 | 0.000000 |
| 7 | 5.31 | HEPT EPOX | 1.000000 | 1.000000 | | 0.000000 | 0.000000 |
| 8 | 6.09 | G-CHLORDAN | 1.000000 | 1.000000 | | 0.000000 | 0.000000 |
| 9 | 6.63 | A-ENDOSULF | 1.000000 | 1.000000 | | 0.000000 | 0.000000 |
| 10 | 6.76 | A-CHLORDAN | 1.000000 | 1.000000 | | 0.000000 | 0.000000 |
| 11 | 7.77 | DDE/DIELD. | 1.000000 | 1.000000 | | 0.000000 | 0.000000 |
| 12 | 8.68 | ENDRIN | 1.000000 | 1.000000 | | 0.000000 | 0.000000 |
| 13 | 8.89 | B-ENDOSULF | 1.000000 | 1.000000 | | 0.000000 | 0.000000 |
| 14 | 9.79 | DDD | 1.000000 | 1.000000 | | 0.000000 | 0.000000 |
| 15 | 9.84 | ENDRIN ALD | 1.000000 | 1.000000 | | 0.000000 | 0.000000 |
| 16 | 11.45 | ESS | 1.000000 | 1.000000 | | 0.000000 | 0.000000 |
| 17 | 12.86 | DDT | 1.000000 | 1.000000 | | 0.000000 | 0.000000 |
| 18 | 14.73 | END KETONE | 1.000000 | 1.000000 | | 0.000000 | 0.000000 |
| 19 | 19.29 | METHOXYCHL | 1.000000 | 1.000000 | | 0.000000 | 0.000000 |
| 20 | 26.53 | DBC | 1.000000 | 1.000000 | | 0.000000 | 0.000000 |

100356

SECTION 4: GC INSTRUMENT CONTROL
PAGE 1
COL TEMP
ISO/INIT COL TEMP: 190
INIT HOLD TIME: 30.00

PAGE 2
DETECTORS
DET A TYPE: ECD
DET B TYPE:

| LN# | TIME | SIDE | ATTN | RANGE | ZERO |
|---|---|---|---|---|---|
| 1 | 0.00 | A | 4 | 10 | Y |
| 2 | 0.00 | B | | | Y |

PAGE 3
TEMP/FLOW
INJ A TEMP: 245
INJ B TEMP: 245
ION TEMP: 300
TCD TEMP:
TCD FIL TEMP:
AUX TEMP:
COL A FLOW:
COL B FLOW:

PAGE 4

SECTION 7: POST RUN
PAGE 1
FILE NAME:
SAVE INSTRUCTIONS
TYPE:
WHERE TO SAVE: M
TRANSMIT/REPLOT INSTRUCTIONS
TRANSMIT RAW DATA: N
REPLOT WITH BASELINES: Y
RAW DATA LOCATION: U
TRANSMIT REPORT: N

PAGE 2
METHOD LINKING INSTRUCTIONS
METHOD:
LINK CALC RESULTS: N
PROGRAM EXECUTION
PROGRAM:
PARAMETERS:
RESERVE PRINTER: N

INST ID NO. 4 C 2.0 µl
3% SP2100
DATE 05 09 90 TIME —
SAMPLE
Method

SECTION 9: SAMPLE LIST+A/S CONTROL
PAGE 1
AUTOSAMPLER CONTROL
INJECT/CALIBRATION: 1
INJECT/ANALYSIS: 1
SAMP VOLUME: 1
VISTA AUTOSAMPLER ONLY
A/S MODE: MR
PURGE PULSES: 2
INJECT TIME: 0.03

PAGE 2

| SAMP# | RACK/VIAL | TYPE | SAMPLE ID | DIVISOR | AMT STD | MLTPLR |
|---|---|---|---|---|---|---|
| 1 | 1/ 1 | | B787 EVAL.01 | | | |
| 2 | 1/ 2 | | B788 EVAL.02 | | | |
| 3 | 1/ 4 | | B789 EVAL.05 | | | |
| 4 | 1/ 5 | | B790 EVAL.10 | | | |
| 5 | 1/ 7 | | B973 INDA.10 | | | |
| 6 | 1/ 8 | | B974 INDB.10 | | | |
| 7 | 1/10 | | B767 TOXAPH | | | |
| 8 | 1/11 | | B699 AR1660 | | | |
| 9 | 1/13 | | B762 AR1242 | | | |
| 10 | 1/14 | | B948 AR1248 | | | |
| 11 | 2/ 1 | | B761 AR1254 | | | |
| 12 | 2/ 2 | | PBLK31 | | | |
| 13 | 2/ 4 | | 16349 | | | |
| 14 | 2/ 5 | | 16350 | | | |
| 15 | 2/ 7 | | 16351 | | | |
| 16 | 2/ 8 | | 16352 | | | |
| 17 | 2/10 | | EVALB | | | |
| 18 | 2/11 | | 16353 | | | |
| 19 | 2/13 | | 16353MS | | | |
| 20 | 2/14 | | 16353MSD | | | |
| 21 | 3/ 1 | | 16354 | | | |
| 22 | 3/ 2 | | 16355 | | | |
| 23 | 3/ 4 | | B973 INDA.10 | | | |
| 24 | 3/ 5 | | 16356 | | | |
| 25 | 3/ 7 | | 16357 | | | |
| 26 | 3/ 8 | | EVALB | | | |
| 27 | 3/10 | | B973 INDA.10 | | | |
| 28 | 3/11 | | B974 INDB.10 | | | |
| 29 | 3/13 | | MSTD3038 | | | |
| 30 | 3/14 | | PBLK02 VRCDM | | | |
| 31 | 4/ 1 | | 16909 | | | |
| 32 | 4/ 2 | | 16911 | | | |
| 33 | 4/ 4 | | 16913 | | | |
| 34 | 4/ 5 | | EVALB | | | |
| 35 | 4/ 7 | | B973 INDA.10 | | | |
| 36 | 4/ 8 | | B974 INDB.10 | | | |
| 37 | 4/10 | | MSTD3065 | | | |

