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|               |                                                                                                                                                                               |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AP42 Section: | 4.4                                                                                                                                                                           |
|               |                                                                                                                                                                               |
| Related:      | 2                                                                                                                                                                             |
| Title:        | <b>Baseline Characterization Of Emissions<br/>From Fiberglass Boat Manufacturing<br/>For National Marine Manufacturers<br/>Association</b><br><br><b>FIELD DATA June 1997</b> |

**BASELINE CHARACTERIZATION OF EMISSIONS  
FROM FIBERGLASS BOAT MANUFACTURING  
FOR  
NATIONAL MARINE MANUFACTURERS ASSOCIATION  
  
FIELD DATA**



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June 1997

**April 1, 1997**

**Styrene Recovery Check**

# Data Recording Sheet for Pure Styrene Evaporation and Scale Accuracy Tests

Date: 4/1/97 Time: 14:54 Recorded by:

## Pure Styrene Evaporation Test (weekly)

Clock Time Scale Reading (g)  
(total wt. of apparatus)

|         |                   |
|---------|-------------------|
|         | <del>11554</del>  |
|         | <del>797154</del> |
| 2:54 pm | 11554g            |
| 3:23 pm | 10355g            |
|         |                   |
|         |                   |
|         |                   |
|         |                   |
|         |                   |
|         |                   |
|         |                   |

1 gal styrene + tub + rack + towel + beaker

> 1199 g evaporated for Radian

## Scale Accuracy Check (weekly)

Initial wt. of material container on Scale 1 (g):

Final wt. of material container on Scale 1 (g):

Wt. of material reduced on Scale 1 (g):

Initial wt. of an empty container on Scale 2 (g):

Final wt. of the holding container on Scale 2 (g):

Wt. of material gained on Scale 2 (g):

Percent difference of wt. gain on Scale 2/wt. loss on Scale 1:

Duration of the delivery test (sec):

No. of pump stroke during the delivery test:

Figure 4-1. Data recording sheet for the test protocol evaluation study. (cont.)



H<sub>2</sub> = 25 psi      Att = 0  
Air = 33      Range = 3  
N<sub>2</sub> = 50 ↓

182

Run 2 = 204 ppm Styrene

~~2.7"~~ up integration, styrene ~ 2.7" based on signal

Run 3 = 204 styrene

4/1/97

Run 4 = 204 Styrene from cylinder

130° Isothermal

Column = TCEP, packed 1/8" x 6'

Pool = 50 psi } GC

Range = 3 }

Att = 4 ~~low~~ 6 @ integrator

\* Analyses performed w/ elevated zero, good only for R.T.

Run 5 = 4

Run 6 = 204 Styrene, Att = 6

RT = 3.969      Area = 9582138

Run 7 = 6      RT = 3.995      Area = 10033552

Run 8 = 7      RT = 3.984      Area = 9676602

Runs 6 → 8      Area = 9764097      RF =  $2.09 \times 10^{-5}$

Run 9 = 122 ppm Styrene (= 108)

Run 10 = 122

Run 11 = 59.2

Run 12 = 11

Run 13 = Towel test - 01 @ 1457

Run 14 = Towel test - 02 @

15      03

16      04

17      05

18      06

19      07

20      08

21      09

Run 22      Post test 204 sty

~~Power supply = 24V~~

Run 23 = 20.4 Hz

24 = 20.4 Hz

25 = 59.2

26 = 59.2

27 = 59.2

!"#\$%&'()\*+,-./0123456789:;<=>?@ABCDEFGHIJKLMN0PQRSTUVWXYZ[\]^\_`abcede  
fghijklmnopqrstuvwxyz{|}~#;:<=>?@ABCDEFGHIJKLMN0PQRSTUVWXYZ[\]^\_`abcede

---

Performing self test; unit will  
accept commands when KEYBD led is ON

Model 3396B Rev B.02.00 2/14/91  
Z80/HOST/INET/PP Rev = I/8/L/I w/ GC\_02B

\* LIST: LIST  
PEAK CAPACITY: 1244

ZERO = 0, 0.388  
ATT 2^ = 0  
CHT SP = 1.0  
AR REJ = 0  
THRSR = 0  
PK WD = 0.04

\* LIST: LIST  
PEAK CAPACITY: 1244

ZERO = 0, 0.346  
ATT 2^ = 0  
CHT SP = 1.0  
AR REJ = 0  
THRSR = 0  
PK WD = 0.04

\*0

INVALID SYSTEM COMMAND

\* RUN # 1 JAN 1, 1901 00:00:55  
START  
STOP

RUN# 1 JAN 1, 1901 00:00:55  
NO RUN PEAKS STORED

\*DATE03/31/97  
MAR 31, 1997 00:01:18

\*TIME15:34:00  
MAR 31, 1997 15:34:00

\* RUN # 2 MAR 31, 1997 15:47:51  
START

0.24000

2.769

STOP

RUN# 2 MAR 31, 1997 15:47:51

AREAX

| RT    | AREA     | TYPE | WIDTH | AREAX    |
|-------|----------|------|-------|----------|
| .400  | 874324   | BU   | .284  | 5.73626  |
| .495  | 487961   | UP   | .147  | 3.20141  |
| .623  | 59950    | PV   | .020  | .39332   |
| .682  | 228142   | UB   | .094  | 1.49679  |
| 2.769 | 13591680 | PB   | .116  | 89.17222 |

TOTAL AREA=1.5242E+07  
MUL FACTOR=1.0000E+00

\* ATT 2^ 4 @  
\* LIST: LIST  
PEAK CAPACITY: 1244

ZERO = 0, 1.030  
ATT 2^ = 4  
CHT SP = 1.0  
AR REJ = 0  
THRSR = 0  
PK WD = 0.04

\* RUN # 3 MAR 31, 1997 15:54:49  
START

0.623 0.693

2.775

6.455

7.165  
7.255  
7.295  
7.325

9.075

10.662  
10.978  
11.478  
11.725  
12.055  
12.323

14.159

15.361  
15.859

16.400  
16.800  
17.000

17.945  
18.240  
18.800  
19.000

20.000

22.000  
22.500  
23.000

24.222  
24.435

STOP

RUN# 3 MAR 31, 1997 15:54:49

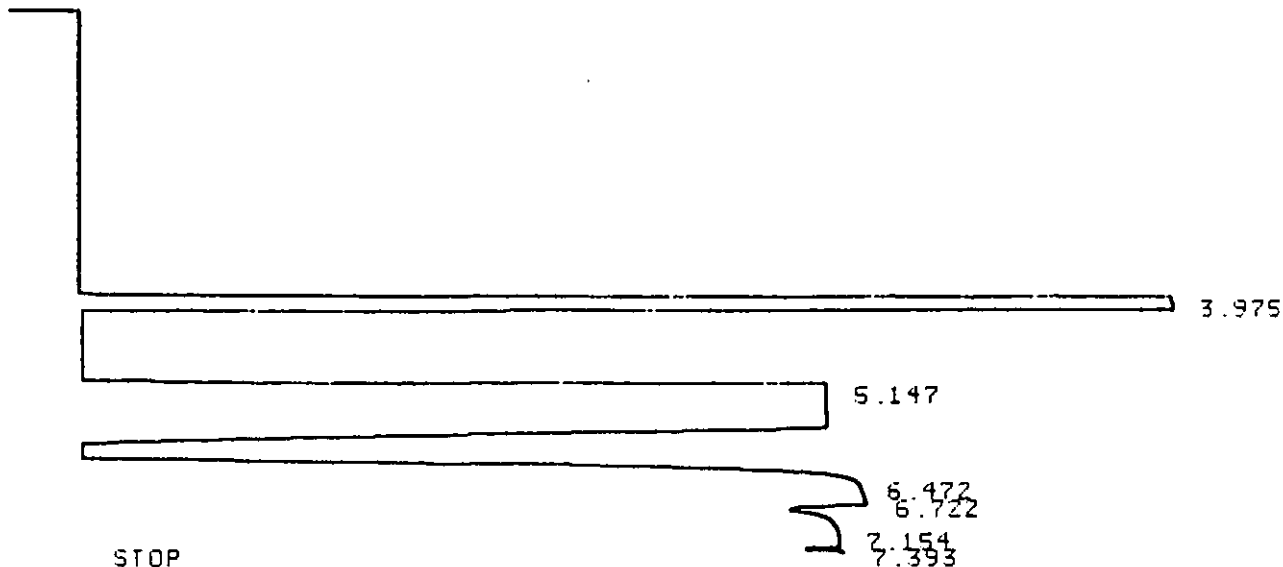
AREA#

| RT    | AREA     | TYPE | WIDTH | AREA#    |
|-------|----------|------|-------|----------|
| .413  | 776251   | BU   | .253  | 5.49606  |
| .502  | 571188   | UP   | .173  | 4.04416  |
| .629  | 46847    | PU   | .018  | .33169   |
| .693  | 185375   | UB   | .088  | 1.31250  |
| 2.775 | 12513488 | PB   | .117  | 88.59882 |
| 6.455 | 396      | UU   | .035  | .00280   |
| 7.165 | 379      | UU   | .032  | .00268   |
| 7.255 | 1373     | UU   | .050  | .00972   |
| 7.296 | 621      | UU   | .022  | .00490   |

|        |       |    |      |        |
|--------|-------|----|------|--------|
| 7.695  | 1155  | UU | .079 | .00818 |
| 8.098  | 197   | PU | .023 | .00139 |
| 8.177  | 299   | UU | .029 | .00212 |
| 8.275  | 245   | PU | .030 | .00173 |
| 8.321  | 232 I | UB | .025 | .00164 |
| 9.075  | 499   | PU | .055 | .00353 |
| 10.662 | 528   | PU | .051 | .00374 |
| 10.978 | 485   | UU | .044 | .00343 |
| 11.478 | 629   | UU | .058 | .00445 |
| 11.725 | 283   | PU | .041 | .00200 |
| 12.055 | 807   | UU | .066 | .00571 |
| 12.323 | 1601  | UU | .083 | .01134 |
| 14.159 | 144   | PU | .024 | .00102 |
| 15.361 | 793   | PU | .073 | .00561 |
| 15.859 | 1095  | PU | .092 | .00775 |
| 16.692 | 1137  | PU | .081 | .00805 |
| 16.768 | 695   | UU | .038 | .00492 |
| 17.010 | 2321  | UU | .106 | .01643 |
| 17.209 | 406   | UP | .034 | .00287 |
| 17.282 | 548   | PU | .045 | .00388 |
| 17.945 | 1571  | UU | .097 | .01112 |
| 18.248 | 1559  | UU | .079 | .01104 |
| 18.329 | 879   | UU | .038 | .00622 |
| 18.893 | 297 I | PB | .033 | .00210 |
| 19.062 | 697   | BU | .070 | .00493 |
| 19.915 | 416   | PU | .038 | .00295 |
| 20.009 | 1630  | UU | .116 | .01154 |
| 22.839 | 752   | PU | .076 | .00532 |
| 23.048 | 241   | PU | .030 | .00171 |
| 23.123 | 577   | UU | .042 | .00409 |
| 23.252 | 1210  | UU | .071 | .00857 |
| 23.302 | 744   | UU | .041 | .00527 |
| 23.405 | 957   | UU | .049 | .00678 |
| 24.222 | 273   | PU | .028 | .00193 |
| 24.435 | 1006  | PU | .099 | .00712 |

TOTAL AREA=1.4124E+07  
MUL FACTOR=1.0000E+00

\* RUN # 4 APR 1, 1997 07:06:16  
START



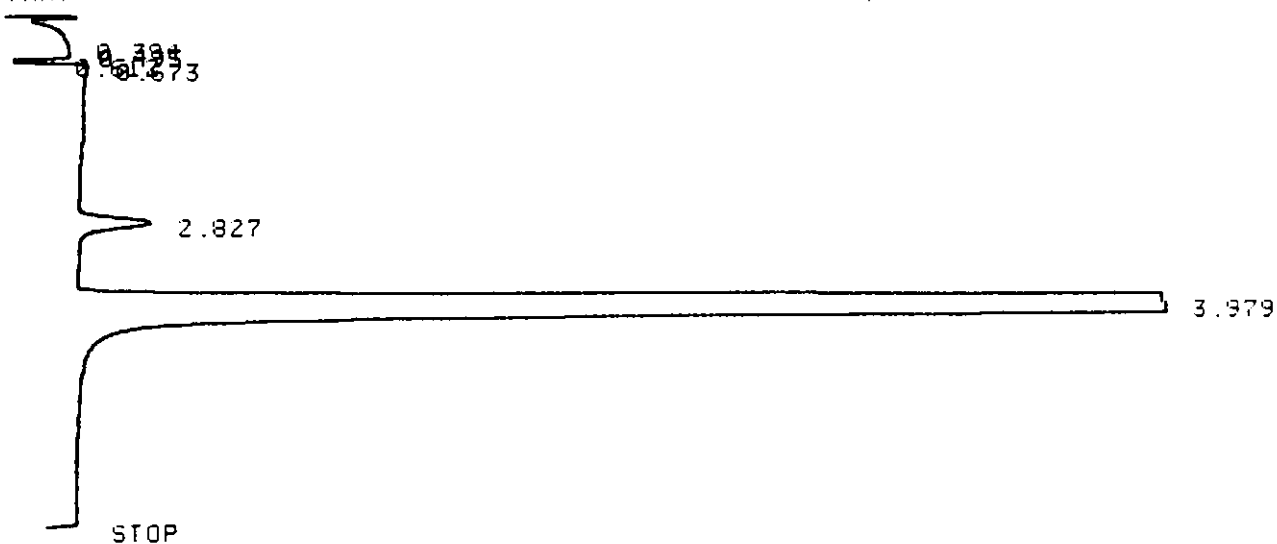
## AREA%

| RT    | AREA    | TYPE | WIDTH | AREA%    |
|-------|---------|------|-------|----------|
| 3.975 | 5733555 | PB   | .125  | 49.88096 |
| 5.147 | 196280  | PU   | .087  | 1.70760  |
| 6.472 | 1584425 | PU   | .289  | 13.78423 |
| 6.722 | 1698640 | UU   | .307  | 14.77788 |
| 7.154 | 1936177 | UU   | .363  | 16.84442 |
| 7.393 | 345400  | I VH | .064  | 3.00492  |

TOTAL AREA=1.1494E+07  
MUL FACTOR=1.0000E+00

\* RUN # 5 APR 1, 1997 07:14:09

START



RUN# 5 APR 1, 1997 07:14:09

## AREA%

| RT    | AREA    | TYPE | WIDTH | AREAX    |
|-------|---------|------|-------|----------|
| .394  | 143173  | BU   | .237  | 1.44903  |
| .495  | 79377   | UU   | .112  | .80336   |
| .612  | 9926    | PU   | .016  | .10046   |
| .673  | 170149  | UU   | .192  | 1.72205  |
| 2.827 | 89282   | BU   | .173  | .90361   |
| 3.979 | 9388704 | PB   | .170  | 95.02147 |

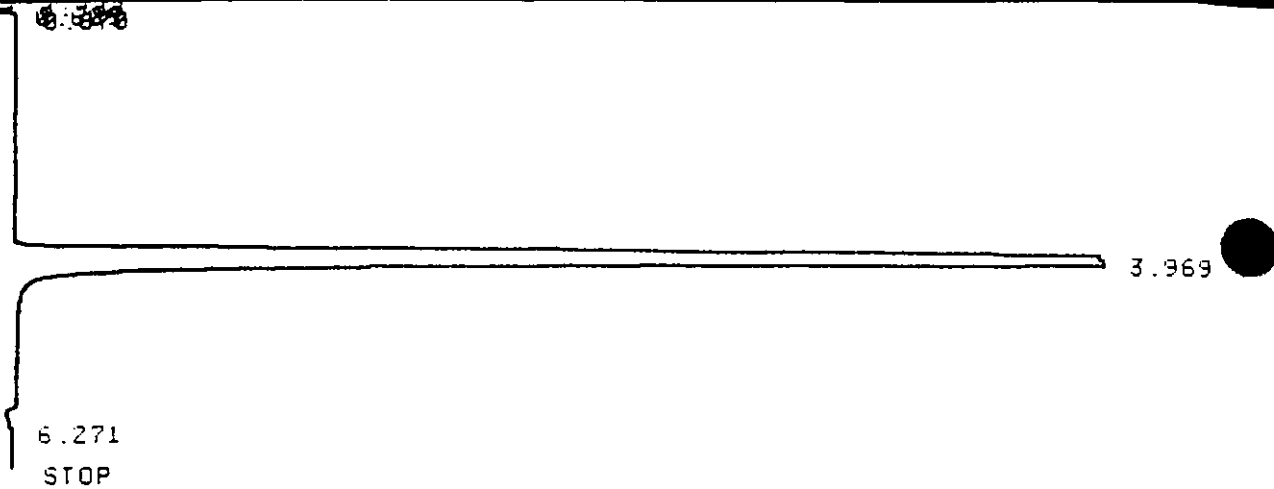
TOTAL AREA=9.8806E+06  
MUL FACTOR=1.0000E+00

\* ATT 2^ 6 @

\* RUN # 6 APR 1, 1997 07:21:45

START

433



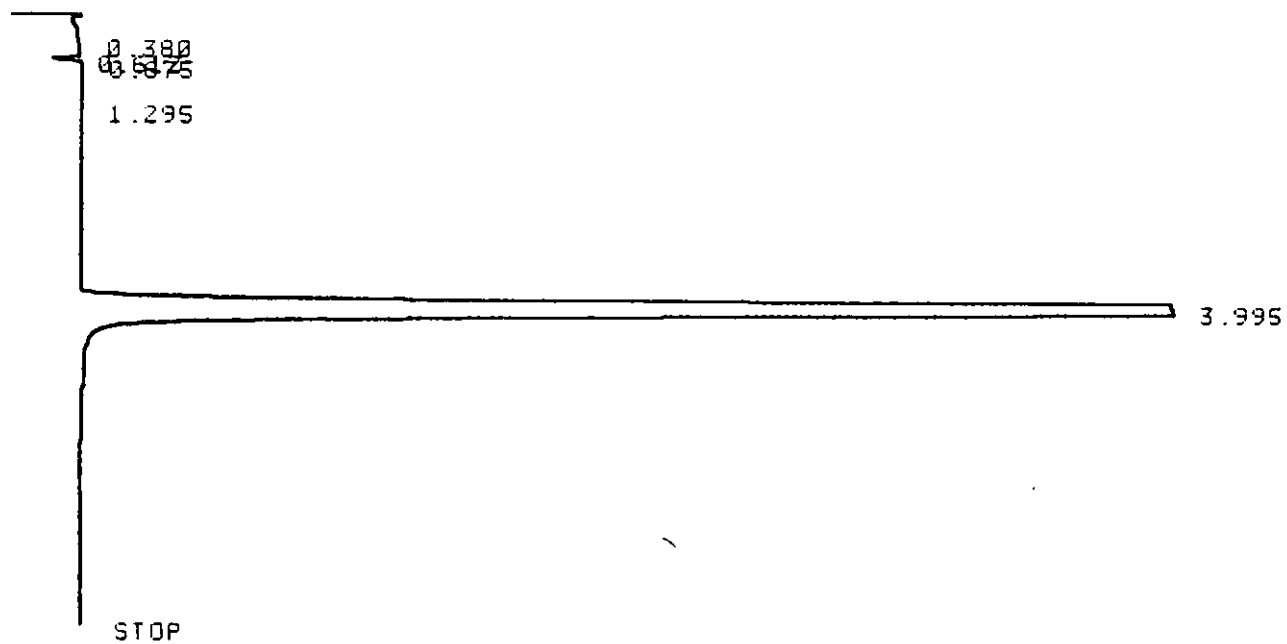
RUN# 6 APR 1, 1997 07:21:45

AREAZ

| RT    | AREA    | TYPE | WIDTH | AREAZ    |
|-------|---------|------|-------|----------|
| .320  | 98522   | BU   | .174  | .99103   |
| .390  | 69908   | UU   | .110  | .70320   |
| .488  | 71814   | UU   | .099  | .72238   |
| .609  | 8964    | PU   | .015  | .09017   |
| .670  | 81901   | UB   | .127  | .82384   |
| 3.969 | 9582138 | PB   | .171  | 96.38672 |
| 6.271 | 28101   | BU   | .176  | .28267   |

TOTAL AREA=9.9413E+06  
MUL FACTOR=1.0000E+00

\* RUN # 7 APR 1, 1997 07:28:56  
START



RUN# 7 APR 1, 1997 07:28:56

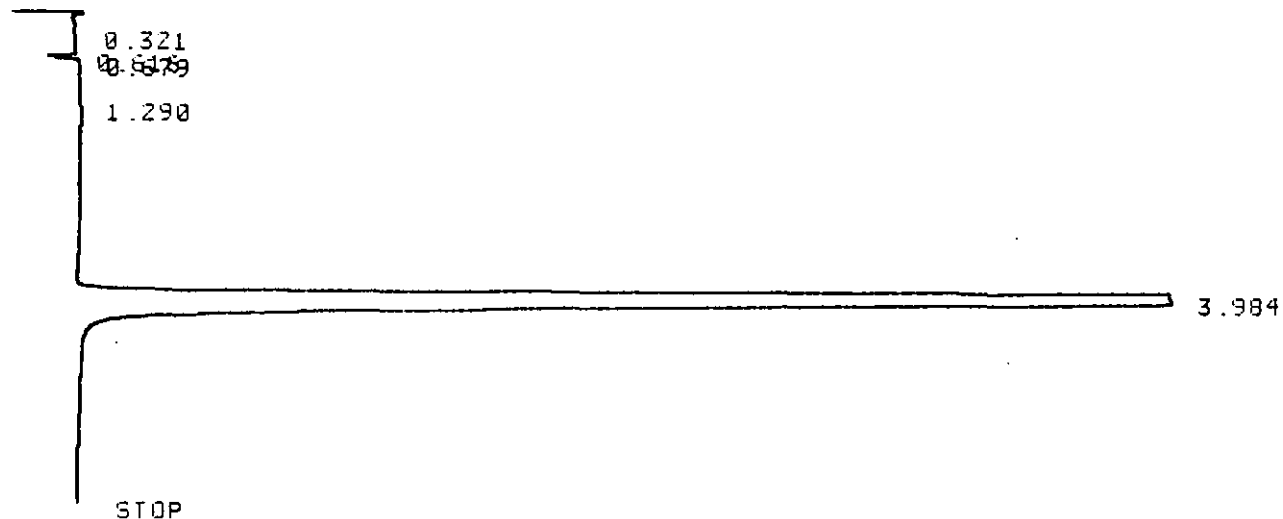
AREAZ



| RT    | AREA     | TYPE | WIDTH | AREA%    |
|-------|----------|------|-------|----------|
| .380  | 148617   | BU   | .248  | 1.44678  |
| .612  | 7005     | PU   | .014  | .06819   |
| .675  | 82261    | UB   | .130  | .80081   |
| 1.295 | 840      | UU   | .070  | .00818   |
| 3.995 | 10033552 | PB   | .172  | 97.67606 |

TOTAL AREA=1.0272E+07  
MUL FACTOR=1.0000E+00

\* RUN # 8 APR 1, 1997 07:38:45  
START



RUN# 8 APR 1, 1997 07:38:45

AREA%

| RT    | AREA    | TYPE | WIDTH | AREA%    |
|-------|---------|------|-------|----------|
| .321  | 83205   | BU   | .164  | .84852   |
| .616  | 7921    | PU   | .014  | .08078   |
| .679  | 37249   | UB   | .083  | .37986   |
| 1.290 | 892     | UU   | .087  | .00910   |
| 3.984 | 9676602 | PB   | .171  | 98.68176 |

TOTAL AREA=9.8059E+06  
MUL FACTOR=1.0000E+00

\* PREP CALIB @

E = EXTERNAL STANDARD  
I = INTERNAL STANDARD  
N = NORMALIZATION

CALIB PROCEDURE [E\*/I/N]:

REF % RTW C 5.0001:  
NON-REF % RTW C 5.0001:

DE 00000 00 0000 00 HEIGHT 000 00

RT CHOSEN ON AREA OR HEIGHT CRITERIA:  
CAL# RT AMT NAME  
1 : 3.984 : 204 : STYRENE  
2 :

REF PK CAL#:

GROUP PEAKS [Y/N\*]:

CALIBRATION OPTIONS

RF of uncalibrated peaks [0.0000E+00 ]:

Replace calibration fit [Y/N\*]:

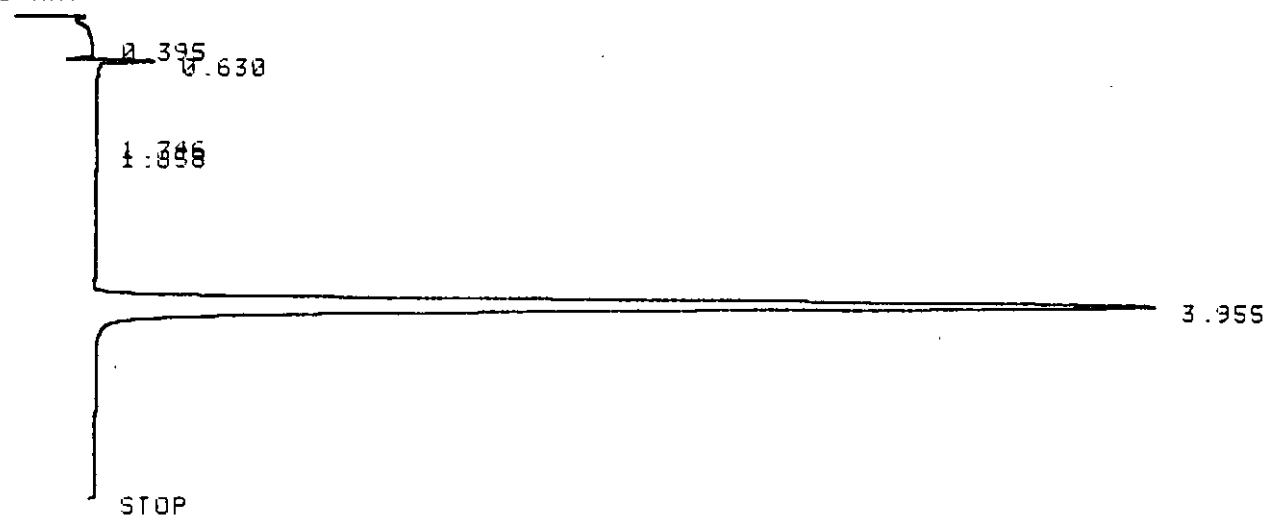
Disable post-run RT update [Y/N\*]:

SAMPLE AMT [0.0000E+00 ]:

MUL FACTOR [1.0000E+00 ]:

\* RUN # 9 APR 1, 1997 07:52:45

START



RUN# 9 APR 1, 1997 07:52:45

ESTD-AREA

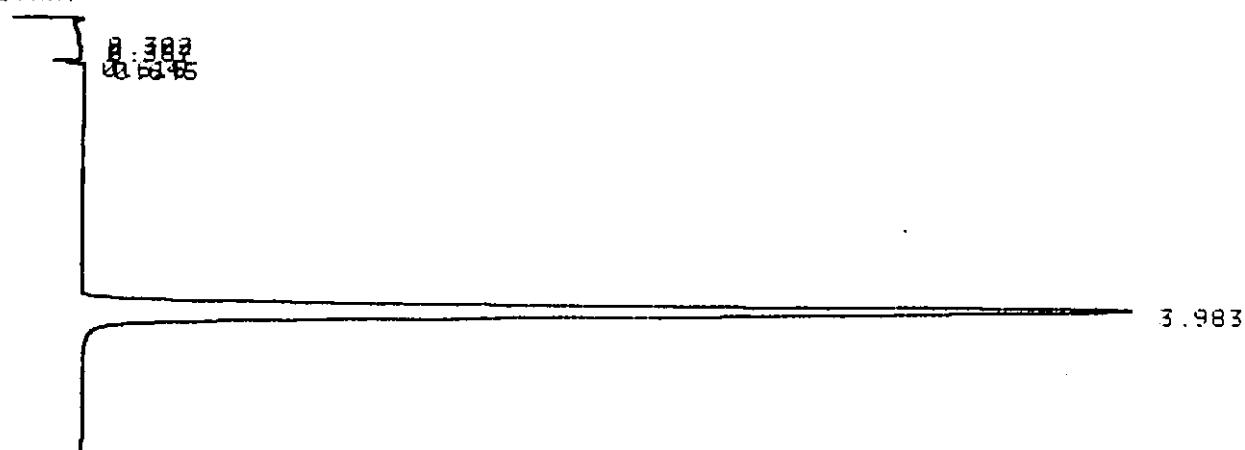
| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.955 | 5112320 | PB   | 1R   | 107.777 |

TOTAL AREA=5384432

MUL FACTOR=1.0000E+00

\* RUN # 10 APR 1, 1997 08:00:26

START



STOP

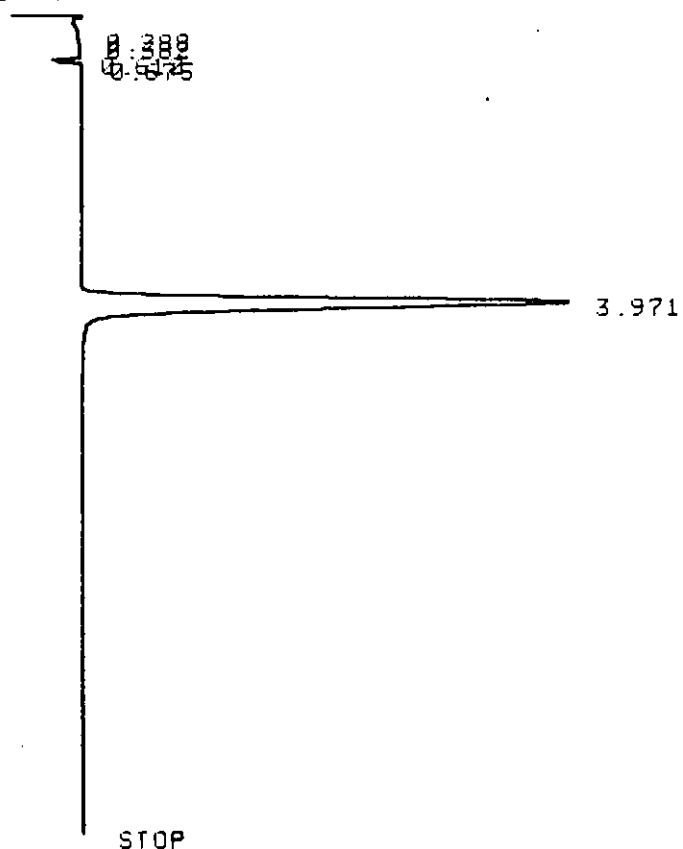
RUN# 10 APR 1, 1997 08:00:26

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.983 | 5068397 | BB   | 1R   | 106.851 |

TOTAL AREA=5287904  
MUL FACTOR=1.0000E+00

\* RUN # 11 APR 1, 1997 08:10:35  
START



RUN# 11 APR 1, 1997 08:10:35

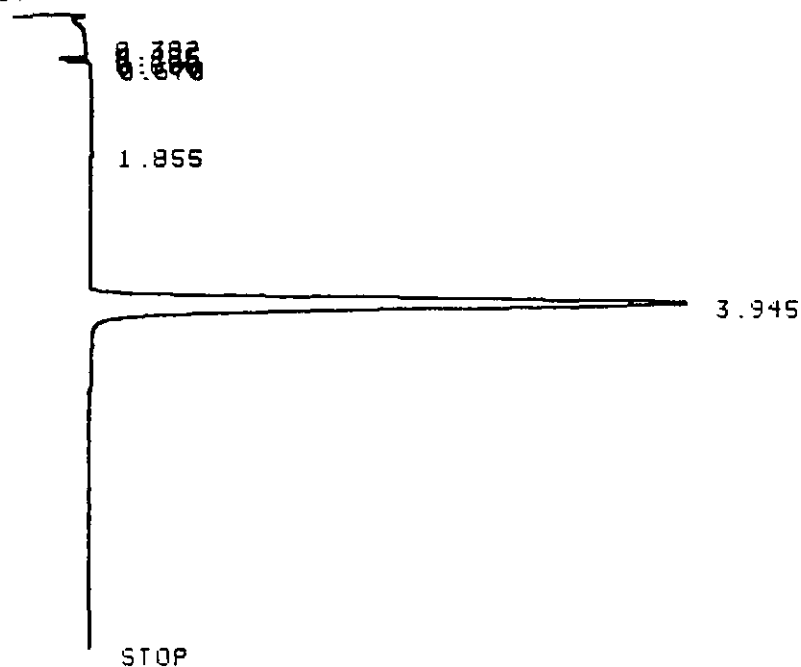
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 3.971 | 2368941 | PB   | 1R   | 49.942 |

TOTAL AREA=2587978  
MUL FACTOR=1.0000E+00

\* RUN # 12 APR 1, 1997 08:22:52

START



RUN# 12 APR 1, 1997 08:22:52

ESTD-AREA

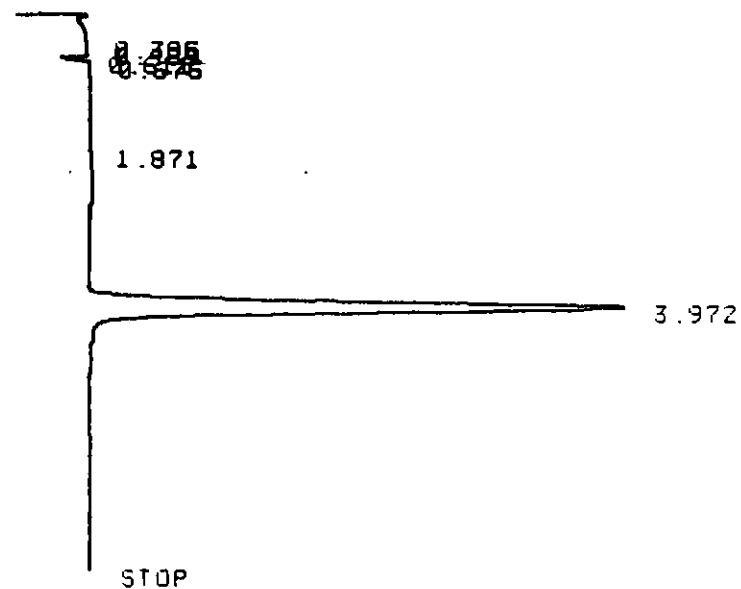
| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 3.945 | 2383002 | PB   | 1R   | 60.779 |

TOTAL AREA=3193658

MUL FACTOR=1.0000E+00

\* RUN # 13 APR 1, 1997 08:32:46

START



RUN# 13 APR 1, 1997 08:32:46

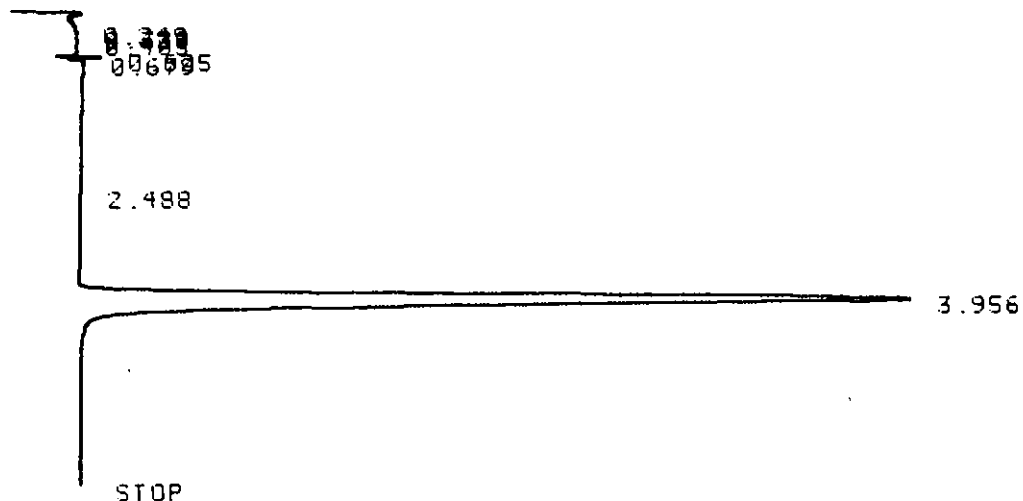
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 3.972 | 2590266 | PB   | 1R   | 54.607 |

TOTAL AREA=2871410  
MUL FACTOR=1.0000E+00

\* RUN # 14 APR 1, 1997 14:57:55

START



RUN# 14 APR 1, 1997 14:57:55

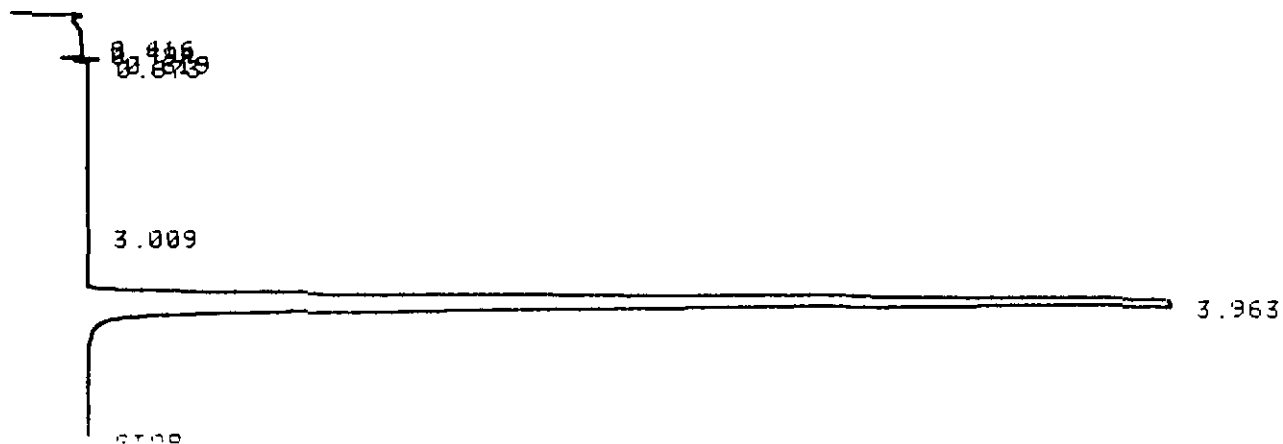
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 3.956 | 4041837 | UB   | 1R   | 85.209 |

TOTAL AREA=4525357  
MUL FACTOR=1.0000E+00

\* RUN # 15 APR 1, 1997 15:04:50

START



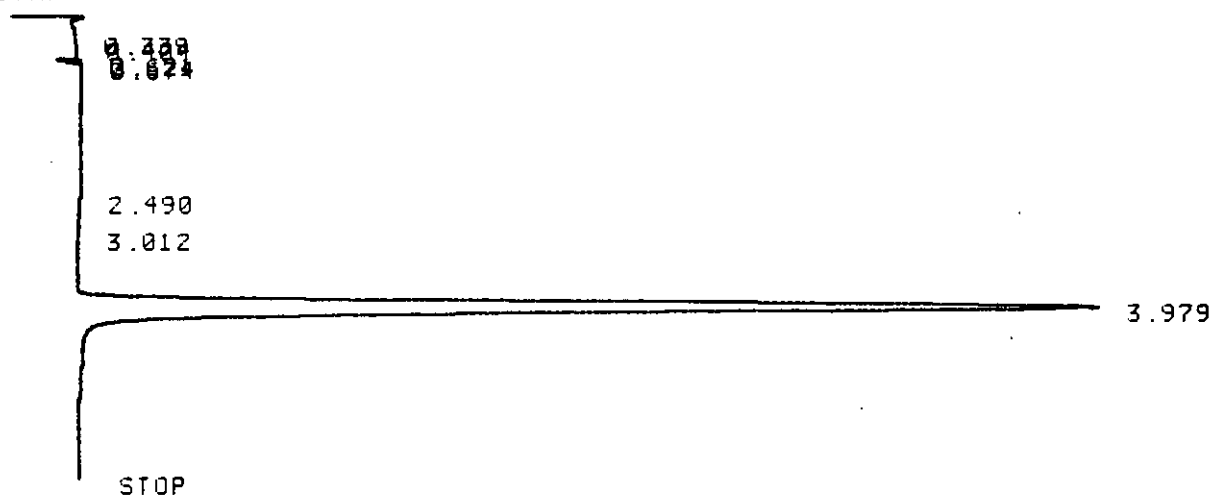
RUN# 15 APR 1, 1997 15:04:50

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.963 | 6589402 | PB   | 1R   | 138.916 |

TOTAL AREA=6953408  
MUL FACTOR=1.0000E+00

\* RUN # 16 APR 1, 1997 15:10:57  
START



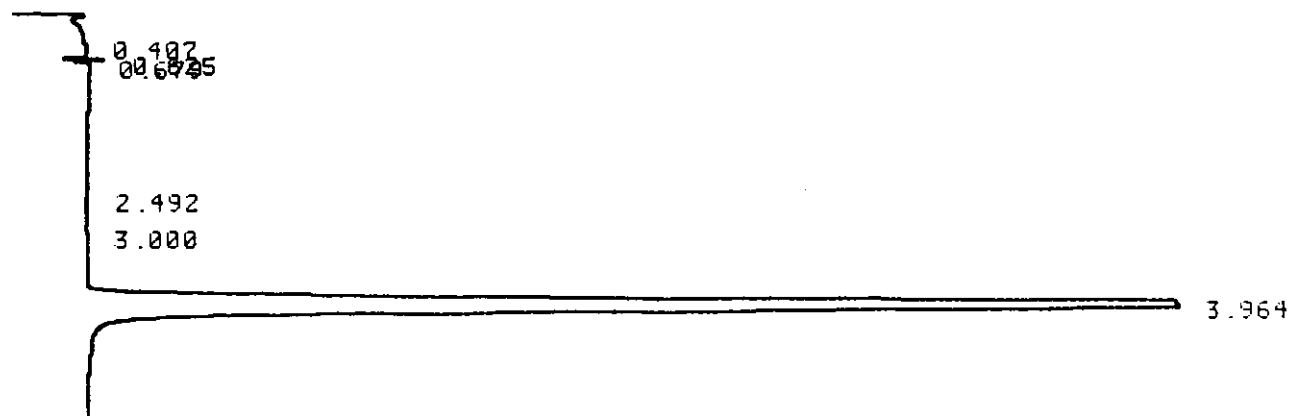
RUN# 16 APR 1, 1997 15:10:57

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.979 | 4909965 | BB   | 1R   | 103.511 |

TOTAL AREA=5131200  
MUL FACTOR=1.0000E+00

\* RUN # 17 APR 1, 1997 15:18:16  
START



STOP

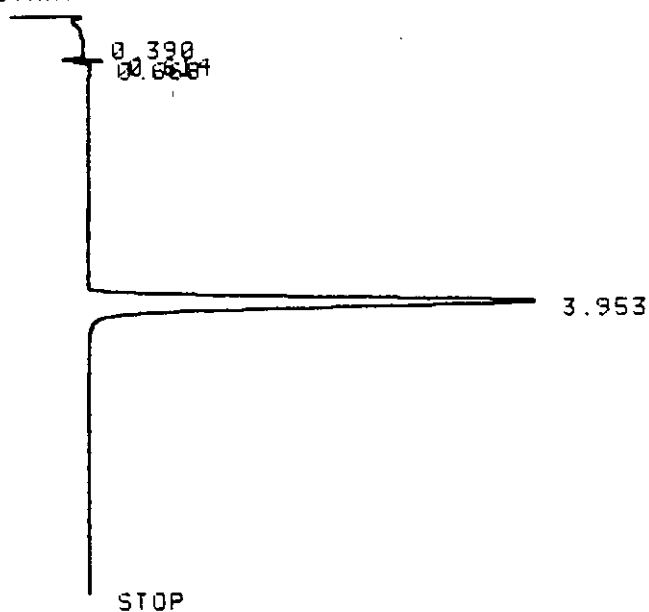
RUN# 17 APR 1, 1997 15:18:16

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.964 | 6972035 | PB   | 1R   | 146.983 |

TOTAL AREA=7301091  
MUL FACTOR=1.0000E+00

\* RUN # 18 APR 1, 1997 15:25:41  
START



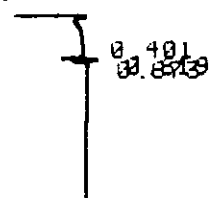
RUN# 18 APR 1, 1997 15:25:41

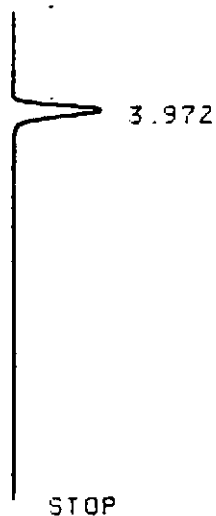
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 3.953 | 2180194 | PB   | 1R   | 46.131 |

TOTAL AREA=2403754  
MUL FACTOR=1.0000E+00

\* RUN # 19 APR 1, 1997 15:34:44  
START





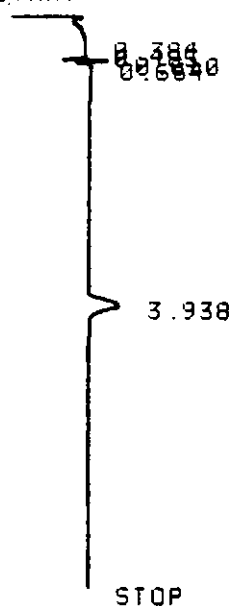
RUN# 19 APR 1, 1997 15:34:44

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 3.972 | 432486 | UB   | 1R   | 9.118  |

TOTAL AREA= 740662  
MUL FACTOR=1.0000E+00

\* RUN # 20 APR 1, 1997 15:44:41  
START



RUN# 20 APR 1, 1997 15:44:41

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 3.938 | 159043 | BU   | 1R   | 3.353  |

TOTAL AREA= 485160  
MUL FACTOR=1.0000E+00



\* RUN # 21  
START

APR 1, 1997 15:53:02

0.400  
0.600

3.945

275-272

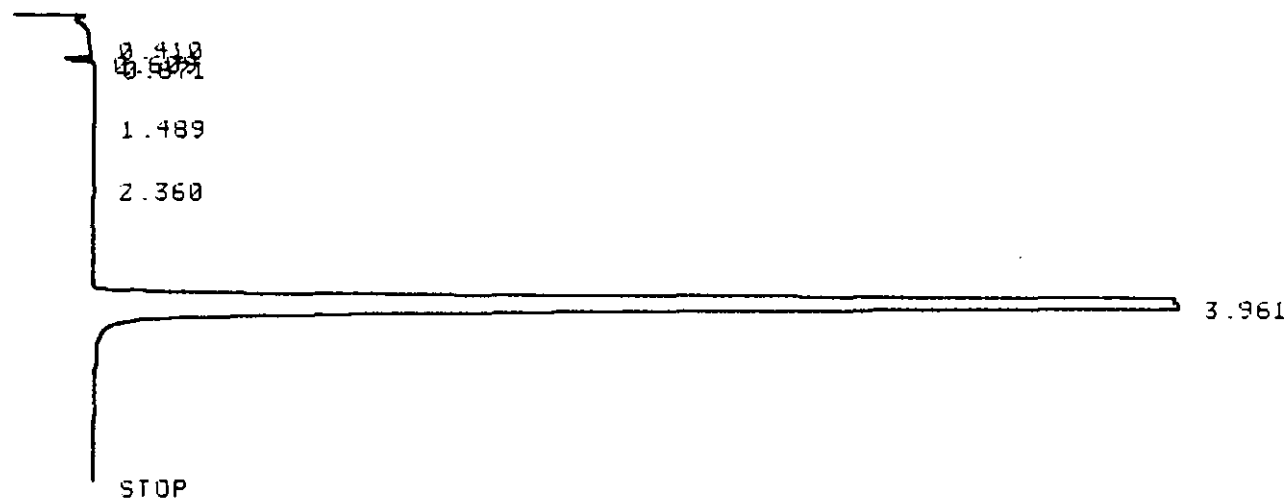
RUN# 21 APR 1, 1997 15:53:02

ESTD-AREA

| RT    | AREA TYPE | CAL# | AMOUNT |
|-------|-----------|------|--------|
| 3.945 | 71351 PU  | 1R   | 1.504  |

TOTAL AREA= 288995  
MUL FACTOR=1.0000E+00

\* RUN # 22 APR 1, 1997 16:27:05  
START



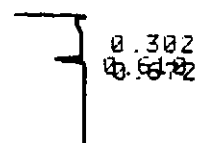
RUN# 22 APR 1, 1997 16:27:05

ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT  |
|-------|------------|------|---------|
| 3.961 | 9125978 PB | 1R   | 192.392 |

TOTAL AREA=9.6291E+06  
MUL FACTOR=1.0000E+00

\* RUN # 23 APR 1, 1997 16:34:44  
START



3.975

STOP

RUN# 23 APR 1, 1997 16:34:44

ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT  |
|-------|------------|------|---------|
| 3.975 | 9757984 BB | 1R   | 205.716 |

TOTAL AREA=9.8820E+06

MUL FACTOR=1.0000E+00

\* RUN # 24 APR 1, 1997 16:41:29

START

0.386  
0.679

2.365

3.983

4.738

STOP

RUN# 24 APR 1, 1997 16:41:29

ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT  |
|-------|------------|------|---------|
| 3.983 | 9754560 BB | 1R   | 205.644 |

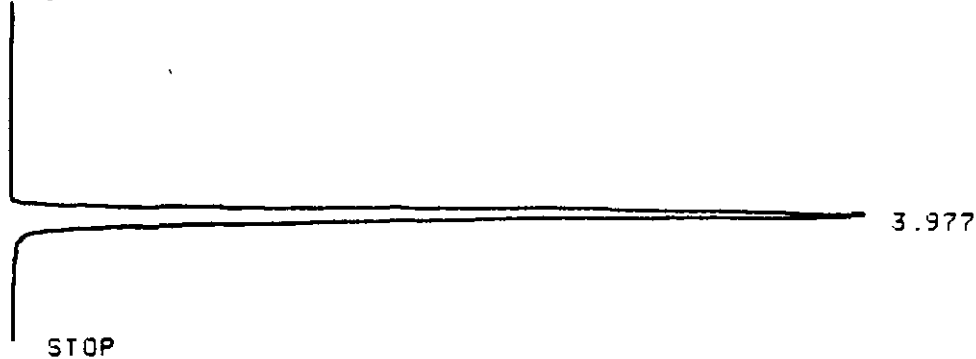
TOTAL AREA=9.9895E+06

MUL FACTOR=1.0000E+00

\* RUN # 25 APR 1, 1997 16:47:22

START

0.402  
0.677



RUN# 25 APR 1, 1997 16:47:22

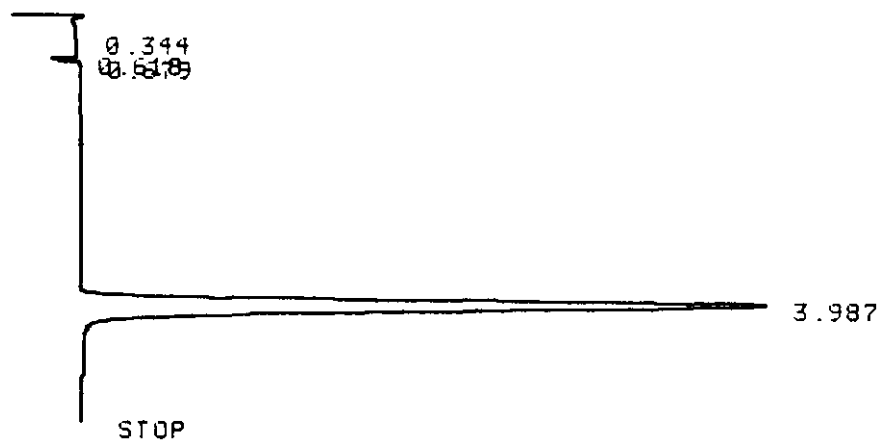
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 3.977 | 4110957 | PB   | 1R   | 86.666 |

TOTAL AREA=4396048

MUL FACTOR=1.0000E+00

\* RUN # 26 APR 1, 1997 16:53:47  
START



RUN# 26 APR 1, 1997 16:53:47

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 3.987 | 3326517 | PB   | 1R   | 70.129 |

TOTAL AREA=3454613

MUL FACTOR=1.0000E+00

\* RUN # 27 APR 1, 1997 17:00:27  
START



1:195  
1:395

3.738

STOP

RUN# 27 APR 1, 1997 17:00:27

NO CALIB PEAKS FOUND

AREA%

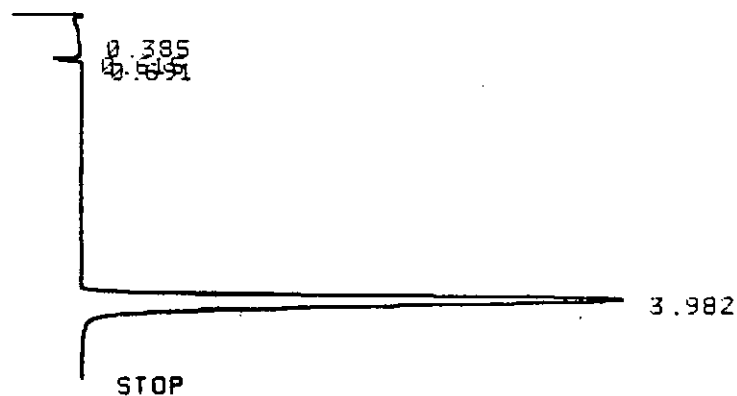
| RT    | AREA    | TYPE | WIDTH | AREA%    |
|-------|---------|------|-------|----------|
| .359  | 837362  | BU   | .205  | 20.04850 |
| .770  | 1525057 | UU   | .435  | 36.51360 |
| .965  | 645151  | UU   | .207  | 15.44650 |
| 1.185 | 647683  | UU   | .243  | 15.50712 |
| 1.371 | 462925  | UU   | .203  | 11.08356 |
| 3.738 | 58504   | PV   | .191  | 1.40073  |

TOTAL AREA=4176682

MUL FACTOR=1.0000E+00

\* RUN # 28 APR 1, 1997 17:08:14

START



RUN# 28 APR 1, 1997 17:08:14

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 3.982 | 2620170 | PB   | 1R   | 55.238 |

TOTAL AREA=2897517

MUL FACTOR=1.0000E+00

4/1/97

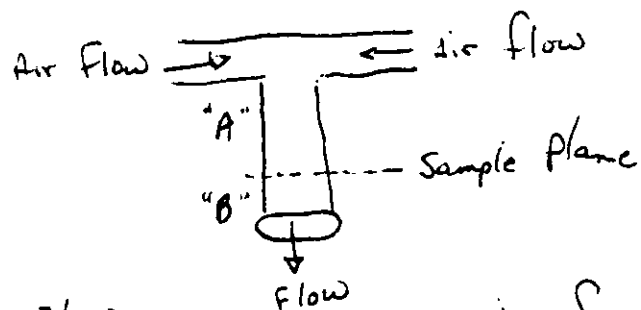
NMMA @ US Marine

Sample/Traverse Point Location

Duct  $\phi = 18"$

Distance A = 98" = 5.4 x  $\phi$

Distance B = 29" = 1.6 x  $\phi$



| Traverse Point | % 10 | in. from Wall      |
|----------------|------|--------------------|
| 1              | 3.2  | 0.58 ( $1/2$ )     |
| 2              | 10.5 | 1.89 ( $1 7/8$ )   |
| 3              | 19.4 | 3.49 ( $3 1/2$ )   |
| 4              | 32.3 | 5.81 ( $5 6/8$ )   |
| 5              | 47.7 | 12.19 ( $12 1/4$ ) |
| 6              | 80.6 | 14.51 ( $14 1/2$ ) |
| 7              | 89.5 | 16.11 ( $16 1/8$ ) |
| 8              | 96.8 | 17.42 ( $17 1/2$ ) |

Initial ~~pre test~~ calibrations

THC in/out only

File Name: C:\Program Files\Kodak\PRN Correction Files\corrupt4.tif

CALIBRATION FILE NAME = c:\cendata\0331a.CAL

[illegible]

Cond. Resp. Cond. Resp.

|   |     |    |    |       |     |        |         |
|---|-----|----|----|-------|-----|--------|---------|
| 1 | THC | 0  | 0  | 214   | 4.2 | 99.55  | -1.6930 |
| 2 | THC | 0  | 0  | 45.8  | 4.5 | 10.00  | -1.2055 |
| 3 | THC | 0  | 0  | 45.1  | 7   | 101.11 |         |
| 4 | THC | 0  | 0  | 444.5 | 8.8 | 10.00  |         |
| 5 | THC | 10 | -4 | 176   | 5   |        |         |

THC 10 1000

Environmental Data

Location

10 1000

10 1000

10 1000

10 1000 10 1000 10 1000 10 1000

10 1000 10 1000 10 1000 10 1000 10 1000 10 1000

THC 10 1000

THC 10 1000

THC 10 1000

THC 10 1000

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THC 10 1000



# APOLON INFORMATION

Environmental Assessment and Analysis Department  
 Continuous Emissions Monitoring Data

LE Machine

Delington, WA

Perforated Tube

9902

File Prefix = 03-01-1997 Current Time = 19:03:49

File Name = c:\tempdata\030197.FRM Calibration File(s): c:\tempdata\0301a.CAL

Test #1: 15.0 lb

| 03-01-1997<br>Time | THC :<br>ppm | THC :<br>ppm | Flow<br>mH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|--------------|-----------|-------------|
| 19:03:50           | 1.1          | 15.1         | -2662.2      | -253.7    | -226.8      |
| 19:04:07           | 1.1          | 15.1         | -2661.8      | -253.7    | -227.4      |
| 19:04:24           | 1.1          | 15.1         | -2660.7      | -253.5    | -226.2      |
| 19:04:41           | 1.1          | 15.1         | -2661.7      | -253.5    | -226.3      |
| 19:04:58           | 1.1          | 15.0         | -2661.9      | -253.5    | -226.2      |
| 19:05:15           | 1.1          | 15.0         | -2661.6      | -253.3    | -225.4      |
| 19:05:32           | 1.1          | 15.0         | -2661.4      | -253.2    | -225.4      |
| 19:05:49           | 1.1          | 14.9         | -2661.8      | -253.4    | -226.2      |

Avg = 1.1 15.0 -2661.3 -253.5 -226.2

# RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

Li Marine

Orlando, FL

Performed for: NEMA

Date Acquired: 07-31-1997 Current Time: 19:26:12

File Name: c:\exdata\073197.PRN Calibration File: c:\exdata\0301a.CAL

Test #1: CO Out

| 07-31-1997<br>Time | THC<br>ppm | THC<br>ppm | Flow<br>lpm10 | Temp<br>F | Pres<br>lb |
|--------------------|------------|------------|---------------|-----------|------------|
| 19:26:17           | 607.1      | 1.0        | -2661.6       | -253.2    | -225.0     |
| 19:26:17           | 607.2      | 1.6        | -2661.2       | -253.1    | -225.5     |
| 19:26:27           | 607.1      | 1.7        | -2660.8       | -253.1    | -225.6     |
| 19:26:37           | 607.1      | 1.7        | -2660.8       | -253.1    | -225.8     |
| 19:26:47           | 607.1      | 2.4        | -2661.1       | -253.1    | -225.7     |
| 19:26:57           | 607.1      | 2.3        | -2661.1       | -253.0    | -225.7     |
| 19:27:07           | 607.1      | 2.3        | -2661.0       | -253.0    | -225.6     |
| 19:27:17           | 607.1      | 2.2        | -2661.1       | -253.0    | -225.7     |
| 19:27:27           | 607.1      | 2.2        | -2661.0       | -253.0    | -225.6     |
| 19:27:37           | 240.0      | 2.3        | -2662.9       | -254.8    | -229.9     |
| Avg =              | 607.5      | 1.5        | -2660.7       | -253.4    | -225.5     |

END OUT

# ADDITION INFORMATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, VA

Permitted Port: 9999

Date Printed: 07-21-1997 Current Date: 12-16-13

File Name: c:\data\33197,999 Calibration: 10/15/94, 10/15/94

## Test for 1270.1 Lit

| 07-21-1997 | 740.1 | 740.1 | 740.1   | Temp   | Result |
|------------|-------|-------|---------|--------|--------|
| Time       | ppm   | ppm   | ppm     | F      | ppm    |
| 12:13:17   | 171.7 | 2.4   | -2662.9 | -253.4 | -225.0 |
| 12:13:17   | 172.3 | 2.7   | -2669.7 | -253.3 | -225.7 |
| 12:13:27   | 177.4 | 3.4   | -2667.1 | -253.3 | -226.7 |
| 12:13:37   | 293.1 | 3.4   | -2662.3 | -253.3 | -225.1 |
| 12:13:47   | 199.3 | 2.4   | -2663.0 | -253.3 | -225.3 |
| 12:13:57   | 299.7 | 2.5   | -2662.5 | -253.2 | -225.0 |
| 12:14:07   | 199.7 | 2.4   | -2662.5 | -253.2 | -225.3 |
| 12:14:17   | 300.2 | 2.4   | -2662.7 | -253.3 | -225.1 |
| Avg        | 299.4 | 2.4   | -2661.9 | -253.9 | -225.3 |

RADIAN CORPORATION

Environmental Measurement Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-01-1997 Current Time = 09:49:06

File Name = c:\ceedata\040197.FRN Calibration File: c:\ceedata\03319.CAL

Dublet THe  
cal 4/1/97 am

Test #: Out 0

| 04-01-1997<br>Time | THC c<br>ppm | THC i<br>ppm | Flow<br>L/H2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 08:15:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:15:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:16:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:17:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:17:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:18:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:19:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:19:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:20:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:21:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:21:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:22:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:23:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:23:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:24:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:25:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:25:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:26:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:27:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:27:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:28:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:29:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:29:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:30:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:31:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:31:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:32:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:33:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:33:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:34:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:35:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:35:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:36:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:37:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:37:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:38:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:39:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:39:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:40:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:41:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:41:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:42:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:43:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:43:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:44:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:45:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:45:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:46:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:47:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:47:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:48:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:49:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:49:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:50:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:51:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:51:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:52:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:53:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:53:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:54:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:55:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:55:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:56:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:57:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:57:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:58:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:59:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:59:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:00:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:01:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:01:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:02:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:03:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:03:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:04:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:05:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:05:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:06:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:07:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:07:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:08:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:09:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:09:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:10:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:11:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:11:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:12:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:13:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:13:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:14:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:15:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:15:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:16:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:17:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:17:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:18:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:19:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:19:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:20:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:21:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:21:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:22:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:23:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:23:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:24:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:25:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:25:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:26:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:27:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:27:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:28:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:29:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:29:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:30:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:31:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:31:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:32:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:33:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:33:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:34:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:35:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:35:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:36:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:37:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:37:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:38:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:39:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:39:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:40:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:41:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:41:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:42:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:43:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:43:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:44:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:45:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:45:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:46:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:47:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:47:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:48:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:49:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:49:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:50:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:51:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:51:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:52:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:53:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:53:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:54:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:55:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:55:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:56:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:57:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:57:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:58:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:59:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:59:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 10:00:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 10:01:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 10:01:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 10:02:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 10:03:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 10:03:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 10:04:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 10:05:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 10:05:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 10:06:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 10:07:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 10:07:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 10:08:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 10:09:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 10:09:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 10:10:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 10:11:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 10:11:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 10:12:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 10:13:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 10:13:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 10:14:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 10:15:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 10:15:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 10:16:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 10:17:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 10:17:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 10:18:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 10:19:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 10:19:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 10:20:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 10:21:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 10:21:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 10:22:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 10:23:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 10:23:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 10:24:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 10:25:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 10:25:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 10:26:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 10:27:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 10:27:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 10:28:30           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 10:29:10           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 10:29:50           | 0.0          | 0.0          | 0.0           | 0.0       | 0.0         |
| 10:30:30           | 0.0          |              |               |           |             |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, VA

Performed for: NMMA

Date Printed = 04-01-1997 Drawn by: TMM - 04-01-97

File Name = 14050001 - 14050001 - 14050001 - 14050001 - 14050001

Test # 1, 2, 3, 4, 5

| Time     | CO   | CO2 | CH4 | H2  | HC  |
|----------|------|-----|-----|-----|-----|
| 14050001 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050002 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050003 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050004 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050005 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050006 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050007 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050008 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050009 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050010 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050011 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050012 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050013 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050014 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050015 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050016 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050017 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050018 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050019 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050020 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050021 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050022 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050023 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050024 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050025 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050026 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050027 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050028 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050029 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050030 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050031 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050032 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050033 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050034 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050035 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050036 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050037 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050038 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050039 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050040 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050041 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050042 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050043 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050044 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050045 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050046 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050047 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050048 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050049 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050050 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050051 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050052 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050053 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050054 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050055 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050056 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050057 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050058 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050059 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050060 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050061 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050062 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050063 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050064 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050065 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050066 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050067 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050068 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050069 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050070 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050071 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050072 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050073 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050074 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050075 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050076 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050077 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050078 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050079 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050080 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050081 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050082 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050083 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050084 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050085 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050086 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050087 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050088 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050089 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050090 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050091 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050092 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050093 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050094 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050095 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050096 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050097 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050098 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050099 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14050100 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 |

# 5-0104 (7/19/1997)

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, VA

Performed for: NMMA

Date Printed = 04-01-1997 Current Time = 09:59:09

File Name = c:\cead\data\040197.PRN Calibration File: c:\cead\data\0331A.CAL

Test #: Out 500ppm

| 04-01-1997<br>Time | THC 1<br>ppm | THC 2<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 08:58:10           | 503.5        | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:58:19           | 501.7        | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:58:27           | 501.4        | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:58:35           | 501.4        | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:58:43           | 500.6        | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:58:51           | 500.5        | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:59:00           | 500.0        | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:59:07           | 500.5        | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:59:15           | 500.5        | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:59:23           | 500.5        | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:59:31           | 500.6        | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:59:39           | 500.6        | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:59:47           | 500.6        | 0.0          | 0.0           | 0.0       | 0.0         |
| 08:59:55           | 500.6        | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:00:03           | 500.6        | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:00:11           | 500.6        | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:00:19           | 500.6        | 0.0          | 0.0           | 0.0       | 0.0         |
| 09:00:27           | 500.6        | 0.0          | 0.0           | 0.0       | 0.0         |

|          |       |     |     |     |     |
|----------|-------|-----|-----|-----|-----|
| 09:03:52 | 297.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 09:04:02 | 296.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 09:04:12 | 295.7 | 0.0 | 0.0 | 0.0 | 0.0 |

293.1

RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-01-1997 Current Time = 09:14:33  
 File Name = c:\ce\data\040197.PRM Calibration File: c:\ce\data\0331A.CAL

Inlet THC CAL  
 4/1/97 2m

Test #: In Oppa

| 04-01-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 09:14:35           | 1.9          | -0.1         | -2663.9       | -254.1    | -226.6      |
| 09:14:36           | 1.9          | -0.1         | -2663.9       | -254.1    | -226.6      |
| 09:14:38           | 1.9          | -0.1         | -2663.9       | -254.1    | -226.6      |
| 09:14:44           | 1.1          | -0.1         | -2652.3       | -254.9    | -228.1      |
| 09:14:54           | 1.0          | -0.1         | -2659.4       | -254.2    | -226.6      |
| 09:15:04           | 1.1          | -0.1         | -2663.1       | -254.1    | -226.5      |
| 09:15:14           | 1.1          | -0.1         | -2663.8       | -254.1    | -226.6      |
| 09:15:24           | 1.1          | -0.1         | -2663.8       | -254.2    | -226.5      |
| 09:15:34           | 1.1          | -0.1         | -2663.9       | -254.2    | -226.6      |
| 09:15:44           | 1.0          | -0.1         | -2664.0       | -254.1    | -226.5      |
| 09:15:54           | 1.1          | -0.1         | -2663.9       | -254.1    | -226.4      |
| 09:16:04           | 1.0          | -0.1         | -2663.6       | -254.1    | -226.5      |
| 09:16:14           | 1.1          | -0.1         | -2663.7       | -254.1    | -226.5      |
| 09:16:24           | 1.1          | -0.1         | -2663.5       | -254.1    | -226.5      |
| Avg =              | 1.2          | -0.1         | -2662.6       | -254.2    | -226.7      |



RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-01-1997 Current Time = 09:19:45  
 File Name = c:\cendata\040197.PRN Calibration File: c:\cendata\0331A.CAL

Test #: In 45.5ppm

| 04-01-1997<br>Time | THC D<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 09:19:47           | -0.0         | 45.7         | -2663.2       | -253.9    | -226.3      |
| 09:19:48           | -0.0         | 45.7         | -2663.2       | -253.9    | -226.3      |
| 09:19:54           | 0.0          | 45.9         | -2651.3       | -255.0    | -228.6      |
| 09:20:04           | 0.0          | 45.9         | -2657.5       | -253.9    | -226.4      |
| 09:20:14           | 0.0          | 45.9         | -2661.8       | -253.9    | -226.2      |
| 09:20:24           | 0.0          | 45.9         | -2662.9       | -253.8    | -226.2      |
| 09:20:34           | -0.0         | 45.9         | -2663.0       | -253.8    | -226.3      |
| 09:20:44           | -0.0         | 45.9         | -2663.0       | -253.8    | -226.3      |
| Avg =              | 0.0          | 45.9         | -2660.7       | -254.0    | -226.6      |

RADIAN CORPORATION  
Environmental Measurement and Analysis Department  
Continuous Emissions Monitoring Data  
US Marine  
Arlington, WA  
Performed for: NMMA  
Date Printed = 04-01-1997 Current Time = 09:22:20  
File Name = c:\ce\data\040197.PRM Calibration File: c:\ce\data\0331A.CAL

Test #: In 30.4ppm

| 04-01-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 09:22:21           | -0.0         | 30.6         | -2663.6       | -254.0    | -226.6      |
| 09:22:24           | 0.0          | 30.6         | -2660.0       | -256.6    | -233.8      |
| 09:22:34           | 0.0          | 30.6         | -2660.3       | -254.0    | -226.3      |
| 09:22:44           | 0.0          | 30.6         | -2663.0       | -254.0    | -226.3      |
| 09:22:54           | 0.0          | 30.6         | -2663.4       | -254.0    | -226.3      |
| 09:23:04           | 0.0          | 30.6         | -2663.5       | -253.9    | -225.6      |
| 09:23:14           | 0.0          | 30.7         | -2663.3       | -253.9    | -226.3      |
| Avg =              | 0.0          | 30.6         | -2662.4       | -254.3    | -227.3      |

RADIANT CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-01-1997 Current Time = 09:24:51  
 File Name = c:\cemdata\040197.PRM Calibration File: c:\cemdata\0331A.CAL

Test #: In 15ppm

| 04-01-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 09:24:54           | 0.0          | 15.2         | -2664.1       | -256.0    | -231.9      |
| 09:25:04           | -0.0         | 15.2         | -2662.2       | -254.2    | -226.3      |
| 09:25:14           | 0.0          | 15.2         | -2664.0       | -254.2    | -226.4      |
| 09:25:24           | 0.0          | 15.2         | -2664.5       | -254.2    | -226.5      |
| 09:25:34           | -0.0         | 15.2         | -2664.4       | -254.0    | -225.7      |
| 09:25:44           | 0.0          | 15.2         | -2664.5       | -254.1    | -226.4      |
| 09:25:54           | 0.0          | 15.2         | -2664.6       | -254.1    | -226.3      |
| 09:26:04           | 0.0          | 15.2         | -2664.6       | -254.2    | -226.4      |
| 09:26:14           | -0.0         | 15.2         | -2664.4       | -253.9    | -225.5      |
| 09:26:24           | -0.0         | 15.2         | -2664.5       | -254.1    | -226.3      |
| 09:26:34           | 0.0          | 15.2         | -2664.7       | -254.1    | -226.3      |
| 09:26:44           | 0.0          | 15.2         | -2664.9       | -254.3    | -226.5      |
| =====              |              |              |               |           |             |
| Avg =              | 0.0          | 15.2         | -2664.3       | -254.3    | -226.7      |
| =====              |              |              |               |           |             |

RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-01-1997 Current Time = 09:37:18  
 File Name = c:\cendata\040197.PRM Calibration File: c:\cendata\0331A.CAL

4/1/97

THC monitor response  
 to 204 ppm Styrene  
 inlet & outlet

Test #: Out 204 sty.

| 04-01-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 09:37:21           | 489.9        | 1.6          | -2666.8       | -255.7    | -235.1      |
| 09:37:24           | 488.8        | 1.5          | -2657.6       | -256.5    | -231.8      |
| 09:37:34           | 489.4        | 1.6          | -2660.0       | -254.2    | -226.1      |
| 09:37:44           | 489.5        | 1.6          | -2664.1       | -254.1    | -226.0      |
| 09:37:54           | 488.7        | 1.6          | -2664.7       | -254.1    | -226.1      |
| 09:38:04           | 488.7        | 1.6          | -2664.8       | -254.1    | -226.1      |
| 09:38:14           | 487.9        | 1.5          | -2664.8       | -254.0    | -226.1      |
| 09:38:24           | 489.4        | 1.6          | -2664.7       | -254.0    | -226.0      |
| 09:38:34           | 488.2        | 1.6          | -2664.2       | -253.8    | -225.3      |
| 09:38:44           | 486.4        | 1.6          | -2664.0       | -253.7    | -225.3      |
| 09:38:54           | 487.6        | 1.6          | -2664.0       | -253.9    | -226.2      |
| 09:39:04           | 487.8        | 1.6          | -2664.1       | -253.9    | -226.1      |
| 09:39:14           | 487.2        | 1.6          | -2664.3       | -254.0    | -226.2      |
| 09:39:24           | 485.9        | 1.6          | -2664.3       | -254.0    | -226.1      |
| 09:39:34           | 486.7        | 1.6          | -2664.1       | -254.0    | -226.1      |
| 09:39:44           | 487.7        | 1.6          | -2664.0       | -253.9    | -225.3      |
| 09:39:54           | 486.9        | 1.6          | -2663.9       | -253.9    | -226.0      |
| 09:40:04           | 485.8        | 1.6          | -2664.2       | -253.9    | -226.1      |
| 09:40:14           | 485.9        | 1.6          | -2664.3       | -254.0    | -225.9      |
| 09:40:24           | 486.9        | 1.6          | -2664.0       | -253.7    | -225.2      |
| 09:40:34           | 486.8        | 1.6          | -2664.0       | -253.9    | -226.1      |
| Avg =              | 487.7        | 1.6          | -2663.9       | -254.2    | -226.6      |

## RADIAM CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-01-1997 Current Time = 09:43:39

File Name = c:\cendata\040197.PRN Calibration File: c:\cendata\0331A.CAL

Test #: In 204 sty.

| 04-01-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 09:43:43           | -0.0         | 471.8        | -2667.0       | -255.6    | -228.6      |
| 09:43:44           | -0.0         | 471.8        | -2667.0       | -255.6    | -228.6      |
| 09:43:54           | -0.0         | 476.9        | -2659.0       | -254.8    | -226.9      |
| 09:44:04           | 0.0          | 477.5        | -2664.1       | -254.5    | -226.5      |
| 09:44:14           | 0.0          | 479.2        | -2665.4       | -254.5    | -226.4      |
| 09:44:24           | -0.0         | 480.6        | -2665.4       | -254.4    | -226.4      |
| 09:44:34           | 0.0          | 482.0        | -2664.9       | -254.1    | -225.0      |
| 09:44:44           | -0.0         | 483.2        | -2664.4       | -254.2    | -226.5      |
| 09:44:54           | 0.0          | 484.4        | -2664.7       | -254.2    | -226.4      |
| 09:45:04           | 0.0          | 485.5        | -2665.0       | -254.3    | -226.6      |
| 09:45:14           | 0.0          | 486.8        | -2664.8       | -254.1    | -225.7      |
| 09:45:24           | 0.0          | 487.6        | -2664.6       | -254.3    | -226.4      |
| 09:45:34           | 0.0          | 488.3        | -2664.7       | -254.3    | -226.4      |
| 09:45:44           | -0.0         | 488.8        | -2664.8       | -254.3    | -226.4      |
| 09:45:54           | 0.0          | 489.4        | -2665.1       | -254.3    | -226.4      |
| 09:46:04           | 0.0          | 490.3        | -2664.9       | -254.2    | -225.7      |
| 09:46:14           | 0.0          | 491.0        | -2664.9       | -254.2    | -226.4      |
| 09:46:24           | 0.0          | 491.8        | -2664.7       | -254.3    | -226.4      |
| 09:46:34           | 0.0          | 492.4        | -2664.9       | -254.3    | -226.3      |
| 09:46:44           | 0.0          | 493.1        | -2665.1       | -254.3    | -226.4      |
| 09:46:54           | 0.0          | 493.7        | -2665.1       | -254.3    | -226.4      |
| 09:47:04           | 0.0          | 494.2        | -2665.1       | -254.3    | -226.4      |
| 09:47:14           | -0.0         | 494.8        | -2664.9       | -254.3    | -226.4      |
| 09:47:24           | 0.0          | 494.9        | -2665.2       | -254.3    | -226.5      |
| 09:47:34           | 0.2          | 495.3        | -2665.1       | -254.6    | -226.9      |
| 09:47:44           | 1.0          | 495.9        | -2665.2       | -254.4    | -226.5      |
| 09:47:54           | 0.6          | 496.3        | -2665.3       | -254.4    | -226.5      |
| 09:48:04           | 0.1          | 496.9        | -2665.2       | -254.4    | -226.4      |
| 09:48:14           | 0.0          | 497.4        | -2664.8       | -254.1    | -225.0      |
| 09:48:24           | 0.0          | 497.9        | -2664.3       | -254.2    | -226.5      |
| 09:48:34           | 0.3          | 498.4        | -2664.6       | -254.2    | -226.4      |
| 09:48:44           | 1.1          | 498.8        | -2665.0       | -254.3    | -226.5      |
| 09:48:54           | 1.1          | 498.9        | -2665.2       | -254.3    | -226.5      |
| 09:49:04           | 1.0          | 498.9        | -2665.0       | -254.1    | -225.8      |
| 09:49:14           | -0.0         | 499.3        | -2665.1       | -254.2    | -226.4      |
| 09:49:24           | 0.0          | 499.5        | -2665.1       | -254.3    | -226.4      |
| 09:49:34           | 0.0          | 499.9        | -2665.3       | -254.3    | -226.4      |
| 09:49:44           | 0.0          | 500.3        | -2665.2       | -254.3    | -226.4      |
| 09:49:54           | -0.0         | 501.1        | -2665.2       | -254.3    | -226.4      |
| 09:50:04           | 0.0          | 501.3        | -2665.0       | -254.3    | -226.4      |

Test #: In 204 stv.

| 04-01-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 09:50:14           | 0.0          | 501.8        | -2664.6       | -254.4    | -226.5      |
| 09:50:24           | 0.0          | 501.8        | -2664.3       | -254.1    | -225.6      |
| 09:50:34           | 0.0          | 502.0        | -2664.5       | -254.2    | -226.4      |
| 09:50:44           | 0.0          | 502.1        | -2664.7       | -254.3    | -226.6      |
| 09:50:54           | 0.0          | 502.2        | -2664.6       | -254.3    | -226.4      |
| 09:51:04           | -0.0         | 502.3        | -2664.5       | -254.3    | -226.3      |
| 09:51:14           | -0.0         | 502.3        | -2664.5       | -254.1    | -225.7      |
| 09:51:24           | 0.0          | 502.4        | -2664.2       | -254.2    | -226.5      |
| 09:51:34           | 0.0          | 502.9        | -2664.4       | -254.2    | -226.4      |
| 09:51:44           | -0.0         | 503.6        | -2664.5       | -254.3    | -226.1      |
| 09:51:54           | 0.0          | 503.4        | -2664.1       | -254.0    | -225.6      |
| 09:52:04           | 0.0          | 503.5        | -2664.3       | -254.2    | -226.5      |
| 09:52:14           | 0.0          | 504.1        | -2664.4       | -254.2    | -226.4      |
| 09:52:24           | 0.0          | 504.6        | -2664.5       | -254.2    | -226.4      |
| 09:52:34           | 0.0          | 504.3        | -2664.7       | -254.3    | -226.6      |
| Avg =              | 0.1          | 494.3        | -2664.8       | -254.3    | -226.4      |

4/1/97

Tower test on @ 1450

Tower hung @ 1453

1504 - Increased back pressure from 6.7 → 7 @ out

1506 - Let the pump turned on

1520 - Styrene out of enclosure

11.99g migrated =  $0.115 \frac{11.5}{100}$  moles

Post Tower test  $\sqrt{p}$

|     |     |     |     |
|-----|-----|-----|-----|
| H 1 | .17 | V 1 | .17 |
| 2   | .19 | 2   | .19 |
| 3   | .20 | 3   | .19 |
| 4   | .20 | 4   | .19 |
| 5   | .18 | 5   | .19 |
| 6   | .19 | 6   | .20 |
| 7   | .18 | 7   | .19 |
| 8   | .17 | 8   | .19 |

$T_s = 66$

$P_2 = 32.2$

$\sqrt{DP} = 4321$

28 f/s

3013 AcFm

4/1/97  
Towel test  
Back Pressure Increased  
@ 1504 on outlet THC

RADIAN CORPORATION  
Environmental Measurement and Analysis Department  
Continuous Emissions Monitoring Data  
US Marine  
Arlington, WA  
Performed for: NMMA  
Date Printed = 04-01-1997 Current Time = 14:50:13  
File Name = c:\cemdata\040197.PRN Calibration File: c:\cemdata\0331A.CAL

Test #: Towel Test

| 04-01-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 14:50:47           | 0.0          | -0.3         | 0.2           | -253.1    | -225.7      |
| 14:51:47           | 0.0          | -0.3         | 0.2           | -252.6    | -224.9      |
| 14:52:47           | 0.0          | -0.3         | 0.2           | -252.6    | -224.8      |
| 14:53:47           | 10.8         | -0.3         | 0.2           | -252.5    | -224.9      |
| 14:54:47           | 44.5         | -0.3         | 0.2           | -252.5    | -224.7      |
| 14:55:47           | 76.9         | -0.3         | 0.2           | -252.5    | -225.1      |
| 14:56:47           | 102.6        | -0.3         | 0.2           | -252.7    | -225.1      |
| 14:57:47           | 130.3        | -0.3         | 0.2           | -252.8    | -225.1      |
| 14:58:47           | 153.5        | -0.3         | 0.2           | -252.7    | -225.0      |
| 14:59:47           | 183.0        | -0.3         | 0.2           | -252.7    | -225.0      |
| 15:00:47           | 201.1        | -0.3         | 0.2           | -252.7    | -225.0      |
| 15:01:47           | 200.4        | -0.3         | 0.2           | -252.6    | -224.9      |
| 15:02:47           | 211.8        | -0.3         | 0.2           | -252.5    | -224.6      |
| 15:03:47           | 236.1        | -0.3         | 0.2           | -252.6    | -224.9      |
| 15:04:47           | 248.5        | -0.3         | 0.2           | -252.4    | -224.7      |
| 15:05:47           | 297.9        | -0.3         | 0.2           | -252.5    | -224.8      |
| 15:06:47           | 305.1        | 1.1          | 0.2           | -252.5    | -224.9      |
| 15:07:47           | 314.5        | 2.1          | 0.2           | -252.4    | -224.8      |
| 15:08:47           | 304.3        | 1.9          | 0.2           | -252.4    | -224.8      |
| 15:09:47           | 268.8        | 1.9          | 0.2           | -252.4    | -224.7      |
| 15:10:47           | 291.2        | 1.9          | 0.2           | -252.5    | -224.9      |
| 15:11:47           | 302.3        | 1.9          | 0.2           | -252.5    | -224.8      |
| 15:12:47           | 317.6        | 1.8          | 0.2           | -252.5    | -224.9      |
| 15:13:47           | 257.1        | 1.8          | 0.2           | -252.4    | -224.8      |



|          |       |     |     |        |        |
|----------|-------|-----|-----|--------|--------|
| 15:14:47 | 258.2 | 1.8 | 0.2 | -252.4 | -224.8 |
| 15:15:47 | 268.7 | 1.8 | 0.2 | -252.4 | -224.6 |
| 15:16:47 | 254.0 | 1.8 | 0.2 | -252.4 | -224.8 |
| 15:17:47 | 262.5 | 1.7 | 0.2 | -252.4 | -224.8 |
| 15:18:47 | 272.1 | 1.7 | 0.2 | -252.4 | -224.7 |
| 15:19:47 | 257.9 | 1.7 | 0.2 | -252.3 | -224.6 |
| 15:20:47 | 205.1 | 1.8 | 0.2 | -252.4 | -224.7 |
| 15:21:47 | 192.4 | 1.7 | 0.2 | -252.5 | -225.0 |
| 15:22:47 | 180.5 | 1.7 | 0.2 | -252.5 | -224.9 |
| 15:23:47 | 127.3 | 1.7 | 0.2 | -252.4 | -224.8 |
| 15:24:47 | 107.7 | 1.7 | 0.2 | -252.5 | -225.0 |
| 15:25:47 | 88.0  | 1.7 | 0.2 | -252.5 | -224.9 |
| 15:26:47 | 78.4  | 1.7 | 0.2 | -252.4 | -224.9 |
| 15:27:47 | 63.5  | 1.7 | 0.2 | -252.5 | -225.0 |
| 15:28:47 | 54.3  | 1.7 | 0.2 | -252.6 | -225.1 |
| 15:29:47 | 46.1  | 1.6 | 0.2 | -252.5 | -224.9 |

Test #: Towel Test

| 04-01-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 15:30:47           | 39.5         | 1.6          | 0.2           | -252.5    | -225.1      |
| 15:31:47           | 33.2         | 1.6          | 0.2           | -252.6    | -225.1      |
| 15:32:47           | 27.0         | 1.6          | 0.2           | -252.4    | -224.7      |
| 15:33:47           | 19.6         | 1.6          | 0.2           | -252.6    | -225.1      |
| 15:34:47           | 16.0         | 1.6          | 0.2           | -252.5    | -224.8      |
| 15:35:47           | 13.5         | 1.6          | 0.2           | -252.6    | -225.1      |
| 15:36:47           | 11.0         | 1.6          | 0.2           | -252.6    | -225.0      |
| 15:37:47           | 9.5          | 1.6          | 0.2           | -252.6    | -225.1      |
| 15:38:47           | 8.0          | 1.6          | 0.2           | -252.6    | -224.9      |
| 15:39:47           | 7.1          | 1.6          | 0.2           | -252.6    | -225.0      |
| 15:40:47           | 6.4          | 1.6          | 0.2           | -252.6    | -224.9      |
| 15:41:47           | 5.7          | 1.5          | 0.2           | -252.6    | -225.0      |
| 15:42:47           | 5.0          | 1.5          | 0.2           | -252.6    | -225.0      |
| 15:43:47           | 5.0          | 1.5          | 0.2           | -252.5    | -224.8      |
| 15:44:47           | 4.7          | 1.5          | 0.2           | -252.5    | -224.9      |
| 15:45:47           | 4.0          | 1.5          | 0.2           | -252.6    | -225.0      |
| 15:46:47           | 3.9          | 1.5          | 0.2           | -252.6    | -225.0      |
| 15:47:47           | 3.9          | 1.5          | 0.2           | -252.6    | -225.0      |
| 15:48:47           | 3.8          | 1.5          | 0.2           | -253.2    | -226.2      |
| 15:49:47           | 3.0          | 1.5          | 0.2           | -252.7    | -225.0      |
| 15:50:47           | 2.9          | 1.5          | 0.2           | -252.8    | -225.4      |
| 15:51:47           | 1.9          | 1.5          | 0.2           | -252.8    | -225.4      |
| 15:52:47           | 1.9          | 1.5          | 0.2           | -252.7    | -225.0      |
| 15:53:47           | 1.9          | 1.6          | 0.2           | -252.7    | -225.0      |
| 15:54:47           | 1.7          | 1.5          | 0.2           | -252.7    | -225.1      |
| 15:55:47           | 1.3          | 1.5          | 0.2           | -252.6    | -224.9      |
| Avg =              | 112.4        | 1.2          | 0.2           | -252.6    | -225.0      |

4/1/97

Post Towel Test THC  
Zero & Span, in Post

RADIAN CORPORATION  
Environmental Measurement and Analysis Department  
Continuous Emissions Monitoring Data  
US Marine  
Arlington, WA  
Performed for: NMMA  
Date Printed = 04-01-1997 Current Time = 16:15:59  
File Name = c:\cemdata\040197.PRN Calibration File: c:\cemdata\0331A.CAL

Test #: Post Out 914ppm

| 04-01-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 16:16:03           | 914.6        | 1.6          | -0.0          | -253.0    | -227.2      |
| 16:16:07           | 916.1        | 1.5          | -0.0          | -254.7    | -230.5      |
| 16:16:17           | 916.2        | 1.4          | -0.0          | -251.8    | -224.6      |
| 16:16:27           | 917.1        | 1.4          | -0.0          | -251.7    | -224.7      |
| 16:16:37           | 917.1        | 1.4          | -0.0          | -251.7    | -224.7      |
| 16:16:47           | 917.3        | 1.5          | -0.0          | -251.7    | -224.7      |
| 16:16:57           | 918.2        | 1.5          | -0.0          | -251.7    | -224.7      |
| 16:17:07           | 918.5        | 0.5          | -0.0          | -250.1    | -224.4      |
| 16:17:17           | 918.7        | 0.3          | -0.0          | -249.6    | -223.6      |
| Avg =              | 917.1        | 1.2          | -0.0          | -251.8    | -225.5      |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-01-1997 Current Time = 16:17:56

File Name = c:\cemdata\040197.PRN Calibration File:c:\cemdata\0331A.CAL

Test #: Post In Oppa

| 04-01-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 16:18:00           | 573.7        | 0.3          | -0.0          | -253.0    | -226.2      |
| 16:18:05           | 573.7        | 0.3          | -0.0          | -253.0    | -226.2      |
| 16:18:07           | 9.0          | 0.1          | -0.0          | -257.0    | -248.3      |
| 16:18:17           | 9.0          | 0.2          | -0.0          | -253.3    | -226.0      |
| 16:18:27           | 23.9         | 0.2          | -0.0          | -253.1    | -225.3      |
| 16:18:37           | 102.1        | 0.2          | -0.0          | -253.2    | -226.0      |
| 16:18:47           | 132.7        | 0.2          | -0.0          | -253.2    | -225.9      |
| 16:18:57           | 63.6         | 0.2          | -0.0          | -253.3    | -225.9      |
| 16:19:07           | 12.1         | 0.2          | -0.0          | -253.3    | -226.0      |
| 16:19:17           | 1.9          | 0.2          | -0.0          | -253.3    | -225.9      |
| 16:19:27           | 1.9          | 0.2          | -0.0          | -253.4    | -226.0      |
| 16:19:37           | 1.9          | 0.2          | -0.0          | -253.4    | -225.9      |
| 16:19:47           | 1.9          | 0.2          | -0.0          | -253.4    | -225.9      |
| 16:19:57           | 1.1          | 0.3          | -0.0          | -253.3    | -225.9      |
| 16:20:07           | 1.1          | 0.3          | -0.0          | -253.3    | -225.9      |
| 16:20:17           | 1.1          | 0.3          | -0.0          | -253.3    | -225.9      |
| 16:20:27           | 1.1          | 0.3          | -0.0          | -253.3    | -225.9      |
| 16:20:37           | 1.1          | 0.3          | -0.0          | -253.4    | -225.9      |
| 16:20:47           | 1.1          | 0.3          | -0.0          | -253.4    | -226.0      |
| 16:20:57           | 1.1          | 0.3          | -0.0          | -253.3    | -225.9      |
| 16:21:07           | 1.1          | 0.3          | -0.0          | -253.3    | -225.9      |
| Avg =              | 72.2         | 0.2          | -0.0          | -253.5    | -227.0      |

## RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for:

NMMA

Date Printed = 04-01-1997 Current Time = 16:24:56

File Name = c:\cemdata\040197.PRN Calibration File: c:\cemdata\0331A.CAL

Test #:

| 04-01-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 16:24:59           | 0.0          | 45.1         | -0.0          | -254.0    | -227.7      |
| 16:25:01           | 0.0          | 45.1         | -0.0          | -254.0    | -227.7      |
| 16:25:02           | 0.0          | 45.1         | -0.0          | -254.0    | -227.7      |
| 16:25:07           | 0.0          | 45.5         | -0.0          | -254.6    | -228.8      |
| 16:25:17           | 0.0          | 45.6         | -0.0          | -253.3    | -226.2      |
| 16:25:27           | 0.0          | 45.7         | -0.0          | -253.2    | -225.6      |
| 16:25:37           | 0.0          | 45.7         | -0.0          | -253.3    | -226.2      |
| 16:25:47           | 0.0          | 45.6         | -0.0          | -253.3    | -226.2      |
| 16:25:57           | 0.0          | 45.6         | -0.0          | -253.1    | -225.5      |
| 16:26:07           | 0.0          | 45.6         | -0.0          | -253.2    | -226.2      |
| 16:26:17           | 0.0          | 45.5         | -0.0          | -253.3    | -226.2      |
| 16:26:27           | 0.0          | 45.6         | -0.0          | -253.3    | -226.2      |
| 16:26:37           | 0.0          | 45.6         | -0.0          | -253.4    | -226.3      |
| 16:26:47           | 0.0          | 45.7         | -0.0          | -253.4    | -226.3      |
| 16:26:57           | 0.0          | 45.9         | -0.0          | -253.4    | -226.3      |
| 16:27:07           | 0.0          | 45.8         | -0.0          | -253.4    | -226.3      |
| 16:27:17           | 0.0          | 45.8         | -0.0          | -253.5    | -226.4      |
| Avg =              | 0.0          | 45.6         | -0.0          | -253.5    | -226.6      |

**April 2, 1997**  
**Preliminary Gelcoat**  
**18-ft Deck**

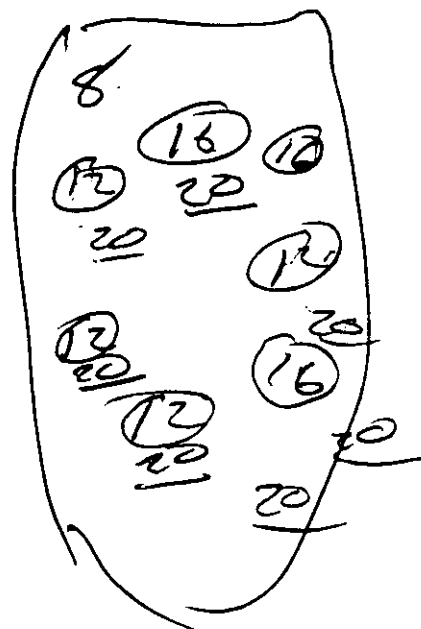
30 SEC.