SECTION 10: NOTE PAD
PAGE 1

| LINE# | VALUE |
|---|---|
| 1 | INSTRUMENT ID: C |
| 2 | COLUMN: 3% SP2100 |
| 3 | INJECTION VOLUME 2 UL |
| 4 | ORT= OUTSIDE RETENTION TIME WINDOW |
| 5 | ENGIHARL 2534 WATER PEST/CLP |

100357

vale, calif. p/n 03906362-01

SINGLE CHANNEL METHOD: CLP-3A 14:28 21 MAY 90

SECTION 1: BASIC
PAGE 1
ANALYSIS PARAMETERS
CHANNEL: 3
CALCULATION: ES
AREA/HT: A
STOP TIME: 30.00
NUMB EXPECTED PKS: 300
EQUILIBRATION TIME: 10
UNRETAINED PK TIME: 0.00
UNIDENT PK FACTOR: 1.000000
SLICE WIDTH: 10

PAGE 2
SAMPLE PARAMETERS
RUN TYPE: A
SAMPLE ID: B761 AR1254
DIVISOR: 1.000000
AMT STD: 1.000000
MLTPLR: 10000.00

PAGE 3
REPORT INSTRUCTIONS
WHERE TO REPORT: L
COPIES: 1
TITLE: CLP PESTICIDES
FORMAT: E
DECIMAL PLACE: 0
RESULT UNITS: AREA
REPORT UNIDENT PKS: Y
REPORT INSTRUMENT CONDITIONS: N

PAGE 4
PLOT INSTRUCTIONS
PLOT: N
ZERO OFFSET: 10
ANNOTATION
RETENTION TIME: Y
PLOT CONTROL: N
TIME TICKS: N
TIME EVENTS: N
PK START/END: Y

PAGE 5
CHART SPEED
PAGES OR CM/MIN: C
INIT VALUE: 0.5

PAGE 6
PLOT ATTEN
INIT PLOT ATTEN: 16

SECTION 2: TIME EVENTS
PAGE 1

| LINE# | TIME | EVENT | VALUE |
|---|---|---|---|
| 1 | 0.00 | PR | 500 |
| 2 | 0.00 | SN | 2 |
| 3 | 0.00 | T% | 5.0 |
| 4 | 0.00 | WI | 4 |
| 5 | 0.00 | II | 1.00 |

A

INST ID NO 0 2.0 ul
1.5% SP2250 / 1.95% SP2401
DATE___/___/___ TIME___
SAMPLE

100358

ORIGINAL (Red)

varian /sunnyvale,calif.p/n 03-906362-01

SECTION 3: PEAK TABLE
PAGE 1
STD PK#: 0
RELATIVE RETEN PK#: 0
RESOLUTION PK#: 0
RESOLUTION MINIMUM: 0.0
FACT%: 0.0
IDENTIFICATION TIME WINDOWS +/-
REF
%: 10
MIN: 0.00
NON REF
%: 3
MIN: 0.00

PAGE 2

| PK# | TIME | NAME | FACTOR | AMOUNT | REF | GR# | MUST LO | MUST HI |
|---|---|---|---|---|---|---|---|---|
| 1 | 2.08 | A-BHC | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 2 | 2.58 | G-BHC | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 3 | 2.89 | B-BHC | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 4 | 3.12 | HEPTACHLOR | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 5 | 3.36 | D-BHC | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 6 | 3.74 | ALDRIN | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 7 | 5.44 | HEPT EPOX | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 8 | 6.02 | G-CHLORDAN | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 9 | 6.54 | A-CHLORDAN | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 10 | 6.79 | A-ENDOSULF | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 11 | 7.68 | DDE | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 12 | 8.22 | DIELDRIN | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 13 | 9.96 | ENDRIN | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 14 | 11.52 | DDD | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 15 | 11.95 | B-ENDOSULF | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 16 | 13.82 | DDT | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 17 | 15.27 | ENDRIN ALD | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 18 | 18.25 | ESS | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 19 | 23.34 | DBC | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 20 | 25.06 | ENDRIN KET | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |
| 21 | 25.71 | METHOXYCHL | 1.000000 | 1.000000 | | | 0.000000 | 0.000000 |

SECTION 4: GC INSTRUMENT CONTROL
PAGE 1
COL TEMP
ISO/INIT COL TEMP: 205
INIT HOLD TIME: 30.00

**INST ID NO Ø 2.0 ul**
**1.5% SP2250 / 1.95% SP2401**
**DATE____/____/____ TIME____**
**SAMPLE**

PAGE 2
DETECTORS
DET A TYPE: ECD
DET B TYPE:

| LN# | TIME | SIDE | ATTN | RANGE | ZERO |
|---|---|---|---|---|---|
| 1 | 0.00 | A | 32 | 10 | Y |
| 2 | 0.00 | B | | | Y |

PAGE 3
TEMP/FLOW
INJ A TEMP: 240
INJ B TEMP: 0
ION TEMP: 300
TCD TEMP:
TCD FIL TEMP:
AUX TEMP:
COL A FLOW:
COL B FLOW:

PAGE 4

100359

SECTION 7: POST RUN
PAGE 1
FILE NAME:
SAVE INSTRUCTIONS
TYPE:
WHERE TO SAVE: M
TRANSMIT/REPLOT INSTRUCTIONS
TRANSMIT RAW DATA: N
REPLOT WITH BASELINES: Y
RAW DATA LOCATION: L
TRANSMIT REPORT: N

PAGE 2
METHOD LINKING INSTRUCTIONS
METHOD:
LINK CALC RESULTS: N
PROGRAM EXECUTION
PROGRAM:
PARAMETERS:
RESERVE PRINTER: N

SECTION 9: SAMPLE LIST+A/S CONTROL
PAGE 1
AUTOSAMPLER CONTROL
INJECT/CALIBRATION: 1
INJECT/ANALYSIS: 1
SAMP VOLUME: 2
VISTA AUTOSAMPLER ONLY
A/S MODE: MR
PURGE PULSES: 2
INJECT TIME: 0.03

INST ID NO 0 2.0 ul
1.5% SP2250 / 1.95% SP2401
DATE___/___/___ TIME___
SAMPLE

PAGE 2

| SAMP# | RACK/VIAL | TYPE | SAMPLE ID | DIVISOR | AMT STD | MLTPLR |
|---|---|---|---|---|---|---|
| 1 | 1/ 1 | | B787 EVAL.01 | | | |
| 2 | 1/ 2 | | B788 EVAL.02 | | | |
| 3 | 1/ 4 | | B789 EVAL.05 | | | |
| 4 | 1/ 5 | | B790 EVAL.10 | | | |
| 5 | 1/ 7 | | B973 INDA.10 | | | |
| 6 | 1/ 8 | | B974 INDB.10 | | | |
| 7 | 1/10 | | B767 TOXAPH | | | |
| 8 | 1/11 | | B699 AR1660 | | | |
| 9 | 1/13 | | B762 AR1242 | | | |
| 10 | 1/14 | | B948 AR1248 | | | |
| 11 | 2/ 1 | | B761 AR1254 | | | |
| 12 | 2/ 2 | | PBLK00 | | | |
| 13 | 2/ 4 | | 16910 | | | |
| 14 | 2/ 5 | | 16914 | | | |
| 15 | 2/ 7 | | 16915 | | | |
| 16 | 2/ 8 | | 16916 | | | |
| 17 | 2/10 | | EVALB | | | |
| 18 | 2/11 | | 16917 | | | |
| 19 | 2/13 | | PBLK67 | | | |
| 20 | 2/14 | | 18771 | | | |
| 21 | 3/ 1 | | B973 INDA.10 | | | |
| 22 | 3/ 2 | | B974 INDB.10 | | | |
| 23 | 3/ 4 | | MSTD3091 | | | |
| 24 | 3/ 5 | | MSTD3063 | | | |

SECTION 10: NOTE PAD
PAGE 1

| LINE# | VALUE |
|---|---|
| 1 | COL: 1.5% SP2250/1.95% SP2401 |
| 2 | AMT INJ.2UL/INSTRUMENT LETTER A |
| 3 | ORT= OUTSIDE RETENTION TIME WINDOW |
| 4 | ENGIBLOM CTL 2660 PEST SOILS |
| 5 | VERSCDM CTL 2562 PEST SOIL |

varian /sunnyvale, calif. p/n 03-906362-01

ORIGINAL (Red)

PESTICIDE SAMPLE TABLE

EPA SAMPLE NUMBER: MSTD3063

Lab Name: VERSAR, INC. Case No.: ENGIRLOM

Lab Code: VERSAR Contract:

Instrument ID: A SAS No.:

Run Date: 05/21/90 GC Column ID: SP2250/SP2401

MATRIX IS: SOIL

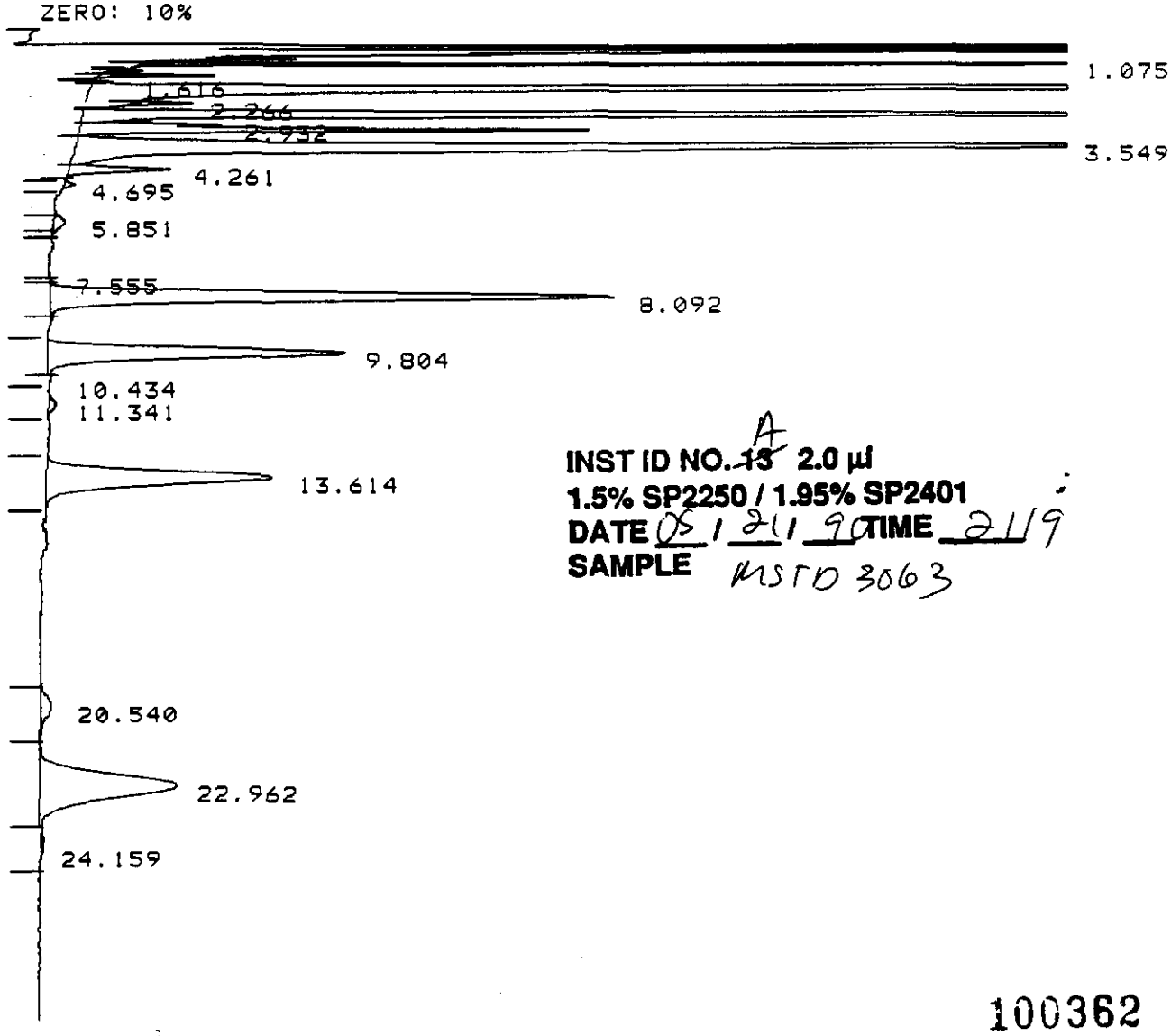
Inject Vol 2.00 (uL) Window Width: 1.0%

| COMPOUND | RT WINDOW FROM | RT WINDOW TO | SAMPLE RT | SAMPLE AREA | / CALIB FACTOR = | NG INJECTED | / INJECT VOLUME (uL) | = INJECT CONC (ug/ml) | X DF | = SAMPLE CONC (ug/kg) | DETECTION LIMIT (ug/kg) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 2.02 | 2.06 | 0.00 | 0 | 1187595 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 8.01 | |
| beta-BHC | 2.81 | 2.86 | 0.00 | 0 | 334580 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 8.01 | |
| delta-BHC | 3.27 | 3.33 | 0.00 | 0 | 1062370 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 8.01 | |
| gamma-BHC | 2.51 | 2.56 | *2.60 | 193712 | 891410 | 0.217 | 2.00 | 0.109 | 1601.33 | 173.99 | 8.01 | HIT 27.0% |
| Heptachlor | 3.03 | 3.09 | 3.07 | 51797 | 1008380 | 0.051 | 2.00 | 0.026 | 1601.33 | 41.13 | 8.01 | HIT 6.5% |
| Aldrin | 3.64 | 3.71 | 0.00 | 0 | 876660 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 8.01 | |
| Hept. epoxide | 5.28 | 5.39 | 0.00 | 0 | 822865 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 8.01 | |
| Endosulfan I | 6.59 | 6.72 | 0.00 | 0 | 770190 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 8.01 | |
| Dieldrin | 7.99 | 8.15 | 8.09 | 143465 | 859525 | 0.167 | 2.00 | 0.083 | 1601.33 | 133.64 | 16.01 | HIT 8.3% |
| 4,4'-DDE | 7.47 | 7.62 | 0.00 | 0 | 810045 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 16.01 | |
| Endrin | 9.67 | 9.87 | 9.80 | 94533 | 548840 | 0.172 | 2.00 | 0.086 | 1601.33 | 137.91 | 16.01 | HIT 8.6% |
| Endosulfan II | 11.60 | 11.84 | 0.00 | 0 | 743615 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 16.01 | |
| 4,4'-DDD | 11.13 | 11.42 | 11.34 | 2375 | 642785 | 0.004 | 2.00 | 0.002 | 1601.33 | 2.96 | 16.01 | EDL |
| Endo.sulfate | 17.70 | 18.06 | 0.00 | 0 | 566175 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 16.01 | |
| 4,4'DDT | 13.42 | 13.70 | 13.61 | 96500 | 519900 | 0.186 | 2.00 | 0.093 | 1601.33 | 148.61 | 16.01 | HIT 9.3% |
| Methoxychlor | 25.03 | 25.53 | 0.00 | 0 | 291850 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 80.07 | |
| Endrin ketone | 24.31 | 24.81 | 0.00 | 0 | 737430 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 16.01 | |
| a. Chlordane | 6.36 | 6.49 | 0.00 | 0 | 858420 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 16.01 | |
| g. Chlordane | 5.85 | 5.97 | 0.00 | 0 | 877705 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 16.01 | |
| Toxaphene | 11.81 | 12.05 | 0.00 | 0 | 96724 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 160.13 | |
| Aroclor-1016 | 2.98 | 3.04 | 0.00 | 0 | 58715 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 80.07 | |