9ELCONT TEST RUN 0  
(USMARAD 9ELCONT)  
18 PERK

|                    |        |
|--------------------|--------|
| 0                  | 668.2  |
| 1:30               | 667.4  |
| 1:00               | 666.8  |
| 1:30               | 665.8  |
| 2:00               | 665.6  |
| 1 min              | 665.4  |
| 11:22 <del>4</del> | 664.6  |
| 11:23              | 663.4  |
| 11:24              | 662.12 |
| 11:25              | 661.8  |
| 11:26              | 661.0  |
| 11:27              | 660.0  |
| 11:28              | 659.4  |
| 11:29              | 658.0  |
| 11:30              | 657.4  |
| 11:31              | 655.8  |
| 11:32              | 655.4  |
| 11:33              | 654.2  |
| 11:34              | 653.6  |
| 11:35              | 652.4  |
| 11:36              | 652.2  |
| 11:37              | 651.6  |
| 11:38              | 651.4  |
| 11:39              | 650.4  |
| 11:40              | 649.6  |
| 11:41              | 647.4  |
| 11:42              | 647.2  |
| 11:43              | 647.0  |

BRUSH

BRUSH



4/2/97

Run #Comments

|    |                      |
|----|----------------------|
| 29 | 59 ppm STY           |
| 30 | 59 ppm Sty           |
| 31 | 59.2 ppm Sty         |
| 32 | 59.2 " "             |
| 33 | 122 ppm Sty          |
| 34 | 122                  |
| 35 | 122                  |
| 36 | 204 ppm Sty          |
| 37 | 204                  |
| 38 | 204                  |
| 39 | 204                  |
| 40 | 204                  |
| 41 | 204                  |
| 42 | 0402-1-1 (THC = 166) |

Dumped cal, MMA not in calibration

1 0402-1-2 @ 1135 THC ~ 205

Gel coat under @ 1143

2 0402-1-3 @ 1155

3 -4 1153

4 0402-1-5 1159

5 0402-1-6 1205 (85 THC)

6 0402-1-7 1215 (69 THC)

7 0402-1-8 1230 (53 THC)

8 0402-1-9 1246 (32 THC)

9 0402-1-10 1255 (23 THC)

10 0402-1-11 1305 (18 THC)

11 MMA Bag 1 (45.6 ppm)

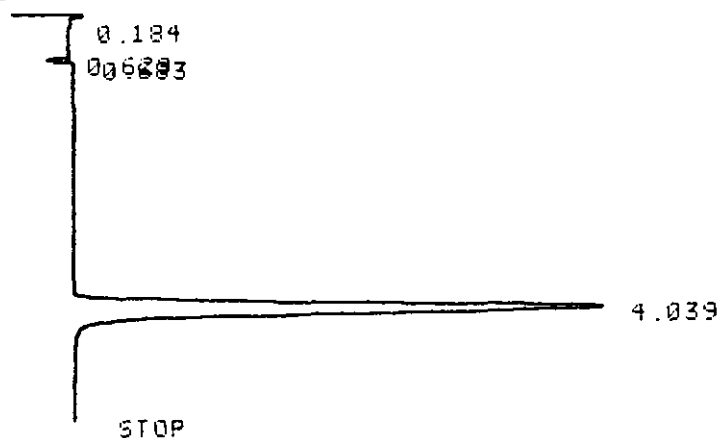
(over)

Gel coating  
@ 1115

|    |                                       |
|----|---------------------------------------|
| 12 | Br-1                                  |
| 13 | Cal check - Response for cal'ed peaks |
| 14 | N <sub>2</sub>                        |
| 15 | N <sub>2</sub>                        |
| 16 | 122 STM                               |
| 17 | 122 sty                               |
| 18 | 204 sty.                              |
| 19 | ↓ ↓                                   |
| 20 |                                       |
| 21 | 122 S <sub>2</sub> .2 sty             |
| 22 | 122 S <sub>2</sub> .2 sty             |
| 23 | 122 sty                               |
| 24 | 45.6 mmA                              |



\* RUN # 29 APR 2, 1997 08:35:29  
START



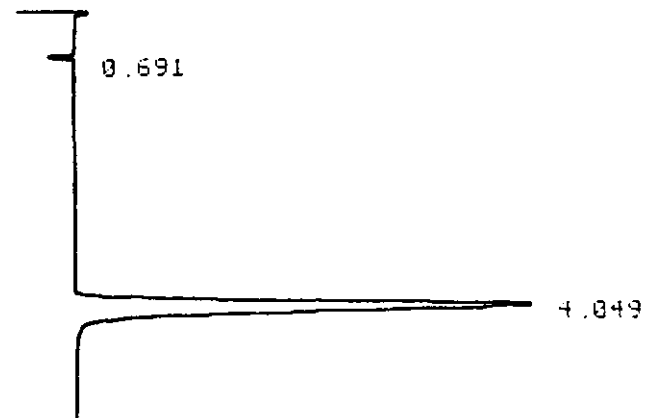
RUN# 29 APR 2, 1997 08:35:29

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.039 | 2570066 | PB   | 1R   | 54.182 |

TOTAL AREA=2655898  
MUL FACTOR=1.0000E+00

\* RUN # 30 APR 2, 1997 08:41:52  
START



STOP

RUN# 30 APR 2, 1997 08:41:52

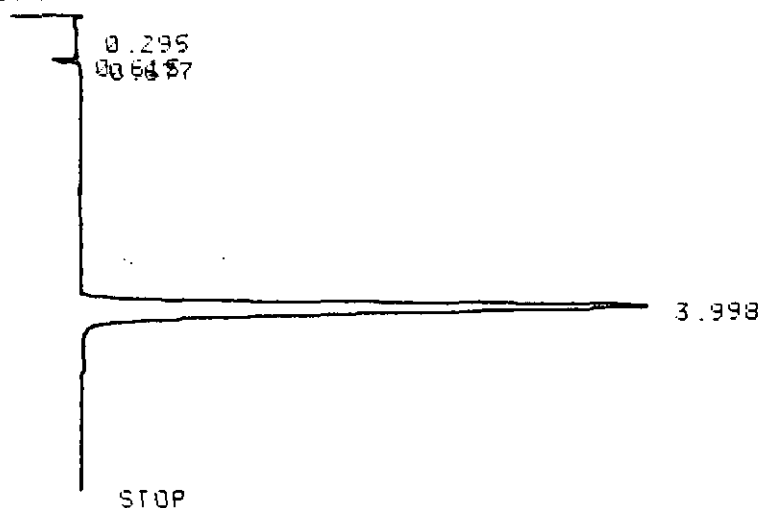
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.049 | 2218362 | BB   | 1R   | 46.767 |

TOTAL AREA=2337166  
MUL FACTOR=1.0000E+00

\* RUN # 31 APR 2, 1997 08:48:57

START



STOP

RUN# 31 APR 2, 1997 08:48:57

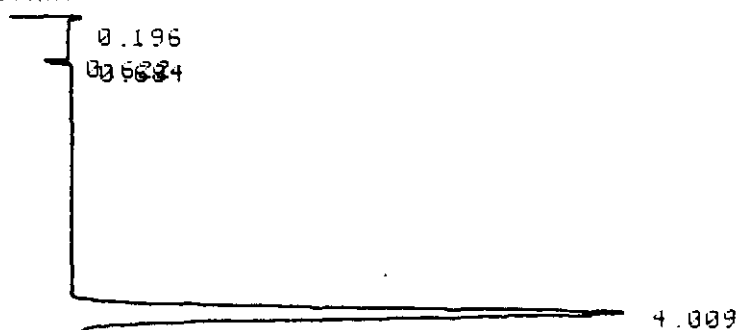
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 3.998 | 2742040 | PB   | 1R   | 57.807 |

TOTAL AREA=2878750  
MUL FACTOR=1.0000E+00

\* RUN # 32 APR 2, 1997 08:56:41

START



4.009

STOP

RUN# 32 APR 2, 1997 08:56:41

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.009 | 2664045 | BB   | 1R   | 56.163 |

TOTAL AREA=2778941

MUL FACTOR=1.0000E+00

\* RUN # 33 APR 2, 1997 09:16:37

START

0.226

00.6178

3.982

STOP

RUN# 33 APR 2, 1997 09:16:37

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.982 | 4978474 | BB   | 1R   | 104.955 |

TOTAL AREA=5176611  
MUL FACTOR=1.0000E+00

\* RUN # 34 APR 2, 1997 09:24:00

START

0.346  
0.5893

3.964

STOP

RUN# 34 APR 2, 1997 09:24:00

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.964 | 5453738 | PB   | 1R   | 114.974 |

TOTAL AREA=5669331  
MUL FACTOR=1.0000E+00

\* RUN # 35 APR 2, 1997 09:54:33  
START

0.260  
006679

4.002

STOP

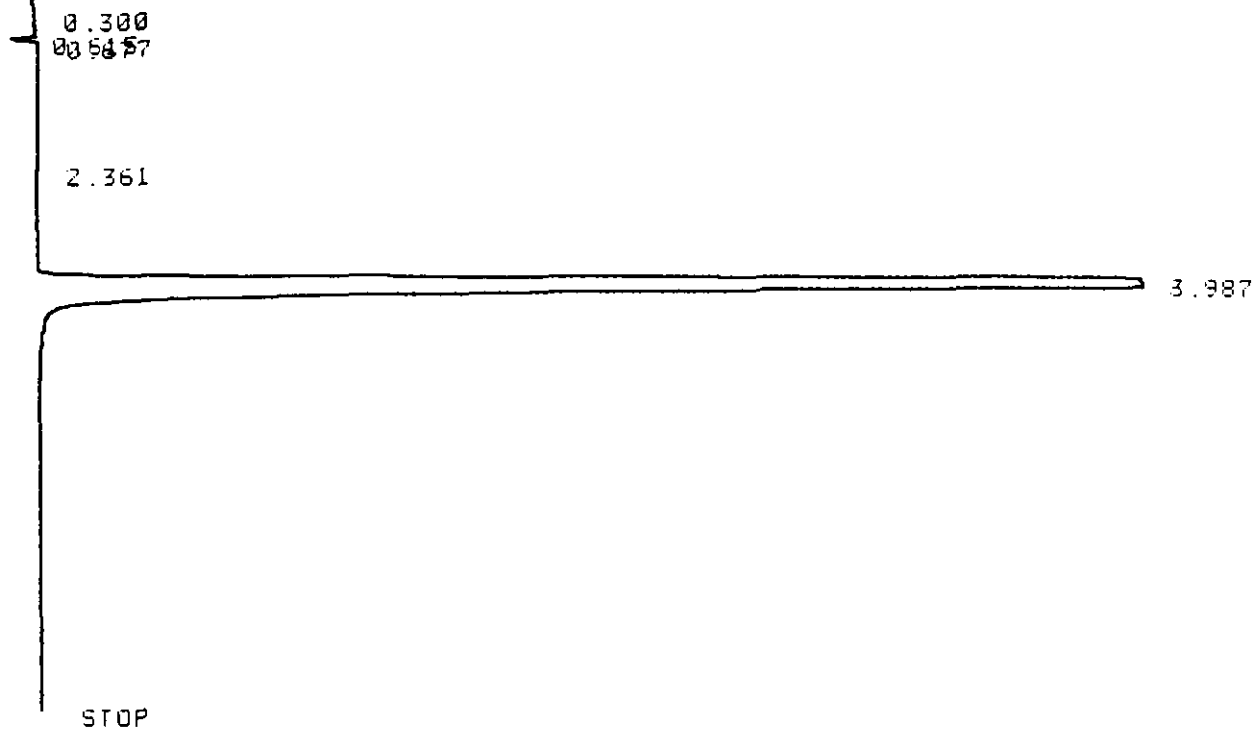
RUN# 35 APR 2, 1997 09:54:33

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 4.002 | 4862749 | PB   | 1R   | 102.515 |

TOTAL AREA=5064733  
MUL FACTOR=1.0000E+00

\* RUN # 36 APR 2, 1997 10:02:19  
START



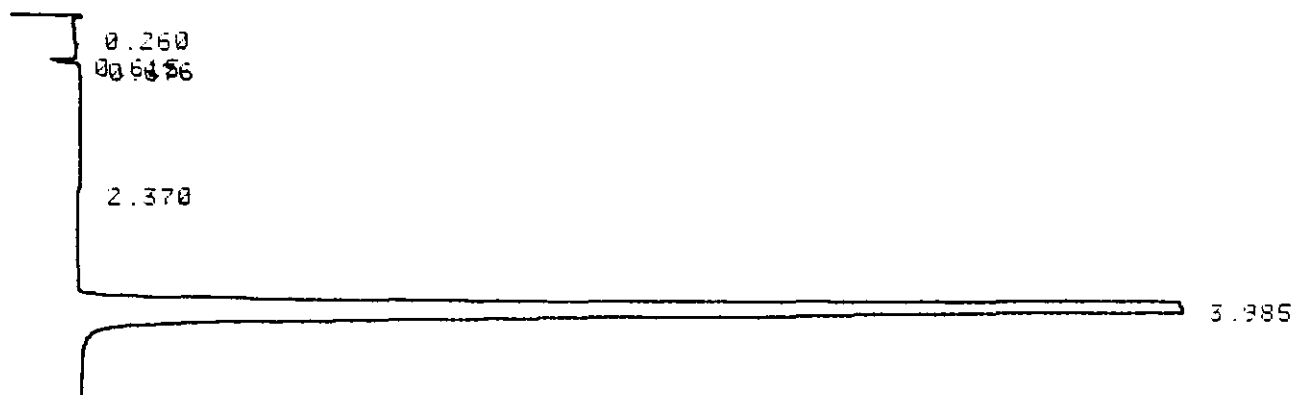
RUN# 36 APR 2, 1997 10:02:19

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.987 | 8525088 | PB   | 1R   | 179.724 |

TOTAL AREA=8.5580E+06  
MUL FACTOR=1.0000E+00

\* RUN # 37 APR 2, 1997 10:12:51  
START



STOP

RUN# 37 APR 2, 1997 10:12:51

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.985 | 9230266 | P8   | 1R   | 194.590 |

TOTAL AREA=9.4870E+06

MUL FACTOR=1.0000E+00

\* RUN # 38 APR 2, 1997 10:23:30

START

0.275  
00.6177

4.004

STOP

RUN# 38 APR 2, 1997 10:23:30

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 4.004 | 7833027 | P8   | 1R   | 165.134 |

TOTAL AREA=7958646

MUL FACTOR=1.0000E+00

\* RUN # 39 APR 2, 1997 10:32:05

0.243  
0.681

4.006

STOP

RUN# 39 APR 2, 1997 10:32:05

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 4.006 | 8275040 | P8   | 1R   | 174.453 |

TOTAL AREA=8.4370E+06  
MUL FACTOR=1.0000E+00

\* RUN # 40 APR 2, 1997 10:41:57  
START

0.380  
0.5874

3.977

STOP

RUN# 40 APR 2, 1997 10:41:57

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.977 | 8969120 | P8   | 1R   | 189.085 |

TOTAL AREA=8.4370E+06  
MUL FACTOR=1.0000E+00



MUL FACTOR=1.0000E+00

\* RUN # 41 APR 2, 1997 10:49:54  
START

0.247  
005476

1.322

2.388

4.002

STOP

RUN# 41 APR 2, 1997 10:49:54

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 4.002 | 8339770 | PB   | 1R   | 175.817 |

TOTAL AREA=8.5905E+06

MUL FACTOR=1.0000E+00

\* RUN # 42 APR 2, 1997 11:27:08  
START

0.383  
0.602  
1.071  
1.454

1.790

3.745

3.945

STOP

RUN# 42 APR 2, 1997 11:27:08

## ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 3.945 | 3523250 | PB   | 1R   | 74.276 |

TOTAL AREA=4580634  
MUL FACTOR=1.0000E+00

\* PREP CALIB @  
CALIB EXISTS

\* EDIT CALIB @

1 = CALIB PROCEDURE  
2 = RETENTION TIME WINDOWS  
3 = TABLE ENTRIES  
4 = PEAK GROUPS  
5 = CALIB OPTIONS

SECTION TO BE EDITED: 3

CAL#: 1  
RT: 1.79  
AMT: 50  
AMT/AREA: BREAK

\*  
! " # \$ % & ' ( ) \* + , - . / 0 1 2 3 4 5 6 7 8 9 : ; < = > ? @ A B C D E F G H I J K L M N O P Q R S T U V W X Y Z \ ] ^ \_ ` a b c d e f g h i j k l m n o p q r s t u v w x y z { | } ~ : ; < = > ? @ A B C D E F G H I J K L M N O P Q R S T U V W X Y Z \ ] ^ \_ ` a b c d e

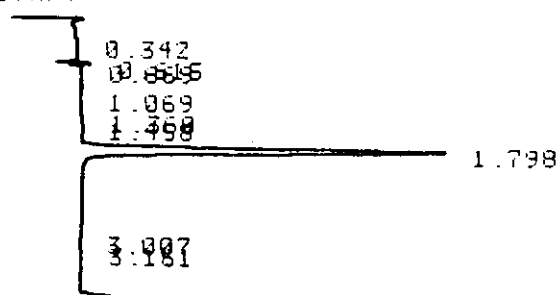
Performing self test; unit will  
accept commands when KEYBD led is ON

Model 3396B Rev B.02.00 2/14/91  
Z80/HOST/INET/PP Rev = I/B/L/I w/ GC\_02B

\* ATT 2^ 6 @  
\* LIST: LIST  
PEAK CAPACITY: 1244

ZERO = 0, -0.455  
ATT 2^ = 6  
CHT SP = 1.0  
AR REJ = 0  
THRS = 0  
PK WD = 0.04

\* RUN # 1 JAN 1, 1901 00:00:37  
START



STOP

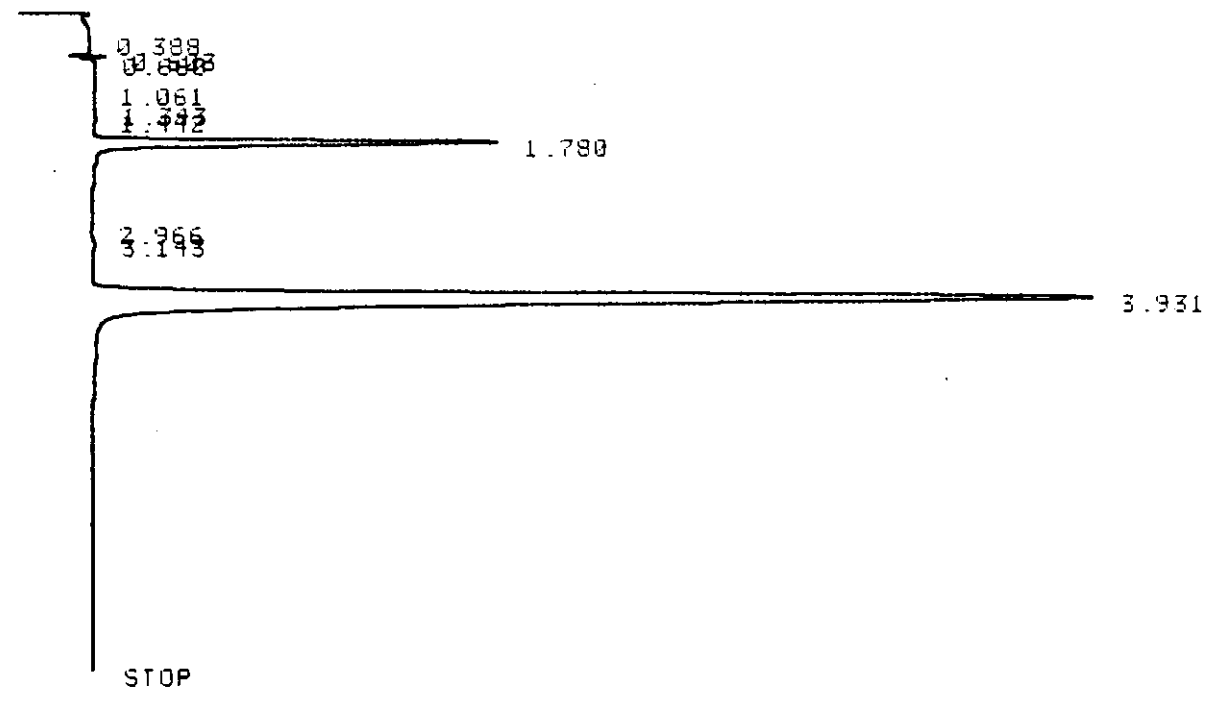
RUN# 1 JAN 1, 1901 00:00:37

AREA%

| RT    | AREA    | TYPE | WIDTH | AREA%    |
|-------|---------|------|-------|----------|
| .342  | 83842   | BU   | .192  | 1.43171  |
| .615  | 17538   | PU   | .018  | .29948   |
| .669  | 98973   | UU   | .136  | 1.69009  |
| 1.069 | 59401   | UU   | .126  | 1.01435  |
| 1.360 | 42132   | UU   | .124  | .71946   |
| 1.459 | 22972   | UU   | .094  | .39228   |
| 1.798 | 829037  | UB   | .081  | 14.15685 |
| 3.007 | 2885    | PU   | .109  | .04927   |
| 3.161 | 12629   | UU   | .158  | .21566   |
| 3.958 | 4366886 | PB   | .174  | 74.57011 |
| 6.260 | 319787  | PU   | .383  | 5.46077  |

TOTAL AREA=5856083  
MUL FACTOR=1.0000E+00

\* RUN # 2 JAN 1, 1901 00:07:18  
START



RUN# 2 JAN 1, 1901 00:07:18

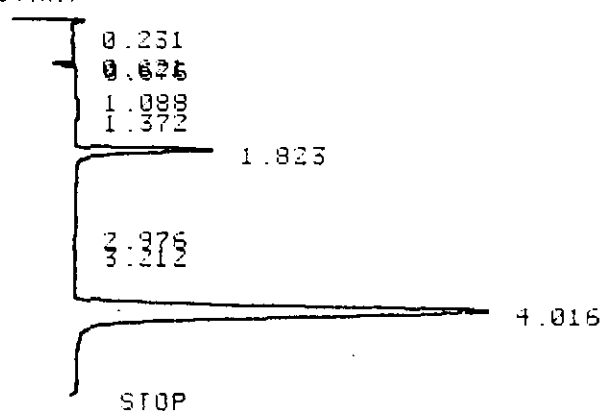
AREA%

| RT    | AREA   | TYPE | WIDTH | AREA%   |
|-------|--------|------|-------|---------|
| .388  | 142256 | BU   | .271  | 2.29414 |
| .603  | 21023  | PU   | .019  | .33903  |
| 1.061 | 106112 | UU   | .111  | 1.06112 |

|       |         |    |      |          |
|-------|---------|----|------|----------|
| 1.061 | 64707   | UU | .132 | 1.04352  |
| 1.343 | 42269   | UU | .117 | .68167   |
| 1.442 | 25721   | UU | .101 | .41480   |
| 1.780 | 924670  | UB | .081 | 14.91200 |
| 2.966 | 3634    | PU | .126 | .05860   |
| 3.143 | 12822   | UU | .154 | .20678   |
| 3.931 | 4857696 | PB | .173 | 78.33923 |

TOTAL AREA=6200845  
MUL FACTOR=1.0000E+00

\* RUN # 3 JAN 1, 1901 00:17:10  
START



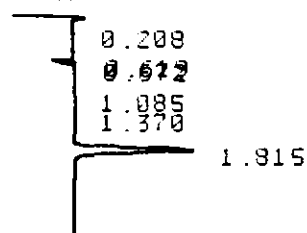
RUN# 3 JAN 1, 1901 00:17:10

AREA%

| RT    | AREA    | TYPE | WIDTH | AREA%    |
|-------|---------|------|-------|----------|
| .231  | 23238   | BU   | .116  | .90062   |
| .621  | 9611    | PU   | .015  | .37249   |
| .676  | 89143   | UU   | .134  | 3.45486  |
| 1.088 | 53714   | UU   | .121  | 2.08176  |
| 1.372 | 44783   | UU   | .143  | 1.73563  |
| 1.823 | 333054  | UB   | .084  | 12.98795 |
| 2.976 | 525     | PU   | .056  | .02035   |
| 3.212 | 5259    | UP   | .148  | .20382   |
| 4.016 | 2020896 | PB   | .174  | 78.32253 |

TOTAL AREA=2580222  
MUL FACTOR=1.0000E+00

\* RUN # 4 JAN 1, 1901 00:22:46  
START



3.185

3.999

STOP

RUN# 4 JAN 1, 1901 00:22:46

AREA%

| RT    | AREA    | TYPE | WIDTH | AREA%    |
|-------|---------|------|-------|----------|
| .208  | 60673   | BU   | .263  | 2.38268  |
| .619  | 11597   | PV   | .016  | .45542   |
| .672  | 155866  | UU   | .234  | 6.12098  |
| 1.085 | 56832   | UU   | .152  | 2.23184  |
| 1.370 | 24937   | UU   | .122  | .97930   |
| 1.815 | 269346  | BB   | .079  | 10.57743 |
| 3.008 | 1689    | UU   | .106  | .06633   |
| 3.185 | 6037    | UU   | .156  | .23708   |
| 3.999 | 1959445 | PB   | .174  | 76.94896 |

TOTAL AREA=2546422  
 MUL FACTOR=1.0000E+00

\* RUN # 5 JAN 1, 1901 00:30:07  
 START

0.244

0.688

1.371

1.823

3.008

3.192

4.009

STOP

RUN# 5 JAN 1, 1901 00:30:07

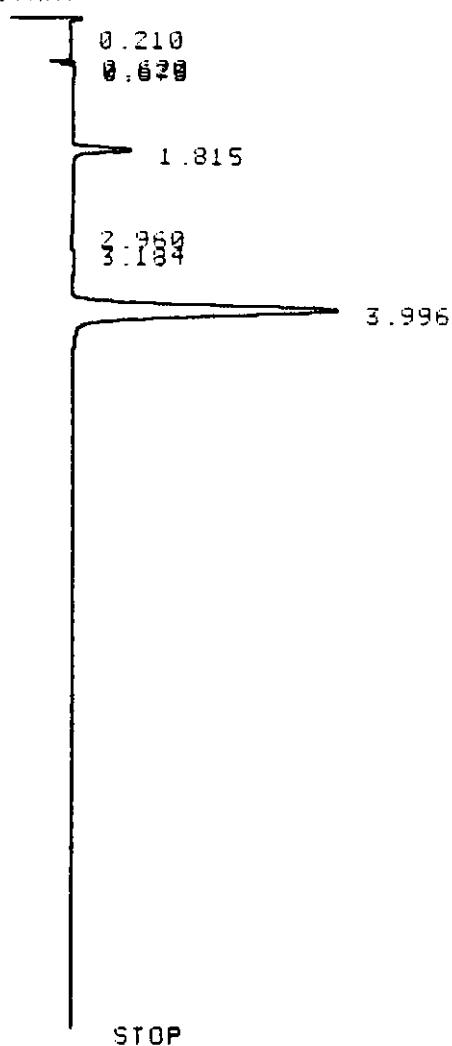
AREA%

| RT   | AREA  | TYPE | WIDTH | AREA%   |
|------|-------|------|-------|---------|
| .244 | 20154 | PV   | .107  | 1.55426 |

|       |         |      |      |          |
|-------|---------|------|------|----------|
| .625  | 11392   | PU   | .016 | .65013   |
| .680  | 109976  | I UB | .176 | 6.27621  |
| 1.371 | 688     | PU   | .066 | .03926   |
| 1.823 | 173979  | PB   | .080 | 9.92878  |
| 3.000 | 649     | PU   | .064 | .03704   |
| 3.192 | 4892    | UU   | .169 | .27918   |
| 4.009 | 1421529 | PB   | .175 | 81.12502 |

TOTAL AREA=1752269  
MUL FACTOR=1.0000E+00

\* RUN # 6 JAN 1, 1901 00:40:00  
START



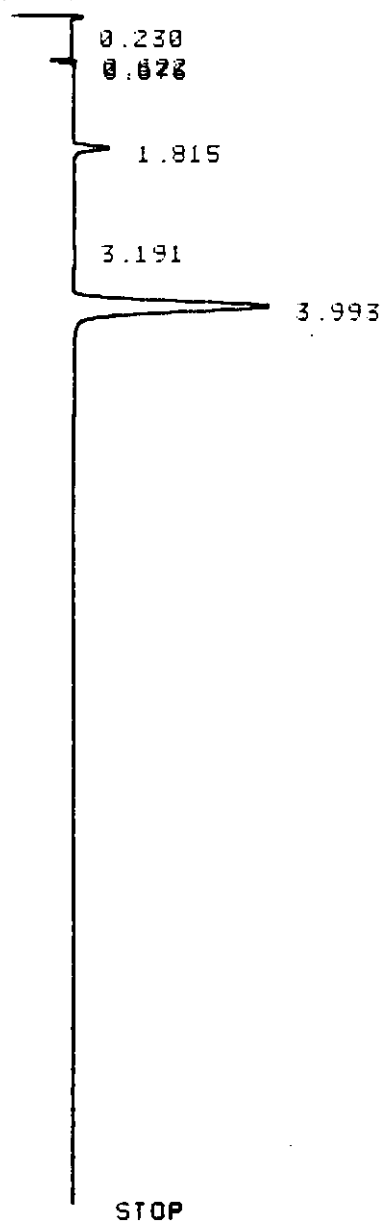
RUN# 6 JAN 1, 1901 00:40:00

AREA%

| RT    | AREA    | TYPE | WIDTH | AREA%    |
|-------|---------|------|-------|----------|
| .210  | 16510   | BU   | .212  | 1.05146  |
| .620  | 12876   | PU   | .017  | .02002   |
| .675  | 67855   | UU   | .094  | 4.32141  |
| 1.815 | 170516  | UB   | .097  | 10.85948 |
| 2.960 | 377     | PU   | .044  | .02401   |
| 3.184 | 4985    | UU   | .165  | .31747   |
| 3.996 | 1297086 | PB   | .175  | 92.60618 |

TOTAL AREA=1570205  
MUL FACTOR=1.0000E+00

\* RUN # 7 JAN 1, 1901 00:54:46  
START



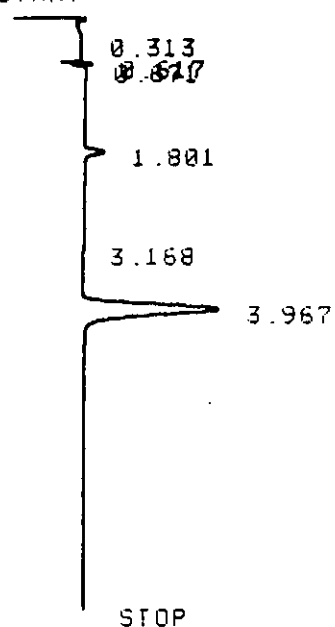
RUN# 7 JAN 1, 1901 00:54:46

| AREA% | RT    | AREA   | TYPE | WIDTH | AREA%    |
|-------|-------|--------|------|-------|----------|
|       | .230  | 25859  | BU   | .104  | 2.12786  |
|       | .622  | 11829  | PV   | .016  | .97337   |
|       | .676  | 121346 | VV   | .188  | 9.98521  |
|       | 1.815 | 83543  | PB   | .081  | 6.87451  |
|       | 3.191 | 2503   | VV   | .120  | .20596   |
|       | 3.993 | 970178 | PB   | .175  | 79.83309 |

TOTAL AREA=1215258  
MUL FACTOR=1.0000E+00

15

\* RUN # 8 JAN 1, 1901 01:11:39  
START



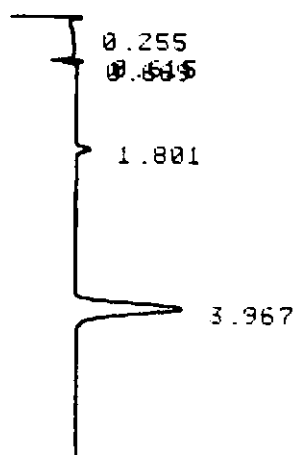
RUN# 8 JAN 1, 1901 01:11:39

AREA%

| RT    | AREA   | TYPE | WIDTH | AREA%    |
|-------|--------|------|-------|----------|
| .313  | 71483  | BU   | .173  | 5.22820  |
| .617  | 16547  | PU   | .017  | 1.21023  |
| .671  | 190498 | UU   | .253  | 13.93284 |
| 1.801 | 234789 | UU   | .213  | 17.17224 |
| 3.168 | 49575  | UU   | .153  | 3.62587  |
| 3.967 | 804367 | UU   | .200  | 58.83062 |

TOTAL AREA=1367259  
MUL FACTOR=1.0000E+00

\* RUN # 9 JAN 1, 1901 01:20:30  
START





STOP

RUN# 9 JAN 1, 1901 01:20:30

AREA%

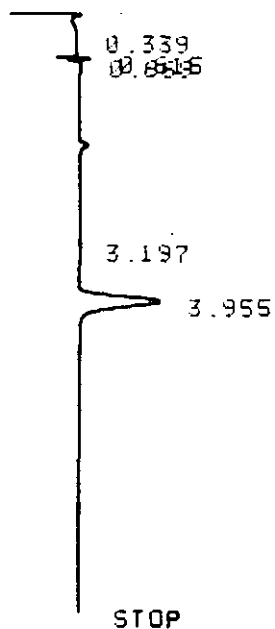
| RT    | AREA   | TYPE | WIDTH | AREA%    |
|-------|--------|------|-------|----------|
| .255  | 44290  | BU   | .130  | 6.50997  |
| .615  | 14999  | PU   | .017  | 2.20463  |
| .669  | 48586  | UB   | .095  | 7.14142  |
| 1.801 | 37589  | UU   | .084  | 5.52502  |
| 3.967 | 534877 | PU   | .177  | 78.61894 |

TOTAL AREA= 680341

MUL FACTOR=1.0000E+00

\* RUN # 10 JAN 1, 1901 01:29:37

START



RUN# 10 JAN 1, 1901 01:29:37

AREA%

| RT    | AREA   | TYPE | WIDTH | AREA%    |
|-------|--------|------|-------|----------|
| .339  | 83881  | BU   | .187  | 14.66310 |
| .615  | 17837  | PU   | .018  | 3.11806  |
| .669  | 59614  | UU   | .084  | 10.42102 |
| 3.197 | 1140   | PU   | .110  | .19928   |
| 3.955 | 409583 | PU   | .177  | 71.59853 |

TOTAL AREA= 572055

MUL FACTOR=1.0000E+00

\*DATE04/02/97

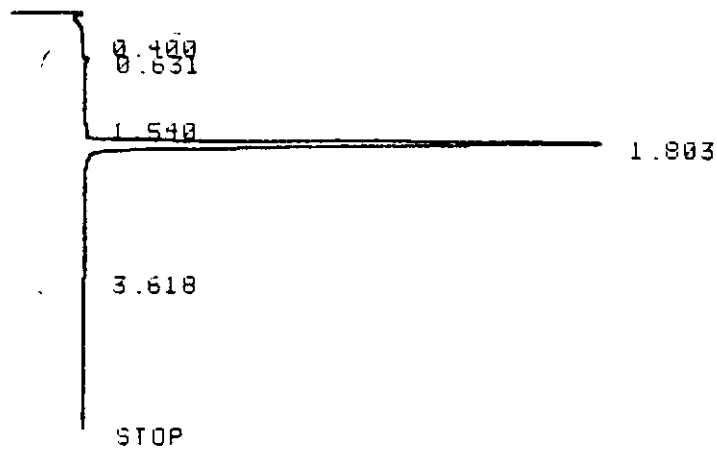
APR 2, 1997 02:02:07

\*TIME13:38:00

APR 2, 1997 13:38:00

\* RUN # 11 APR 2, 1997 13:40:23

START



RUN# 11 APR 2, 1997 13:40:23

AREA%

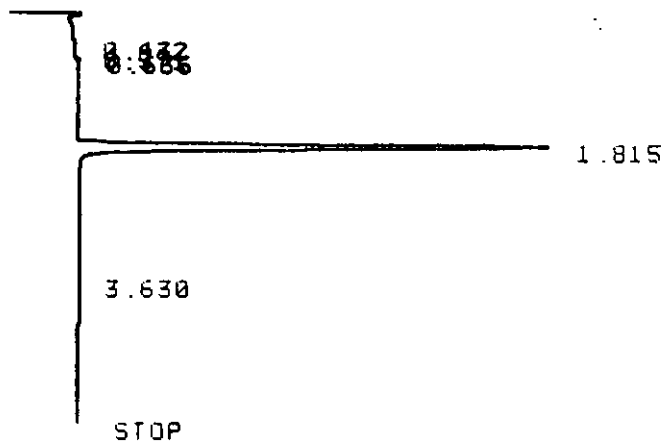
| RT    | AREA    | TYPE | WIDTH | AREA%    |
|-------|---------|------|-------|----------|
| .400  | 68037   | PU   | .315  | 5.58128  |
| .631  | 12720   | UU   | .054  | 1.04346  |
| 1.540 | 851     | UP   | .064  | .06981   |
| 1.803 | 1135671 | PB   | .079  | 93.16253 |
| 3.618 | 1742    | PU   | .113  | .14290   |

TOTAL AREA=1219021

MUL FACTOR=1.0000E+00

\* RUN # 12 APR 2, 1997 13:47:23

START



# AREA%

| RT    | AREA    | TYPE | WIDTH | AREA%    |
|-------|---------|------|-------|----------|
| .432  | 51538   | PU   | .343  | 4.62108  |
| .571  | 16749   | UU   | .128  | 1.50178  |
| .636  | 12363   | UU   | .057  | 1.10851  |
| 1.815 | 1030727 | BB   | .078  | 92.41875 |
| 3.630 | 3902    | UU   | .161  | .34987   |

TOTAL AREA=1115279  
MUL FACTOR=1.0000E+00

\* PREP CALIB @

E = EXTERNAL STANDARD  
I = INTERNAL STANDARD  
N = NORMALIZATION

CALIB PROCEDURE [E\*/I/N]:

REF % RTW [ 5.000]:  
NON-REF % RTW [ 5.000]:

RF BASED ON AREA OR HEIGHT [A\*/H]:

| CAL# | RT     | AMT   | NAME |
|------|--------|-------|------|
| 1    | :1.815 | :45.6 | :MMA |
| 2    | :      | :     | :    |

REF PK CAL#: 1  
REF PK CAL#:

GROUP PEAKS [Y/N\*]:

CALIBRATION OPTIONS

RF of uncalibrated peaks [0.0000E+00]:  
Replace calibration fit [Y/N\*]:  
Disable post-run RT update [Y/N\*]:  
SAMPLE AMT [0.0000E+00]:  
MUL FACTOR [1.0000E+00]:

\* EDIT CALIB @

1 = CALIB PROCEDURE  
2 = RETENTION TIME WINDOWS  
3 = TABLE ENTRIES  
4 = PEAK GROUPS  
5 = CALIB OPTIONS

SECTION TO BE EDITED: 3

CAL#: 2  
RT: 3.967  
AMT: 204  
AMT/AREA: .0000245  
NAME: STYRENE

CAL#:

SECTION TO BE EDITED:

\* RUN # 13 APR 2, 1997 14:01:54  
STAT

0.225  
0.669

1.826

4.019

STOP

RUN# 13 APR 2, 1997 14:01:54

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.826 | 564800  | BB   | 1R   | 24.987 |
| 4.019 | 3976866 | PB   | 2    | 97.433 |

TOTAL AREA=4588048  
MUL FACTOR=1.0000E+00

\* RUN # 14 APR 2, 1997 14:32:22  
START

0.520

STOP

RUN# 14 APR 2, 1997 14:32:22

NO CALIB PEAKS FOUND

AREA%

| RT   | AREA   | TYPE | WIDTH | AREA%    |
|------|--------|------|-------|----------|
| .541 | 135773 | PU   | .429  | 87.72112 |
| .620 | 19005  | UU   | .062  | 12.27888 |

TOTAL AREA= 154778

MUL FACTOR=1.0000E+00

\* RUN # 15 APR 2, 1997 14:46:01

START

0:00:00  
0:00:00

STOP

RUN# 15 APR 2, 1997 14:46:01

NO CALIB PEAKS FOUND

AREA%

| RT   | AREA  | TYPE | WIDTH | AREA%    |
|------|-------|------|-------|----------|
| .382 | 42306 | BU   | .300  | 68.20797 |
| .510 | 15156 | UU   | .130  | 24.43531 |
| .640 | 4563  | UU   | .053  | 7.35671  |

TOTAL AREA= 62025  
MUL FACTOR=1.0000E+00

\* RUN # 16 APR 2, 1997 14:57:42  
START

0.279  
0.6218

3.998

STOP

RUN# 16 APR 2, 1997 14:57:42

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.998 | 5186474 | PB   | 2    | 127.069 |

TOTAL AREA=5294947  
MUL FACTOR=1.0000E+00

\* RUN # 17 APR 2, 1997 15:05:15  
START

0.236  
0.683

3.995

STOP

RUN# 17 APR 2, 1997 15:05:15

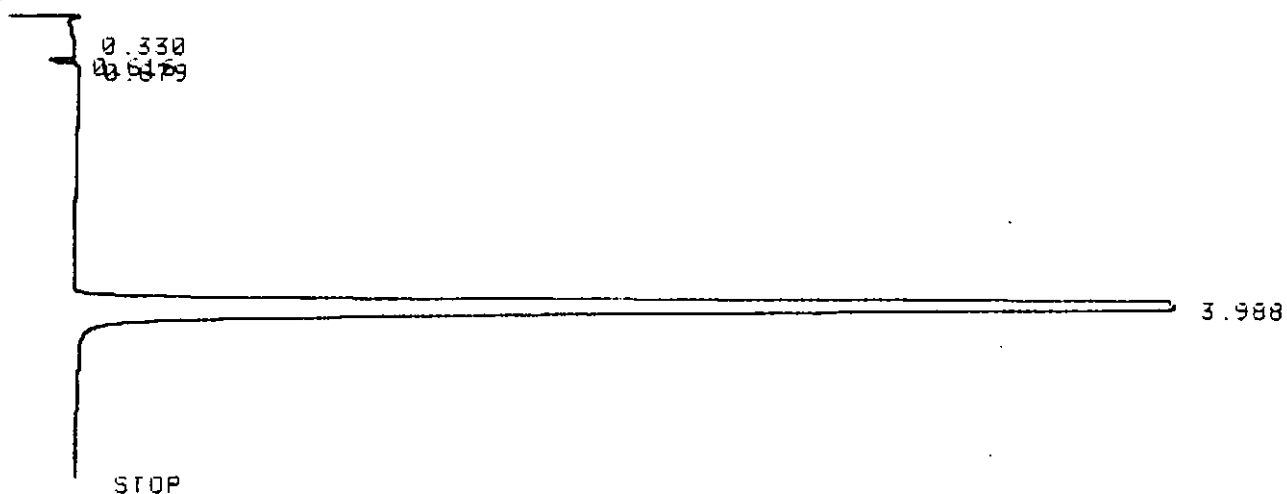
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.995 | 5400253 | PB   | 2    | 132.306 |

TOTAL AREA=5640067

MUL FACTOR=1.0000E+00

\* RUN # 18 APR 2, 1997 15:15:07  
START



RUN# 18 APR 2, 1997 15:15:07

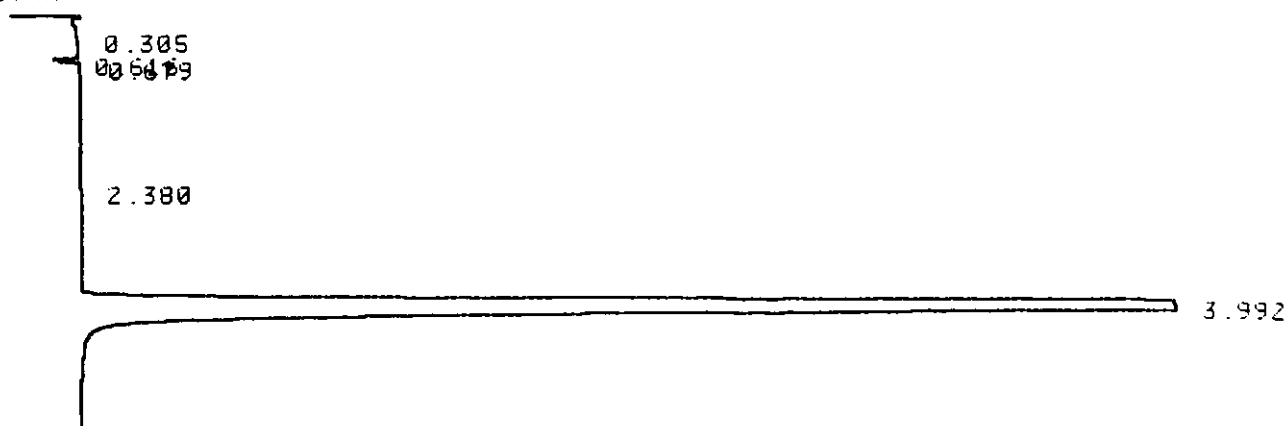
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.988 | 8045674 | PB   | 2    | 197.119 |