| Aroclor-1221 | 1.70 | 1.74 | 0.00 | 0 | 22629 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 80.07 | |
| Aroclor-1232 | 2.76 | 2.82 | 0.00 | 0 | 22291 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 80.07 | |
| Aroclor-1242 | 3.63 | 3.77 | 0.00 | 0 | 41491 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 80.07 | |
| Aroclor-1248 | 5.11 | 5.21 | 0.00 | 0 | 97589 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 80.07 | |
| Aroclor-1254 | 10.40 | 10.62 | 0.00 | 0 | 184691 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 160.13 | |
| Aroclor-1260 | 13.25 | 13.51 | 0.00 | 0 | 297054 | 0.000 | 2.00 | 0.000 | 1601.33 | 0.00 | 160.13 | |
| DBC | 22.66 | 23.12 | 22.96 | 100691 | 779330 | 0.129 | 2.00 | 0.065 | 1601.33 | 103.45 | 16.01 | HIT |

cf 05/21/90

100361

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10%




INST ID NO. ~~13~~ A 2.0 µl
1.5% SP2250 / 1.95% SP2401
DATE 05 / 21 / 90 TIME 2119
SAMPLE MSTD 3063

100362

varian /sunnyvale, calif. p/n 03-906362-01

TITLE: CLP PESTICIDES 21:19 21 MAY 90

CHANNEL NO: 3 SAMPLE: MSTD3063 METHOD: CLP-3A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 58958 | 1.075 | | 58958 | BB | | 2.35 |
| 2 | | 1308 | 1.280 | | 1308 | BV | | 2.40 |
| 3 | | 5628 | 1.420 | | 5628 | VB | | 3.15 |
| 4 | | 836 | 1.616 | | 836 | BV | ? | 3.80 |
| 5 | | 1219060 | 1.786 | | 1219060 | VV | | 4.55 |
| 6 | | 4568 | 2.266 | | 4568 | T | ? | 6.95 |
| 7 | G-BHC | 193712 | 2.620 | 0.040 | 193712 | VV | ? | 6.90 |
| 8 | B-BHC | 11937 | 2.932 | 0.042 | 11937 | VV | ? | 6.40 |
| 9 | HEPTACHLOR | 51797 | 3.073 | -0.047 | 51797 | VV | | 6.50 |
| 10 | | 258859 | 3.549 | | 258859 | VV | | 8.00 |
| 11 | | 14706 | 4.261 | | 14706 | VB | | 8.05 |
| 12 | | 1326 | 4.695 | | 1326 | BB | | 7.75 |
| 13 | G-CHLORDAN | 3304 | 5.851 | -0.169 | 3304 | BV | ? | 16.60 |
| 14 | DIELDRIN | 143465 | 8.092 | -0.128 | 143465 | VB | ? | 16.90 |
| 15 | ENDRIN | 94533 | 9.804 | -0.156 | 94533 | BV | | 20.20 |
| 16 | DDD | 2375 | 11.341 | -0.179 | 2375 | T | | 23.60 |
| 17 | DDT | 96500 | 13.614 | -0.206 | 96500 | BB | | 27.50 |
| 18 | | 7180 | 20.540 | | 7180 | BV | | 41.20 |
| 19 | DBC | 100691 | 22.962 | -0.378 | 100691 | VV | | 46.80 |
| 20 | | 1664 | 24.159 | | 1664 | T | ? | 113.50 |
| TOTALS: | | 2272410 | | -1.181 | 2272410 | | | |

DETECTED PKS: 23 REJECTED PKS: 3

DIVISOR: 1.00000 MULTIPLIER: 10000.0

N E: 29.1 OFFSET: -25

RACK: 3 VIAL: 5 INJ: 1

NOTES:
COL: 1.5% SP2250/1.95% SP2401
AMT INJ.2UL/INSTRUMENT LETTER A
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIBLOM CTL 2660 PEST SOILS
VERSCDM CTL 2562 PEST SOIL

varian

100363

D

PESTICIDE SAMPLE TABLE

EPA SAMPLE NUMBER

MSTD3065

Lab Name: VERSAR, INC. Case No.: R3-7

Lab Code: VERSAR Contract:

Instrument ID: C SAS No.:

Run Date: 05/09/90 GC Column ID: 3% SP2100

MATRIX IS: SOIL

Inject Vol 2.00 (uL) Window Width: 1.0%

| COMPOUND | RT WINDOW FROM | RT WINDOW TO | SAMPLE RT | SAMPLE AREA | / CALIB FACTOR = | NG INJECTED | / INJECT VOLUME (uL) | = INJECT CONC (ug/ml) | X DF | = SAMPLE CONC (ug/kg) | DETECTION LIMIT (ug/kg) | | c/o Rec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 1.83 | 1.86 | 0.00 | 0 | 169700 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 60.05 | | |
| beta-BHC | 1.95 | 1.99 | 0.00 | 0 | 71885 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 60.05 | | |
| delta-BHC | 2.21 | 2.26 | 0.00 | 0 | 157285 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 60.05 | | |
| gamma-BHC | 2.15 | 2.19 | 2.17 | 44275 | 161580 | 0.274 | 2.00 | 0.137 | 12010.00 | 1645.45 | 60.05 | HIT | 82 |
| Heptachlor | 3.48 | 3.55 | 3.52 | 41108 | 159080 | 0.258 | 2.00 | 0.129 | 12010.00 | 1551.76 | 60.05 | HIT | 78 |
| Aldrin | 4.31 | 4.40 | 4.36 | 42215 | 180455 | 0.234 | 2.00 | 0.117 | 12010.00 | 1404.79 | 60.05 | HIT | 70 |
| Hept. epoxide | 5.27 | 5.38 | 0.00 | 0 | 178090 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 60.05 | | |
| Endosulfan I | 6.58 | 6.72 | 0.00 | 0 | 170465 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 60.05 | | |
| Dieldrin | 7.71 | 7.87 | *7.80 | 103651 | 186530 | 0.556 | 2.00 | 0.278 | 12010.00 | 3336.86 | 120.10 | HIT | 67 |
| 4,4'-DDE | 7.69 | 7.85 | *7.80 | 103651 | 157740 | 0.657 | 2.00 | 0.329 | 12010.00 | 3945.89 | 120.10 | HIT | |
| Endrin | 8.61 | 8.78 | 8.70 | 77288 | 125095 | 0.618 | 2.00 | 0.309 | 12010.00 | 3710.10 | 120.10 | HIT | 74 |
| Endosulfan II | 8.81 | 8.99 | 0.00 | 0 | 166375 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 120.10 | | |
| 4,4'-DDD | 9.71 | 9.90 | 9.82 | 10005 | 126510 | 0.079 | 2.00 | 0.040 | 12010.00 | 474.90 | 120.10 | HIT | |
| Endo.sulfate | 11.34 | 11.57 | 11.40 | 1764 | 109675 | 0.016 | 2.00 | 0.008 | 12010.00 | 96.58 | 120.10 | BDL | |
| 4,4'DDT | 12.75 | 13.01 | 12.90 | 75974 | 120595 | 0.630 | 2.00 | 0.315 | 12010.00 | 3783.11 | 120.10 | HIT | 76 |
| Methoxychlor | 19.11 | 19.50 | 19.24 | 922 | 51455 | 0.018 | 2.00 | 0.009 | 12010.00 | 107.60 | 600.50 | BDL | |
| Endrin ketone | 14.59 | 14.89 | 14.76 | 3681 | 165390 | 0.022 | 2.00 | 0.011 | 12010.00 | 133.65 | 120.10 | HIT | |
| a. Chlordane | 6.71 | 6.84 | 0.00 | 0 | 164465 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 120.10 | | |
| g. Chlordane | 6.04 | 6.17 | 0.00 | 0 | 169450 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 120.10 | | |
| Toxaphene | 10.88 | 11.10 | 0.00 | 0 | 75165 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 1201.00 | | |
| Aroclor-1016 | 2.59 | 2.65 | 0.00 | 0 | 24479 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 600.50 | | |
| Aroclor-1221 | 1.49 | 1.52 | 0.00 | 0 | 5837 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 600.50 | | |
| Aroclor-1232 | 1.84 | 1.88 | 0.00 | 0 | 6800 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 600.50 | | |
| Aroclor-1242 | 3.84 | 3.92 | 0.00 | 0 | 15170 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 600.50 | | |
| Aroclor-1248 | 4.53 | 4.63 | 0.00 | 0 | 40008 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 600.50 | | |
| Aroclor-1254 | 7.50 | 7.66 | 0.00 | 0 | 62448 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 1201.00 | | |
| Aroclor-1260 | 13.19 | 13.45 | 0.00 | 0 | 82974 | 0.000 | 2.00 | 0.000 | 12010.00 | 0.00 | 1201.00 | | |
| DBC | 26.29 | 26.82 | 26.57 | 22236 | 168665 | 0.132 | 2.00 | 0.066 | 12010.00 | 791.67 | 120.10 | HIT | 66 |

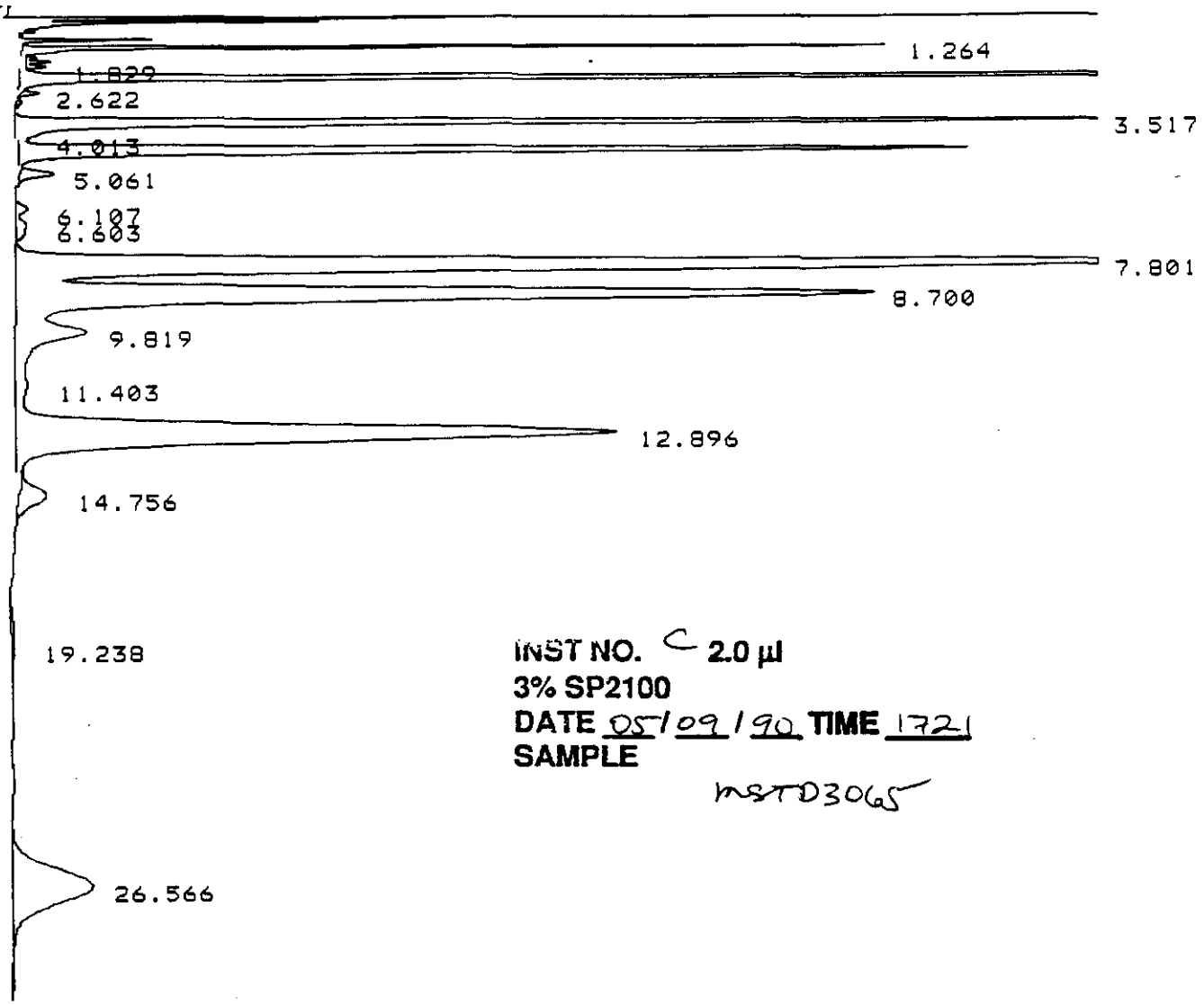
D

QA 5/9/90

100364

09-May-90

CHART SPEED 0.5 CM/MIN
ATTEN: 4 ZERO: 5%




INST NO. C 2.0 µl
3% SP2100
DATE 05/09/90 TIME 1721
SAMPLE
MSTD3065

varian /sunnyvale, calif. p/n 03-906362-00

TITLE: CLP PESTICIDES 17:21 9 MAY 90

CH IEL NO: 2 SAMPLE: MSTD3065 METHOD: CLP-2A

| PEAK NO | PEAK NAME | RESULT AREA | TIME (MIN) | TIME OFFSET | AREA COUNTS | SEP CODE | | W1/2 (SEC) |
|---|---|---|---|---|---|---|---|---|
| 1 | | 13027 | 1.264 | | 13027 | BV | | 3.55 |
| 2 | G-BHC | 44275 | 2.174 | 0.014 | 44275 | VV | | 5.75 |
| 3 | HEPTACHLOR | 41108 | 3.517 | 0.017 | 41108 | BV | ? | 9.45 |
| 4 | ALDRIN | 42215 | 4.362 | 0.022 | 42215 | VV | ? | 11.65 |
| 5 | HEPT EPOX ORT | 1552 | 5.061 | -0.249 | 1552 | T | ? | 13.65 |
| 6 | DDE/DIELD. | 103651 | 7.801 | 0.031 | 103651 | VV | | 20.40 |
| 7 | ENDRIN | 77288 | 8.700 | 0.020 | 77288 | VV | | 22.95 |
| DDD 8 | ~~ENDRIN ALDEHYDE~~ | 10005 | 9.819 | -0.021 | 10005 | VV | ? | 32.75 |
| 9 | ESS | 1764 | 11.403 | -0.047 | 1764 | VV | ? | 22.40 |
| 10 | DDT | 75974 | 12.896 | 0.036 | 75974 | VV | ? | 29.40 |
| 11 | END KETONE | 3681 | 14.756 | 0.026 | 3681 | T | ? | 36.05 |
| 12 | METHOXYCHL | 922 | 19.238 | -0.052 | 922 | BB | ? | 49.10 |
| 13 | DBC | 22236 | 26.566 | 0.036 | 22236 | BB | ? | 130.55 |
| TOTALS: | | 437698 | | -0.167 | 437698 | | | |