TOTAL AREA=8203366

MUL FACTOR=1.0000E+00

\* RUN # 19 APR 2, 1997 15:22:03  
START



STOP

RUN# 19 APR 2, 1997 15:22:03

ESTD-AREA

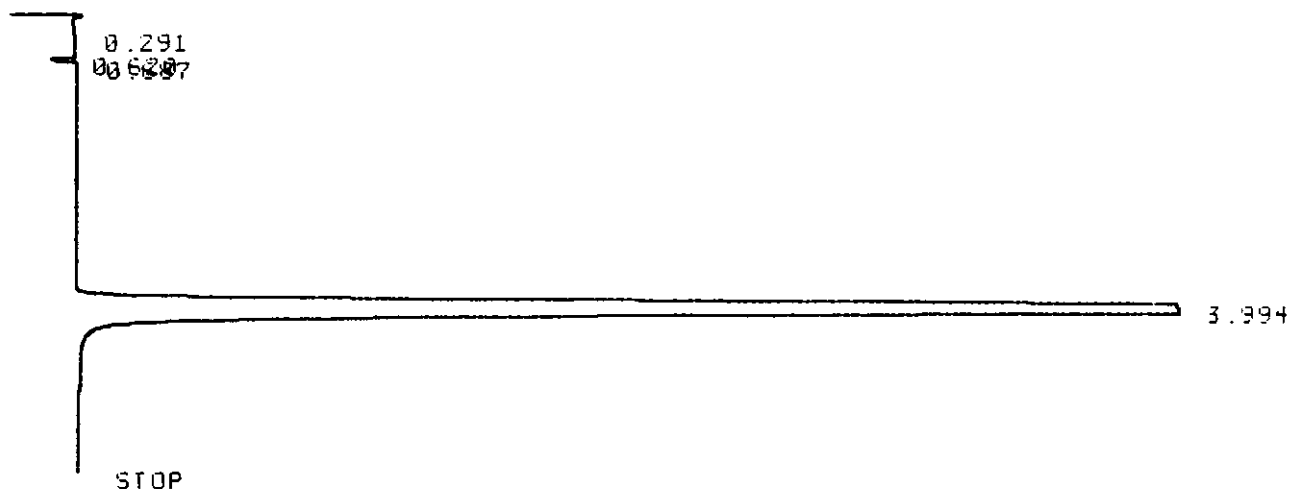
| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.992 | 8969766 | PB   | 2    | 219.759 |

TOTAL AREA=9.2489E+06

MUL FACTOR=1.0000E+00

\* RUN # 20 APR 2, 1997 15:30:26

START



STOP

RUN# 20 APR 2, 1997 15:30:26

ESTD-AREA

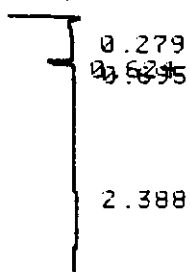
| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.994 | 8505958 | BB   | 2    | 208.396 |

TOTAL AREA=8.6435E+06

MUL FACTOR=1.0000E+00

\* RUN # 21 APR 2, 1997 15:37:44

START





3.994

STOP

RUN# 21 APR 2, 1997 15:37:44

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.994 | 6280586 | PB   | 2    | 153.874 |

TOTAL AREA=6403728

MUL FACTOR=1.0000E+00

\* RUN # 22 APR 2, 1997 15:45:51

START

0.290  
0.6886  
1.300

3.982

STOP

RUN# 22 APR 2, 1997 15:45:51

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.982 | 5732330 | PB   | 2    | 140.442 |

TOTAL AREA=5956301

MUL FACTOR=1.0000E+00

\* RUN # 23 APR 2, 1997 15:56:37

START

0.315  
~~0.6150~~

3.985

STOP

RUN# 23 APR 2, 1997 15:56:37

ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT  |
|-------|------------|------|---------|
| 3.985 | 6037738 PB | 2    | 147.924 |

TOTAL AREA=6189018  
MUL FACTOR=1.0000E+00

\* RUN # 24 APR 2, 1997 16:03:24  
START

0.433  
~~0.631~~

1.545

1.807

~~3.620~~  
STOP

RUN# 24 APR 2, 1997 16:03:24

ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT |
|-------|------------|------|--------|
| 1.807 | 1077927 PB | 1R   | 47.688 |

TOTAL AREA=1161419  
MUL FACTOR=1.0000E+00

\*  
\*

Am  
0402 CALS.  
New cal file =  
0402A  
Did not "end run"  
on 15 ppm QC (in) -  
have no average

CALIBRATION SUMMARY  
04-02-1997 08:16:40

CALIBRATION FILE NAME = c:\cendata\0402A.CAL

| Chan. | Name  | Units | Zero  |       | Span  |       | Slope  | Int.      |
|-------|-------|-------|-------|-------|-------|-------|--------|-----------|
|       |       |       | Conc. | Resp. | Conc. | Resp. |        |           |
| 1     | THC o | ppm   | 0     | 0     | 914   | 9.1   | 100.32 | -.1054    |
| 2     | THC i | ppm   | 0     | .01   | 45.5  | 4.5   | 10.18  | -.0871    |
| 3     | Flow  | inH2O | 0     | 2.98  | 25    | 15    | 2.08   | -6.2      |
| 4     | Temp  | F     | 64    | 2.19  | 1832  | 10    | 226.31 | -431.1166 |
| 5     | Resin | lb    | -4    | 1     | 176   | 5     | 45     | -49       |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-02-1997 Current Time = 08:21:51

File Name = c:\ceadata\040297.PRN Calibration File:c:\ceadata\0402A.CAL

Test #: Out 600ppm

| 04-02-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 08:21:52           | 596.6        | 62.1         | -0.0          | 63.2      | -226.7      |
| 08:21:54           | 596.6        | 62.1         | -0.0          | 63.2      | -226.7      |
| 08:21:55           | 596.6        | 62.1         | -0.0          | 63.2      | -226.7      |
| 08:21:56           | 596.6        | 62.1         | -0.0          | 63.2      | -226.7      |
| 08:22:03           | 594.7        | 62.1         | -0.0          | 63.9      | -227.1      |
| 08:22:13           | 595.3        | 62.1         | -0.0          | 64.0      | -226.2      |
| 08:22:23           | 595.3        | 62.1         | -0.0          | 63.8      | -226.1      |
| 08:22:33           | 595.2        | 62.1         | -0.0          | 64.0      | -226.2      |
| 08:22:43           | 596.0        | 62.2         | -0.0          | 63.9      | -226.1      |
| 08:22:53           | 596.9        | 62.2         | -0.0          | 63.7      | -226.1      |
| 08:23:03           | 595.1        | 62.2         | -0.0          | 63.6      | -225.4      |
| Avg =              | 595.9        | 62.1         | -0.0          | 63.6      | -226.4      |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, MA

Performed for: NMMA

Date Printed = 04-02-1997 Current Time = 08:25:51

File Name = c:\ce\data\040297.PRM Calibration File: c:\ce\data\0402A.CAL

Test #: Out 297ppm

| 04-02-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 08:25:52           | 296.6        | 30.8         | -0.0          | 64.1      | -226.0      |
| 08:25:54           | 296.6        | 30.8         | -0.0          | 64.1      | -226.0      |
| 08:26:03           | 295.9        | 30.8         | -0.0          | 64.4      | -226.4      |
| 08:26:13           | 297.0        | 30.9         | -0.0          | 64.5      | -225.8      |
| 08:26:23           | 296.5        | 30.9         | -0.0          | 64.6      | -225.9      |
| 08:26:33           | 296.5        | 30.9         | -0.0          | 64.7      | -225.8      |
| 08:26:43           | 296.5        | 30.9         | -0.0          | 64.8      | -225.9      |
| 08:26:53           | 296.2        | 30.9         | -0.0          | 64.7      | -225.1      |
| 08:27:03           | 294.6        | 30.8         | -0.0          | 64.7      | -225.8      |
| 08:27:13           | 296.1        | 30.8         | -0.0          | 64.7      | -225.8      |
| 08:27:23           | 295.8        | 30.8         | -0.0          | 64.5      | -225.9      |
| 08:27:33           | 294.5        | 30.8         | -0.0          | 64.6      | -225.9      |
| Avg =              | 296.1        | 30.8         | -0.0          | 64.5      | -225.9      |

RADIAM CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, VA

Performed for: NMMA

Date Printed = 04-02-1997 Current Time = 08:30:34

File Name = c:\ce\data\040297.PRN Calibration File:c:\ce\data\0402A.CAL

Test #: In 30.4ppm

| 04-02-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 08:30:35           | 26.7         | 30.9         | -0.0          | 64.9      | -227.4      |
| 08:30:36           | 26.7         | 30.9         | -0.0          | 64.9      | -227.4      |
| 08:30:43           | 26.7         | 30.8         | -0.0          | 64.9      | -227.6      |
| 08:30:53           | 26.7         | 30.7         | -0.0          | 65.0      | -226.7      |
| 08:31:03           | 26.7         | 30.7         | -0.0          | 65.2      | -226.6      |
| 08:31:13           | 26.7         | 30.7         | -0.0          | 65.3      | -225.9      |
| 08:31:23           | 26.7         | 30.7         | -0.0          | 65.2      | -226.6      |
| 08:31:33           | 26.7         | 30.7         | -0.0          | 65.5      | -226.7      |
| 08:31:43           | 26.7         | 30.7         | -0.0          | 65.6      | -226.6      |
| 08:31:53           | 26.7         | 30.7         | -0.0          | 65.5      | -226.6      |
| 08:32:03           | 26.7         | 30.7         | -0.0          | 65.7      | -226.8      |
| 08:32:13           | 26.7         | 30.8         | -0.0          | 65.7      | -226.7      |
| 08:32:23           | 26.7         | 30.8         | -0.0          | 65.7      | -226.7      |
| 08:32:33           | 26.7         | 30.8         | -0.0          | 65.7      | -226.6      |
| 08:32:43           | 26.7         | 30.8         | -0.0          | 65.8      | -226.6      |
| 08:32:53           | 26.7         | 30.8         | -0.0          | 65.8      | -226.8      |
| Avg =              | 26.7         | 30.8         | -0.0          | 65.4      | -226.8      |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-02-1997 Current Time = 08:34:06

File Name = c:\cendata\040297.PRN Calibration File:c:\cendata\0402A.CAL

Test #: In 15ppm

| 04-02-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 08:34:07           | 4.0          | 15.2         | -0.0          | 65.6      | -227.3      |
| 08:34:13           | 4.0          | 15.1         | -0.0          | 65.8      | -227.0      |
| 08:34:23           | 3.9          | 15.0         | -0.0          | 65.7      | -225.7      |
| 08:34:33           | 3.9          | 15.0         | -0.0          | 65.6      | -226.4      |
| 08:34:43           | 3.9          | 15.0         | -0.0          | 65.5      | -226.5      |
| 08:34:53           | 4.0          | 15.0         | -0.0          | 65.3      | -226.5      |
| 08:35:03           | 4.9          | 15.0         | -0.0          | 65.4      | -226.4      |
| 08:35:13           | 5.0          | 15.0         | -0.0          | 65.4      | -226.5      |
| 08:35:23           | 4.9          | 15.0         | -0.0          | 65.3      | -225.7      |
| 08:35:33           | 5.0          | 15.1         | -0.0          | 65.6      | -226.5      |
| 08:35:43           | 5.0          | 15.1         | -0.0          | 65.0      | -226.4      |
| 08:35:53           | 5.0          | 15.1         | -0.0          | 65.3      | -226.4      |
| 08:36:03           | 5.0          | 15.0         | -0.0          | 65.0      | -226.4      |
| 08:36:13           | 5.0          | 15.0         | -0.0          | 64.8      | -226.5      |
| 08:36:23           | 5.0          | 15.0         | -0.0          | 64.9      | -225.7      |
| 08:36:33           | 5.0          | 15.0         | -0.0          | 65.3      | -226.5      |
| 08:36:43           | 5.7          | 15.1         | -0.0          | 65.0      | -226.5      |

15.1

RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-02-1997 Current Time = 11:10:44  
 File Name = c:\ceedata\040297.PRN Calibration File: c:\ceedata\0402A.CAL

Run 0402-1  
 and Post Test QC  
 (IS = 297 ppm)  
 Gel Coat  
 4/2197

Test #: 0402-1

| 04-02-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 11:11:11           | 4.4          | 1.7          | 0.1           | 61.1      | -226.1      |
| 11:12:11           | 8.7          | 1.7          | 0.1           | 63.2      | -225.5      |
| 11:13:11           | 21.2         | 1.7          | 0.1           | 65.3      | -225.6      |
| 11:14:11           | 11.5         | 1.7          | 0.2           | 67.0      | -225.5      |
| 11:15:11           | 8.3          | 2.1          | 0.1           | 68.2      | -225.3      |
| 11:16:11           | 7.5          | 2.5          | 0.1           | 68.8      | -225.4      |
| 11:17:11           | 42.4         | 2.3          | 0.1           | 68.9      | -225.7      |
| 11:18:11           | 64.4         | 2.9          | 0.1           | 69.2      | -225.7      |
| 11:20:22           | 71.9         | 2.7          | 0.1           | 69.5      | -225.9      |
| 11:20:23           | 71.9         | 2.7          | 0.1           | 69.5      | -225.9      |
| 11:21:11           | 65.8         | 2.9          | 0.1           | 69.9      | -225.7      |
| 11:22:11           | 63.5         | 3.0          | 0.1           | 69.9      | -225.6      |
| 11:23:11           | 87.4         | 3.0          | 0.1           | 70.0      | -225.6      |
| 11:24:11           | 121.4        | 2.8          | 0.1           | 69.9      | -225.4      |
| 11:25:11           | 147.3        | 2.6          | 0.1           | 69.6      | -225.3      |
| 11:26:11           | 153.0        | 2.5          | 0.1           | 69.3      | -225.6      |
| 11:27:11           | 166.3        | 2.4          | 0.1           | 69.2      | -225.6      |
| 11:28:11           | 184.9        | 2.3          | 0.1           | 69.2      | -225.5      |
| 11:29:11           | 200.0        | 2.2          | 0.1           | 68.9      | -225.3      |
| 11:30:11           | 212.1        | 2.1          | 0.1           | 68.8      | -225.4      |
| 11:31:11           | 226.2        | 2.0          | 0.1           | 68.7      | -225.3      |
| 11:32:11           | 237.0        | 1.8          | 0.1           | 69.0      | -225.5      |
| 11:33:11           | 241.3        | 1.8          | 0.1           | 69.7      | -225.5      |
| 11:34:11           | 264.6        | 2.0          | 0.1           | 70.1      | -225.5      |
| 11:35:11           | 275.5        | 2.1          | 0.1           | 70.3      | -225.5      |
| 11:36:11           | 236.4        | 2.1          | 0.1           | 70.2      | -225.3      |
| 11:37:11           | 219.7        | 2.2          | 0.1           | 70.4      | -225.5      |
| 11:38:11           | 205.3        | 2.3          | 0.1           | 70.4      | -225.5      |
| 11:39:11           | 219.5        | 2.4          | 0.1           | 70.7      | -225.4      |
| 11:40:11           | 228.1        | 2.4          | 0.1           | 70.3      | -225.4      |
| 11:41:11           | 220.5        | 2.2          | 0.1           | 70.2      | -225.4      |
| 11:42:11           | 250.6        | 2.0          | 0.1           | 70.1      | -225.5      |
| 11:43:11           | 248.0        | 1.9          | 0.1           | 70.5      | -225.4      |
| 11:44:11           | 237.7        | 1.8          | 0.1           | 70.6      | -225.4      |
| 11:45:11           | 217.0        | 1.8          | 0.1           | 70.5      | -225.5      |
| 11:46:11           | 196.6        | 1.9          | 0.1           | 70.8      | -225.3      |
| 11:47:11           | 190.9        | 2.2          | 0.1           | 71.1      | -225.6      |
| 11:48:11           | 176.3        | 2.3          | 0.1           | 70.4      | -225.4      |
| 11:49:11           | 163.9        | 2.4          | 0.1           | 70.3      | -225.7      |
| 11:50:11           | 149.0        | 2.5          | 0.1           | 70.3      | -225.2      |

Test #: 0402-1

| 04-02-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 11:51:11           | 138.3        | 2.7          | 0.1           | 70.3      | -225.5      |



|          |       |     |     |      |        |
|----------|-------|-----|-----|------|--------|
| 11:52:11 | 137.3 | 2.7 | 0.1 | 70.8 | -225.4 |
| 11:53:11 | 131.3 | 2.7 | 0.1 | 70.8 | -225.4 |
| 11:54:11 | 121.1 | 2.7 | 0.1 | 71.1 | -225.4 |
| 11:55:11 | 121.5 | 2.7 | 0.1 | 71.1 | -225.6 |
| 11:56:11 | 111.8 | 2.8 | 0.1 | 70.9 | -225.6 |
| 11:57:11 | 105.8 | 3.0 | 0.1 | 70.3 | -225.6 |
| 11:58:11 | 107.7 | 3.1 | 0.1 | 70.4 | -225.5 |
| 11:59:11 | 99.7  | 3.0 | 0.1 | 70.0 | -225.5 |
| 12:00:11 | 96.2  | 3.0 | 0.1 | 69.9 | -225.4 |
| 12:01:11 | 98.7  | 2.8 | 0.1 | 70.0 | -225.4 |
| 12:02:11 | 95.0  | 2.7 | 0.1 | 70.7 | -225.5 |
| 12:03:11 | 89.9  | 2.6 | 0.1 | 70.9 | -225.5 |
| 12:04:11 | 87.2  | 2.5 | 0.1 | 70.8 | -225.6 |
| 12:05:11 | 84.8  | 2.3 | 0.1 | 70.5 | -225.6 |
| 12:06:11 | 81.1  | 2.2 | 0.1 | 70.2 | -225.7 |
| 12:07:18 | 83.1  | 2.1 | 0.1 | 69.9 | -225.7 |
| 12:08:24 | 82.7  | 2.0 | 0.1 | 70.7 | -227.5 |
| 12:09:11 | 82.2  | 2.0 | 0.1 | 71.2 | -225.7 |
| 12:10:11 | 75.5  | 1.9 | 0.1 | 71.1 | -225.5 |
| 12:11:11 | 73.4  | 1.8 | 0.1 | 70.7 | -225.7 |
| 12:12:11 | 74.3  | 1.7 | 0.1 | 70.3 | -225.7 |
| 12:13:11 | 73.1  | 1.7 | 0.1 | 70.3 | -225.6 |
| 12:14:11 | 72.0  | 1.7 | 0.1 | 70.7 | -225.6 |
| 12:15:11 | 69.0  | 1.6 | 0.1 | 70.9 | -225.7 |
| 12:16:11 | 67.5  | 1.6 | 0.1 | 70.7 | -225.7 |
| 12:17:11 | 67.4  | 1.6 | 0.1 | 71.2 | -225.7 |
| 12:18:11 | 65.7  | 1.5 | 0.1 | 71.3 | -225.5 |
| 12:19:11 | 62.4  | 1.5 | 0.1 | 71.4 | -225.5 |
| 12:20:11 | 60.7  | 1.5 | 0.1 | 71.4 | -225.5 |
| 12:21:11 | 60.3  | 1.5 | 0.1 | 71.6 | -225.7 |
| 12:22:11 | 57.7  | 1.6 | 0.2 | 71.3 | -225.5 |
| 12:23:11 | 58.5  | 1.6 | 0.1 | 71.4 | -225.4 |
| 12:24:11 | 56.6  | 1.5 | 0.1 | 71.6 | -225.4 |
| 12:25:11 | 53.5  | 1.5 | 0.2 | 71.9 | -225.5 |
| 12:26:11 | 51.7  | 1.5 | 0.1 | 72.2 | -225.3 |
| 12:27:11 | 49.6  | 1.4 | 0.1 | 72.1 | -225.6 |
| 12:28:11 | 51.0  | 1.4 | 0.2 | 71.5 | -225.7 |
| 12:29:11 | 52.4  | 1.4 | 0.2 | 71.1 | -225.5 |
| 12:30:11 | 52.8  | 1.3 | 0.2 | 71.2 | -225.6 |
| 12:31:11 | 46.7  | 1.3 | 0.1 | 70.9 | -225.6 |
| 12:32:11 | 46.3  | 1.2 | 0.1 | 71.2 | -225.7 |
| 12:33:11 | 44.9  | 1.2 | 0.2 | 71.4 | -225.5 |
| 12:34:11 | 43.0  | 1.2 | 0.1 | 71.7 | -225.5 |
| 12:35:11 | 42.5  | 1.2 | 0.2 | 71.7 | -225.4 |
| 12:36:11 | 40.6  | 1.2 | 0.2 | 71.5 | -225.4 |
| 12:37:11 | 39.9  | 1.2 | 0.1 | 71.5 | -225.6 |
| 12:38:11 | 38.5  | 1.2 | 0.1 | 71.9 | -225.5 |
| 12:39:11 | 36.0  | 1.2 | 0.2 | 72.0 | -225.3 |
| 12:40:11 | 36.0  | 1.2 | 0.2 | 71.9 | -225.5 |
| 12:41:11 | 34.3  | 1.2 | 0.2 | 72.1 | -225.6 |
| 12:42:11 | 33.9  | 1.2 | 0.2 | 72.1 | -225.4 |
| 12:43:11 | 31.0  | 1.1 | 0.2 | 71.8 | -225.6 |
| 12:44:11 | 30.2  | 1.1 | 0.2 | 71.6 | -225.4 |
| 12:45:11 | 30.1  | 1.0 | 0.1 | 71.9 | -225.6 |
| 12:46:11 | 31.8  | 1.0 | 0.1 | 72.1 | -225.6 |

Test #: 0402-1

| Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|------|--------------|--------------|---------------|-----------|-------------|
|------|--------------|--------------|---------------|-----------|-------------|

===== 7

|          |      |     |     |      |        |
|----------|------|-----|-----|------|--------|
| 12:48:11 | 27.0 | 1.1 | 0.2 | 72.0 | -225.6 |
| 12:49:11 | 26.2 | 1.1 | 0.1 | 72.0 | -225.6 |
| 12:50:11 | 24.5 | 1.1 | 0.2 | 72.0 | -225.3 |
| 12:51:11 | 23.3 | 1.1 | 0.1 | 71.9 | -225.4 |
| 12:52:11 | 24.4 | 1.1 | 0.2 | 72.1 | -225.5 |
| 12:53:11 | 25.4 | 1.1 | 0.1 | 72.8 | -225.4 |
| 12:54:11 | 24.3 | 1.1 | 0.2 | 73.0 | -225.5 |
| 12:55:11 | 23.1 | 1.1 | 0.1 | 73.2 | -225.5 |
| 12:56:11 | 22.2 | 1.3 | 0.2 | 73.1 | -225.5 |
| 12:57:11 | 22.3 | 1.3 | 0.2 | 72.8 | -225.4 |
| 12:58:11 | 22.8 | 1.2 | 0.2 | 73.3 | -225.5 |
| 12:59:11 | 22.2 | 1.2 | 0.1 | 73.5 | -225.5 |
| 13:00:11 | 22.8 | 1.2 | 0.2 | 73.3 | -225.5 |
| 13:01:11 | 22.0 | 1.3 | 0.1 | 73.4 | -225.5 |
| 13:02:11 | 21.3 | 1.4 | 0.2 | 73.5 | -225.6 |
| 13:03:11 | 19.8 | 1.5 | 0.2 | 73.3 | -225.3 |
| 13:04:11 | 18.5 | 1.6 | 0.2 | 73.4 | -225.4 |
| 13:05:11 | 17.3 | 1.7 | 0.1 | 73.2 | -225.3 |
| 13:06:11 | 16.2 | 1.7 | 0.1 | 73.0 | -225.4 |
| 13:07:11 | 15.3 | 1.6 | 0.1 | 72.8 | -225.5 |
| 13:08:11 | 16.2 | 1.6 | 0.1 | 73.1 | -225.3 |
| 13:09:11 | 15.8 | 1.5 | 0.2 | 73.4 | -225.3 |
| 13:10:11 | 14.7 | 1.5 | 0.2 | 73.6 | -225.4 |
| 13:11:11 | 14.4 | 1.6 | 0.2 | 73.7 | -225.4 |
| 13:12:11 | 12.9 | 1.7 | 0.1 | 74.0 | -225.4 |
| 13:13:11 | 12.9 | 1.8 | 0.2 | 74.4 | -225.8 |
| 13:14:11 | 11.8 | 1.8 | 0.2 | 74.3 | -225.5 |
| 13:15:11 | 12.1 | 1.7 | 0.2 | 74.1 | -225.3 |
| 13:16:14 | 11.0 | 1.7 | 0.1 | 73.4 | -225.6 |
| 13:17:11 | 10.3 | 1.7 | 0.2 | 72.8 | -225.3 |
| 13:18:11 | 11.6 | 1.6 | 0.2 | 73.3 | -225.5 |
| 13:19:11 | 10.5 | 1.6 | 0.2 | 73.6 | -225.3 |
| 13:20:11 | 9.9  | 1.6 | 0.2 | 73.5 | -225.4 |
| 13:21:11 | 10.1 | 1.6 | 0.1 | 73.1 | -225.4 |
| 13:22:11 | 8.5  | 1.5 | 0.1 | 73.1 | -225.2 |
| 13:23:11 | 8.2  | 1.5 | 0.2 | 73.2 | -225.3 |
| 13:24:11 | 7.9  | 1.5 | 0.1 | 73.2 | -225.3 |
| 13:25:11 | 7.7  | 1.4 | 0.2 | 72.9 | -225.3 |
| 13:26:11 | 6.9  | 1.3 | 0.2 | 73.3 | -225.3 |
| 13:27:11 | 6.8  | 1.3 | 0.2 | 73.6 | -225.3 |

=====

|       |      |     |     |      |        |
|-------|------|-----|-----|------|--------|
| Avg = | 77.9 | 1.8 | 0.1 | 71.2 | -225.5 |
|-------|------|-----|-----|------|--------|

=====

Performed for: NMMA  
Date Printed = 04-02-1997 Current Time = 13:32:04  
File Name = c:\ceadata\040297.PRW Calibration File:c:\ceadata\0402A.CAL

Test #: Post 1 15ppm

| 04-02-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 13:32:08           | 11.9         | 14.7         | 0.1           | 72.7      | -230.7      |
| 13:32:11           | 12.0         | 14.7         | 0.2           | 72.7      | -232.1      |
| 13:32:21           | 11.9         | 14.7         | 0.2           | 72.5      | -226.5      |
| 13:32:31           | 11.9         | 14.8         | 0.2           | 72.4      | -226.4      |
| 13:32:41           | 11.9         | 14.8         | 0.1           | 72.4      | -226.5      |
| 13:32:51           | 11.9         | 14.7         | 0.1           | 72.3      | -226.5      |
| 13:33:01           | 11.9         | 14.7         | 0.2           | 72.1      | -226.5      |
| 13:33:11           | 11.9         | 14.7         | 0.2           | 72.1      | -226.5      |
| 13:33:21           | 12.0         | 14.7         | 0.1           | 71.8      | -226.5      |
| 13:33:31           | 11.9         | 14.7         | 0.2           | 71.7      | -226.6      |
| Avg =              | 11.9         | 14.7         | 0.2           | 72.3      | -227.5      |

Performed for: NMMA  
Date Printed = 04-02-1997 Current Time = 13:36:32  
File Name = c:\ceadata\040297.PRN Calibration File:c:\ceadata\0402A.CAL

Test #: Post 1 297ppm

| 04-02-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 13:36:36           | 297.3        | 27.0         | 0.2           | 71.0      | -230.3      |
| 13:36:41           | 297.3        | 26.9         | -0.0          | 71.1      | -228.5      |
| 13:36:51           | 296.5        | 27.1         | -0.0          | 71.1      | -225.9      |
| 13:37:01           | 297.4        | 27.1         | -0.0          | 71.1      | -225.1      |
| 13:37:11           | 297.3        | 27.2         | -0.0          | 71.1      | -225.9      |
| 13:37:21           | 295.7        | 27.3         | -0.0          | 71.1      | -225.8      |
| 13:37:31           | 296.8        | 27.3         | -0.0          | 71.1      | -225.3      |
| 13:37:41           | 297.0        | 27.4         | -0.0          | 71.1      | -225.8      |
| 13:37:51           | 295.5        | 27.5         | -0.0          | 71.1      | -225.8      |
| 13:38:01           | 295.5        | 27.5         | -0.0          | 71.1      | -225.9      |
| 13:38:11           | 296.4        | 27.5         | -0.0          | 71.0      | -225.8      |
| Avg =              | 296.6        | 27.2         | -0.0          | 71.1      | -226.4      |

Post 0402-1 QC  
0 3 SPAN

RADIAN CORPORATION  
Environmental Measurement and Analysis Department  
Continuous Emissions Monitoring Data  
US Marine  
Arlington, WA  
Performed for: NMMA  
Date Printed = 04-02-1997 Current Time = 14:24:14  
File Name = c:\cemdata\040297.PRN Calibration File: c:\cemdata\0402A.CAL

Test #: Post 1 0ppm

| 04-02-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 14:24:20           | -0.0         | -0.2         | -0.0          | 71.8      | -229.1      |
| 14:24:21           | -0.0         | -0.2         | -0.0          | 71.8      | -229.1      |
| 14:24:25           | -0.0         | -0.2         | -0.0          | 71.8      | -229.0      |
| 14:24:35           | -0.0         | -0.2         | -0.0          | 71.7      | -226.4      |
| 14:24:46           | -0.0         | -0.3         | -0.0          | 71.7      | -226.3      |
| 14:24:56           | -0.0         | -0.2         | -0.0          | 71.7      | -226.3      |
| 14:25:06           | -0.0         | -0.3         | -0.0          | 71.8      | -226.3      |
| 14:25:16           | -0.0         | -0.2         | -0.0          | 71.7      | -226.3      |
| 14:25:26           | -0.0         | -0.3         | -0.0          | 71.7      | -226.3      |
| 14:25:36           | -0.0         | -0.3         | -0.0          | 71.8      | -226.4      |
| 14:25:46           | -0.0         | -0.3         | -0.0          | 71.7      | -226.3      |
| 14:25:56           | -0.0         | -0.3         | -0.0          | 71.7      | -226.3      |
| 14:26:06           | -0.0         | -0.3         | -0.0          | 71.8      | -226.3      |
| 14:26:15           | 0.0          | -0.3         | -0.0          | 71.7      | -226.3      |
| 14:26:25           | 0.0          | -0.3         | -0.0          | 71.7      | -226.2      |
| 14:26:35           | -0.0         | -0.3         | -0.0          | 71.7      | -226.2      |
| 14:26:45           | 0.0          | -0.3         | -0.0          | 71.7      | -226.2      |
| Avg =              | -0.0         | -0.3         | -0.0          | 71.7      | -226.8      |

RADIANT CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-02-1997 Current Time = 14:31:22  
 File Name = c:\cemdata\040297.PRN Calibration File: c:\cemdata\0402A.CAL

Test #: Post 1 914ppm

| 04-02-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 14:31:28           | 920.1        | 40.8         | -0.0          | 71.9      | -229.5      |
| 14:31:29           | 920.1        | 40.8         | -0.0          | 71.9      | -229.5      |
| 14:31:35           | 919.9        | 41.0         | -0.0          | 71.8      | -227.6      |
| 14:31:45           | 918.8        | 41.3         | -0.0          | 71.9      | -226.3      |
| 14:31:56           | 920.5        | 41.3         | -0.0          | 71.9      | -226.2      |
| 14:32:05           | 919.9        | 41.4         | -0.0          | 71.8      | -226.2      |
| 14:32:15           | 918.3        | 41.6         | -0.0          | 71.8      | -226.2      |
| 14:32:26           | 917.8        | 41.7         | -0.0          | 71.9      | -226.3      |
| 14:32:36           | 918.3        | 41.7         | -0.0          | 71.9      | -226.2      |
| 14:32:46           | 919.5        | 41.8         | -0.0          | 71.9      | -226.2      |
| 14:32:56           | 918.7        | 41.8         | -0.0          | 71.9      | -226.2      |
| 14:33:06           | 918.2        | 41.9         | -0.0          | 71.9      | -226.2      |
| 14:33:16           | 918.0        | 42.1         | 0.1           | 71.6      | -226.2      |
| 14:33:26           | 918.7        | 42.1         | 0.1           | 71.6      | -224.8      |
| 14:33:36           | 919.7        | 42.2         | 0.1           | 71.5      | -226.3      |
| 14:33:46           | 918.5        | 42.4         | 0.1           | 71.4      | -226.2      |
| 14:33:56           | 916.7        | 42.6         | 0.1           | 71.1      | -226.2      |
| 14:34:05           | 918.2        | 42.6         | 0.1           | 70.8      | -226.2      |
| 14:34:15           | 918.7        | 42.7         | 0.1           | 70.5      | -226.2      |
| 14:34:25           | 917.9        | 42.8         | 0.1           | 70.2      | -226.2      |
| 14:34:35           | 917.4        | 43.0         | 0.1           | 69.6      | -224.8      |
| 14:34:45           | 919.3        | 43.2         | 0.1           | 69.2      | -226.2      |
| 14:34:56           | 917.5        | 43.4         | 0.1           | 69.1      | -226.2      |
| 14:35:06           | 916.2        | 43.6         | 0.1           | 68.9      | -226.2      |
| 14:35:16           | 920.1        | 43.5         | 0.1           | 68.9      | -226.2      |
| 14:35:26           | 918.8        | 43.6         | 0.1           | 68.7      | -226.3      |

|          |       |      |     |      |        |
|----------|-------|------|-----|------|--------|
| 14:35:46 | 916.0 | 43.7 | 0.1 | 68.4 | -226.2 |
| 14:35:56 | 919.1 | 43.6 | 0.1 | 68.2 | -226.2 |
| 14:36:06 | 916.3 | 44.0 | 0.1 | 68.1 | -226.2 |
| 14:36:16 | 916.8 | 44.2 | 0.1 | 68.1 | -226.2 |
| 14:36:26 | 918.4 | 44.4 | 0.1 | 68.0 | -226.2 |
| 14:36:35 | 916.5 | 44.5 | 0.1 | 67.9 | -226.1 |
| 14:36:45 | 918.0 | 44.6 | 0.1 | 67.7 | -226.3 |
| 14:36:55 | 916.0 | 44.8 | 0.1 | 67.6 | -226.3 |
| 14:37:05 | 915.8 | 44.9 | 0.1 | 67.5 | -226.3 |

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|       |       |      |     |      |        |
|-------|-------|------|-----|------|--------|
| Avg = | 918.2 | 42.8 | 0.1 | 70.2 | -226.4 |
|-------|-------|------|-----|------|--------|

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# RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-02-1997 Current Time = 14:40:27

File Name = c:\ce\data\040297.PRN Calibration File: c:\ce\data\0402A.CAL

Test #: Post 1 45.5ppm

| 04-02-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 14:40:29           | 42.4         | 46.1         | 0.2           | 66.8      | -231.0      |
| 14:40:36           | 41.4         | 46.1         | 0.2           | 66.6      | -228.1      |
| 14:40:46           | 41.7         | 46.1         | 0.2           | 66.7      | -226.8      |
| 14:40:56           | 41.8         | 46.0         | 0.2           | 66.7      | -226.9      |
| 14:41:06           | 41.4         | 46.0         | 0.2           | 66.5      | -226.8      |
| 14:41:16           | 41.4         | 45.9         | 0.2           | 66.6      | -226.1      |
| 14:41:26           | 41.4         | 45.9         | 0.2           | 66.6      | -226.8      |
| 14:41:36           | 41.4         | 45.9         | 0.2           | 66.6      | -226.0      |
| 14:41:45           | 41.4         | 45.9         | 0.2           | 66.6      | -226.7      |
| 14:41:55           | 41.4         | 45.9         | 0.1           | 66.6      | -226.8      |
| 14:42:05           | 41.4         | 46.0         | 0.1           | 66.4      | -226.7      |
| 14:42:15           | 41.7         | 45.9         | 0.1           | 66.4      | -226.7      |
| 14:42:25           | 41.9         | 46.0         | 0.1           | 66.5      | -226.9      |
| Avg =              | 41.6         | 46.0         | 0.2           | 66.6      | -227.1      |

**April 3, 1997**

**0403-01/NMMA-8-1: 28-ft Hull Gelcoat**

**0403-02/NMMA-4-1: 18-ft Deck 35% Styrene Resin Spray Up Lamination**



DAILY SPRAY EQUIPMENT CALIBRATION

Date: 4-3

Initial: KW

Spray Gun: W/W

0403-1

Resin Flow Calibration (<sup>60</sup>~~18~~-second evaluation)

Num - 8-1  
28' Gel

|                | Pre-Test | Post-Test |
|----------------|----------|-----------|
| Run 1 Mass (g) | 1264     | 1256      |
| Run 2 Mass (g) |          |           |
| Run 3 Mass (g) |          |           |
| Average        |          |           |

Resin:Glass Ratio

|                |  |
|----------------|--|
| Mass resin (g) |  |
| Mass glass (g) |  |
| TOTAL          |  |
| Percent glass  |  |

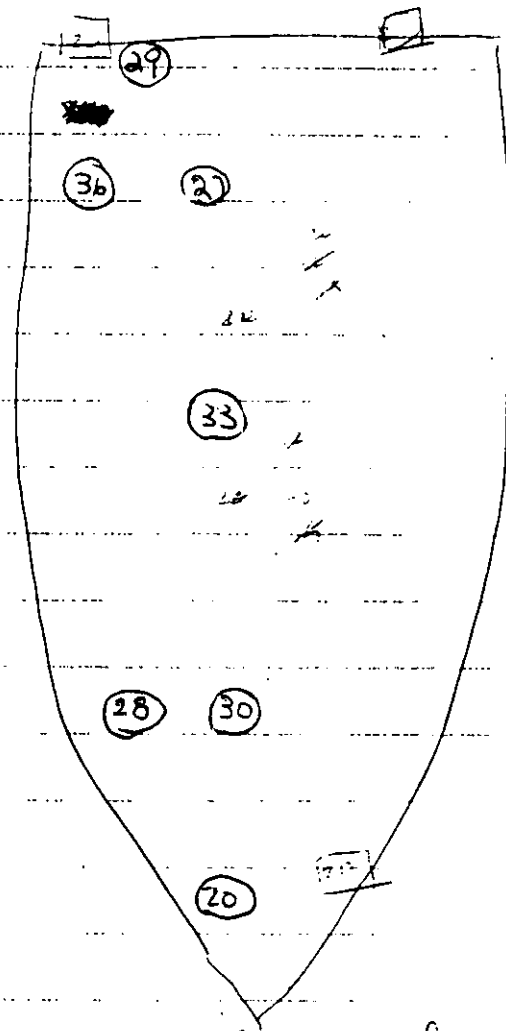
| Material     | Drum No. | Gel Time (min) | Catalyst % Vol. | Setting |
|--------------|----------|----------------|-----------------|---------|
| Gelcoat      | 1        | 16:30          | 2               |         |
| Resin (skin) |          |                | 2               |         |
| Resin (lam)  |          |                | 1-1/4           |         |

Thickness Checks

| Run | 1 | 2 | 3 | 4 | 5 |
|-----|---|---|---|---|---|
|     |   |   |   |   |   |
|     |   |   |   |   |   |
|     |   |   |   |   |   |
|     |   |   |   |   |   |
|     |   |   |   |   |   |

LIMMA-8-1, 4/3/97  
28' Gel coat

| TIME  | MASS  |       |
|-------|-------|-------|
| 1.51  | 348.2 |       |
| 2     | 345.4 |       |
| 3     | 345.4 |       |
| 4     | 346.2 |       |
| 5     | 332.6 |       |
| 10.42 | 325.0 |       |
| 7     | 322.6 |       |
| 8     | 311.6 |       |
| 11    | 312.2 |       |
| 12.46 | 325.2 |       |
| 1     | 323.6 | 348.4 |
| 2     | 341.8 | 378.2 |
| 3     | 312.2 | 377.5 |
| 4     | 317.2 |       |
| 5     | 312.2 |       |
| 10.46 | 312.2 |       |
| 1     | 311.4 | 372.4 |
| 2     | 309.8 |       |
| 3     | 308.2 | 371.0 |
| 4     | 306.4 | 362.6 |
| 5     | 316.2 | 362.6 |
| 6     | 315.2 | 283.6 |
| 7     | 311.2 | 281.0 |
| 8     | 301.2 | 277.2 |
| 9     | 300.2 | 276.6 |
| 10.54 | 300.6 |       |
| 11    | 299.2 |       |



○ = Air flow @ surface

DAILY SPRAY EQUIPMENT CALIBRATION

Date: 4-3-97

Initial: Larry Dargitz

Spray Gun: \_\_\_\_\_

15 D. 35. 10 11  
0403-02

Resin Flow Calibration (15-second evaluation)

|                | Pre-Test | Post-Test |
|----------------|----------|-----------|
| Run 1 Mass (g) |          |           |
| Run 2 Mass (g) |          |           |
| Run 3 Mass (g) |          |           |
| Average        |          |           |

Resin:Glass Ratio

|                |             |  |
|----------------|-------------|--|
| Mass resin (g) | <u>327</u>  |  |
| Mass glass (g) | <u>180</u>  |  |
| TOTAL          | <u>507</u>  |  |
| Percent glass  | <u>35.5</u> |  |

| Material     | Drum No. | Gel Time (min) | Catalyst % Vol. | Setting   |
|--------------|----------|----------------|-----------------|-----------|
| Gelcoat      |          |                |                 |           |
| Resin (skin) | <u>1</u> |                |                 | <u>2%</u> |
| Resin (lam)  | <u>1</u> |                |                 | <u>2%</u> |

Thickness Checks

| Run            | 1 | 2 | 3 | 4 | 5 |
|----------------|---|---|---|---|---|
| <u>60 mil</u>  |   |   |   |   |   |
| <u>150 mil</u> |   |   |   |   |   |
|                |   |   |   |   |   |
|                |   |   |   |   |   |
|                |   |   |   |   |   |
|                |   |   |   |   |   |

National Marine Manufacturers Association  
Baseline Styrene Emission Testing

NMMMA-4-1  
18' Deck Lamination  
Radian International LLC  
Stelling Engineering, P.A.  
Air Tech Environmental LLC

SPRAY EQUIPMENT LOGSHEET

Date: 4/3/07

Initial: JSW

60 ml + 150

| Time | Mass Reading       | Time | Mass Reading | Time | Mass Reading      |
|------|--------------------|------|--------------|------|-------------------|
| 1455 | 183.2              | 1513 | 150.2        | 1531 | 131.4             |
| 1456 |                    | 4    | 144.8        | 2    | 126.4             |
| 1457 | 179.2              | 1515 | 140.2 (B)    | 3    | 122.0             |
| 8    | 173.2              | 6    |              | 4    | 116.2             |
| 9    | 167.4              | 7    |              | 1535 | 112.2             |
| 1500 | 160.0              | 8    |              | 6    | 111.8             |
| 1    | 164.2              | 9    |              | 7    | 109.0             |
| 2    | 162.4 <sup>E</sup> | 1520 |              | 8    | 104.4             |
| 3    | 161.0              | 1    |              | 9    | 103.0             |
| 4    | 160.6              | 2    |              | 1540 | 99.6              |
| 1505 | 160.0              | 3    |              | 1    | 98.8              |
| 6    |                    | 4    |              | 2    | 98.4              |
| 7    |                    | 1525 |              | 3    | 97.0 <sup>E</sup> |
| 8    |                    | 6    |              | 4    |                   |
| 9    |                    | 7    |              | 1545 |                   |
| 1510 |                    | 8    |              | 6    |                   |
| 11   | 158.4              | 9 32 |              | 7    |                   |
| 2    | 153.8              | 1530 | 134.4        | 8    |                   |

drinking  
glass  
repair

Thickness Readings

4/3/97

GC Log

25

45.6 mmH<sub>2</sub>O

(high signal) Signal high @ start &amp; not steady, drifting down.

26

45.6 mmH<sub>2</sub>O

Signal down to 147, ~ baseline

27

45.6 mmH<sub>2</sub>O

28

N<sub>2</sub>

29

N<sub>2</sub>

30

59.2 Sty

31

59.2 Sty

32

122 Sty

33

122 Sty

34

204 Sty

35

204 Sty

= Numa-8-1

\*

36

0403-1-1 125 THC @ 1032

37

-2 583 THC @ 1040

38

-3 650 THC @ 1046

39

-4 558 THC @ 1052

40

-5 750 THC @ 1057

→ THC last reading

41

-6 1030 THC @ 1104

42

-7 520 THC @ 1113

43

-8 490 THC @ 1119

44

-9 415 THC @ 1125

45

-10 350 THC @ 1132

46

-11 300 THC @ 1138

47

-12 190 THC @ 1144

3048

-13 190 THC @ 1151

3149

-14 105 THC @ 1200

3250

-15 84 THC @ 1206

3351

-16 58 THC @ 1214

32

-17 44 THC @ 1221

- THC = 1" Aug

↓  
↓  
↓

4/3/97 GC Log Cont

|    |           |                                |      |
|----|-----------|--------------------------------|------|
| 53 | 0403-1-18 | 34 ppm THC @                   | 1228 |
| 54 | -19       | 27 ppm THC @                   | 1235 |
| 55 | -20       | 25 ppm THC @                   | 1241 |
| 56 | -21       | 15 ppm THC @                   | 1250 |
| 57 | -22       | 11 ppm THC @                   | 1258 |
| 58 | -23       | 9 ppm THC @                    | 1304 |
| 59 | -24       | 7 ppm THC @                    | 1310 |
| 60 |           | 96.2 mmH (Bag 2 STD)           |      |
| 61 |           | 96.2 mmH                       |      |
| 62 |           | 204 Sty                        |      |
| 63 |           | 204 Sty - high for some reason |      |
| 64 |           | 204 Sty                        |      |

## GC Log

304

0403-2 Run Numa-4-1

Run #

Comments

|    |                                                                            |
|----|----------------------------------------------------------------------------|
| 65 | 107 THC @ 1458                                                             |
| 66 | 162 THC @ 1503                                                             |
| 67 | 120 THC @ 1510                                                             |
| 68 | 233 THC @ 1516 — SKIN COAT DONE @ 15:15                                    |
| 69 | 137 THC @ 1523                                                             |
| 70 | 118 THC @ 1529                                                             |
| 71 | 305 THC @ 1534 — Lamination Restarted                                      |
| 72 | 280 THC @ 1541                                                             |
| 73 | 250 THC @ 1547                                                             |
| 74 | 290 THC @ 1553                                                             |
| 75 | 241 THC @ 1601                                                             |
| 76 | 167 THC @ 1607                                                             |
| 77 | 120 THC @ 1613                                                             |
| 78 | 97 THC @ 1618                                                              |
| 79 | 72 THC @ 1624 — blip @ post styrene caused by gas loop valve rotation (OE) |
| 80 | 51 THC @ 1629                                                              |
| 81 | 25 THC @ 1637                                                              |
| 82 | 15 THC @ 1643                                                              |
| 83 | 7.6 THC @ 1648                                                             |
| 84 | 4.4 THC @ 1656                                                             |
| 85 | 3.6 THC @ 1702                                                             |
| 86 | BAG 1A STD 304 ppm Sty                                                     |
| 87 | BAG 1A                                                                     |
| 88 | BAG 1A                                                                     |
| 89 | 204 STY                                                                    |
| 90 | 204 Sty                                                                    |
| 91 | 122 Sty                                                                    |

0403-2 cont.

484

92 122 sty

93 122 sty

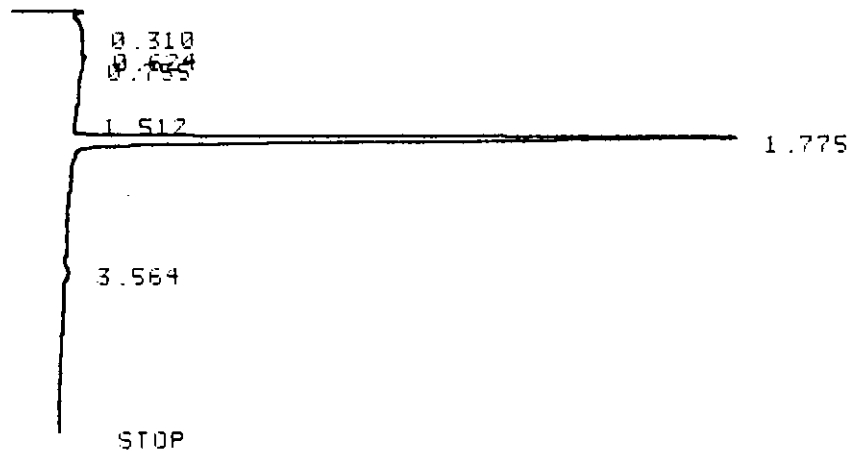


04-03-1

NMM1-8-1

28 Ft Hull Gelcoat

\* RUN # 25 APR 3, 1997 07:09:50  
START



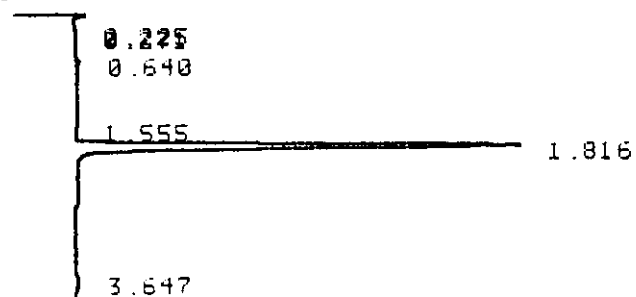
RUN# 25 APR 3, 1997 07:09:50

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.775 | 1481299 | P8   | 1R   | 65.534 |

TOTAL AREA=1635322  
MUL FACTOR=1.0000E+00

\* RUN # 26 APR 3, 1997 07:16:57  
START



STOP

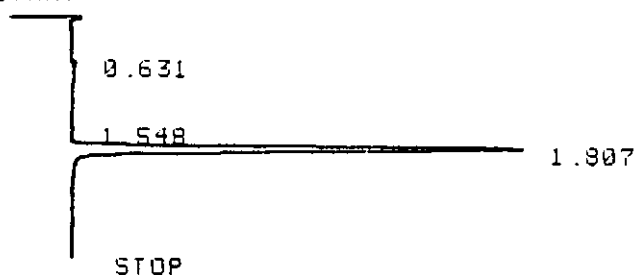
RUN# 26 APR 3, 1997 07:16:57

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.816 | 955877 | PB   | 1R   | 42.289 |

TOTAL AREA=1027334  
MUL FACTOR=1.0000E+00

\* RUN # 27 APR 3, 1997 07:22:36  
START



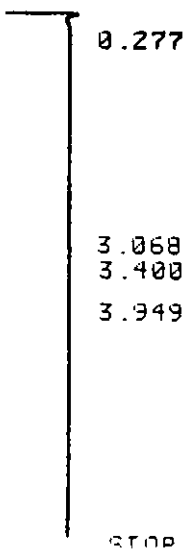
RUN# 27 APR 3, 1997 07:22:36

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.807 | 970932 | PB   | 1R   | 42.955 |

TOTAL AREA= 980865  
MUL FACTOR=1.0000E+00

\* RUN # 28 APR 3, 1997 07:29:54  
START



RUN# 28 APR 3, 1997 07:29:54

ESTD-AREA

| RT    | AREA | TYPE | CAL# | AMOUNT |
|-------|------|------|------|--------|
| 3.949 | 2136 | UU   | 2    | .052   |

TOTAL AREA= 25876  
MUL FACTOR=1.0000E+00

\* RUN # 29 APR 3, 1997 07:37:24  
START

0.342  
3.395  
9.030  
9.179  
9.295  
STOP

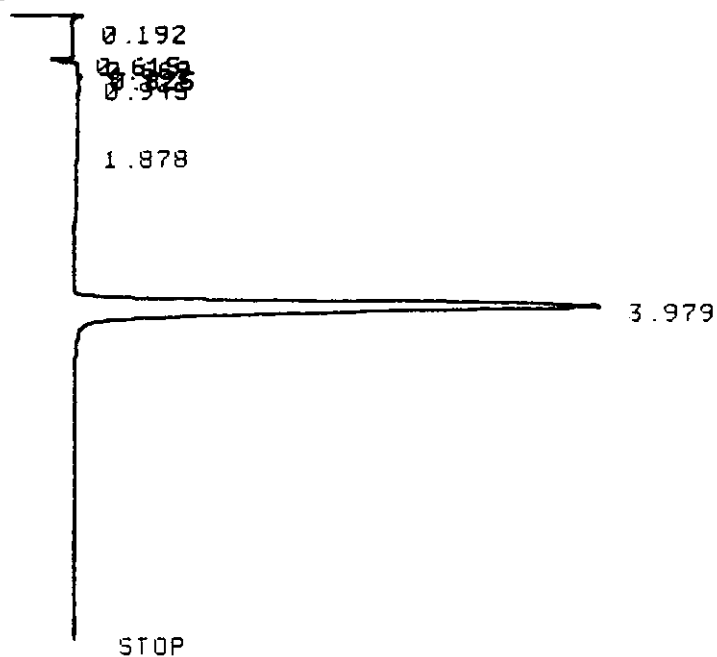
RUN# 29 APR 3, 1997 07:37:24

NO CALIB PEAKS FOUND  
AREA%

| RT    | AREA | TYPE | WIDTH | AREA%    |
|-------|------|------|-------|----------|
| .218  | 2026 | BU   | .051  | 13.88813 |
| .342  | 5976 | UU   | .120  | 40.96518 |
| 3.395 | 1239 | UU   | .085  | 8.49328  |
| 9.030 | 1242 | UU   | .113  | 8.51385  |
| 9.179 | 2039 | UU   | .116  | 13.97724 |
| 9.295 | 2066 | UU   | .091  | 14.16232 |

TOTAL AREA= 14588  
MUL FACTOR=1.0000E+00

\* RUN # 30 APR 3, 1997 07:51:00  
START



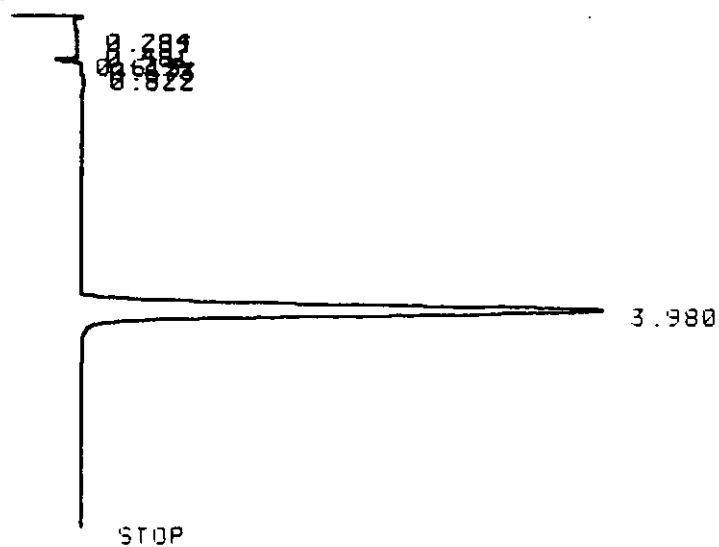
RUN# 30 APR 3, 1997 07:51:00

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.878 | 1402    | UP   | 1R   | .062   |
| 3.979 | 2537869 | BB   | 2    | 62.178 |

TOTAL AREA=2772749  
MUL FACTOR=1.0000E+00

\* RUN # 31 APR 3, 1997 08:00:20  
START



RUN# 31 APR 3, 1997 08:00:20

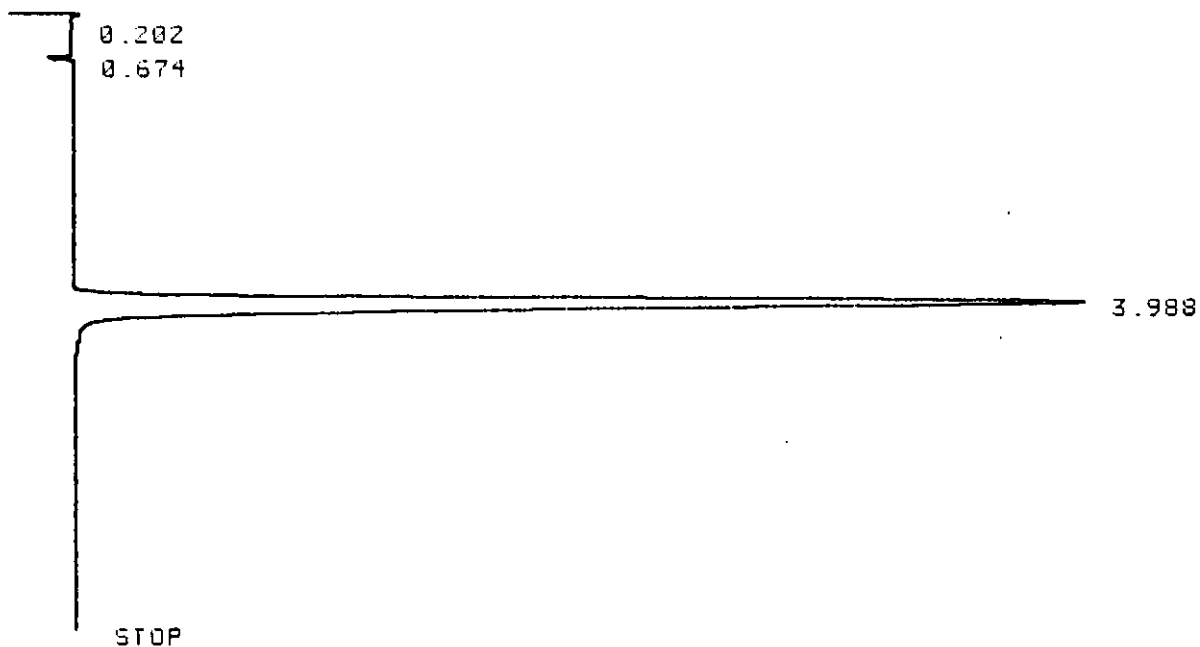
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 3.980 | 2526526 | PB   | 2    | 61.900 |

TOTAL AREA=2856301  
MUL FACTOR=1.0000E+00

\* RUN # 32 APR 3, 1997 08:08:40

START



RUN# 32 APR 3, 1997 08:08:40

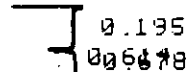
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.988 | 4892042 | PB   | 2    | 119.855 |

TOTAL AREA=4943139  
MUL FACTOR=1.0000E+00

\* RUN # 33 APR 3, 1997 08:18:23

START



STOP

RUN# 33 APR 3, 1997 08:18:23

ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT  |
|-------|------------|------|---------|
| 3.986 | 4951411 PB | 2    | 121.310 |

TOTAL AREA=5111994  
MUL FACTOR=1.0000E+00\* RUN # 34 APR 3, 1997 08:27:45  
START0.323  
005695

3.984

STOP

RUN# 34 APR 3, 1997 08:27:45

ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT  |
|-------|------------|------|---------|
| 3.984 | 8085232 BB | 2    | 198.088 |

TOTAL AREA=8.4406E+06  
MUL FACTOR=1.0000E+00\* RUN # 35 APR 3, 1997 08:33:12  
START0.189  
005656

5120

RUN# 35 APR 3, 1997 08:33:12

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.996 | 8096010 | PB   | 2    | 198.352 |

TOTAL AREA=8159123  
MUL FACTOR=1.00000E+00

START

1. The first step is to identify the problem.
 2. The second step is to define the problem.
 3. The third step is to analyze the problem.
 4. The fourth step is to develop a solution.
 5. The fifth step is to implement the solution.
 6. The sixth step is to evaluate the solution.
 7. The seventh step is to monitor the solution.
 8. The eighth step is to maintain the solution.
 9. The ninth step is to improve the solution.
 10. The tenth step is to document the solution.

1.910

2.649

3.007

3.984

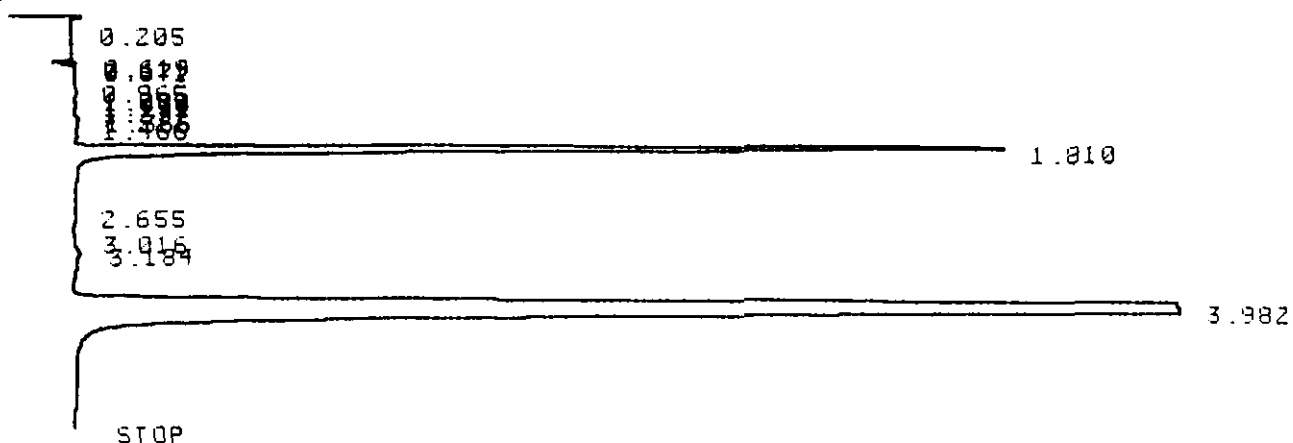
1.810

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.810 | 926488  | UB   | 1R   | 40.988 |
| 3.984 | 3964414 | PB   | 2    | 97.128 |

TOTAL AREA=5376973  
MUL FACTOR=1.0000E+00

\* RUN # 37 APR 3, 1997 10:40:10  
START



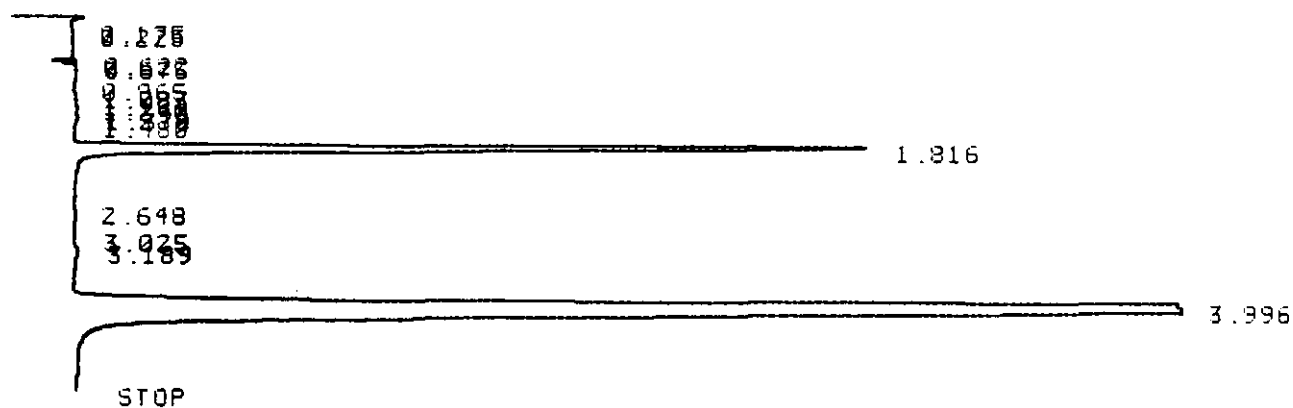
RUN# 37 APR 3, 1997 10:40:10

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.810 | 2042711 | UB   | 1R   | 90.371  |
| 3.982 | 9540531 | PB   | 2    | 233.743 |

TOTAL AREA=1.1976E+07  
MUL FACTOR=1.0000E+00

\* RUN # 38 APR 3, 1997 10:46:22  
START



RUN# 38 APR 3, 1997 10:46:22

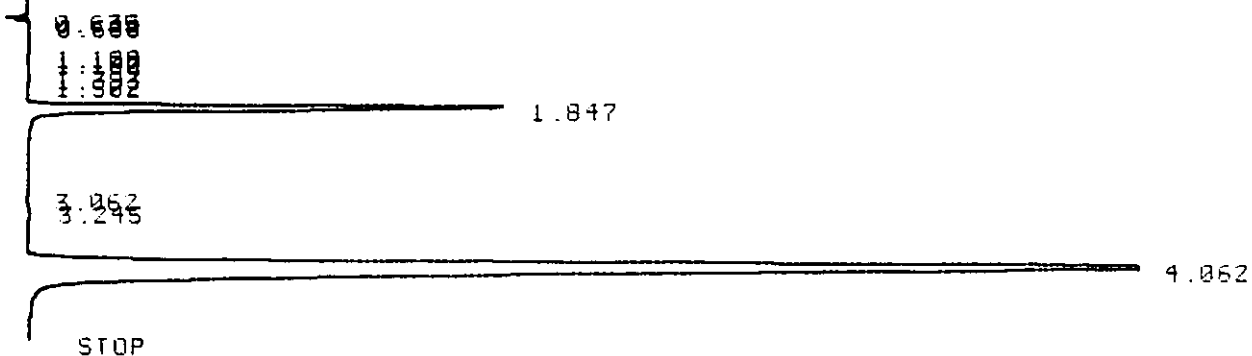
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.816 | 1746477 | UB   | 1R   | 77.265  |
| 3.996 | 8694611 | PB   | 2    | 213.018 |

TOTAL AREA=1.0873E+07  
MUL FACTOR=1.0000E+00



\* RUN # 39 APR 3, 1997 10:52:23  
START



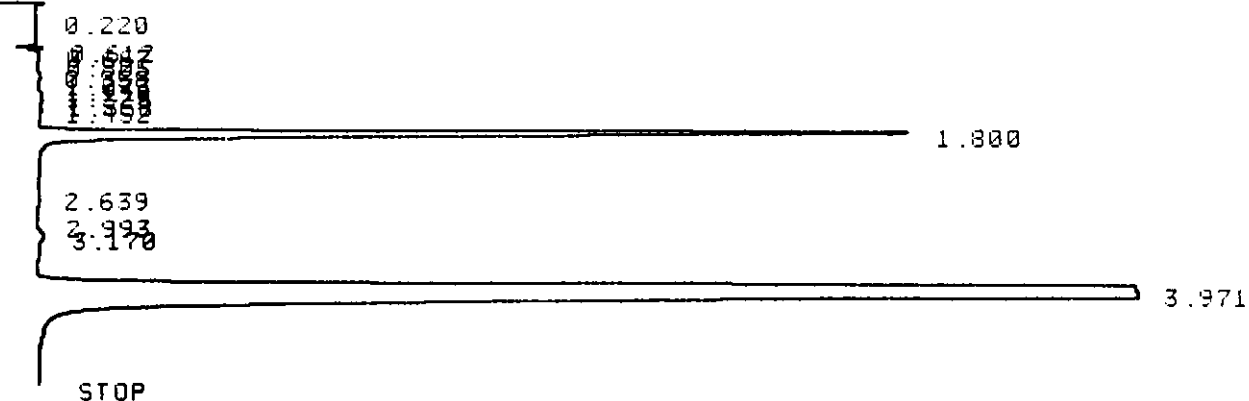
RUN# 39 APR 3, 1997 10:52:23

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.847 | 1074947 | UB   | 1R   | 47.556  |
| 4.062 | 5771395 | PB   | 2    | 141.399 |

TOTAL AREA=7101635  
MUL FACTOR=1.0000E+00

\* RUN # 40 APR 3, 1997 10:57:53  
START



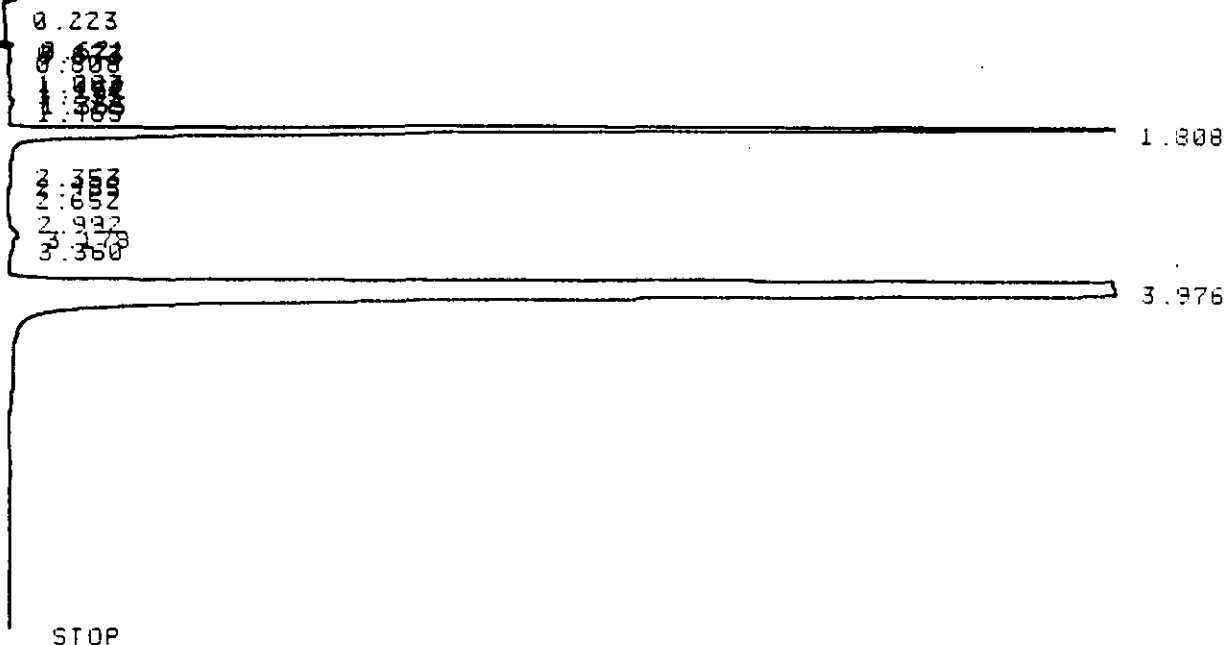
RUN# 40 APR 3, 1997 10:57:53

ESTD-AREA

| RT    | AREA     | TYPE | CAL# | AMOUNT  |
|-------|----------|------|------|---------|
| 1.800 | 1333297  | UB   | 1R   | 85.530  |
| 3.971 | 11039168 | PB   | 2    | 270.460 |

TOTAL AREA=1.3380E+07  
MUL FACTOR=1.0000E+00

\* RUN # 41 APR 3, 1997 11:04:04  
START



STOP

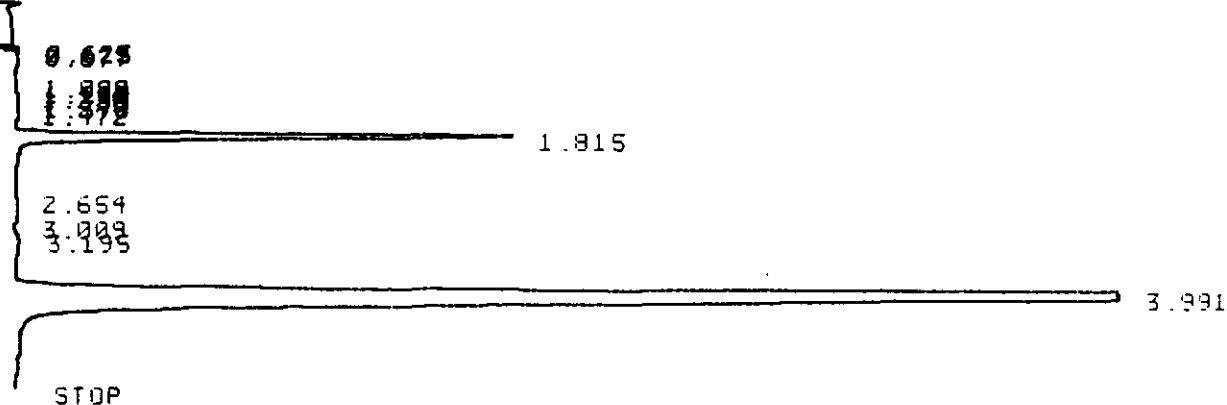
RUN# 41 APR 3, 1997 11:04:04

ESTD-AREA

| RT    | AREA     | TYPE | CAL# | AMOUNT  |
|-------|----------|------|------|---------|
| 1.808 | 2510957  | UB   | 1R   | 111.086 |
| 3.976 | 14700072 | PB   | 2    | 360.152 |

TOTAL AREA=1.7720E+07  
MUL FACTOR=1.0000E+00

\* RUN # 42 APR 3, 1997 11:13:14  
START



STOP

RUN# 42 APR 3, 1997 11:13:14

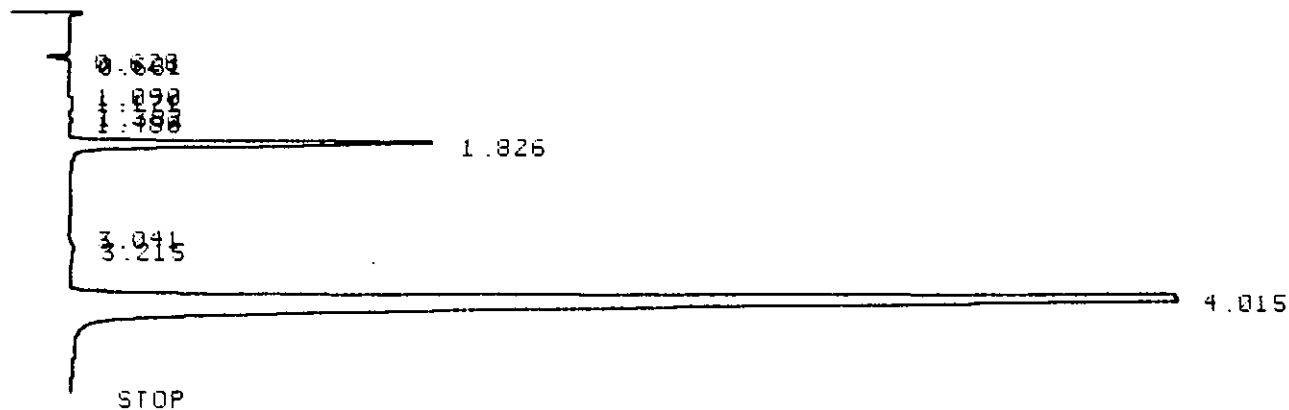
ESTD-AREA

| RT | AREA | TYPE | CAL# | AMOUNT |
|----|------|------|------|--------|
|----|------|------|------|--------|

|       |         |    |    |         |
|-------|---------|----|----|---------|
| 1.815 | 1115115 | UB | 1R | 49.333  |
| 3.991 | 7750589 | PB | 2  | 189.989 |

TOTAL AREA=9.2040E+06  
MUL FACTOR=1.0000E+00

\* RUN # 43 APR 3, 1997 11:19:10  
START



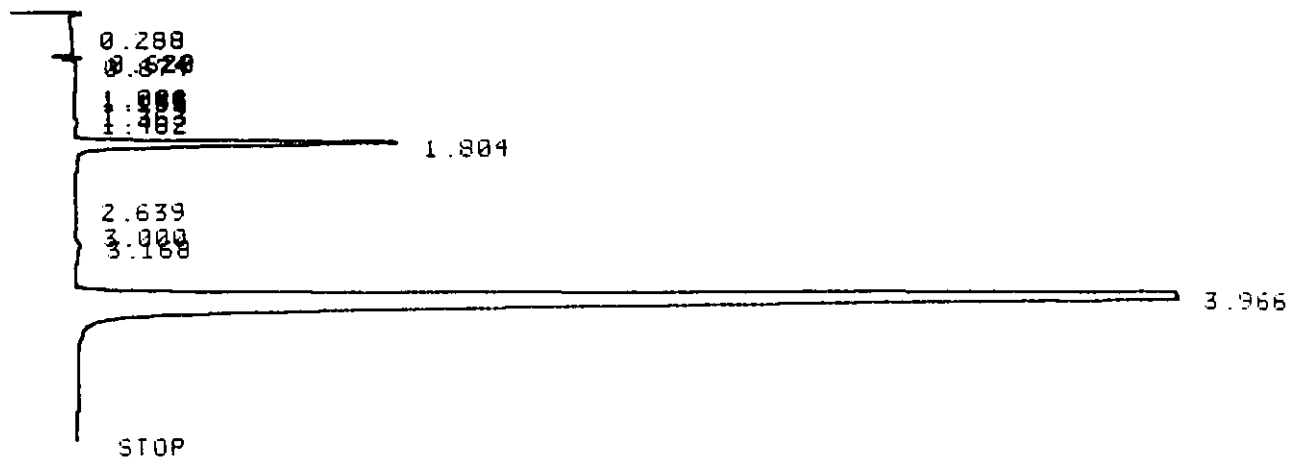
RUN# 43 APR 3, 1997 11:19:10

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.826 | 824657  | UB   | 1R   | 36.483  |
| 4.015 | 6831213 | PB   | 2    | 167.365 |

TOTAL AREA=7933907  
MUL FACTOR=1.0000E+00

\* RUN # 44 APR 3, 1997 11:25:06  
START



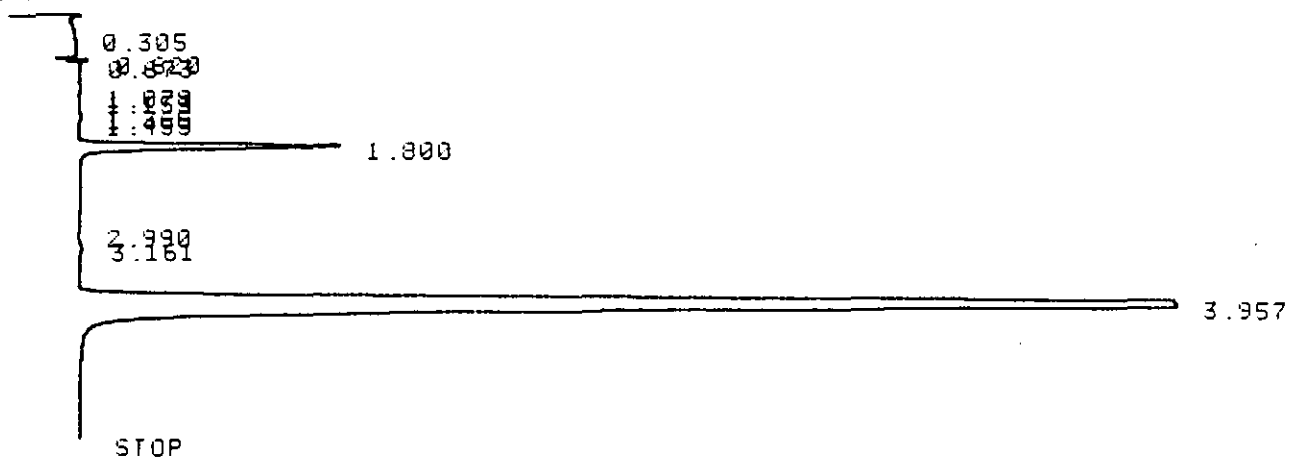
RUN# 44 APR 3, 1997 11:25:06

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.804 | 736304  | UB   | 1R   | 32.575  |
| 3.966 | 7300304 | PB   | 2    | 178.857 |

TOTAL AREA=8.4073E+06  
MUL FACTOR=1.0000E+00

\* RUN # 45 APR 3, 1997 11:32:00 ,  
START



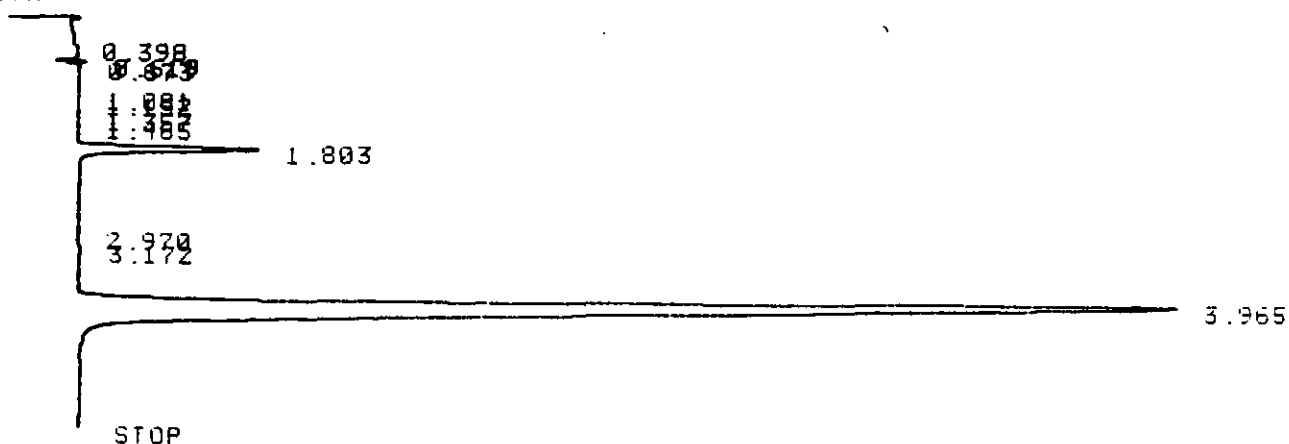
RUN# 45 APR 3, 1997 11:32:00

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.800 | 609411  | UB   | 1R   | 26.961  |
| 3.957 | 6570816 | PB   | 2    | 160.985 |

TOTAL AREA=7616080  
MUL FACTOR=1.0000E+00

\* RUN # 46 APR 3, 1997 11:38:30  
START

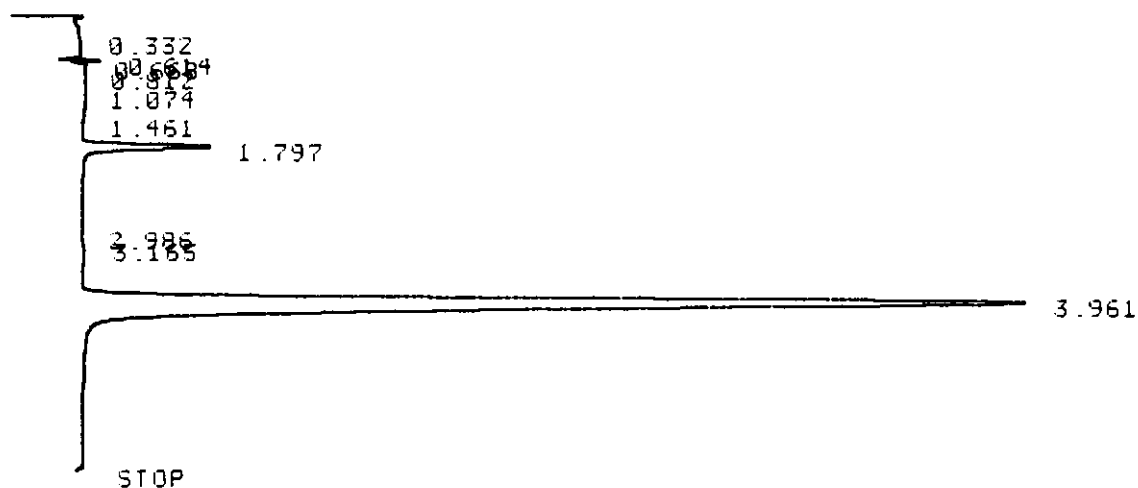


## ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.803 | 403122  | PB   | 1R   | 17.834  |
| 3.965 | 5316333 | PB   | 2    | 130.250 |

TOTAL AREA=5978010  
MUL FACTOR=1.0000E+00

\* RUN # 47 APR 3, 1997 11:44:38  
START



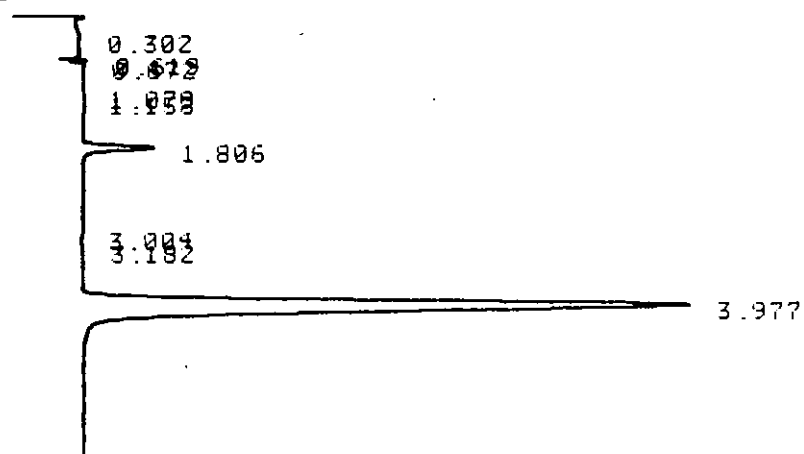
RUN# 47 APR 3, 1997 11:44:38

## ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.797 | 331656  | UB   | 1R   | 14.673  |
| 3.961 | 4590115 | PB   | 2    | 112.458 |

TOTAL AREA=5276829  
MUL FACTOR=1.0000E+00

\* RUN # 48 APR 3, 1997 11:51:19  
START



STOP

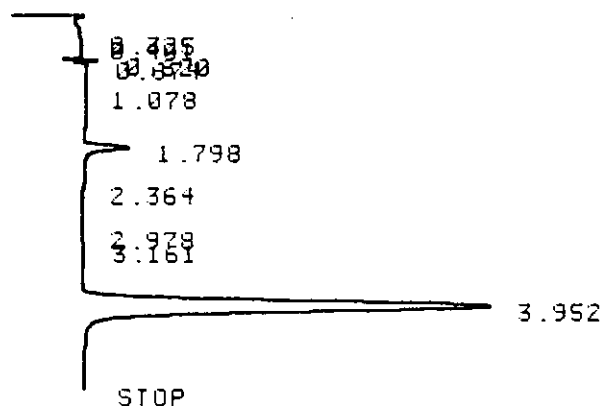
RUN# 48 APR 3, 1997 11:51:19

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.806 | 213163  | UB   | 1R   | 9.430  |
| 3.977 | 2943453 | PB   | 2    | 72.115 |

TOTAL AREA=3387141  
MUL FACTOR=1.0000E+00

\* RUN # 49 APR 3, 1997 12:00:18  
START



STOP

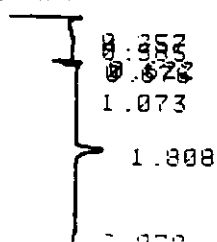
RUN# 49 APR 3, 1997 12:00:18

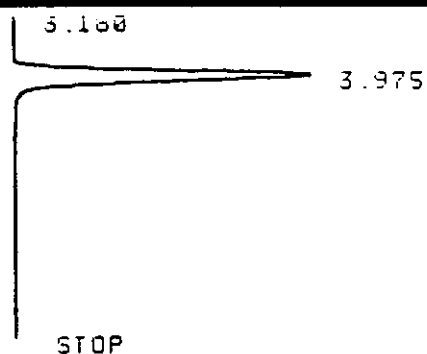
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.798 | 106222  | BB   | 1R   | 4.699  |
| 3.952 | 1973921 | PB   | 2    | 48.361 |

TOTAL AREA=2328138  
MUL FACTOR=1.0000E+00

\* RUN # 50 APR 3, 1997 12:06:08  
START





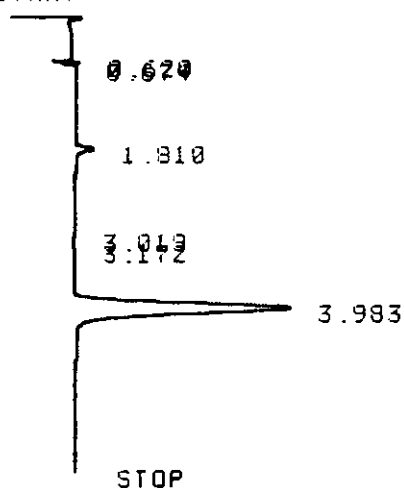
RUN# 50 APR 3, 1997 12:06:08

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.808 | 70982   | PV   | 1R   | 3.140  |
| 3.975 | 1445722 | PB   | 2    | 35.420 |

TOTAL AREA=1681223  
MUL FACTOR=1.0000E+00

\* RUN # 51 APR 3, 1997 12:14:15  
START



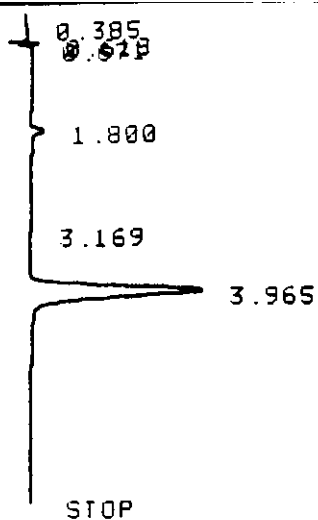
RUN# 51 APR 3, 1997 12:14:15

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.810 | 110902  | UV   | 1R   | 4.906  |
| 3.983 | 1054785 | PB   | 2    | 25.842 |

TOTAL AREA=1246767  
MUL FACTOR=1.0000E+00

• RUN # 52 APR 3, 1997 12:21:03  
START



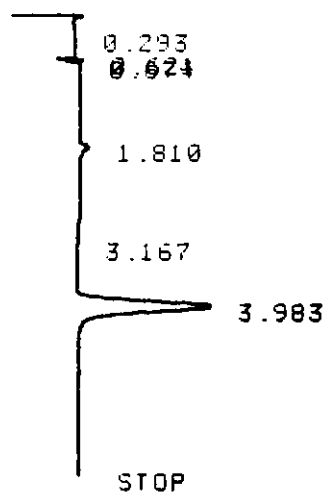
RUN# 52 APR 3, 1997 12:21:03

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.800 | 196300 | UV   | 1R   | 8.684  |
| 3.965 | 870677 | UV   | 2    | 21.332 |

TOTAL AREA=1381016  
MUL FACTOR=1.0000E+00

\* RUN # 53 APR 3, 1997 12:28:37  
START



RUN# 53 APR 3, 1997 12:28:37

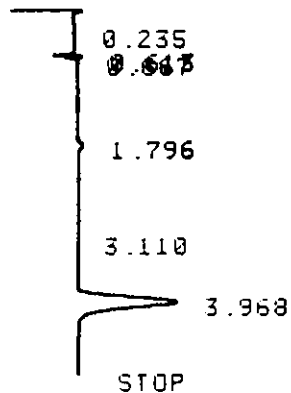
ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.810 | 131136 | UV   | 1R   | 5.802  |
| 3.983 | 652957 | PB   | 2    | 15.997 |

TOTAL AREA= 989435  
MUL FACTOR=1.0000E+00



\* RUN # 54 APR 3, 1997 12:35:30  
START



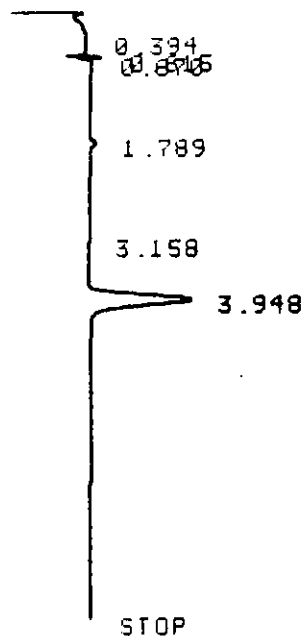
RUN# 54 APR 3, 1997 12:35:30

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.796 | 59982  | UU   | 1R   | 2.654  |
| 3.968 | 496894 | BU   | 2    | 12.174 |

TOTAL AREA= 732806  
MUL FACTOR=1.0000E+00

\* RUN # 55 APR 3, 1997 12:41:04  
START



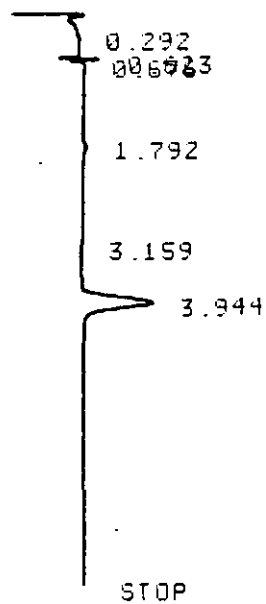
RUN# 55 APR 3, 1997 12:41:04

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.789 | 21487  | PV   | 1R   | .951   |
| 3.948 | 502537 | BU   | 2    | 12.312 |

TOTAL AREA= 745522  
MUL FACTOR=1.0000E+00

\* RUN # 56 APR 3, 1997 12:50:20  
START



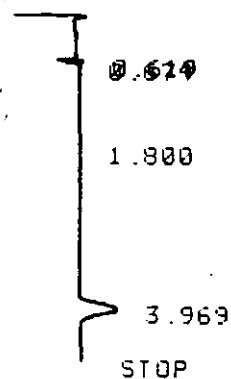
RUN# 56 APR 3, 1997 12:50:20

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.792 | 15412  | PU   | 1R   | .682   |
| 3.944 | 345678 | PU   | 2    | 8.469  |

TOTAL AREA= 550956  
MUL FACTOR=1.0000E+00

\* RUN # 57 APR 3, 1997 12:58:53  
START



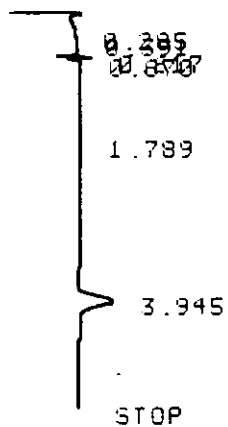
RUN# 57 APR 3, 1997 12:58:53

## ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.800 | 10849  | PU   | 1R   | .480   |
| 3.969 | 192203 | PU   | 2    | 4.709  |

TOTAL AREA= 290336  
MUL FACTOR=1.0000E+00

\* RUN # 58 APR 3, 1997 13:04:18  
START



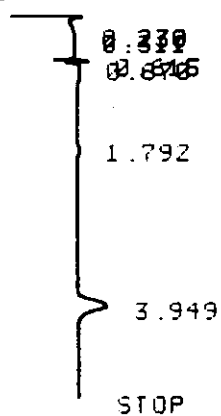
RUN# 58 APR 3, 1997 13:04:18

## ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.789 | 91268  | UU   | 1R   | 4.038  |
| 3.945 | 182180 | PU   | 2    | 4.463  |