DETECTED PKS: 22 REJECTED PKS: 9

DIVISOR: 1.00000 MULTIPLIER: 10000.0

NOISE: 4.9 OFFSET: -7

RACK: 4 VIAL: 10 INJ: 1

NOTES:
STRUMENT ID: C
LUMN: 3% SP2100
INJECTION VOLUME 2 UL
ORT= OUTSIDE RETENTION TIME WINDOW
ENGIHARL 2534 WATER PEST/CLP

varian / sunnyvale, calif.

100366

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 3
Curtis Bldg., 6th & Walnut Sts.
Philadelphia, Pennsylvania 19106

# CHAIN OF CUSTODY RECORD

PROJ. NO.: R3-7
PROJECT NAME: R3-7
SAMPLERS: (Signature) Sharon E. Schaeffer

| STA. NO. | DATE | TIME | COMP. | GRAB | STATION LOCATION | NO. OF CONTAINERS | VOA | BNA | PCB/Pest. | TAL Metals | Cyanide | | REMARKS Tag #s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 ~~11~~ | 4/19/90 | 1030 | | X | Location 4 | 6 | 2 | 1 | 1 | 1 | 1 | | 3-1068410, 11, 12, 13, 14, 15 |
| 9 | 4/19/90 | 1045 | | X | Location 9 | 6 | 2 | 1 | 1 | 1 | 1 | | 3-1068416, 17, 18, 19, 20, 21 |
| 8 | 4/19/90 | 1110 | | X | Location 8 | 6 | 2 | 1 | 1 | 1 | 1 | | 3-1068422, 23, 24, 25, 26, 27 |
| 10 | 4/19/90 | 1135 | | X | Location 10 | 6 | 2 | 1 | 1 | 1 | 1 | | 3-1068428, 29, 30, 31, 32, 33 |
| 12 | 4/19/90 | 1220 | | X | Location 12 | 6 | 2 | 1 | 1 | 1 | 1 | | 3-1068434, 35, 36, 37, 38, 39 |
| 13 | 4/19/90 | 1300 | | X | Location 13 | 6 | 2 | 1 | 1 | 1 | 1 | | 3-1068440, 41, 42, 43, 44, 45 |
| 14 | 4/19/90 | 1400 | | X | Location 14 | 6 | 2 | 1 | 1 | 1 | 1 | | 3-1068446, 47, 48, 49, 50, 51 |
| 15 | 4/19/90 | 1445 | | X | Location 15 | 6 | 2 | 1 | 1 | 1 | 1 | | 3-1068452, 53, 54, 55, 56, 57 |
| 11 | 4/19/90 | 0940 | | X | Location 11 | 6 | 2 | 1 | 1 | 1 | 1 | | 3-1068460, 61, 62, 63, 64, 65 |

| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
|---|---|---|---|---|---|
| Sharon E. Schaeffer | 4/20/90 1200 | | | | |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
| | | | | | |
| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) | Date / Time | Remarks | |
| | | Donald A Sealy | 4/23/90 13:30 | Shipped via Federal Express Airbill No. 4026936000 | |

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

2515

REGION 3
Curtis Bldg., 6th & Walnut Sts.
Philadelphia, Pennsylvania 19106

# CHAIN OF CUSTODY RECORD

PROJ. NO.: R3-7
PROJECT NAME: R3-7
SAMPLERS: (Signature) Aaron P. Frantz

| STA. NO. | DATE | TIME | COMP. | GRAB | STATION LOCATION | NO. OF CONTAINERS | VOA | BNA/PCB/Pest. | TAL Metals | Cyanide | TAL Metals (Filtered) | | REMARKS Tag #'s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GW-1 | 4/20/90 | 1115 | | X | Location GW-1 | 6 | 2 | 1 | 1 | 1 | 1 | | ~~3-1068458, 59~~ 4/20/90 3-1068470, 71, 72, 73, 74, 75 |
| TB-2 | 4/20/90 | 1000 | | X | Location TB-2 | 2 | 2 | | | | | | 3-1068458, 59 |

| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
|---|---|---|---|---|---|
| Sharon E. Schaeffer | 4/20/90 1200 | | | | |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
| | | | | | |
| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) | Date / Time | Remarks | |
| | | Donald A. Sulz | 4/23/90 13:30 | Shipped via Federal Express Airbill No. 4026936060 | |

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files