TOTAL AREA= 519545  
MUL FACTOR=1.0000E+00

\* RUN # 59 APR 3, 1997 13:10:39  
START

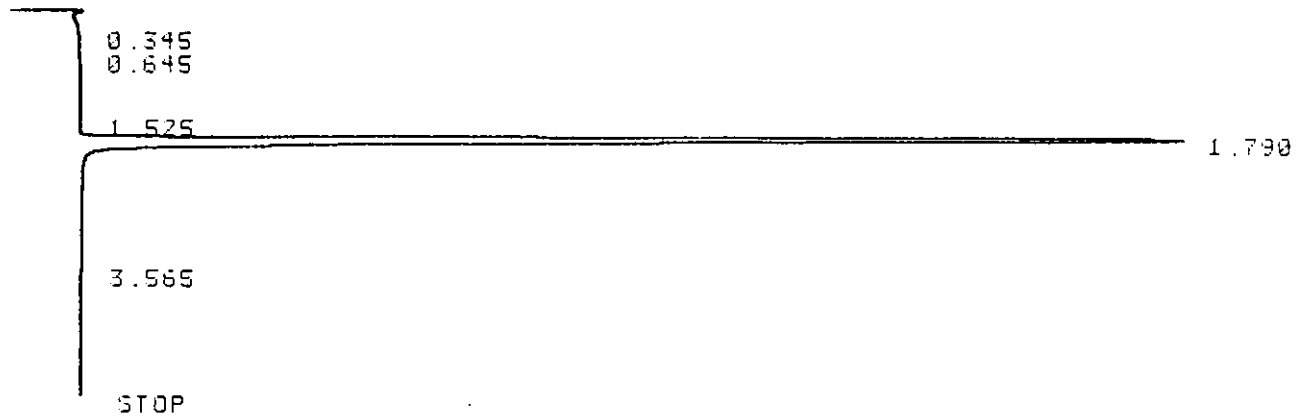


RUN# 59 APR 3, 1997 13:10:39

| ESTD-AREA | RT    | AREA TYPE | CAL# | AMOUNT |
|-----------|-------|-----------|------|--------|
|           | 1.792 | 8902 PU   | 1R   | .394   |
|           | 3.949 | 150283 UU | 2    | 3.682  |

TOTAL AREA= 331536  
MUL FACTOR=1.0000E+00

\* RUN # 60 APR 3, 1997 13:17:15  
START

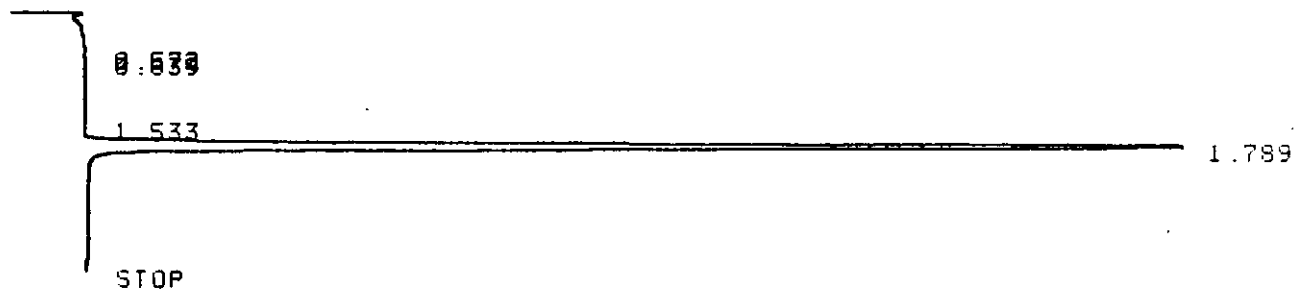


RUN# 60 APR 3, 1997 13:17:15

| ESTD-AREA | RT    | AREA TYPE  | CAL# | AMOUNT  |
|-----------|-------|------------|------|---------|
|           | 1.790 | 2636149 PB | 1R   | 116.625 |

TOTAL AREA=2679224  
MUL FACTOR=1.0000E+00

\* RUN # 61 APR 3, 1997 13:23:29  
START

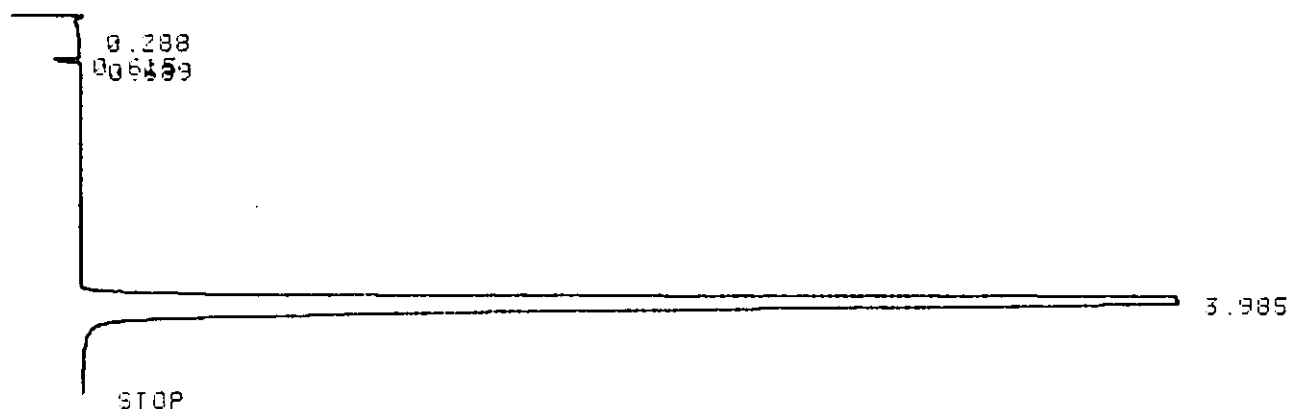


RUN# 61 APR 3, 1997 13:23:29

| ESTD-AREA | RT    | AREA TYPE  | CAL# | AMOUNT  |
|-----------|-------|------------|------|---------|
|           | 1.789 | 2636149 PB | 1R   | 116.625 |

TOTAL AREA=2773085  
MUL FACTOR=1.0000E+00

\* RUN # 62 APR 3, 1997 13:29:15  
START



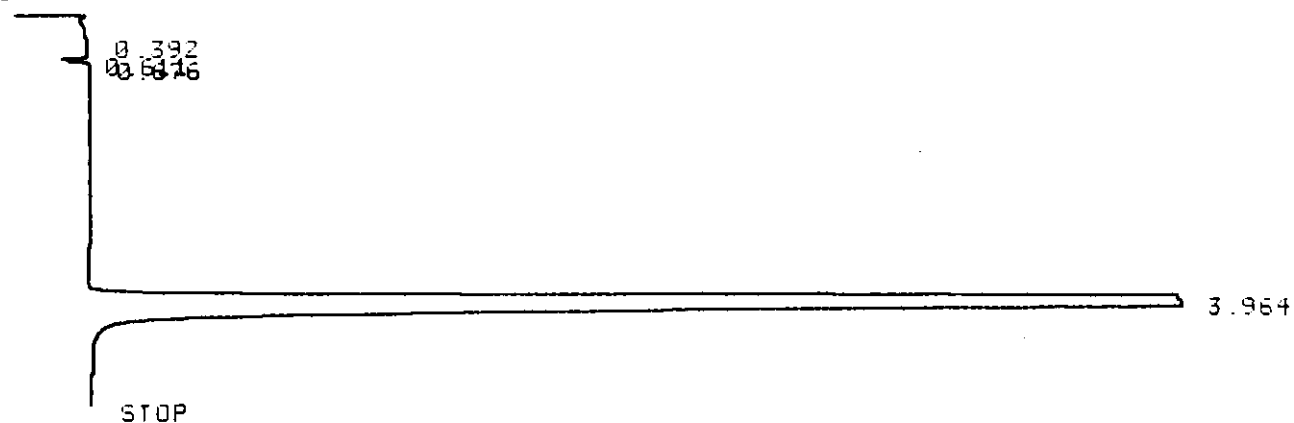
RUN# 62 APR 3, 1997 13:29:15

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.985 | 7712413 | BB   | 2    | 188.954 |

TOTAL AREA=7853213  
MUL FACTOR=1.0000E+00

\* RUN # 63 APR 3, 1997 13:35:11  
START



RUN# 63 APR 3, 1997 13:35:11

ESTD-AREA

| RT    | AREA     | TYPE | CAL# | AMOUNT  |
|-------|----------|------|------|---------|
| 3.964 | 10368256 | PB   | 2    | 254.022 |

TOTAL AREA=10368256

MUL FACTOR=1.0000E+00

\* RUN # 64 APR 3, 1997 13:41:33  
START

0.265  
00.6061

2.358

3.972

5.869  
STOP

RUN# 64 APR 3, 1997 13:41:33

ESTD-AREA

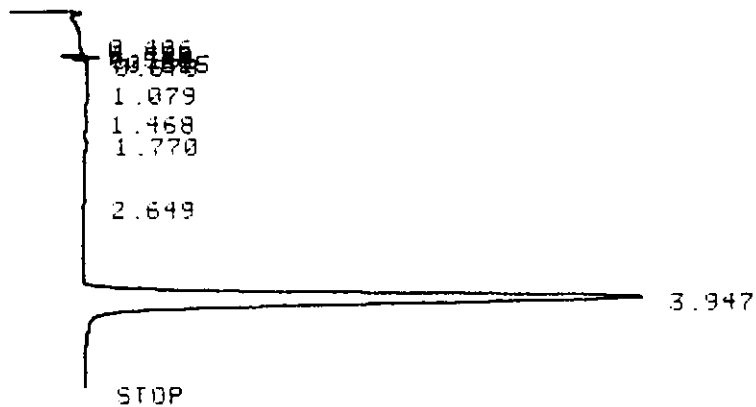
| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.972 | 7991258 | PB   | 2    | 195.786 |

TOTAL AREA=8105792  
MUL FACTOR=1.0000E+00

\*

18' deck Corrosion  
NMAA-4-1  
0403-2

\* RUN # 65 APR 3, 1997 14:58:08  
START



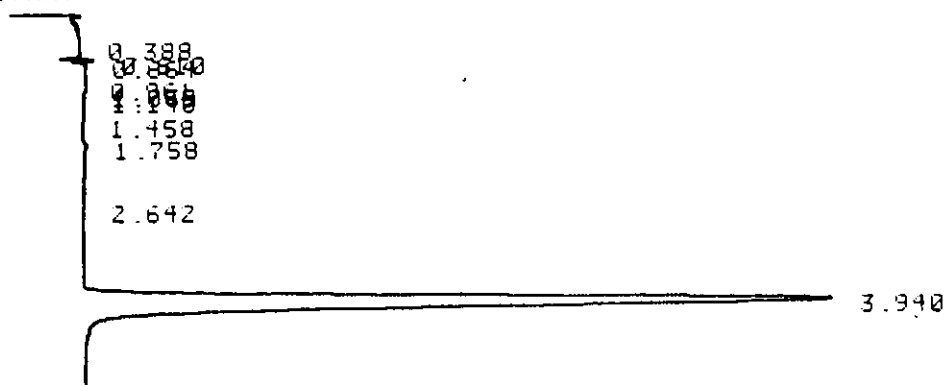
RUN# 65 APR 3, 1997 14:58:08

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.770 | 90848   | UU   | 1R   | 4.019  |
| 3.947 | 2703189 | PB   | 2    | 66.228 |

TOTAL AREA=3238891  
MUL FACTOR=1.0000E+00

\* RUN # 66 APR 3, 1997 15:03:44  
START



1 STOP

RUN# 66 APR 3, 1997 15:03:44

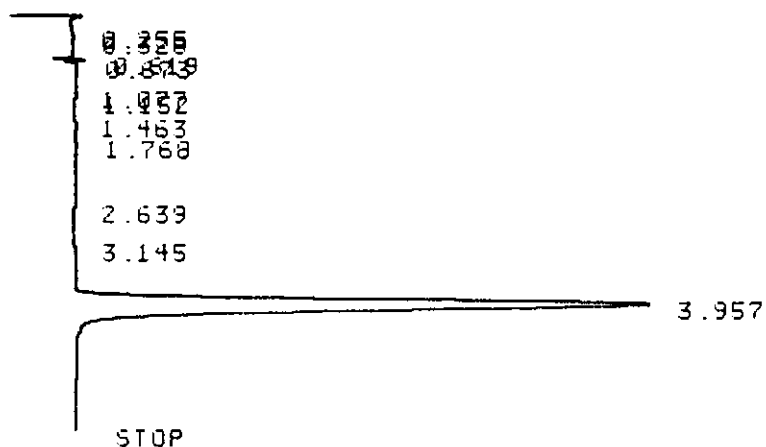
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.758 | 129114  | UU   | 1R   | 5.712  |
| 3.940 | 3633230 | UB   | 2    | 89.014 |

TOTAL AREA=4446755  
MUL FACTOR=1.0000E+00

\* RUN # 67 APR 3, 1997 15:10:02

START



RUN# 67 APR 3, 1997 15:10:02

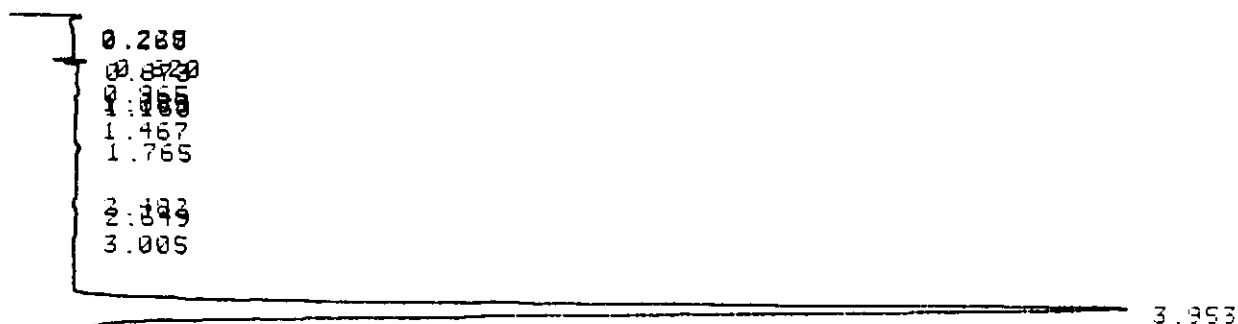
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.768 | 49121   | UU   | 1R   | 2.173  |
| 3.957 | 2783997 | PB   | 2    | 68.208 |

TOTAL AREA=3168058  
MUL FACTOR=1.0000E+00

\* RUN # 68 APR 3, 1997 15:16:33

START





STOP

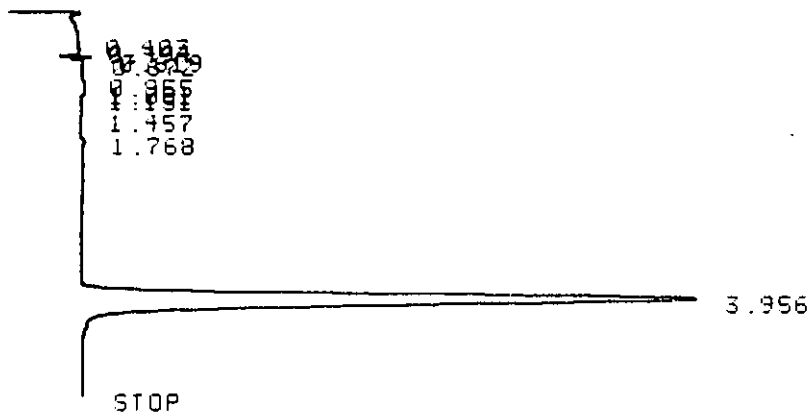
RUN# 68 APR 3, 1997 15:16:33

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.765 | 142365  | UU   | 1R   | 6.298   |
| 3.953 | 5028627 | BB   | 2    | 123.201 |

TOTAL AREA=5651341  
MUL FACTOR=1.0000E+00

\* RUN # 69 APR 3, 1997 15:23:30  
START



RUN# 69 APR 3, 1997 15:23:30

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.768 | 91538   | UU   | 1R   | 4.050  |
| 3.956 | 2975566 | BB   | 2    | 72.901 |

TOTAL AREA=3545162  
MUL FACTOR=1.0000E+00

\* RUN # 70 APR 3, 1997 15:29:18  
START



STOP

RUN# 70 APR 3, 1997 15:29:18

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.753 | 61022   | UU   | 1R   | 2.700  |
| 3.939 | 2617290 | BB   | 2    | 64.124 |

TOTAL AREA=3076834  
MUL FACTOR=1.0000E+00

• RUN # 71 APR 3, 1997 15:34:59

START

0.253  
0.352  
0.453  
1.466  
1.766  
2.366  
2.653  
3.959

3.959

STOP

RUN# 71 APR 3, 1997 15:34:59

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.766 | 157513  | UU   | 1R   | 6.968   |
| 3.959 | 6292653 | PB   | 2    | 154.170 |

TOTAL AREA=7054282  
MUL FACTOR=1.0000E+00

\* RUN # 72 APR 3, 1997 15:41:01

START

0.253  
0.352  
0.453  
1.468  
1.773  
2.360  
2.663  
3.952

STOP

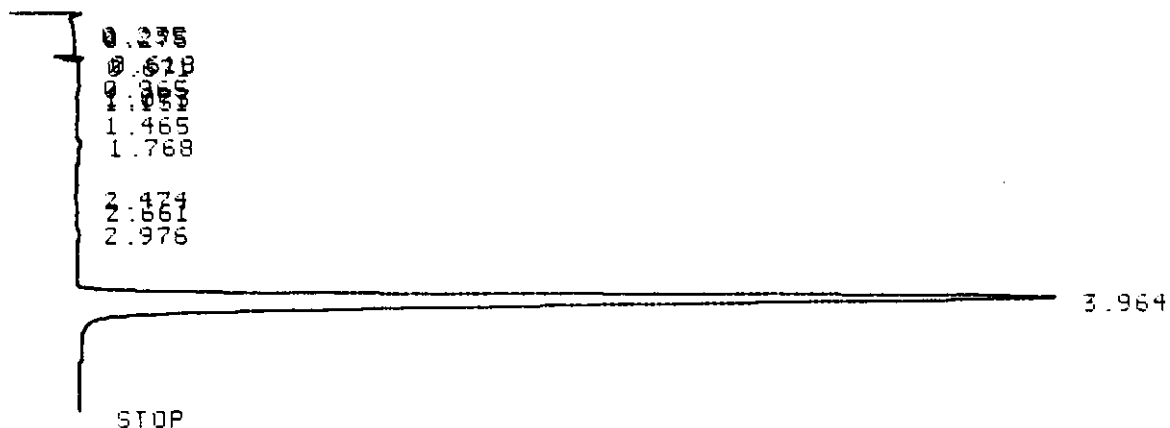
RUN# 72 APR 3, 1997 15:41:01

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.773 | 152115  | UU   | 1R   | 6.730   |
| 3.965 | 5592202 | PB   | 2    | 137.009 |

TOTAL AREA=6297328  
 MUL FACTOR=1.0000E+00

\* RUN # 73 APR 3, 1997 15:47:00  
 START



STOP

RUN# 73 APR 3, 1997 15:47:00

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.768 | 118489  | UU   | 1R   | 5.242   |
| 3.964 | 4732771 | PB   | 2    | 115.953 |

TOTAL AREA=5330074  
 MUL FACTOR=1.0000E+00

\* RUN # 74 APR 3, 1997 15:53:13  
 START



STOP

RUN# 74 APR 3, 1997 15:53:13

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.785 | 110787  | UU   | 1R   | 4.901   |
| 4.006 | 5129690 | PB   | 2    | 125.677 |

TOTAL AREA=5589600

MUL FACTOR=1.0000E+00

\* RUN # 75 APR 3, 1997 16:01:08

START

0.298  
~~0.502~~  
~~0.845~~  
~~1.035~~  
 1.458  
 1.758

2.450  
~~2.649~~  
 2.967

3.955

STOP

RUN# 75 APR 3, 1997 16:01:08

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.758 | 140228  | UU   | 1R   | 6.204   |
| 3.955 | 4672861 | PB   | 2    | 114.485 |

TOTAL AREA=5337654

MUL FACTOR=1.0000E+00

\* RUN # 76 APR 3, 1997 16:07:14

START

0.256  
~~0.522~~  
~~1.030~~  
 1.465

2.480  
2.667

3.965

STOP

RUN# 76 APR 3, 1997 16:07:14

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.773 | 154826  | UU   | 1R   | 6.850  |
| 3.965 | 3490486 | UB   | 2    | 85.517 |

TOTAL AREA=4085674  
MUL FACTOR=1.0000E+00

\* RUN # 77 APR 3, 1997 16:13:00

START

0.379  
0.616  
1.045  
1.461  
1.766

2.655

3.955

STOP

RUN# 77 APR 3, 1997 16:13:00

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.766 | 115181  | UU   | 1R   | 5.096  |
| 3.955 | 2561261 | PB   | 2    | 62.751 |

TOTAL AREA=3143165  
MUL FACTOR=1.0000E+00

\* RUN # 78 APR 3, 1997 16:18:43

START

0.282  
0.617  
1.040  
1.770

1.000  
 3.962  
 STOP

RUN# 78 APR 3, 1997 16:18:43

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.770 | 120773  | 00   | 1R   | 5.343  |
| 3.962 | 1979686 | 88   | 2    | 48.502 |

TOTAL AREA=2431898  
 MUL FACTOR=1.0000E+00

\* RUN # 79 APR 3, 1997 16:24:21  
 START

0.322  
~~0.523~~  
 1.082  
 1.769  
 2.647  
 3.959  
 STOP

RUN# 79 APR 3, 1997 16:24:21

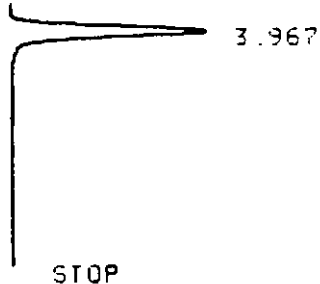
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.769 | 9600    | 8U   | 1R   | .425   |
| 3.959 | 1537252 | PB   | 2    | 37.663 |

TOTAL AREA=1743975  
 MUL FACTOR=1.0000E+00

\* RUN # 80 APR 3, 1997 16:29:44  
 START

0.266  
~~0.520~~  
 1.073  
 1.775  
 2.658



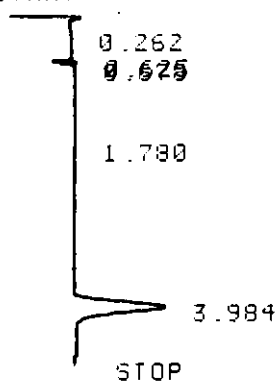
RUN# 80 APR 3, 1997 16:29:44

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.775 | 92688  | UU   | 1R   | 4.101  |
| 3.967 | 952722 | BB   | 2    | 23.342 |

TOTAL AREA=1236872  
MUL FACTOR=1.0000E+00

\* RUN # 81 APR 3, 1997 16:37:30  
START



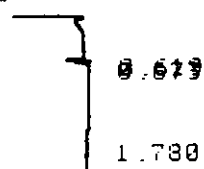
RUN# 81 APR 3, 1997 16:37:30

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.780 | 5387   | BU   | 1R   | .238   |
| 3.984 | 449567 | PU   | 2    | 11.014 |

TOTAL AREA= 644602  
MUL FACTOR=1.0000E+00

\* RUN # 82 APR 3, 1997 16:43:08  
START



3.980  
STOP

RUN# 82 APR 3, 1997 16:43:08

| ESTD-AREA |        |      |      |        |
|-----------|--------|------|------|--------|
| RT        | AREA   | TYPE | CAL# | AMOUNT |
| 1.780     | 150943 | UU   | 1R   | 6.678  |
| 3.980     | 311497 | UU   | 2    | 7.632  |

TOTAL AREA= 573468  
MUL FACTOR=1.0000E+00

\* RUN # 83 APR 3, 1997 16:48:50  
START

0.283  
0.616  
3.965  
STOP

RUN# 83 APR 3, 1997 16:48:50

| ESTD-AREA |        |      |      |        |
|-----------|--------|------|------|--------|
| RT        | AREA   | TYPE | CAL# | AMOUNT |
| 3.965     | 138130 | BU   | 2    | 3.384  |

TOTAL AREA= 367012  
MUL FACTOR=1.0000E+00

\* RUN # 84 APR 3, 1997 16:56:45  
START

0.374  
0.665



3.965

STOP

RUN# 84 APR 3, 1997 16:56:45

ESTD-AREA

| RT    | AREA  | TYPE | CAL# | AMOUNT |
|-------|-------|------|------|--------|
| 1.775 | 2345  | PP   | 1R   | .104   |
| 3.965 | 73190 | PU   | 2    | 1.793  |

TOTAL AREA= 252161  
MUL FACTOR=1.0000E+00

\* RUN # 85 APR 3, 1997 17:02:46  
START

0.403  
0.502

1.764

3.934

STOP

RUN# 85 APR 3, 1997 17:02:46

ESTD-AREA

| RT    | AREA  | TYPE | CAL# | AMOUNT |
|-------|-------|------|------|--------|
| 1.764 | 81203 | UU   | 1R   | 3.592  |
| 3.934 | 62627 | UU   | 2    | 1.534  |

TOTAL AREA= 427150  
MUL FACTOR=1.0000E+00

\* RUN # 86 APR 3, 1997 17:11:00  
START

0.322

0.899  
 1.462  
 1.798  
 2.486  
 3.015  
 3.597

3.963

STOP

RUN# 86 APR 3, 1997 17:11:00

ESTD-AREA

| RT    | AREA     | TYPE | CAL# | AMOUNT  |
|-------|----------|------|------|---------|
| 1.798 | 25956    | UU   | 1R   | 1.148   |
| 3.963 | 17261280 | PB   | 2    | 422.901 |

TOTAL AREA=1.7344E+07  
 MUL FACTOR=1.0000E+00

\* RUN # 87 APR 3, 1997 17:21:01  
 START

0.165  
 0.703  
 1.473  
 1.810  
 2.430  
 3.011  
 3.636

3.987

STOP

RUN# 87 APR 3, 1997 17:21:01

ESTD-AREA

| RT | AREA | TYPE | CAL# | AMOUNT |
|----|------|------|------|--------|
|----|------|------|------|--------|

|       |          |    |    |         |
|-------|----------|----|----|---------|
| 1.810 | 22293    | UU | 1R | .986    |
| 3.987 | 14594400 | PB | 2  | 357.563 |

TOTAL AREA=1.4637E+07  
MUL FACTOR=1.0000E+00

\* RUN # 88 APR 3, 1997 17:30:22  
START

0.155

0.701

0.900

1.200

1.470

1.811

2.438

3.030

3.660

3.999

24.331

STOP

RUN# 88 APR 3, 1997 17:30:22

ESTD-AREA

| RT    | AREA     | TYPE | CAL# | AMOUNT  |
|-------|----------|------|------|---------|
| 1.811 | 35381    | UU   | 1R   | 1.565   |
| 3.999 | 13331768 | PB   | 2    | 326.628 |

TOTAL AREA=1.3453E+07

MUL FACTOR=1.0000E+00

\* RUN # 89 APR 3, 1997 18:02:34

START

006655

3.998

STOP

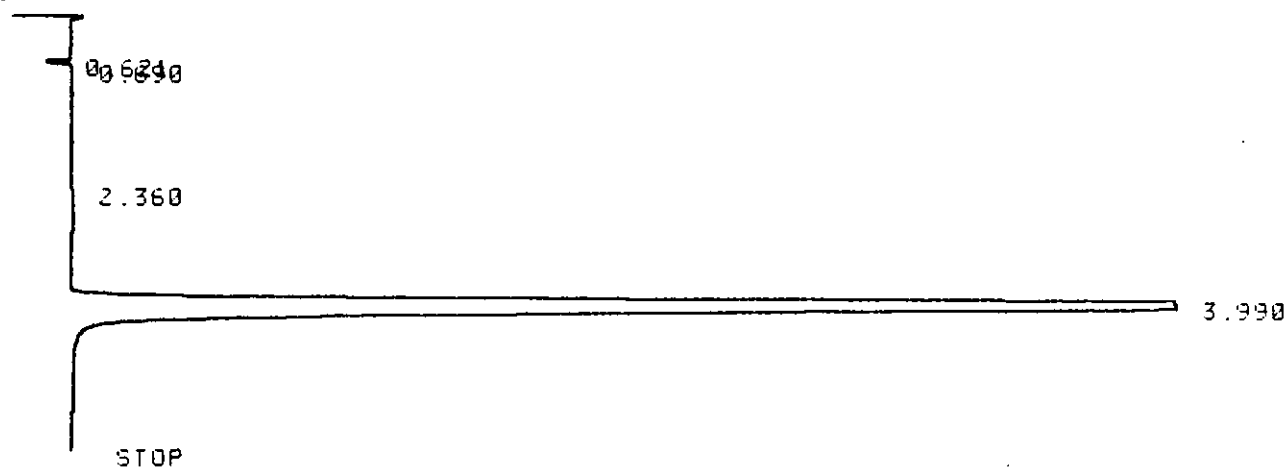
RUN# 89 APR 3, 1997 18:02:34

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.998 | 7464080 | PB   | 2    | 182.870 |

TOTAL AREA=7518950  
MUL FACTOR=1.0000E+00

\* RUN # 90 APR 3, 1997 18:09:34  
START



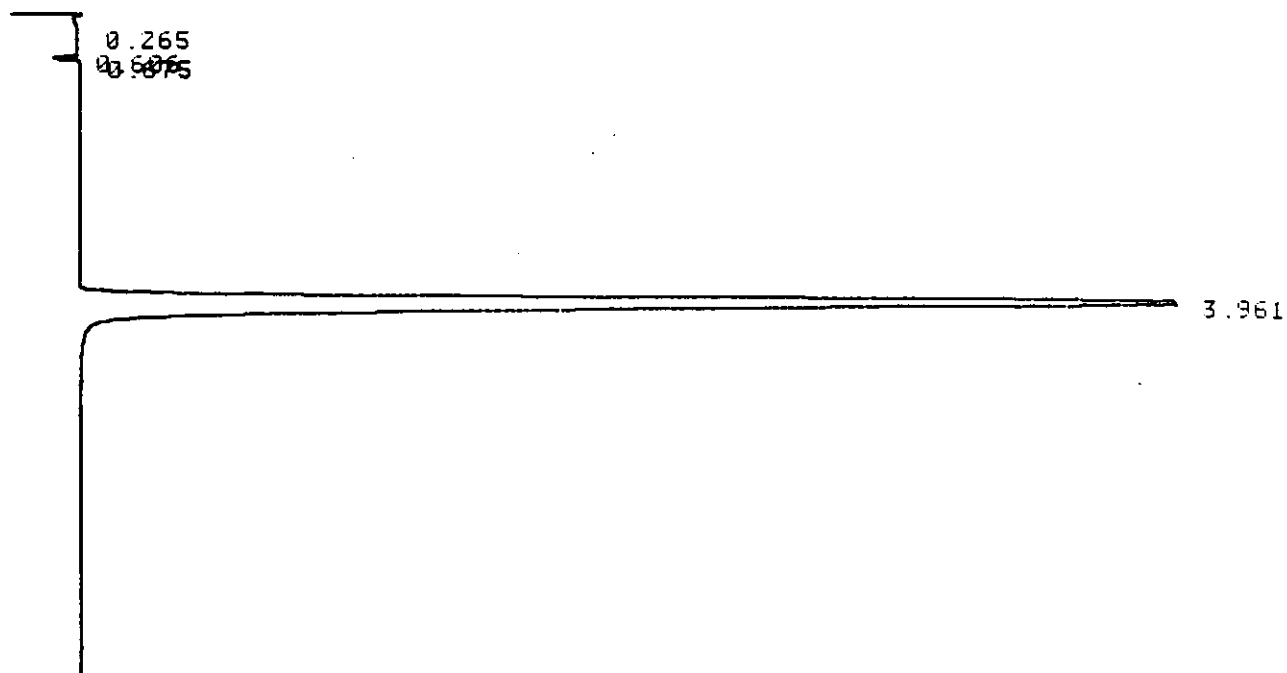
RUN# 90 APR 3, 1997 18:09:34

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.990 | 7922810 | PB   | 2    | 194.109 |

TOTAL AREA=8009664  
MUL FACTOR=1.0000E+00

\* RUN # 91 APR 3, 1997 18:17:07  
START



STOP

RUN# 91 APR 3, 1997 18:17:07

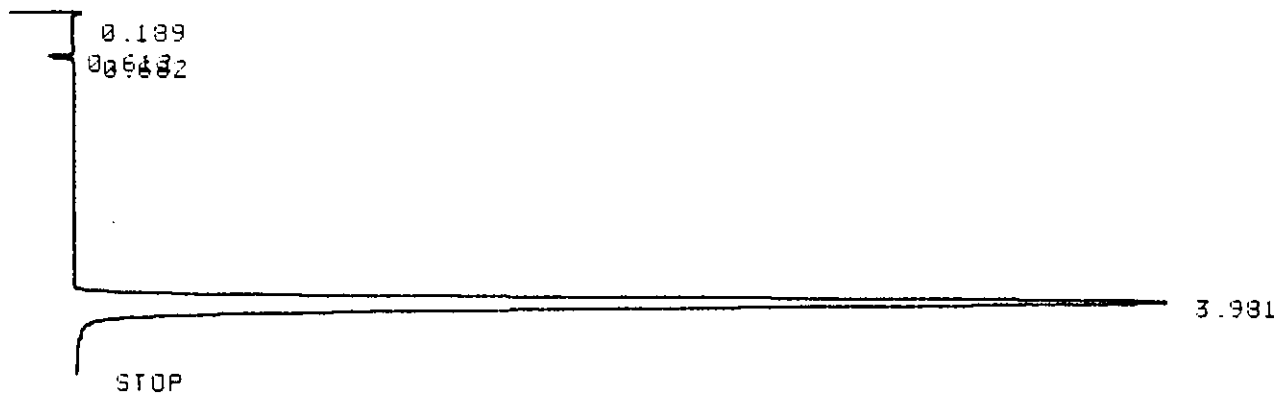
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.961 | 5751037 | PB   | 2    | 140.900 |

TOTAL AREA=5941187

MUL FACTOR=1.0000E+00

\* RUN # 92 APR 3, 1997 18:27:45  
START



RUN# 92 APR 3, 1997 18:27:45

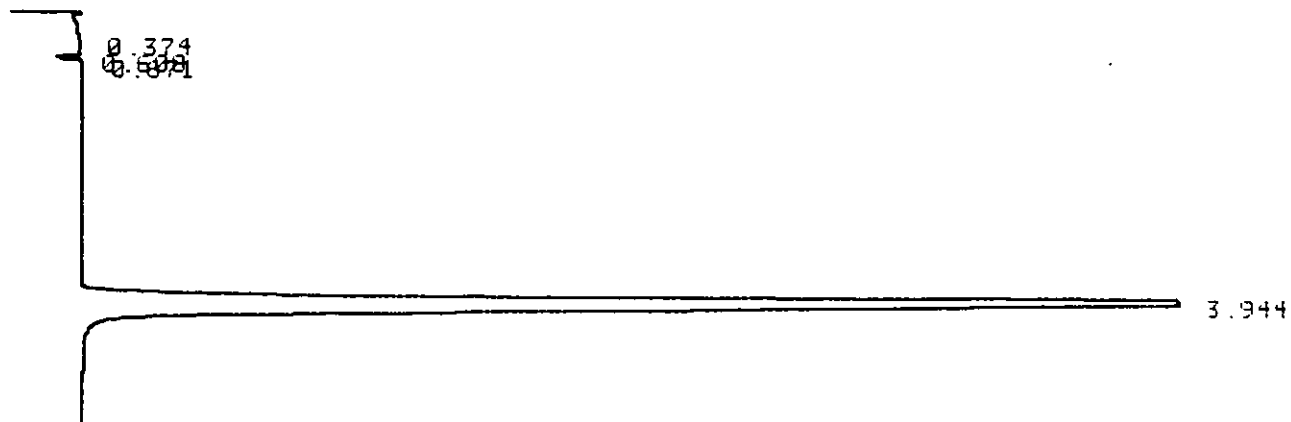
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.981 | 5286512 | BB   | 2    | 129.520 |

TOTAL AREA=5397706

MUL FACTOR=1.0000E+00

\* RUN # 93 APR 3, 1997 18:33:05  
START



STOP

RUN# 93 APR 3, 1997 18:33:05

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.944 | 6186522 | BB   | 2    | 151.570 |

TOTAL AREA=6410592

MUL FACTOR=1.0000E+00

\* RUN # 94 APR 3, 1997 18:41:28

START

3.987

3.987

STOP

RUN# 94

APR 3, 1997 19:41:28

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.887 | 7862992 | PB   | 2    | 192.643 |

TOTAL AREA=8202070

MUL FACTOR=1.0000E+00

\*



4/3/97 TAC Log

Cals performed based on 04028. Cal - Pm files

1<sup>st</sup> Out span voided due to slight sample pressure error. Attempts to adjust during data logging resulted in overshooting pressure & logging bad data

Mid ranges @ outlet TAC higher due to calibration

NMMA-8-1

\* Run 0403-1 = Gel coat, 28' Hull, Test # 8, Run 1 - Spray start ~1030

1052 Mold rotated

1054 Restart Gel coating

Up dropping, possibly due to plugging filter

Gel coating done ~1105:21

Velocity Traverse performed in H port @ 1135

V-8:17 H-8 - .17

7-.18 7 - .18

4-.18 6 - .18

5-.18 5 - .17

4-.18 4 - .17

3-.18 3 - .16

2-.17 2 - .16

1-.16 1 - .15

Static 28-3.24

P<sub>b</sub> = 30.1

Port V performed post test

R.H. = 60% @ 65°

done @ 1137

End of Run 1315

600 ppm Reading ~620

4/3/97 Run 0403-2 18' <sup>deck</sup> ~~lath~~ Lamination - Numbat - 4-1

On line @ 1450

Start 1456

Temperature @ 1518 = 77 @ DAS 68 @ HW

Skin coat done 1515

Temperature @ 1527 = 77 @ DAS 68 @ HW

Lamination restarted ~ 1530

$T_s = 70$  @ <sup>HW</sup> ~~DAS~~ 78 @ DAS

Lamination ended 1550

$T_s = 68$  @ HW 76 @ DAS

Flow @ 1619

|     |     |     |     |
|-----|-----|-----|-----|
| H-8 | .16 | V-8 | .17 |
| 7   | .17 | 7   | .17 |
| 6   | .17 | 6   | .17 |
| 5   | .17 | 5   | .17 |
| 4   | .17 | 4   | .18 |
| 3   | .17 | 3   | .18 |
| 2   | .17 | 2   | .17 |
| 1   | .16 | 1   | .16 |

$T_s = 68$

RH = 43%

Flow on das impacted

@ 1621 & 1622

No Noticeable change in  
THC (probe out of stack for  
very little time, ~ 3 sec)

$T_s = 62$  @ HW 72 @ DAS @ 1701

End run 1702 @ 3 ppm

Thermocouple cal:  $32^\circ = 16^\circ$  @ DAS

212 = 314 @ DAS

040397 Am CALS  
 NMMA Response factor test  
 @ 45.6 ppm (= Bag 1)

RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-03-1997 Current Time = 07:23:22  
 File Name = c:\ce\data\040397.PRN Calibration File: c:\ce\data\0402B.CAL

Test #: 0ppm

| 04-03-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 07:23:24           | -0.0         | -0.2         | 0.0           | 61.5      | -227.9      |
| 07:23:25           | -0.0         | -0.2         | 0.0           | 61.5      | -227.9      |
| 07:23:35           | -0.0         | -0.2         | 0.0           | 62.0      | -226.5      |
| 07:23:45           | -0.0         | -0.1         | 0.0           | 62.0      | -226.4      |
| 07:23:55           | -0.0         | -0.0         | 0.0           | 61.9      | -226.4      |
| 07:24:05           | -0.0         | -0.0         | 0.0           | 61.9      | -225.8      |
| 07:24:15           | -0.0         | -0.0         | 0.0           | 61.7      | -226.5      |
| 07:24:25           | 0.0          | -0.0         | 0.0           | 61.7      | -225.7      |
| 07:24:35           | -0.0         | -0.1         | 0.0           | 61.6      | -226.4      |
| 07:24:45           | -0.0         | -0.1         | 0.0           | 61.6      | -226.5      |
| 07:24:55           | -0.0         | -0.0         | 0.0           | 61.4      | -226.5      |
| 07:25:05           | -0.1         | -0.1         | 0.0           | 61.3      | -226.4      |
| 07:25:15           | -0.0         | -0.1         | 0.0           | 61.1      | -226.6      |
| 07:25:25           | -0.0         | -0.1         | 0.0           | 60.9      | -226.5      |
| 07:25:35           | -0.0         | -0.1         | 0.0           | 60.6      | -225.6      |
| 07:25:45           | -0.0         | -0.1         | 0.0           | 60.2      | -226.5      |
| 07:25:55           | -0.0         | -0.2         | 0.0           | 60.2      | -226.4      |
| 07:26:05           | -0.0         | -0.2         | 0.0           | 60.2      | -226.5      |
| 07:26:15           | -0.0         | -0.2         | 0.0           | 60.3      | -226.5      |
| 07:26:25           | -0.0         | -0.2         | 0.0           | 60.3      | -225.8      |
| 07:26:35           | -0.0         | -0.2         | 0.0           | 59.6      | -225.8      |
| 07:26:45           | -0.0         | -0.2         | 0.0           | 59.4      | -226.4      |
| 07:26:55           | -0.0         | -0.2         | 0.0           | 59.5      | -226.5      |

=====  
 Avg = -0.0 -0.1 0.0 61.0 -226.5  
 =====

## RADIANT CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-03-1997 Current Time = 07:29:34

File Name = c:\cemdata\040397.PRN Calibration File: c:\cemdata\04028.CAL

Test #: In 45.5ppm

| 04-03-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 07:29:36           | 37.4         | 45.5         | 0.0           | 58.8      | -227.3      |
| 07:29:37           | 37.4         | 45.5         | 0.0           | 58.8      | -227.3      |
| 07:29:45           | 37.4         | 45.4         | 0.0           | 59.0      | -226.9      |
| 07:29:55           | 37.4         | 45.5         | 0.0           | 59.1      | -227.1      |
| 07:30:05           | 37.4         | 45.5         | 0.0           | 59.1      | -226.9      |
| 07:30:15           | 37.4         | 45.5         | 0.0           | 58.7      | -226.9      |
| 07:30:25           | 37.4         | 45.5         | 0.0           | 58.8      | -226.9      |
| 07:30:35           | 37.4         | 45.5         | 0.0           | 58.9      | -226.9      |
| 07:30:45           | 37.4         | 45.5         | 0.0           | 58.9      | -226.9      |
| 07:30:55           | 37.4         | 45.5         | 0.0           | 58.9      | -226.9      |
| 07:31:05           | 37.4         | 45.5         | 0.0           | 58.9      | -226.5      |
| 07:31:15           | 37.4         | 45.5         | 0.0           | 58.9      | -226.9      |
| 07:31:25           | 37.4         | 45.5         | 0.0           | 58.9      | -226.9      |
| Avg =              | 37.4         | 45.5         | 0.0           | 58.9      | -227.0      |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-03-1997 Current Time = 07:33:24

File Name = c:\cemdata\040397.PRN Calibration File: c:\cemdata\04028.CAL

Test #: In 15.0ppm

| 04-03-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 07:33:26           | 11.9         | 14.9         | 0.0           | 59.9      | -228.9      |
| 07:33:35           | 11.9         | 14.9         | 0.0           | 59.7      | -227.3      |
| 07:33:45           | 11.9         | 14.9         | 0.0           | 59.9      | -226.6      |
| 07:33:55           | 11.9         | 14.9         | 0.0           | 59.1      | -226.0      |
| 07:34:05           | 11.9         | 14.9         | 0.0           | 59.2      | -225.9      |
| 07:34:15           | 11.9         | 14.8         | 0.0           | 59.5      | -226.7      |
| 07:34:25           | 11.9         | 14.9         | 0.0           | 59.7      | -226.7      |
| 07:34:35           | 11.9         | 14.9         | 0.0           | 59.6      | -225.5      |
| 07:34:45           | 11.9         | 14.9         | 0.0           | 59.5      | -226.6      |
| 07:34:55           | 11.9         | 14.9         | 0.0           | 59.6      | -226.7      |
| 07:35:05           | 11.9         | 14.8         | 0.0           | 59.5      | -226.6      |
| 07:35:15           | 11.9         | 14.8         | 0.0           | 59.4      | -226.7      |
| Avg =              | 11.9         | 14.9         | 0.0           | 59.6      | -226.7      |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-03-1997 Current Time = 07:36:48

File Name = c:\cendata\040397.PRN Calibration File:c:\cendata\0402B.CAL

Test #: In 30.4ppm

| 04-03-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 07:36:51           | 24.8         | 30.2         | 0.0           | 60.1      | -228.6      |
| 07:36:55           | 24.8         | 30.3         | 0.0           | 60.0      | -230.4      |
| 07:37:05           | 24.8         | 30.3         | 0.0           | 60.1      | -226.6      |
| 07:37:15           | 24.8         | 30.3         | 0.0           | 60.2      | -226.8      |
| 07:37:25           | 24.8         | 30.3         | 0.0           | 60.1      | -226.1      |
| 07:37:35           | 24.8         | 30.4         | 0.0           | 60.3      | -226.0      |
| 07:37:45           | 24.8         | 30.4         | 0.0           | 60.3      | -226.9      |
| 07:37:55           | 24.8         | 30.4         | 0.0           | 60.6      | -226.8      |
| 07:38:05           | 24.8         | 30.4         | 0.0           | 60.8      | -226.8      |
| 07:38:15           | 24.8         | 30.4         | 0.0           | 60.8      | -226.1      |
| 07:38:25           | 24.8         | 30.4         | 0.0           | 61.0      | -226.1      |
| 07:38:35           | 24.8         | 30.4         | 0.0           | 61.0      | -226.9      |
| 07:38:45           | 24.8         | 30.4         | 0.0           | 61.3      | -227.0      |
| Avg =              | 24.8         | 30.3         | 0.0           | 60.5      | -227.0      |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-03-1997 Current Time = 07:51:25

File Name = c:\cendata\040397.PRN Calibration File: c:\cendata\04028.CAL

Test #: Out 914ppm

| 04-03-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 07:51:28           | 912.4        | 93.3         | 0.1           | 65.0      | 400.8       |
| 07:51:32           | 912.5        | 93.2         | 0.1           | 65.4      | 400.8       |
| 07:51:42           | 912.3        | 93.2         | 0.1           | 65.2      | 393.0       |
| 07:51:52           | 912.1        | 93.2         | 0.0           | 64.9      | 374.2       |
| 07:52:02           | 911.6        | 93.1         | 0.0           | 63.8      | 327.6       |
| 07:52:12           | 924.0        | 93.5         | 0.2           | 89.2      | 400.4       |
| 07:52:22           | 925.0        | 93.5         | 0.2           | 91.9      | 400.4       |
| Avg =              | 915.7        | 93.3         | 0.1           | 72.4      | 385.3       |

*VOID*  
*SAMPLE PRESS.*

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-03-1997 Current Time = 07:54:28

File Name = c:\cemdata\040397.PRN Calibration File: c:\cemdata\04028.CAL

Test #: Out 914ppm

| 04-03-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 07:54:31           | 916.1        | 93.3         | 0.1           | 72.5      | 400.7       |
| 07:54:33           | 916.1        | 93.3         | 0.1           | 72.5      | 400.7       |
| 07:54:42           | 915.4        | 93.3         | 0.1           | 72.3      | 400.7       |
| 07:54:52           | 915.9        | 93.4         | 0.1           | 73.7      | 400.7       |
| 07:55:02           | 915.3        | 93.4         | 0.1           | 72.8      | 400.7       |
| 07:55:12           | 914.5        | 93.4         | 0.1           | 72.5      | 400.7       |
| 07:55:22           | 915.7        | 93.4         | 0.1           | 74.0      | 400.3       |
| 07:55:32           | 915.6        | 93.4         | 0.1           | 73.5      | 400.3       |
| 07:55:42           | 914.9        | 93.3         | 0.1           | 71.3      | 400.7       |
| 07:55:52           | 915.9        | 93.3         | 0.1           | 72.0      | 400.4       |
| 07:56:02           | 916.9        | 93.3         | 0.1           | 73.3      | 400.7       |
| 07:56:12           | 915.8        | 93.2         | 0.1           | 70.9      | 400.7       |
| Avg =              | 915.7        | 93.3         | 0.1           | 72.6      | 400.6       |



RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-03-1997 Current Time = 07:59:22  
 File Name = c:\cendata\040397.PRN Calibration File: c:\cendata\04028.CAL

Test #: Out 600ppm

| 04-03-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 07:59:26           | 618.6        | 61.5         | 0.0           | 61.1      | -240.8      |
| 07:59:32           | 617.6        | 61.5         | 0.0           | 61.5      | -227.5      |
| 07:59:42           | 618.3        | 61.5         | 0.0           | 61.5      | -226.2      |
| 07:59:52           | 619.3        | 61.5         | 0.0           | 61.6      | -226.3      |
| 08:00:02           | 617.3        | 61.5         | 0.0           | 61.7      | -226.1      |
| 08:00:12           | 617.5        | 61.8         | 0.0           | 61.7      | -226.3      |
| 08:00:22           | 618.3        | 61.9         | 0.0           | 61.5      | -226.3      |
| 08:00:32           | 618.7        | 61.9         | 0.0           | 61.3      | -226.3      |
| 08:00:42           | 617.8        | 61.9         | 0.0           | 61.2      | -225.5      |
| 08:00:52           | 617.1        | 61.8         | 0.0           | 61.4      | -226.2      |
| 08:01:02           | 618.3        | 61.8         | 0.0           | 61.5      | -226.3      |
| 08:01:12           | 618.1        | 61.7         | 0.0           | 61.4      | -225.5      |
| 08:01:22           | 617.6        | 61.7         | 0.0           | 61.3      | -226.3      |
| Avg =              | 618.0        | 61.7         | 0.0           | 61.4      | -227.4      |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-03-1997 Current Time = 08:03:03

File Name = c:\cemdata\040397.PRN Calibration File:c:\cemdata\0402B.CAL

Test #: Out 297ppm

| 04-03-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 08:03:07           | 302.3        | 30.2         | 0.0           | 61.9      | -229.5      |
| 08:03:12           | 302.3        | 30.2         | 0.0           | 61.8      | -228.4      |
| 08:03:22           | 302.4        | 30.2         | 0.0           | 62.0      | -225.9      |
| 08:03:32           | 302.3        | 30.3         | 0.0           | 61.9      | -226.0      |
| 08:03:42           | 302.3        | 30.3         | 0.0           | 62.1      | -225.3      |
| 08:03:52           | 303.2        | 30.3         | 0.0           | 62.3      | -225.3      |
| 08:04:02           | 301.9        | 30.3         | 0.0           | 62.4      | -226.0      |
| 08:04:12           | 301.9        | 30.3         | 0.0           | 62.6      | -225.2      |
| 08:04:22           | 302.3        | 30.3         | 0.0           | 62.6      | -226.0      |
| 08:04:32           | 302.3        | 30.3         | 0.0           | 62.6      | -226.0      |
| Avg =              | 302.3        | 30.3         | 0.0           | 62.2      | -226.4      |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, MA

Performed for: NMMA

Date Printed = 04-03-1997 Current Time = 08:06:39

File Name = c:\cemdata\040397.PRN Calibration File:c:\cemdata\0402B.CAL

Test #: Out 45.6MMA

| 04-03-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
|--------------------|--------------|--------------|---------------|-----------|-------------|

|          |      |      |     |      |        |
|----------|------|------|-----|------|--------|
| 08:06:43 | 62.7 | 0.1  | 0.0 | 62.1 | -241.1 |
| 08:06:45 | 62.7 | 0.1  | 0.0 | 62.1 | -241.1 |
| 08:06:52 | 62.7 | 0.1  | 0.0 | 62.3 | -227.5 |
| 08:07:02 | 62.6 | 0.1  | 0.0 | 62.5 | -226.6 |
| 08:07:12 | 62.7 | 0.0  | 0.0 | 62.6 | -226.7 |
| 08:07:22 | 62.7 | 0.0  | 0.0 | 62.8 | -226.9 |
| 08:07:32 | 62.7 | 0.0  | 0.0 | 62.8 | -226.7 |
| 08:07:42 | 62.7 | -0.0 | 0.0 | 62.7 | -226.6 |
| 08:07:52 | 62.7 | 0.0  | 0.0 | 62.7 | -226.7 |
| 08:08:02 | 62.7 | 0.0  | 0.0 | 62.7 | -226.7 |
| 08:08:12 | 62.7 | 0.0  | 0.0 | 62.9 | -225.5 |
| 08:08:22 | 62.7 | 0.0  | 0.0 | 62.8 | -226.8 |
| 08:08:32 | 62.7 | 0.0  | 0.0 | 62.6 | -226.6 |
| 08:08:42 | 62.7 | 0.0  | 0.0 | 62.3 | -226.7 |
| 08:08:52 | 62.7 | -0.0 | 0.0 | 62.0 | -226.7 |
| 08:09:02 | 62.7 | 0.0  | 0.0 | 62.3 | -226.7 |
| 08:09:12 | 62.6 | 0.0  | 0.0 | 62.0 | -226.7 |
| 08:09:22 | 62.7 | 0.0  | 0.0 | 62.1 | -226.9 |

|       |      |     |     |      |        |
|-------|------|-----|-----|------|--------|
| Avg = | 62.7 | 0.0 | 0.0 | 62.5 | -228.3 |
|-------|------|-----|-----|------|--------|

RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-03-1997 Current Time = 10:01:04  
 File Name = c:\ceadata\040397.PRN Calibration File: c:\ceadata\0402B.CAL

Test 0403-1  
 NMM-8-1  
 Gel Coat and  
 Post test QC

Test #: 0403-1

| 04-03-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 10:01:32           | 4.1          | 3.9          | 0.2           | 62.4      | -225.7      |
| 10:02:32           | 4.1          | 3.9          | 0.2           | 61.9      | -225.5      |
| 10:03:32           | 3.9          | 4.0          | 0.2           | 62.3      | -225.7      |
| 10:04:32           | 3.0          | 3.9          | 0.2           | 61.8      | -225.3      |
| 10:05:32           | 3.5          | 3.9          | 0.2           | 62.0      | -225.5      |
| 10:06:32           | 3.1          | 3.8          | 0.2           | 62.1      | -225.5      |
| 10:07:32           | 3.0          | 3.8          | 0.2           | 61.9      | -225.4      |
| 10:08:32           | 3.1          | 3.7          | 0.2           | 61.7      | -225.4      |
| 10:09:32           | 3.1          | 3.6          | 0.2           | 61.5      | -225.3      |
| 10:10:32           | 3.5          | 3.5          | 0.2           | 61.4      | -225.5      |
| 10:11:32           | 4.5          | 3.5          | 0.2           | 61.5      | -225.5      |
| 10:12:32           | 6.2          | 3.5          | 0.2           | 61.4      | -225.6      |
| 10:13:32           | 5.1          | 3.5          | 0.2           | 61.8      | -225.4      |
| 10:14:32           | 4.9          | 3.4          | 0.2           | 62.1      | -225.6      |
| 10:15:32           | 4.1          | 3.4          | 0.2           | 61.4      | -225.6      |
| 10:16:32           | 4.2          | 3.3          | 0.2           | 60.9      | -225.5      |
| 10:17:32           | 4.3          | 3.4          | 0.2           | 62.0      | -225.5      |
| 10:18:32           | 4.5          | 3.3          | 0.2           | 62.2      | -225.3      |
| 10:19:32           | 5.7          | 3.3          | 0.2           | 61.4      | -225.5      |
| 10:20:32           | 6.4          | 3.2          | 0.2           | 61.1      | -225.6      |
| 10:21:32           | 6.4          | 3.2          | 0.2           | 60.3      | -225.6      |
| 10:22:32           | 6.1          | 3.1          | 0.2           | 59.7      | -225.5      |
| 10:23:32           | 6.0          | 3.1          | 0.2           | 59.7      | -225.6      |
| 10:24:32           | 7.1          | 3.0          | 0.2           | 61.8      | -225.6      |
| 10:25:32           | 6.1          | 2.9          | 0.2           | 61.9      | -225.5      |
| 10:26:32           | 5.8          | 2.9          | 0.2           | 61.8      | -225.5      |
| 10:27:32           | 5.5          | 2.8          | 0.2           | 62.0      | -225.5      |
| 10:28:32           | 5.2          | 2.8          | 0.2           | 62.1      | -225.5      |
| 10:29:32           | 5.1          | 2.7          | 0.2           | 62.1      | -225.6      |
| 10:30:32           | 5.1          | 2.6          | 0.2           | 63.4      | -225.4      |
| 10:31:32           | 15.6         | 2.5          | 0.2           | 64.6      | -225.4      |
| 10:32:32           | 125.0        | 2.3          | 0.2           | 67.4      | -225.7      |
| 10:33:32           | 252.0        | 2.2          | 0.2           | 69.0      | -225.4      |
| 10:34:32           | 302.1        | 2.1          | 0.2           | 70.3      | -226.0      |
| 10:35:32           | 351.4        | 1.9          | 0.2           | 70.7      | -225.5      |
| 10:36:32           | 341.7        | 1.8          | 0.2           | 71.3      | -225.4      |
| 10:37:32           | 377.0        | 1.8          | 0.2           | 71.5      | -225.4      |
| 10:38:32           | 437.0        | 1.7          | 0.2           | 71.5      | -225.2      |
| 10:39:32           | 583.5        | 1.7          | 0.2           | 71.8      | -225.2      |
| 10:40:32           | 658.9        | 1.7          | 0.2           | 72.2      | -225.4      |

Test #: 0403-1

| 04-03-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 10:41:32           | 728.6        | 1.7          | 0.2           | 72.7      | -226.5      |
| 10:42:32           | 677.5        | 1.7          | 0.2           | 73.1      | -225.4      |
| 10:43:32           | 768.7        | 1.7          | 0.2           | 73.4      | -225.5      |
| 10:44:32           | 762.8        | 1.8          | 0.2           | 73.6      | -225.5      |
| 10:45:32           | 650.9        | 1.8          | 0.2           | 73.6      | -225.5      |
| 10:46:32           | 683.9        | 1.9          | 0.2           | 73.5      | -225.3      |
| 10:47:32           | 685.5        | 1.9          | 0.2           | 73.5      | -225.5      |
| 10:48:32           | 595.5        | 1.9          | 0.2           | 73.6      | -225.3      |
| 10:49:32           | 673.0        | 1.8          | 0.2           | 73.7      | -225.4      |
| 10:50:32           | 683.8        | 1.7          | 0.2           | 73.7      | -225.2      |
| 10:51:32           | 558.7        | 1.6          | 0.2           | 73.5      | -224.9      |
| 10:52:32           | 474.5        | 1.6          | 0.2           | 73.7      | -225.2      |
| 10:53:32           | 611.2        | 1.6          | 0.2           | 73.6      | -225.2      |
| 10:54:32           | 663.7        | 1.5          | 0.2           | 73.6      | -224.9      |
| 10:55:32           | 711.0        | 1.5          | 0.2           | 73.6      | -225.5      |
| 10:56:32           | 762.0        | 1.5          | 0.2           | 73.6      | -225.4      |
| 10:57:32           | 712.6        | 1.4          | 0.2           | 73.5      | -225.5      |
| 10:58:32           | 739.9        | 1.4          | 0.2           | 73.4      | -225.4      |
| 10:59:32           | 741.3        | 1.5          | 0.2           | 73.5      | -225.5      |
| 11:00:32           | 802.8        | 1.5          | 0.2           | 73.6      | -225.2      |
| 11:01:32           | 855.8        | 1.4          | 0.2           | 73.6      | -225.5      |
| 11:02:32           | 991.8        | 1.4          | 0.2           | 73.3      | -225.1      |
| 11:03:32           | 953.3        | 1.4          | 0.2           | 73.6      | -225.6      |
| 11:04:32           | 1027.3       | 1.4          | 0.2           | 73.7      | -225.1      |
| 11:05:32           | 988.7        | 1.4          | 0.2           | 73.8      | -225.1      |
| 11:06:32           | 854.5        | 1.3          | 0.2           | 73.4      | -225.2      |
| 11:07:32           | 746.7        | 1.3          | 0.2           | 73.5      | -225.4      |
| 11:08:32           | 651.5        | 1.3          | 0.2           | 73.7      | -225.1      |
| 11:09:32           | 600.7        | 1.4          | 0.2           | 73.8      | -225.1      |
| 11:10:32           | 566.1        | 1.3          | 0.2           | 73.9      | -225.1      |
| 11:11:32           | 523.0        | 1.3          | 0.2           | 73.8      | -225.5      |
| 11:12:32           | 556.2        | 1.3          | 0.2           | 74.0      | -225.1      |
| 11:13:32           | 506.1        | 1.3          | 0.2           | 74.0      | -224.5      |
| 11:14:32           | 498.1        | 1.3          | 0.2           | 74.1      | -225.2      |
| 11:15:32           | 490.9        | 1.2          | 0.2           | 74.5      | -225.6      |
| 11:16:32           | 469.6        | 1.2          | 0.2           | 74.8      | -225.3      |
| 11:17:32           | 459.2        | 1.2          | 0.2           | 75.1      | -225.1      |
| 11:18:32           | 483.0        | 1.2          | 0.2           | 75.4      | -225.2      |
| 11:19:32           | 505.7        | 1.2          | 0.2           | 75.6      | -225.5      |
| 11:20:32           | 477.4        | 1.3          | 0.2           | 75.8      | -225.2      |
| 11:21:32           | 467.8        | 1.3          | 0.2           | 76.1      | -225.5      |
| 11:22:32           | 446.3        | 1.3          | 0.2           | 76.3      | -225.3      |
| 11:23:32           | 443.3        | 1.3          | 0.2           | 76.4      | -225.5      |
| 11:24:32           | 435.1        | 1.4          | 0.2           | 76.6      | -225.3      |
| 11:25:32           | 426.5        | 1.5          | 0.2           | 76.7      | -225.5      |
| 11:26:32           | 420.7        | 1.5          | 0.2           | 76.8      | -225.3      |
| 11:27:32           | 377.9        | 1.5          | 0.2           | 76.9      | -225.5      |
| 11:28:32           | 373.3        | 1.4          | 0.2           | 77.0      | -225.0      |
| 11:29:32           | 382.1        | 1.4          | 0.2           | 77.0      | -225.5      |
| 11:30:32           | 353.5        | 1.4          | 0.2           | 77.2      | -225.4      |
| 11:31:32           | 334.6        | 1.4          | 0.2           | 77.3      | -225.5      |
| 11:32:32           | 350.7        | 1.5          | 0.2           | 77.4      | -225.5      |
| 11:33:32           | 353.8        | 1.5          | 0.2           | 77.5      | -225.5      |
| 11:34:32           | 332.3        | 1.5          | 0.2           | 77.6      | -225.5      |
| 11:35:32           | 316.3        | 1.5          | 0.2           | 77.6      | -225.4      |
| 11:36:32           | 316.0        | 1.5          | 0.2           | 77.7      | -225.5      |

Test #: 0403-1

| 04-03-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 11:37:32           | 311.3        | 1.5          | 0.2           | 77.8      | -225.4      |
| 11:38:32           | 279.5        | 1.6          | 0.2           | 78.0      | -225.4      |
| 11:39:32           | 300.8        | 1.6          | 0.2           | 78.0      | -225.2      |
| 11:40:32           | 267.5        | 1.6          | 0.2           | 78.1      | -225.2      |
| 11:41:32           | 264.3        | 1.6          | 0.2           | 78.2      | -225.4      |
| 11:42:32           | 249.8        | 1.7          | 0.2           | 78.3      | -225.3      |
| 11:43:32           | 250.6        | 1.6          | 0.2           | 78.4      | -224.7      |
| 11:44:32           | 224.8        | 1.6          | 0.2           | 78.4      | -225.3      |
| 11:45:32           | 233.5        | 1.6          | 0.2           | 78.4      | -224.6      |
| 11:46:32           | 237.5        | 1.6          | 0.2           | 78.5      | -224.9      |
| 11:47:32           | 219.3        | 1.6          | 0.2           | 78.6      | -225.1      |
| 11:48:32           | 201.8        | 1.6          | 0.2           | 78.6      | -225.0      |
| 11:49:32           | 209.1        | 1.6          | 0.2           | 78.8      | -224.6      |
| 11:50:32           | 194.6        | 1.6          | 0.2           | 78.7      | -224.9      |
| 11:51:32           | 185.4        | 1.6          | 0.2           | 78.7      | -224.7      |
| 11:52:32           | 189.5        | 1.7          | 0.2           | 78.7      | -224.6      |
| 11:53:32           | 155.0        | 1.6          | 0.2           | 78.6      | -224.7      |
| 11:54:32           | 163.3        | 1.6          | 0.2           | 78.4      | -224.7      |
| 11:55:32           | 151.1        | 1.6          | 0.2           | 78.3      | -225.7      |
| 11:56:32           | 122.0        | 1.6          | 0.2           | 77.9      | -224.5      |
| 11:57:32           | 99.9         | 1.6          | 0.2           | 77.2      | -225.0      |
| 11:58:32           | 84.3         | 1.6          | 0.2           | 76.7      | -225.6      |
| 11:59:32           | 115.4        | 1.5          | 0.2           | 76.5      | -225.5      |
| 12:00:32           | 109.5        | 1.6          | 0.2           | 76.6      | -225.5      |
| 12:01:32           | 89.2         | 1.6          | 0.2           | 76.2      | -225.6      |
| 12:02:32           | 88.0         | 1.6          | 0.2           | 75.8      | -225.4      |
| 12:03:32           | 86.2         | 1.6          | 0.2           | 75.7      | -225.6      |
| 12:04:32           | 97.1         | 1.6          | 0.2           | 75.4      | -225.5      |
| 12:05:32           | 79.8         | 1.6          | 0.2           | 75.2      | -225.7      |
| 12:06:32           | 84.5         | 1.6          | 0.2           | 75.0      | -225.6      |
| 12:07:32           | 78.3         | 1.6          | 0.2           | 74.8      | -225.6      |
| 12:08:32           | 84.6         | 1.6          | 0.2           | 74.6      | -225.5      |
| 12:09:32           | 64.5         | 1.6          | 0.2           | 74.3      | -225.7      |
| 12:10:32           | 59.6         | 1.6          | 0.2           | 74.1      | -225.6      |
| 12:11:32           | 78.3         | 1.5          | 0.2           | 73.8      | -225.7      |
| 12:12:32           | 70.7         | 1.5          | 0.2           | 73.7      | -225.6      |
| 12:13:32           | 58.3         | 1.6          | 0.2           | 73.6      | -225.6      |
| 12:14:32           | 58.8         | 1.6          | 0.2           | 73.5      | -225.6      |
| 12:15:32           | 58.6         | 1.6          | 0.2           | 73.4      | -225.2      |
| 12:16:32           | 54.3         | 1.5          | 0.2           | 73.1      | -225.4      |
| 12:17:32           | 52.9         | 1.5          | 0.2           | 73.0      | -225.6      |
| 12:18:32           | 52.2         | 1.5          | 0.2           | 73.0      | -225.4      |
| 12:19:32           | 48.3         | 1.5          | 0.2           | 72.9      | -225.5      |
| 12:20:32           | 47.6         | 1.5          | 0.2           | 72.8      | -225.6      |
| 12:21:32           | 44.9         | 1.5          | 0.2           | 72.6      | -225.5      |
| 12:22:32           | 47.1         | 1.5          | 0.2           | 72.6      | -225.6      |
| 12:23:32           | 43.2         | 1.5          | 0.2           | 72.6      | -225.3      |
| 12:24:32           | 42.0         | 1.5          | 0.2           | 72.6      | -225.1      |
| 12:25:32           | 40.0         | 1.5          | 0.2           | 72.6      | -225.3      |
| 12:26:32           | 37.3         | 1.5          | 0.2           | 72.5      | -225.5      |
| 12:27:32           | 33.9         | 1.5          | 0.2           | 72.2      | -225.4      |
| 12:28:32           | 33.9         | 1.5          | 0.2           | 72.1      | -225.5      |
| 12:29:32           | 34.2         | 1.5          | 0.2           | 72.2      | -225.5      |
| 12:30:32           | 32.4         | 1.5          | 0.2           | 72.1      | -225.5      |
| 12:31:32           | 30.6         | 1.4          | 0.2           | 72.1      | -225.5      |
| 12:32:32           | 29.3         | 1.4          | 0.2           | 72.0      | -225.5      |

Test #: 0403-1

04-03-1997  
Time THC o THC i Flow Temp Resin  
ppm ppm inH2O F lb

|          |      |     |     |      |        |
|----------|------|-----|-----|------|--------|
| 12:33:32 | 28.4 | 1.4 | 0.2 | 72.0 | -225.5 |
| 12:34:32 | 25.9 | 1.4 | 0.2 | 71.9 | -225.5 |
| 12:35:32 | 27.0 | 1.4 | 0.2 | 72.0 | -225.5 |
| 12:36:32 | 29.3 | 1.5 | 0.2 | 71.6 | -225.3 |
| 12:37:32 | 32.9 | 1.4 | 0.2 | 71.7 | -225.6 |
| 12:38:32 | 30.8 | 1.4 | 0.2 | 71.9 | -225.5 |
| 12:39:32 | 30.5 | 1.4 | 0.2 | 71.7 | -225.5 |
| 12:40:32 | 28.9 | 1.4 | 0.2 | 71.6 | -225.3 |
| 12:41:32 | 24.7 | 1.6 | 0.2 | 71.5 | -225.2 |
| 12:42:32 | 22.5 | 2.0 | 0.2 | 71.3 | -225.4 |
| 12:43:32 | 21.2 | 2.2 | 0.2 | 71.0 | -225.6 |
| 12:44:32 | 19.9 | 2.3 | 0.2 | 70.9 | -225.6 |
| 12:45:32 | 19.2 | 2.2 | 0.2 | 70.7 | -225.6 |
| 12:46:32 | 18.3 | 2.2 | 0.2 | 70.7 | -225.4 |
| 12:47:32 | 17.5 | 2.2 | 0.2 | 70.6 | -225.5 |
| 12:48:32 | 17.2 | 2.2 | 0.2 | 70.5 | -225.4 |
| 12:49:32 | 16.5 | 2.2 | 0.2 | 70.5 | -225.5 |
| 12:50:32 | 15.6 | 2.2 | 0.2 | 70.5 | -225.6 |
| 12:51:32 | 15.3 | 2.3 | 0.2 | 70.4 | -225.4 |
| 12:52:32 | 14.6 | 2.4 | 0.2 | 70.2 | -225.6 |
| 12:53:32 | 13.9 | 2.4 | 0.2 | 70.1 | -225.6 |
| 12:54:32 | 13.3 | 2.6 | 0.2 | 70.1 | -225.6 |
| 12:55:32 | 13.5 | 2.6 | 0.2 | 70.1 | -225.5 |
| 12:56:32 | 12.4 | 2.5 | 0.2 | 69.8 | -225.6 |
| 12:57:32 | 11.9 | 2.5 | 0.2 | 69.3 | -225.6 |
| 12:58:32 | 11.4 | 2.5 | 0.2 | 69.1 | -225.5 |
| 12:59:32 | 10.4 | 2.5 | 0.2 | 69.1 | -225.4 |
| 13:00:32 | 10.1 | 2.4 | 0.2 | 69.2 | -225.6 |
| 13:01:32 | 9.6  | 2.3 | 0.2 | 69.2 | -225.5 |
| 13:02:32 | 9.3  | 2.2 | 0.2 | 69.1 | -225.5 |
| 13:03:32 | 9.3  | 2.1 | 0.2 | 69.0 | -225.5 |
| 13:04:32 | 8.9  | 2.1 | 0.2 | 69.0 | -225.5 |
| 13:05:32 | 8.2  | 2.1 | 0.2 | 69.0 | -225.4 |
| 13:06:32 | 8.1  | 2.1 | 0.2 | 69.1 | -225.4 |
| 13:07:32 | 7.9  | 2.1 | 0.2 | 68.9 | -225.1 |
| 13:08:32 | 8.0  | 2.0 | 0.2 | 68.7 | -224.8 |
| 13:09:32 | 7.2  | 1.9 | 0.2 | 68.8 | -225.0 |
| 13:10:32 | 7.1  | 1.8 | 0.2 | 68.6 | -225.1 |
| 13:11:32 | 8.3  | 1.8 | 0.2 | 68.3 | -225.2 |
| 13:12:32 | 7.6  | 1.7 | 0.2 | 68.4 | -225.3 |
| 13:13:32 | 7.0  | 1.8 | 0.2 | 68.5 | -224.7 |
| 13:14:32 | 5.7  | 1.9 | 0.2 | 68.5 | -225.4 |
| 13:15:32 | 5.9  | 1.9 | 0.2 | 67.6 | -225.1 |

Avq = 225.4 1.9 0.2 71.7 -225.3

RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 35 Marine  
 Arlington, WA  
 Performed for: **MMMA**  
 Date Printed = 04-03-1997 Current Time = 13:22:04  
 File Name = c:\cemdata\040397.PRN Calibration File:c:\cemdata\04028.CAL

Test #: Post 600ppm

| 04-03-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 13:22:08           | 623.1        | 1.6          | 0.2           | 64.4      | -227.0      |
| 13:22:09           | 623.1        | 1.6          | 0.2           | 64.4      | -227.0      |
| 13:22:12           | 620.5        | 1.6          | 0.1           | 64.4      | -225.6      |
| 13:22:22           | 622.3        | 1.6          | 0.2           | 64.4      | -225.7      |
| 13:22:32           | 623.2        | 1.5          | 0.2           | 64.5      | -223.7      |
| 13:22:42           | 622.1        | 1.6          | 0.2           | 64.5      | -225.7      |
| 13:22:52           | 622.7        | 1.6          | 0.2           | 64.4      | -225.1      |
| 13:23:02           | 623.5        | 1.6          | 0.2           | 64.3      | -226.2      |
| 13:23:12           | 622.6        | 1.6          | 0.2           | 64.0      | -226.3      |
| 13:23:22           | 621.8        | 1.9          | 0.2           | 64.1      | -226.2      |
| 13:23:32           | 622.4        | 2.0          | 0.2           | 64.0      | -226.2      |
| 13:23:42           | 623.3        | 2.0          | 0.2           | 63.7      | -225.1      |
| 13:23:52           | 621.9        | 2.1          | 0.7           | 63.6      | -225.6      |
| 13:24:02           | 623.4        | 2.1          | 2.3           | 63.6      | -224.7      |
| 13:24:12           | 623.4        | 2.1          | 1.5           | 63.7      | -226.5      |
| 13:24:22           | 622.5        | 2.3          | 0.2           | 63.5      | -226.3      |
| 13:24:32           | 620.6        | 2.4          | 0.2           | 63.2      | -226.5      |
| 13:24:42           | 622.7        | 2.4          | 0.2           | 62.8      | -225.3      |
| Avg =              | 622.5        | 1.9          | 0.4           | 64.0      | -226.4      |



RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-03-1997 Current Time = 13:26:48

File Name = c:\cemdata\040397.PRN Calibration File:c:\cemdata\04028.CAL

Test #: Post 15ppm

| 04-03-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 13:26:53           | 14.2         | 15.4         | 0.2           | 61.7      | -226.8      |
| 13:26:54           | 14.2         | 15.4         | 0.2           | 61.7      | -226.8      |
| 13:27:02           | 14.1         | 15.3         | 0.0           | 61.4      | -226.3      |
| 13:27:12           | 14.2         | 15.3         | 0.0           | 61.5      | -225.9      |
| 13:27:22           | 14.2         | 15.3         | 0.0           | 61.5      | -226.6      |
| 13:27:32           | 14.2         | 15.4         | 0.0           | 61.6      | -225.7      |
| 13:27:42           | 14.2         | 15.3         | 0.0           | 61.6      | -225.4      |
| 13:27:52           | 14.2         | 15.4         | 0.0           | 61.6      | -225.5      |
| 13:28:02           | 14.2         | 15.3         | 0.0           | 61.6      | -225.4      |
| 13:28:12           | 14.2         | 15.3         | 0.0           | 61.7      | -225.2      |
| 13:28:22           | 14.2         | 15.3         | 0.0           | 61.7      | -226.6      |
| 13:28:32           | 14.2         | 15.3         | 0.0           | 61.8      | -226.5      |
| 13:28:42           | 14.2         | 15.3         | 0.0           | 61.8      | -225.6      |
| 13:28:52           | 14.2         | 15.3         | 0.0           | 61.8      | -225.3      |
| 13:29:02           | 14.2         | 15.2         | 0.0           | 61.9      | -224.5      |
| 13:29:12           | 14.2         | 15.3         | 0.0           | 61.9      | -226.5      |
| 13:29:22           | 14.2         | 15.4         | 0.0           | 61.9      | -226.6      |
| Avg =              | 14.2         | 15.3         | 0.0           | 61.7      | -226.0      |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-03-1997 Current Time = 13:31:40

File Name = c:\ceedata\040397.PRN Calibration File: c:\ceedata\04028.CAL

Test #: Post Oppa

| 04-03-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
|--------------------|--------------|--------------|---------------|-----------|-------------|

|          |      |      |     |      |        |
|----------|------|------|-----|------|--------|
| 13:31:41 | 0.0  | -0.5 | 0.0 | 62.5 | -226.5 |
| 13:31:43 | 0.0  | -0.5 | 0.0 | 62.5 | -226.5 |
| 13:31:52 | -0.0 | -0.6 | 0.0 | 62.6 | -226.6 |
| 13:32:02 | -0.0 | -0.6 | 0.0 | 62.7 | -226.2 |
| 13:32:12 | 0.0  | -0.6 | 0.0 | 62.7 | -226.2 |
| 13:32:22 | -0.0 | -0.7 | 0.0 | 62.8 | -226.2 |
| 13:32:32 | 0.0  | -0.7 | 0.0 | 62.9 | -226.3 |
| 13:32:42 | 0.0  | -0.7 | 0.0 | 63.0 | -226.3 |
| 13:32:52 | 0.0  | -0.6 | 0.0 | 63.0 | -226.3 |
| 13:33:02 | -0.0 | -0.7 | 0.0 | 63.1 | -226.2 |
| 13:33:12 | -0.0 | -0.7 | 0.0 | 63.2 | -226.2 |
| 13:33:22 | -0.0 | -0.7 | 0.0 | 63.3 | -226.2 |
| 13:33:32 | -0.0 | -0.7 | 0.0 | 63.3 | -226.3 |
| 13:33:42 | -0.0 | -0.7 | 0.0 | 63.4 | -226.2 |
| 13:33:52 | -0.0 | -0.7 | 0.0 | 63.3 | -226.3 |
| 13:34:02 | 0.0  | -0.7 | 0.0 | 63.4 | -226.2 |
| 13:34:12 | -0.0 | -0.7 | 0.0 | 63.5 | -226.2 |
| 13:34:22 | -0.0 | -0.7 | 0.0 | 63.6 | -226.3 |
| 13:34:32 | 0.0  | -0.7 | 0.0 | 63.7 | -225.5 |
| 13:34:42 | -0.0 | -0.7 | 0.0 | 63.7 | -226.3 |
| 13:34:52 | -0.0 | -0.7 | 0.0 | 63.7 | -225.5 |
| 13:35:02 | -0.0 | -0.7 | 0.0 | 63.8 | -225.7 |
| 13:35:12 | -0.0 | -0.7 | 0.0 | 63.9 | -225.5 |
| 13:35:22 | -0.0 | -0.7 | 0.0 | 63.9 | -226.2 |
| 13:35:32 | 0.0  | -0.7 | 0.0 | 63.9 | -226.2 |
| 13:35:42 | -0.0 | -0.7 | 0.0 | 64.0 | -226.2 |
| 13:35:52 | -0.0 | -0.7 | 0.0 | 64.1 | -226.2 |
| 13:36:02 | -0.0 | -0.7 | 0.0 | 64.1 | -225.5 |
| 13:36:12 | -0.0 | -0.7 | 0.0 | 64.2 | -226.2 |

|       |      |      |     |      |        |
|-------|------|------|-----|------|--------|
| Avg = | -0.0 | -0.7 | 0.0 | 63.4 | -226.2 |
|-------|------|------|-----|------|--------|

## RADIANT CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for:

NMMA

Date Printed = 04-03-1997 Current Time = 14:48:59

File Name = c:\cemdata\040397.PRN Calibration File: c:\cemdata\0402B.CAL

0403-02

NMMA-4-1

18-ft Deck Lamination

Test #: 0403-2

| 04-03-1997<br>Time | THC c<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 14:49:44           | 1.1          | 1.1          | 0.2           | 71.5      | -225.6      |
| 14:50:44           | 1.1          | 1.1          | 0.2           | 71.9      | -225.4      |
| 14:51:44           | 1.1          | 1.1          | 0.2           | 72.4      | -225.5      |
| 14:52:44           | 1.1          | 1.1          | 0.2           | 72.6      | -225.6      |
| 14:53:44           | 1.1          | 1.1          | 0.2           | 72.5      | -225.4      |
| 14:54:44           | 1.1          | 1.1          | 0.2           | 72.6      | -225.4      |
| 14:55:44           | 1.7          | 1.1          | 0.2           | 72.7      | -225.1      |
| 14:56:44           | 6.4          | 1.1          | 0.2           | 73.5      | -225.4      |
| 14:57:44           | 65.3         | 1.1          | 0.2           | 74.3      | -225.6      |
| 14:58:44           | 113.8        | 1.2          | 0.2           | 74.7      | -225.5      |
| 14:59:44           | 150.8        | 1.1          | 0.2           | 74.7      | -225.6      |
| 15:00:44           | 158.1        | 1.2          | 0.2           | 74.5      | -225.4      |
| 15:01:44           | 159.2        | 1.1          | 0.2           | 74.8      | -225.7      |
| 15:02:44           | 154.1        | 1.2          | 0.2           | 74.9      | -225.4      |
| 15:03:44           | 172.7        | 1.1          | 0.2           | 75.3      | -225.2      |
| 15:05:19           | 168.8        | 1.1          | 0.2           | 75.4      | -225.5      |
| 15:05:49           | 156.4        | 1.1          | 0.2           | 75.5      | -227.0      |
| 15:06:44           | 142.3        | 1.2          | 0.2           | 75.6      | -225.5      |
| 15:07:44           | 133.3        | 1.1          | 0.2           | 75.7      | -225.4      |
| 15:08:44           | 128.0        | 1.1          | 0.2           | 75.9      | -225.3      |
| 15:09:44           | 124.0        | 1.1          | 0.2           | 75.9      | -225.3      |
| 15:10:44           | 122.2        | 1.1          | 0.2           | 76.0      | -225.5      |
| 15:11:44           | 156.6        | 1.1          | 0.2           | 76.3      | -225.4      |
| 15:12:44           | 177.7        | 1.1          | 0.2           | 76.4      | -225.3      |
| 15:13:44           | 215.3        | 1.0          | 0.2           | 76.4      | -225.3      |
| 15:14:44           | 262.8        | 1.1          | 0.2           | 76.5      | -225.4      |
| 15:15:44           | 261.3        | 1.1          | 0.2           | 76.6      | -225.4      |
| 15:16:44           | 243.2        | 1.1          | 0.2           | 76.5      | -225.4      |
| 15:17:44           | 205.7        | 1.1          | 0.2           | 76.6      | -225.2      |
| 15:18:44           | 205.2        | 1.1          | 0.2           | 76.5      | -225.3      |
| 15:19:44           | 194.1        | 1.1          | 0.2           | 76.5      | -225.4      |
| 15:20:44           | 177.3        | 1.0          | 0.2           | 76.6      | -225.5      |
| 15:21:44           | 163.4        | 1.0          | 0.2           | 76.5      | -225.4      |
| 15:22:44           | 157.7        | 1.1          | 0.2           | 76.7      | -225.4      |
| 15:23:44           | 147.7        | 1.1          | 0.2           | 76.4      | -225.4      |
| 15:24:44           | 136.2        | 1.2          | 0.2           | 76.4      | -225.2      |
| 15:25:44           | 137.7        | 1.2          | 0.2           | 76.6      | -225.1      |
| 15:26:44           | 129.8        | 1.2          | 0.2           | 76.6      | -225.3      |
| 15:27:44           | 127.6        | 1.2          | 0.2           | 76.7      | -225.5      |
| 15:28:44           | 118.3        | 1.2          | 0.2           | 76.8      | -225.4      |

Test #: 0403-2

| 04-03-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 15:29:44           | 120.1        | 1.3          | 0.2           | 76.9      | -225.6      |
| 15:30:44           | 182.0        | 1.2          | 0.2           | 77.2      | -225.4      |
| 15:31:44           | 219.9        | 1.2          | 0.2           | 77.3      | -225.4      |
| 15:32:44           | 258.8        | 1.2          | 0.2           | 77.6      | -225.4      |
| 15:33:44           | 280.6        | 1.1          | 0.2           | 77.9      | -225.6      |
| 15:34:44           | 292.3        | 1.1          | 0.2           | 78.0      | -225.3      |
| 15:35:44           | 279.0        | 1.1          | 0.2           | 77.9      | -225.2      |
| 15:36:44           | 279.7        | 1.1          | 0.2           | 77.9      | -225.2      |
| 15:37:44           | 272.9        | 1.1          | 0.2           | 77.9      | -225.2      |
| 15:38:44           | 303.4        | 1.1          | 0.2           | 78.0      | -225.2      |
| 15:39:44           | 298.4        | 1.1          | 0.2           | 78.1      | -225.2      |
| 15:40:44           | 306.8        | 1.1          | 0.2           | 78.2      | -225.5      |
| 15:41:44           | 285.0        | 1.2          | 0.2           | 78.3      | -225.4      |
| 15:42:44           | 257.0        | 1.2          | 0.2           | 78.5      | -225.3      |
| 15:43:44           | 254.8        | 1.2          | 0.2           | 78.6      | -225.2      |
| 15:44:44           | 258.7        | 1.2          | 0.2           | 78.6      | -225.3      |
| 15:45:44           | 252.9        | 1.2          | 0.2           | 78.6      | -225.2      |
| 15:46:44           | 236.6        | 1.3          | 0.2           | 78.8      | -225.3      |
| 15:47:44           | 262.1        | 1.3          | 0.2           | 78.6      | -225.2      |
| 15:48:44           | 305.1        | 1.3          | 0.2           | 78.7      | -225.3      |
| 15:49:44           | 307.0        | 1.3          | 0.2           | 78.5      | -225.2      |
| 15:50:44           | 303.6        | 1.3          | 0.2           | 78.3      | -225.4      |
| 15:51:44           | 307.5        | 1.3          | 0.2           | 78.4      | -225.2      |
| 15:52:44           | 278.9        | 1.3          | 0.2           | 78.3      | -225.5      |
| 15:53:44           | 312.0        | 1.3          | 0.2           | 78.4      | -225.2      |
| 15:54:44           | 310.6        | 1.3          | 0.2           | 78.3      | -225.3      |
| 15:55:44           | 308.0        | 1.3          | 0.2           | 78.1      | -225.4      |
| 15:56:44           | 306.3        | 1.2          | 0.2           | 78.1      | -225.4      |
| 15:57:44           | 361.9        | 1.2          | 0.2           | 78.0      | -225.2      |
| 15:58:44           | 355.3        | 1.2          | 0.2           | 77.9      | -225.4      |
| 15:59:44           | 284.7        | 1.2          | 0.2           | 77.7      | -225.2      |
| 16:00:44           | 263.0        | 1.2          | 0.2           | 77.7      | -225.5      |
| 16:01:44           | 242.2        | 1.3          | 0.2           | 77.6      | -225.2      |
| 16:02:44           | 237.2        | 1.3          | 0.2           | 77.5      | -225.4      |
| 16:03:44           | 211.2        | 1.3          | 0.2           | 77.4      | -225.3      |
| 16:04:44           | 191.2        | 1.4          | 0.2           | 77.3      | -225.4      |
| 16:05:44           | 190.7        | 1.3          | 0.2           | 77.2      | -225.3      |
| 16:06:44           | 179.5        | 1.4          | 0.2           | 77.1      | -225.5      |
| 16:07:44           | 166.5        | 1.3          | 0.2           | 76.9      | -225.4      |
| 16:08:44           | 159.2        | 1.4          | 0.2           | 76.7      | -225.5      |
| 16:09:44           | 161.6        | 1.4          | 0.2           | 76.8      | -225.4      |
| 16:10:44           | 147.7        | 1.3          | 0.2           | 76.8      | -225.4      |
| 16:11:44           | 117.3        | 1.4          | 0.2           | 76.7      | -225.4      |
| 16:12:44           | 117.8        | 1.3          | 0.2           | 76.6      | -225.5      |
| 16:13:44           | 120.9        | 1.3          | 0.2           | 76.5      | -225.5      |
| 16:14:44           | 119.8        | 1.3          | 0.2           | 76.5      | -225.5      |
| 16:15:44           | 118.2        | 1.3          | 0.2           | 76.5      | -225.6      |
| 16:16:44           | 108.6        | 1.3          | 0.2           | 76.5      | -225.6      |
| 16:17:44           | 104.8        | 1.3          | 0.2           | 76.6      | -225.5      |
| 16:18:44           | 100.1        | 1.3          | 0.2           | 76.6      | -225.6      |
| 16:19:44           | 92.4         | 1.3          | 0.2           | 76.6      | -225.5      |
| 16:20:44           | 86.3         | 1.2          | 0.2           | 76.4      | -225.6      |
| 16:21:44           | 81.3         | 1.3          | 0.1           | 76.3      | -225.5      |
| 16:22:44           | 77.6         | 1.2          | 0.1           | 76.2      | -225.5      |
| 16:23:44           | 74.8         | 1.2          | 0.2           | 76.3      | -225.5      |
| 16:24:44           | 72.5         | 1.2          | 0.2           | 76.4      | -225.5      |

- Performing  
Vp

Test #: 0403-2

04-03-1997  
Time

THC o  
ppm

THC i  
ppm

Flow  
inH2O

Temp  
F

Resin  
lb

|          |      |     |     |      |        |
|----------|------|-----|-----|------|--------|
| 16:25:44 | 67.5 | 1.2 | 0.2 | 76.4 | -225.3 |
| 16:26:44 | 63.8 | 1.2 | 0.2 | 76.4 | -225.3 |
| 16:27:44 | 60.9 | 1.2 | 0.2 | 76.4 | -225.4 |
| 16:28:44 | 57.4 | 1.2 | 0.2 | 76.4 | -225.5 |
| 16:29:44 | 54.0 | 1.2 | 0.2 | 76.4 | -225.5 |
| 16:30:44 | 49.1 | 1.2 | 0.2 | 76.4 | -225.5 |
| 16:31:44 | 44.6 | 1.2 | 0.2 | 76.4 | -225.5 |
| 16:32:44 | 40.5 | 1.2 | 0.2 | 76.4 | -225.4 |
| 16:33:44 | 36.8 | 1.1 | 0.2 | 76.1 | -225.5 |
| 16:34:44 | 32.5 | 1.1 | 0.2 | 76.0 | -225.6 |
| 16:35:44 | 29.3 | 1.1 | 0.2 | 75.8 | -225.6 |
| 16:36:44 | 25.8 | 1.1 | 0.2 | 75.7 | -225.4 |
| 16:37:44 | 24.5 | 1.2 | 0.2 | 75.7 | -225.4 |
| 16:38:44 | 21.3 | 1.1 | 0.2 | 75.5 | -225.3 |
| 16:39:44 | 18.8 | 1.2 | 0.2 | 75.4 | -225.3 |
| 16:40:44 | 16.9 | 1.1 | 0.2 | 75.3 | -225.4 |
| 16:41:44 | 14.8 | 1.1 | 0.2 | 75.2 | -225.4 |
| 16:42:44 | 13.7 | 1.1 | 0.2 | 75.1 | -225.2 |
| 16:43:44 | 12.2 | 1.1 | 0.2 | 74.9 | -225.4 |
| 16:44:44 | 10.5 | 1.1 | 0.2 | 74.8 | -225.3 |
| 16:45:44 | 9.9  | 1.1 | 0.1 | 74.6 | -225.4 |
| 16:46:44 | 9.0  | 1.0 | 0.1 | 74.5 | -225.5 |
| 16:47:44 | 8.1  | 1.0 | 0.1 | 74.3 | -225.7 |
| 16:48:44 | 7.4  | 1.0 | 0.1 | 74.1 | -225.4 |
| 16:49:44 | 6.7  | 1.0 | 0.1 | 73.9 | -225.5 |
| 16:50:44 | 6.0  | 1.0 | 0.1 | 73.7 | -225.3 |
| 16:51:44 | 5.6  | 1.0 | 0.1 | 73.6 | -225.7 |
| 16:52:44 | 5.1  | 1.0 | 0.1 | 73.4 | -225.5 |
| 16:53:44 | 5.1  | 0.9 | 0.1 | 73.2 | -225.3 |
| 16:54:44 | 5.0  | 1.0 | 0.1 | 73.1 | -225.4 |
| 16:55:44 | 4.0  | 0.9 | 0.1 | 73.0 | -225.4 |
| 16:56:44 | 4.0  | 1.0 | 0.1 | 72.8 | -225.3 |
| 16:57:44 | 4.0  | 1.0 | 0.1 | 72.7 | -225.7 |
| 16:58:44 | 4.0  | 1.0 | 0.1 | 72.6 | -225.3 |
| 16:59:44 | 3.5  | 1.0 | 0.1 | 72.5 | -225.5 |
| 17:00:44 | 3.0  | 0.9 | 0.1 | 72.2 | -225.5 |
| 17:01:44 | 3.0  | 1.0 | 0.1 | 72.2 | -225.3 |
| 17:02:44 | 3.0  | 0.9 | 0.1 | 72.0 | -225.5 |

Avp = 135.7 1.2 0.2 76.0 -225.4

RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-03-1997 Current Time = 17:08:46  
 File Name = c:\ceadata\040397.PRN Calibration File: c:\ceadata\04028.CAL

Test #: *POST TEST 0 ppm*

| 04-03-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 17:08:54           | -0.0         | -0.5         | 0.1           | 71.3      | -228.7      |
| 17:09:04           | 0.0          | -0.5         | 0.1           | 71.3      | -228.1      |
| 17:09:14           | 0.0          | -0.6         | 0.1           | 71.3      | -228.3      |
| 17:09:24           | -0.0         | -0.6         | 0.1           | 71.3      | -228.3      |
| 17:09:34           | 0.0          | -0.6         | 0.1           | 71.2      | -225.8      |
| 17:09:44           | -0.0         | -0.6         | 0.1           | 71.2      | -225.6      |
| 17:09:54           | 0.0          | -0.6         | 0.1           | 71.1      | -225.0      |
| 17:10:04           | 0.0          | -0.6         | 0.1           | 71.1      | -228.2      |
| 17:10:14           | -0.0         | -0.6         | 0.1           | 71.1      | -228.2      |
| 17:10:24           | 0.0          | -0.6         | 0.1           | 71.1      | -228.3      |
| 17:10:34           | -0.0         | -0.6         | 0.1           | 71.0      | -228.3      |
| 17:10:44           | -0.0         | -0.6         | 0.1           | 71.0      | -228.2      |
| 17:10:54           | -0.0         | -0.6         | 0.1           | 70.9      | -228.3      |
| 17:11:04           | -0.0         | -0.6         | 0.1           | 71.0      | -228.6      |
| 17:11:14           | 0.0          | -0.6         | 0.1           | 71.0      | -228.3      |
| 17:11:24           | -0.0         | -0.6         | 0.1           | 71.0      | -228.3      |
| 17:11:34           | -0.0         | -0.6         | 0.1           | 71.0      | -228.3      |
| 17:11:44           | -0.0         | -0.7         | 0.1           | 71.1      | -228.3      |
| 17:11:54           | 0.0          | -0.7         | -0.0          | 71.0      | -228.3      |
| 17:12:04           | -0.0         | -0.7         | -0.0          | 70.9      | -228.3      |
| 17:12:14           | -0.0         | -0.7         | -0.0          | 70.9      | -228.3      |
| 17:12:24           | 0.0          | -0.7         | -0.0          | 70.7      | -228.2      |
| 17:12:34           | 0.0          | -0.7         | -0.0          | 70.7      | -228.2      |
| 17:12:44           | 0.0          | -0.7         | -0.0          | 70.7      | -228.3      |
| 17:12:54           | -0.0         | -0.7         | -0.0          | 70.7      | -228.2      |
| 17:13:04           | 0.0          | -0.6         | -0.0          | 70.6      | -228.2      |
| 17:13:14           | -0.0         | -0.7         | -0.0          | 70.5      | -228.2      |
| 17:13:24           | 0.0          | -0.7         | -0.0          | 70.3      | -228.2      |
| 17:13:34           | 0.0          | -0.7         | -0.0          | 70.0      | -225.6      |
| 17:13:44           | 0.0          | -0.7         | -0.0          | 69.8      | -228.2      |
| 17:13:54           | -0.0         | -0.7         | -0.0          | 69.4      | -228.2      |
| 17:14:04           | -0.0         | -0.7         | -0.0          | 69.1      | -225.5      |
| 17:14:14           | -0.0         | -0.7         | -0.0          | 68.8      | -228.2      |
| 17:14:24           | -0.0         | -0.7         | -0.0          | 68.6      | -225.6      |
| 17:14:34           | 0.0          | -0.7         | -0.0          | 68.4      | -228.2      |
| 17:14:44           | -0.0         | -0.7         | -0.0          | 68.3      | -228.3      |
| 17:14:54           | 0.0          | -0.6         | -0.0          | 68.2      | -228.2      |
| 17:15:04           | 0.0          | -0.7         | -0.0          | 68.0      | -225.5      |
| 17:15:14           | -0.0         | -0.7         | -0.0          | 67.9      | -228.3      |
| Avg =              | -0.0         | -0.6         | 0.1           | 70.4      | -228.2      |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-03-1997 Current Time = 17:19:46

File Name = c:\ceadata\040397.PRN Calibration File:c:\ceadata\0402B.CAL

Test #: In post 45.5ppm

| 04-03-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 17:19:51           | 41.6         | 43.5         | -0.0          | 64.5      | -226.2      |
| 17:19:52           | 41.6         | 43.5         | -0.0          | 64.5      | -226.2      |
| 17:19:54           | 41.6         | 43.5         | -0.0          | 64.5      | -226.2      |
| 17:19:55           | 41.6         | 43.5         | -0.0          | 64.5      | -226.2      |
| 17:19:57           | 41.6         | 43.5         | -0.0          | 64.5      | -226.2      |
| 17:20:04           | 41.6         | 43.6         | -0.0          | 64.5      | -227.9      |
| 17:20:14           | 41.6         | 43.7         | -0.0          | 64.5      | -226.5      |
| 17:20:24           | 41.6         | 43.6         | -0.0          | 64.6      | -226.8      |
| 17:20:34           | 41.6         | 43.6         | -0.0          | 64.7      | -226.5      |
| 17:20:44           | 41.6         | 43.5         | -0.0          | 64.7      | -226.8      |
| 17:20:54           | 41.6         | 43.5         | -0.0          | 64.7      | -226.8      |
| 17:21:04           | 41.6         | 43.6         | -0.0          | 64.6      | -226.8      |
| 17:21:14           | 41.6         | 43.6         | -0.0          | 64.5      | -226.8      |
| 17:21:24           | 41.6         | 43.6         | -0.0          | 64.4      | -226.7      |
| Avg =              | 41.6         | 43.6         | -0.0          | 64.5      | -226.7      |

## RADIANT CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-03-1997 Current Time = 17:23:29

File Name = c:\ce\data\040397.PRN Calibration File: c:\ce\data\04028.CAL

Test #: In post 30.4ppm

| 04-03-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 17:23:34           | 28.5         | 29.3         | -0.0          | 62.8      | -227.3      |
| 17:23:35           | 28.5         | 29.3         | -0.0          | 62.8      | -227.3      |
| 17:23:44           | 28.3         | 29.4         | -0.0          | 62.5      | -227.2      |
| 17:23:54           | 27.6         | 29.5         | -0.0          | 62.5      | -226.6      |
| 17:24:04           | 27.4         | 29.5         | -0.0          | 62.4      | -226.7      |
| 17:24:14           | 27.4         | 29.5         | -0.0          | 62.2      | -226.6      |
| 17:24:24           | 27.4         | 29.5         | -0.0          | 62.1      | -226.7      |
| 17:24:34           | 27.4         | 29.5         | -0.0          | 62.1      | -226.7      |
| 17:24:44           | 27.4         | 29.5         | -0.0          | 62.0      | -226.6      |
| 17:24:54           | 27.4         | 29.5         | -0.0          | 61.9      | -226.7      |
| 17:25:04           | 27.4         | 29.5         | -0.0          | 61.8      | -226.6      |
| 17:25:14           | 27.4         | 29.5         | -0.0          | 61.7      | -226.8      |
| 17:25:24           | 27.4         | 29.5         | -0.0          | 61.7      | -226.7      |
| 17:25:34           | 27.4         | 29.5         | -0.0          | 61.6      | -226.8      |
| 17:25:44           | 27.4         | 29.5         | -0.0          | 61.6      | -226.7      |
| 17:25:54           | 27.4         | 29.5         | -0.0          | 61.6      | -226.8      |
| 17:26:04           | 27.4         | 29.5         | -0.0          | 61.5      | -226.6      |
| 17:26:14           | 27.4         | 29.5         | -0.0          | 61.4      | -226.8      |
| 17:26:24           | 27.4         | 29.5         | -0.0          | 61.3      | -226.6      |
| 17:26:34           | 27.4         | 29.5         | -0.0          | 61.3      | -226.8      |
| 17:26:44           | 27.4         | 29.6         | -0.0          | 61.2      | -226.6      |
| Avg =              | 27.6         | 29.5         | -0.0          | 61.9      | -226.8      |



RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-03-1997 Current Time = 17:28:20

File Name = c:\ceadata\040397.PRM Calibration File:c:\ceadata\0402B.CAL

Test #: In post 15.0ppm

| 04-03-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 17:28:25           | 13.3         | 14.2         | -0.0          | 60.8      | -229.2      |
| 17:28:26           | 13.3         | 14.2         | -0.0          | 60.8      | -229.2      |
| 17:28:34           | 13.3         | 14.3         | -0.0          | 60.4      | -227.5      |
| 17:28:44           | 13.3         | 14.3         | -0.0          | 60.4      | -226.6      |
| 17:28:54           | 13.3         | 14.2         | -0.0          | 60.3      | -225.9      |
| 17:29:04           | 13.3         | 14.3         | -0.0          | 60.3      | -225.9      |
| 17:29:14           | 13.3         | 14.3         | -0.0          | 60.2      | -225.9      |
| 17:29:24           | 13.3         | 14.3         | -0.0          | 60.1      | -226.7      |
| 17:29:34           | 13.3         | 14.3         | -0.0          | 60.0      | -226.6      |
| 17:29:44           | 13.3         | 14.3         | -0.0          | 59.9      | -226.6      |
| 17:29:54           | 13.3         | 14.3         | -0.0          | 59.8      | -226.5      |
| 17:30:04           | 13.3         | 14.3         | -0.0          | 59.8      | -226.6      |
| 17:30:14           | 13.3         | 14.3         | -0.0          | 59.8      | -226.6      |
| 17:30:24           | 13.3         | 14.3         | -0.0          | 59.7      | -226.6      |
| 17:30:34           | 13.3         | 14.3         | -0.0          | 59.6      | -226.5      |
| Avg =              | 13.3         | 14.3         | -0.0          | 60.1      | -226.9      |

RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-03-1997 Current Time = 17:34:44  
 File Name = c:\cemdata\040397.PRN Calibration File: c:\cemdata\04028.CAL

Test #: Out post 914ppm

| 04-03-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 17:34:49           | 931.7        | 27.6         | -0.0          | 58.7      | -226.5      |
| 17:34:51           | 931.7        | 27.6         | -0.0          | 58.7      | -226.5      |
| 17:34:54           | 931.2        | 27.8         | -0.0          | 58.6      | -232.3      |
| 17:35:04           | 931.2        | 27.9         | -0.0          | 58.4      | -226.3      |
| 17:35:14           | 931.3        | 28.0         | -0.0          | 58.3      | -225.6      |
| 17:35:24           | 931.3        | 28.1         | -0.0          | 58.2      | -226.4      |
| 17:35:34           | 931.0        | 28.2         | -0.0          | 58.1      | -226.3      |
| 17:35:44           | 931.2        | 28.4         | -0.0          | 58.1      | -226.3      |
| 17:35:54           | 930.8        | 28.5         | -0.0          | 58.0      | -226.3      |
| 17:36:04           | 931.0        | 28.5         | -0.0          | 58.0      | -226.2      |
| 17:36:14           | 929.9        | 28.6         | -0.0          | 57.9      | -226.3      |
| 17:36:24           | 929.7        | 28.7         | -0.0          | 57.9      | -226.3      |
| 17:36:34           | 931.2        | 28.8         | -0.0          | 57.8      | -226.3      |
| 17:36:44           | 929.0        | 29.0         | -0.0          | 57.7      | -226.4      |
| 17:36:54           | 929.7        | 29.0         | -0.0          | 57.7      | -226.3      |
| =====              |              |              |               |           |             |
| Avg =              | 930.8        | 28.3         | -0.0          | 58.1      | -226.7      |
| =====              |              |              |               |           |             |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-03-1997 Current Time = 17:38:36

File Name = c:\cendata\040397.PRM Calibration File:c:\cendata\0402B.CAL

Test #: Out post 600ppm

| 04-03-1997<br>Time | THC o<br>ppm     | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|------------------|--------------|---------------|-----------|-------------|
| 17:38:42           | 615.3            | 58.4         | -0.0          | 57.1      | -233.0      |
| 17:38:44           | 614.8            | 58.7         | -0.0          | 57.1      | -251.9      |
| 17:38:54           | 614.7            | 59.0         | -0.0          | 57.0      | -226.4      |
| 17:39:04           | 615.3            | 59.0         | -0.0          | 57.5      | -226.3      |
| 17:39:14           | 654.9            | 60.3         | 0.9           | 1093.2    | 244.4       |
| 17:39:24           | 705.1            | 62.0         | 2.1           | 1831.8    | 401.0       |
| 17:39:34           | 705.3            | 62.1         | 2.1           | 1831.8    | 401.0       |
| 17:39:44           | 705.9            | 62.2         | 2.1           | 1831.8    | 401.0       |
| 17:39:54           | 698.9            | 61.9         | 1.9           | 1803.1    | 392.7       |
| 17:40:04           | 612.9            | 59.6         | -0.0          | 16.2      | 91.5        |
| 17:40:14           | 612.6            | 59.5         | -0.0          | 16.1      | -201.3      |
| =====              |                  |              |               |           |             |
| Avg =              | <del>650.5</del> | 60.2         | 0.8           | 789.3     | 72.0        |

615

Pressure  
change

Post 0403-2

297 QC :

0403A.CAL = TC cal

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-03-1997 Current Time = 17:44:24

File Name = c:\ceedata\040397.PRN Calibration File: c:\ceedata\0402B.CAL

Test #: Out post 297ppm

| 04-03-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 17:44:31           | 301.3        | 29.8         | -0.0          | 15.9      | -229.7      |
| 17:44:32           | 301.3        | 29.8         | -0.0          | 15.9      | -229.7      |
| 17:44:37           | 300.4        | 29.9         | -0.0          | 15.9      | -228.5      |
| 17:44:47           | 300.4        | 30.0         | -0.0          | 15.9      | -225.3      |
| 17:44:57           | 300.6        | 30.0         | -0.0          | 15.9      | -226.0      |
| 17:45:07           | 301.2        | 30.0         | -0.0          | 15.9      | -225.9      |
| 17:45:17           | 300.4        | 30.0         | -0.0          | 15.9      | -225.9      |
| 17:45:27           | 300.3        | 30.0         | -0.0          | 15.9      | -226.0      |
| 17:45:37           | 300.5        | 30.0         | -0.0          | 15.9      | -226.0      |
| Avg =              | 300.7        | 29.9         | -0.0          | 15.9      | -227.0      |

CALIBRATION SUMMARY  
04-03-1997 18:35:16

CALIBRATION FILE NAME = c:\ce\data\0403a.CAL

```
=====
Chan. Name Units :      Zero      :      Span      :      Slope      Int.
                  : Conc. Resp. : Conc. Resp. :
=====
1  THC o  ppm  0      0      914      9.2      99.68      -.0957
2  THC i  ppm  0      -.01     45.5     4.5      10.14      .0607
3  Flow  inH2O 0      2.95     .4       3.2      1.86      -5.4744
4  Temp  F    32      1.98     212     3.3      137.51     -240.4589
5  Resin lb   -4      1      176     5       45       -49
=====
```

TC calibration

**April 4, 1997**

**0404-01/NMMA-7-1: 28-ft Hull 35% Styrene Resin Spray Up Lamination**

**0404-02/NMMA-3-1: 18-ft Hull Gelcoat**

National Marine Manufacturers Association  
Baseline Styrene Emission Testing

Radian International LLC  
Stelling Engineering, P.A.  
Air Tech Environmental LLC

DAILY SPRAY EQUIPMENT CALIBRATION

4/4/97

Date: 3-5-97

Initial: Larry Darsitz

Spray Gun: \_\_\_\_\_

0404-1

NMMA-7-1

Resin Flow Calibration (15-second evaluation)

|                | Pre-Test | Post-Test |
|----------------|----------|-----------|
| Run 1 Mass (g) |          |           |
| Run 2 Mass (g) |          |           |
| Run 3 Mass (g) |          |           |
| Average        |          |           |

Resin:Glass Ratio

|                |      |  |
|----------------|------|--|
| Mass resin (g) | 324  |  |
| Mass glass (g) | 128  |  |
| TOTAL          | 452  |  |
| Percent glass  | 37.7 |  |

| Material     | Drum No. | Gel Time (min) | Catalyst % Vol. | Setting |
|--------------|----------|----------------|-----------------|---------|
| Gelcoat      |          |                |                 |         |
| Resin (skin) | 1        |                | 2%              |         |
| Resin (lam)  |          |                | 2 1/2%          |         |

Thickness Checks

| Run           | 1 | 2 | 3 | 4 | 5 |
|---------------|---|---|---|---|---|
| SKIN 90 mil   |   |   |   |   |   |
| 60 mil Roving |   |   |   |   |   |
|               |   |   |   |   |   |
|               |   |   |   |   |   |
|               |   |   |   |   |   |
|               |   |   |   |   |   |

SPRAY EQUIPMENT LOGSHEET

NMMA - 7 - 1

Date: 4/4/97

Initial: JSD

3' from mold (Bottom coat)

| Time | Mass Reading | Time | Mass Reading | Time | Mass Reading |
|------|--------------|------|--------------|------|--------------|
| 0920 | 363.6        | 8    | 298.4        | 6    |              |
| 1    | 355.4        | 9    | 295.6        | 7    |              |
| 2    | 349.4        | 0940 | 290.6        | 8    |              |
| 3    | 345.2        | 1    | 284.0        | 9    | 273.0        |
| 4    | 340.4        | 2    | 279.6        | 1000 | 270.2        |
| 0925 | 335.4        | 3    | 277.4        | 1    | 264.6        |
| 5    | 330.6        | 4    | 277.4        | 2    | 257.8        |
| 6    | 330.6        | 0945 | 272.2        | 3    | 251.4        |
| 7    | 330.6        | 5    | 272.2        | 4    | 244.6        |
| 8    | 329.2        | 6    |              | 1005 | 244.6        |
| 0930 | 323.2        | 7    |              | 6    | 244.6        |
| 1    | 316.4        | 8    |              | 7    | 244.6        |
| 2    | 312.8        | 0950 |              | 8    | 244.6        |
| 3    | 312.8        | 1    |              | 9    | 237.4        |
| 4    | 309.4        | 2    |              | 1010 | 232.6        |
| 0935 | 302.8        | 3    |              | 1    | 227.6        |
| 5    | 298.4        | 4    |              | 2    | 227.6        |
| 6    | 298.4        | 0955 |              | 3    | 227.6        |

Thickness Readings



# SPRAY EQUIPMENT LOGSHEET

NMMA-7-1

Date: 4/4/07

Initial: JST

| Time    | Mass Reading       | Time               | Mass Reading | Time | Mass Reading |
|---------|--------------------|--------------------|--------------|------|--------------|
| 4 ⑥     | 227.4              | 2                  |              |      |              |
| 10 15 ⑥ | 226.8              | 3                  |              |      |              |
| 6       | 226.8              | 4                  |              |      |              |
| 7 ⑥     | 226.4              | 1035               |              |      |              |
| 8       | 225.2 <sup>g</sup> | skew cont complete |              |      |              |
| 9       | 223.2 <sup>g</sup> |                    |              |      |              |
| 10 20   | 221.6              |                    |              |      |              |
| 1 ⑥     | 215.6              |                    |              |      |              |
| 2       | 214.5              |                    |              |      |              |
| 3       | 214.8              |                    |              |      |              |
| 4       | 214.8              |                    |              |      |              |
| 10 25   | 209.8              |                    |              |      |              |
| 6 ⑥     | 205.2              |                    |              |      |              |
| 7       | 200.2              |                    |              |      |              |
| 8       | 200.2              |                    |              |      |              |
| 9 ⑥     | 200.0              |                    |              |      |              |
| 10 30   | 199.4              |                    |              |      |              |
| 1       | 193.4              |                    |              |      |              |

1031:41 →

Thickness Readings

Radian International LLC  
Stelling Engineering, P.A.  
Air Tech Environmental LLC

Date: 4-4

Initial: Ken W

Spray Gun: W/W

Resin Flow Calibration (18-second evaluation)

NMMA-3-1-2

0404-2

18' Gel

|                | Pre-Test | Post-Test |
|----------------|----------|-----------|
| Run 1 Mass (g) | 1256     | 1260      |
| Run 2 Mass (g) |          |           |
| Run 3 Mass (g) |          |           |
| Average        |          |           |

|                |  |
|----------------|--|
| Mass resin (g) |  |
| Mass glass (g) |  |
| TOTAL          |  |
| Percent glass  |  |

| Material     | Drum No. | Gel Time (min) | Catalyst % Vol. | Setting |
|--------------|----------|----------------|-----------------|---------|
| Gelcoat      |          |                |                 |         |
| Resin (skin) |          |                |                 |         |
| Resin (lam)  |          |                |                 |         |

[illegible]

National Marine Manufacturers Association  
Baseline Styrene Emission Testing

414197 0404.2  
NMMMA-3-1

Radian International LLC  
Stelling Engineering, P.A.  
Air Tech Environmental LLC

**SPRAY EQUIPMENT LOGSHEET**

Date: \_\_\_\_\_

Initial: \_\_\_\_\_

| Time | Mass Reading | Time | Mass Reading    | Time | Mass Reading |
|------|--------------|------|-----------------|------|--------------|
| 1549 |              | 7    | <del>1525</del> | 1625 |              |
| 1550 |              | 8    | <del>15</del>   | 6    |              |
| 1    |              | 9    | <del>15</del>   | 7    |              |
| 2    |              | 1610 | <del>15</del>   | 8    |              |
| 3    |              | 1    |                 | 9    |              |
| 4    |              | 2    |                 | 1630 |              |
| 1555 |              | 3    |                 | 1    |              |
| 6    |              | 4    |                 | 2    |              |
| 7    | ~ 50.4       | 1615 |                 | 3    |              |
| 8    | 47.2 (2)     | 6    |                 | 4    |              |
| 9    |              | 7    |                 | 1635 |              |
| 1600 |              | 8    |                 | 6    |              |
| 1601 |              | 9    |                 | 7    |              |
| 2    |              | 1620 |                 | 8    |              |
| 3    |              | 1    |                 | 9    |              |
| 4    |              | 2    |                 | 1640 |              |
| 1605 |              | 3    |                 |      |              |
| 6    |              | 4    |                 |      |              |

**Thickness Readings**

18245

MMA

4/4/97

GC log

| Run # | Comments                                       | Area Counts |
|-------|------------------------------------------------|-------------|
| 95    | N <sub>2</sub> - Signal high & falling (190)   | 0           |
| 96    | N <sub>2</sub> - Signal @ 140, ~ normal (=134) | 0           |
| 97    | 59.2 Styrene                                   | 2424850     |
| 98    | 59.2 Sty                                       | 2561784     |
| 99    | 122 Sty - Results Low                          | — 4330957   |
| 100   | 122 Sty                                        | 4956275     |
| 101   | 122 Sty - high → Fast injection & triggers     | — 5749370   |
| 102   | 122 Sty                                        | 4937520     |
| 103   | 204 Sty - Low                                  | — 9059546   |
| 104   | 204 Sty                                        | 7731267     |
| 105   | 204 Sty                                        | 7649680     |
| 106   | Bag 3 Std 115.9 ppm MMA - Low                  | — 2166414   |
| 107   | Bag 3                                          | 2364374     |
| 108   | Bag 3                                          | 2347678     |
| 109   | NMMA-7-1-1 @ 0920 104 THC                      | 2146024 Sty |
| 110   | 2 @ 0926 312 THC                               | 6499744 Sty |
| 111   | 3 @ 0933 300 THC                               | 6237210 Sty |
| 112   | 4 @ 0943 392 THC                               | 8282432 Sty |
| 113   | 5 @ 0949 200 THC                               | 3772290 Sty |
| 114   | 6 @ 0955 101 THC                               | 2256040 Sty |
| 115   | 7 @ 1001 230 THC                               | 5446650 Sty |
| 116   | 8 @ 1007 310 THC                               | 6013485 Sty |
| 117   | 9 @ 1013 335 THC                               | 6616547 Sty |
| 118   | 10 @ 1020 320 THC                              | 6532752 Sty |
| 119   | 11 @ 1024 421 THC                              | 8488742 Sty |
| 120   | 12 @ 1032 310 THC                              | 6401610 Sty |
| 121   | 13 @ 1038 230 THC                              | 6297552 Sty |

NMMA-7-1  
Skin Core

Skin Core  
Series

20835

| Run#   | Comments            |          | Area Ct     |
|--------|---------------------|----------|-------------|
| 122    | Numer-7-1-14 @ 1045 | 160 THC  | 3189914 sty |
| 123    | 15 @ 1056           | 107 THC  | 2726037 sty |
| 124    | 16 @ 1107           | 83 THC   | 1768040 sty |
| 125    | 17 @ 1122           | 60 THC   | 1154462 sty |
| 126    | 18 @ 1232           | 177 THC  | 3301888 sty |
| 127    | 19 @ 1238           | 220 THC  | 4213530 sty |
| 128    | 20 @ 1244           | 470 THC  | 8607987 sty |
| 1289   | 21 @ 1251           | 4360 THC | 6776691 sty |
| 129130 | 22 @ 1258           | 460 THC  | 8250592 sty |
| 130131 | 23 @ 1305           | 380 THC  | 6506419 sty |
| 1312   | 24 @ 1311           | 235 THC  | 4900512 sty |
| 133    | 25 @ 1314           | 166 THC  | 3396750 sty |
| 134    | 26 @ 1324           | 138 THC  | 2012448 sty |
| 135    | 27 @ 1332           | 102 THC  | 2181151 sty |
| 136    | 28 @ 1342           | 68 THC   | 1312078 sty |

Delay due to OE - peaks past styrene due to valve rotation @ Run 136

|     |           |         |                                   |
|-----|-----------|---------|-----------------------------------|
| 137 | 29 @ 1353 | 315 THC | 9629830 sty                       |
| 138 | 30 @ 1400 | 422 THC | 8646016 sty<br><del>8646016</del> |
| 139 | 31 @ 1406 | 349 THC | 63536980 sty                      |
| 140 | 32 @ 1412 | 520 THC | 8536339 sty                       |
| 141 | 33 @ 1418 | 277 THC | 5223779 sty                       |
| 142 | 34 @ 1424 | 148 THC | 2583584 sty                       |
| 143 | 35 @ 1435 | 110 THC | 2004485 sty                       |
| 144 | 36 @ 1446 | 76 THC  | 1737152 sty                       |
| 145 | 37 @ 1455 | 57 THC  | 1152829 sty                       |
| 146 | 38 @ 1505 | 26 THC  | 556481 sty                        |
| 147 | 39 @ 1511 | 18 THC  | 355620 sty                        |
| 148 | 40 @ 1522 | 11 THC  | 256595 sty                        |

Spring  
finished

3885

4/4/96

Nmma-7-1

0404-1  $V_p$  Das = .131P

|     |     |     |     |
|-----|-----|-----|-----|
| H 1 | .12 | J-1 | .14 |
| 2   | .14 | 2   | .16 |
| 3   | .14 | 3   | .16 |
| 4   | .15 | 4   | .16 |
| 5   | .15 | 5   | .16 |
| 6   | .16 | 6   | .16 |
| 7   | .16 | 7   | .15 |
| 8   | .12 | 8   | .15 |

 $P_b = 30.0$ 

Static = -3.2

 $T_s = 68$ 

Run#

Comments

End run-149

Nmma-7-1

4/1 @ 1534

7.8 THC

159624

Post Test

150

204 ppm Styrene - Low

6810240 STY

151

204 STYRENE - Low

6712224 STY

152

Bag 3

2194430 MMA

153

Bag 3

2450414 MMA

4/4/97

Run 0404-2 = NMM-3-1

Spring ended

| Run# | Q    | Comments          | Area Cts. (mm / sty)                        |
|------|------|-------------------|---------------------------------------------|
| 154  | 1611 | NMM-3-1-1 138 THC | 437095 / 2027461                            |
| 155  | 1617 | 2 357 THC         | 1064450 / 5050669                           |
| 156  | 1623 | 3 457 THC         | 1570449 / 7957434                           |
| 157  | 1630 | 4 210 THC         | 736969 / 3921122                            |
| 158  | 1640 | 5 175 THC         | 451264 / 3135224                            |
| 159  | 1647 | 6 145 THC         | 268054 / 2208101                            |
| 160  | 1653 | 7 138 THC         | 249787 / 2408938                            |
| 161  | 1701 | 8 120 THC         | 192427 / 2228555                            |
| 162  | 1707 | 9 93 THC          | 164668 / <sup>1839684</sup> <del>1837</del> |
| 163  | 1713 | 10 83 THC         | 167213 / 1678288                            |
| 164  | 1719 | 11 66 THC         | 94426 / 1302224                             |
| 165  | 1728 | 12 45 THC         | 42553 / 1004535                             |
| 166  | 1738 | 13 30 THC         | 21483 / 580914                              |
| 167  | 1743 | 14 19 THC         | 12702 / 336042                              |
| 168  | 1749 | 15 14 THC         | * 74350 / 270692                            |
| 169  | 1756 | 16 9 THC          | 6439 / 197151                               |

Post Test

|     |                                      |          |
|-----|--------------------------------------|----------|
| 170 | 59.2 Styrene - high - fast injection |          |
| 171 | 59.2 Styrene                         | 2663302  |
| 172 | 59.2 Styrene                         | 2299560  |
| 173 | 59.2 Styrene - fast injection        | 2606960  |
| 174 | 122 Styrene                          | 41357293 |
| 175 | 122 Styrene                          | 4821989  |
| 176 | 122 Styrene                          | 11427190 |
| 177 | 204 Styrene                          | 65743,7  |
| 178 | 204 Styrene - OE, Rotated valve      |          |
| 179 | 204 Styrene                          | 8341984  |

|     |                              |         |
|-----|------------------------------|---------|
| 180 | 204 Styrene - OE, use anyway | 7051792 |
| 181 | Bag 3 115.9 ppm MMA          | 2297958 |
| 182 | Bag 3                        | 2126528 |
| 183 | Bag 3 50:50 Dil (58 ppm)     | 1252769 |
| 184 | Bag 3 50:50 (58 ppm)         | 1190454 |
| 185 | Bag 3 1:10 (12 ppm)          | 267634  |
| 186 | Bag 3 1:10 (12 ppm) High     | 322825  |
| 187 | Bag 3 1:10 (12 ppm)          | 308813  |



4/4/97

0404-182

NMMA-7-183-1

\* RUN # 95 APR 4, 1997 07:15:59  
START

0.185

0.659

3.953

STOP

RUN# 95 APR 4, 1997 07:15:59

ESTD-AREA

| RT    | AREA TYPE | CAL# | AMOUNT |
|-------|-----------|------|--------|
| 3.953 | 2450 UU   | 2    | .060   |

TOTAL AREA= 18013  
MUL FACTOR=1.0000E+00

• RUN # 96 APR 4, 1997 07:22:02  
START

0.755

STOP

RUN# 96 APR 4, 1997 07:22:02

NO CALIB PEAKS FOUND

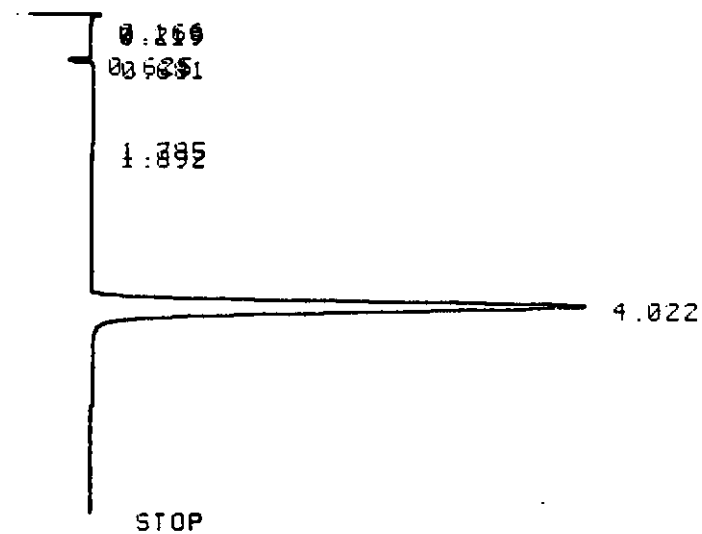
AREA%

| RT   | AREA | TYPE | WIDTH | AREA%     |
|------|------|------|-------|-----------|
| .755 | 5146 | PU   | .139  | 100.00000 |

TOTAL AREA= 5146  
MUL FACTOR=1.0000E+00

\* RUN # 97 APR 4, 1997 07:35:07

START



STOP

RUN# 97 APR 4, 1997 07:35:07

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.785 | 1515    | BU   | 1R   | .067   |
| 4.022 | 2424850 | BB   | 2    | 59.409 |

TOTAL AREA=2554106  
MUL FACTOR=1.0000E+00

\* RUN # 98 APR 4, 1997 07:42:52

START

0.301  
005684

3.993

STOP

RUN# 98 APR 4, 1997 07:42:52

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 3.993 | 2561784 | BB   | 2    | 62.764 |

TOTAL AREA=2680466

MUL FACTOR=1.0000E+00

\* RUN # 99 APR 4, 1997 07:53:28

START

0.293  
005683

4.014

STOP

RUN# 99 APR 4, 1997 07:53:28

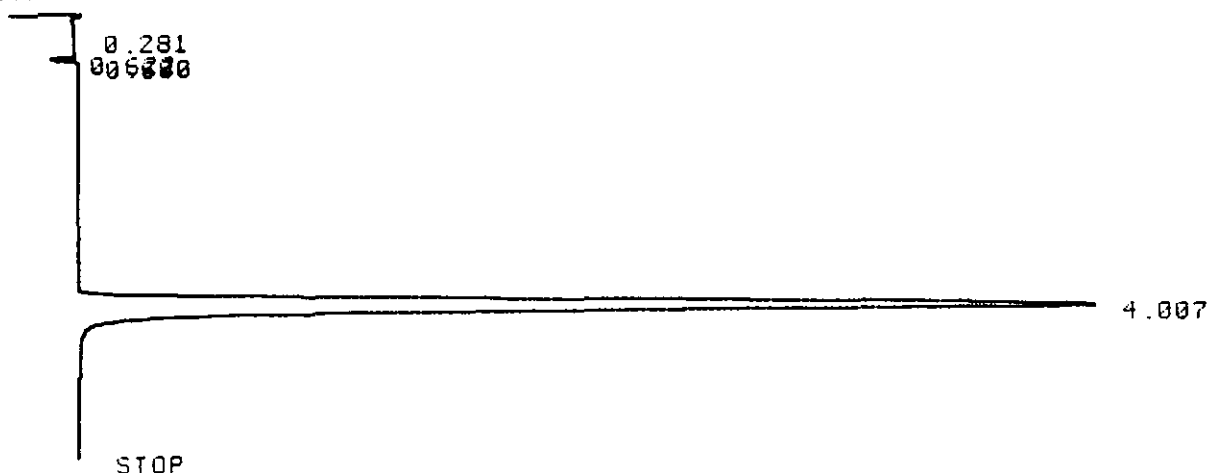
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 4.014 | 4330957 | PB   | 2    | 106.108 |

TOTAL AREA=4427430

MUL FACTOR=1.0000E+00

\* RUN # 100      APR 4, 1997 08:00:42  
START



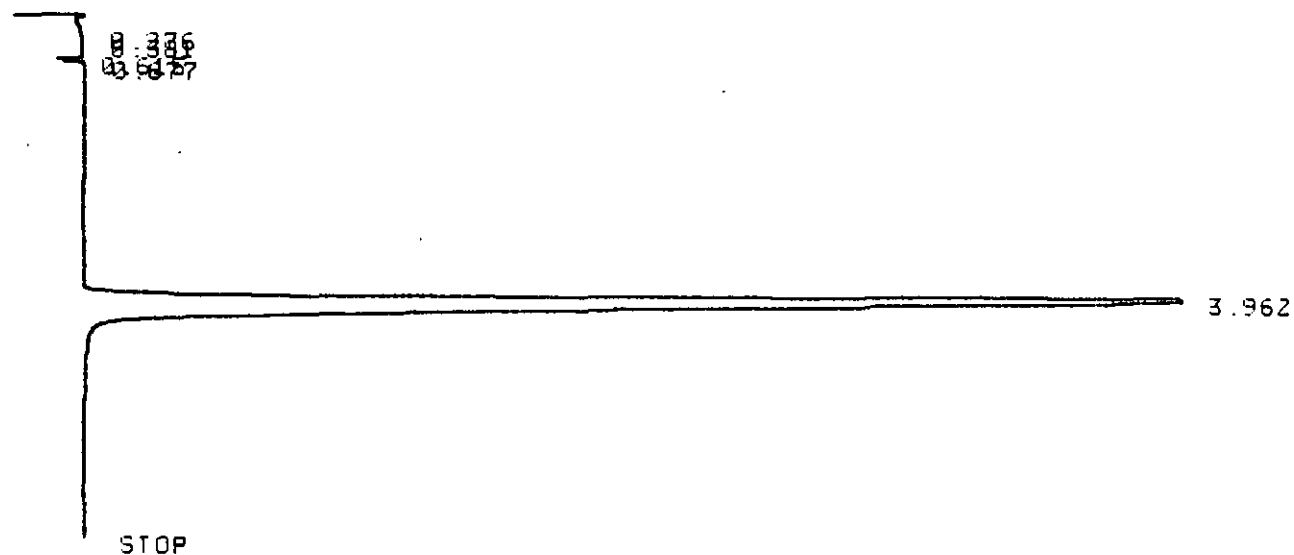
RUN# 100      APR 4, 1997 08:00:42

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 4.007 | 4956275 | BB   | 2    | 121.429 |

TOTAL AREA=5119424  
MUL FACTOR=1.0000E+00

\* RUN # 101      APR 4, 1997 08:07:38  
START



RUN# 101      APR 4, 1997 08:07:38

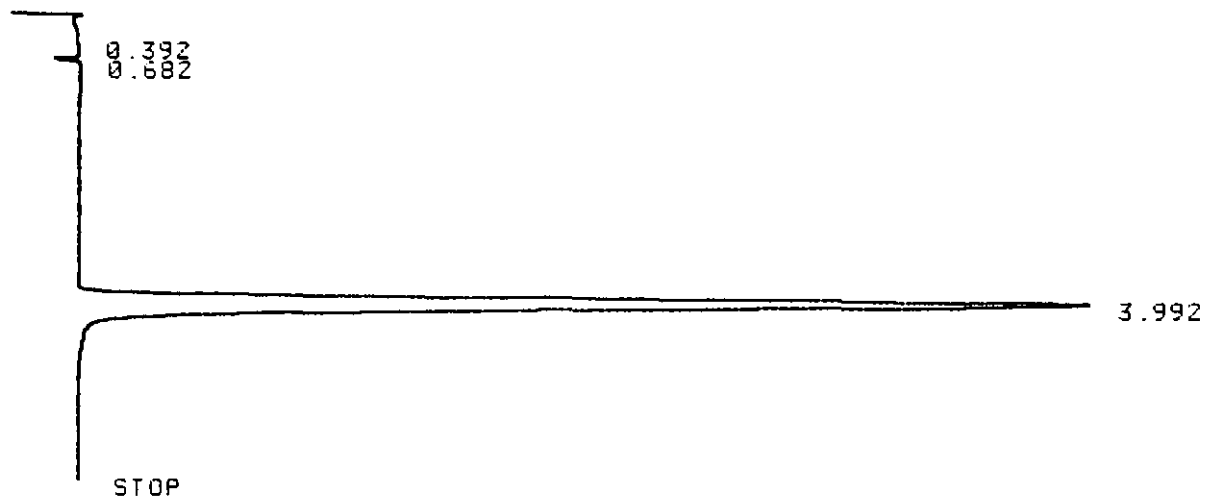
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.962 | 5749370 | PB   | 2    | 140.860 |

TOTAL AREA=5927354  
MUL FACTOR=1.0000E+00

\* RUN # 102 APR 4, 1997 08:15:45

START



RUN# 102 APR 4, 1997 08:15:45

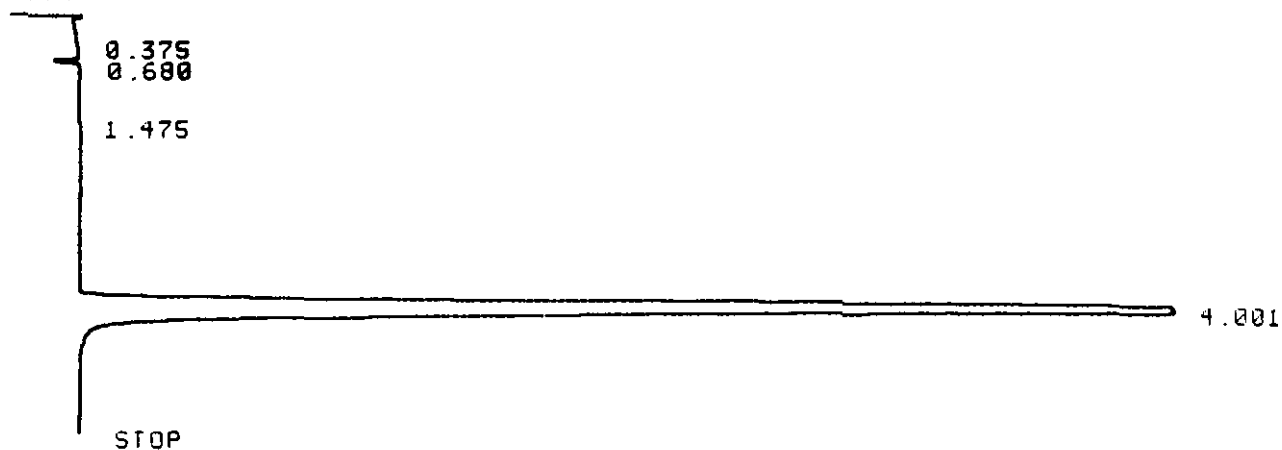
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.992 | 4937520 | PB   | 2    | 120.969 |

TOTAL AREA=5149917  
MUL FACTOR=1.0000E+00

\* RUN # 103 APR 4, 1997 08:24:42

START



RUN# 103 APR 4, 1997 08:24:42

| ESTD-AREA |         | AREA TYPE | CAL# | AMOUNT  |
|-----------|---------|-----------|------|---------|
| RT        |         |           |      |         |
| 4.001     | 7059546 | PB        | 2    | 172.959 |

TOTAL AREA=7312109  
MUL FACTOR=1.0000E+00

\* RUN # 104      APR 4, 1997 08:31:35

START

0.283  
006819

4.005

STOP

RUN# 104      APR 4, 1997 08:31:35

| ESTD-AREA |         | AREA TYPE | CAL# | AMOUNT  |
|-----------|---------|-----------|------|---------|
| RT        |         |           |      |         |
| 4.005     | 7731267 | PB        | 2    | 189.416 |

TOTAL AREA=7852397  
MUL FACTOR=1.0000E+00

\* RUN # 105      APR 4, 1997 08:39:02

START

0.240  
006819

2.383

4.006

STOP

RUN# 105 APR 4, 1997 08:39:02

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 4.006 | 7649680 | PB   | 2    | 187.417 |

TOTAL AREA=7721168

MUL FACTOR=1.0000E+00

\* RUN # 106 APR 4, 1997 08:50:03

START

0.212

0.646

1.825

3.596

4.027

STOP

RUN# 106 APR 4, 1997 08:50:03

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.825 | 2166414 | PB   | 1R   | 95.843 |
| 4.027 | 40768   | PV   | 2    | .999   |

TOTAL AREA=2215882

MUL FACTOR=1.0000E+00

\* RUN # 107 APR 4, 1997 08:56:23

START

0.240

0.651

1.813

3.995

STOP

RUN# 107

APR 4, 1997 08:56:23

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.813 | 2364376 | PB   | 1R   | 104.601 |
| 3.995 | 25855   | BU   | 2    | .633    |

TOTAL AREA=2399859

MUL FACTOR=1.0000E+00

\* RUN # 108

APR 4, 1997 09:02:52

START

0.660

1.461

1.819

3.999

STOP

RUN# 108

APR 4, 1997 09:02:52

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.819 | 2347678 | BB   | 1R   | 103.863 |
| 3.999 | 26522   | UU   | 2    | .650    |

TOTAL AREA=2377563

MUL FACTOR=1.0000E+00

\* RUN # 109

APR 4, 1997 09:21:11

START

0.249



0.0000  
1.778  
2.682

3.990

STOP

RUN# 109 APR 4, 1997 09:21:11

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 3.990 | 2146024 | PB   | 2    | 52.578 |

TOTAL AREA=2332877  
MUL FACTOR=1.0000E+00

\* RUN # 110 APR 4, 1997 09:26:30  
START

0.0000  
1.470  
1.773  
2.450  
2.650  
2.969

3.975

STOP

RUN# 110 APR 4, 1997 09:26:30

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.773 | 13341   | PU   | 1R   | .590    |
| 3.975 | 6499744 | PB   | 2    | 159.244 |

TOTAL AREA=7037398  
MUL FACTOR=1.0000E+00

\* RUN # 111 APR 4, 1997 09:33:04  
START

0.384

0.849  
0.860  
1.456  
1.763

2.450  
2.650  
2.955

3.960

STOP

RUN# 111 APR 4, 1997 09:33:04

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.763 | 109630  | UU   | 1R   | 4.850   |
| 3.960 | 6237210 | BB   | 2    | 152.812 |

TOTAL AREA=7070925

MUL FACTOR=1.0000E+00

\* RUN # 112 APR 4, 1997 09:43:23  
START

0.394  
0.840  
0.861  
1.460  
1.755

2.358  
2.641  
2.996

3.941

STOP

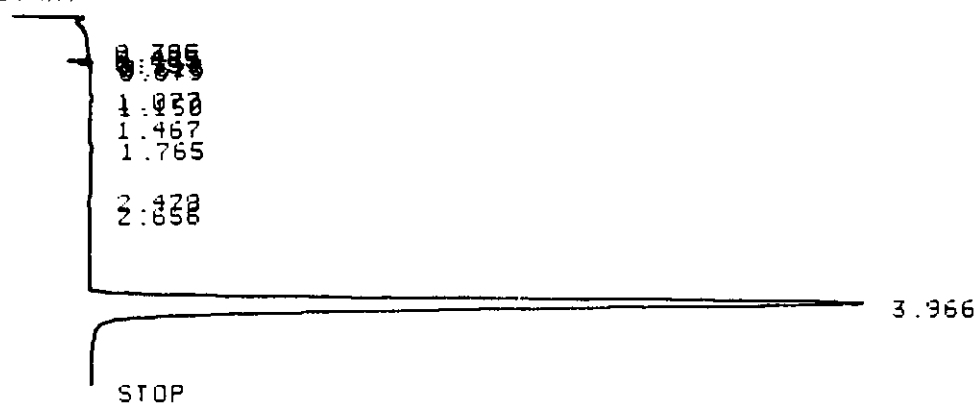
RUN# 112 APR 4, 1997 09:43:23

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.755 | 127572  | UU   | 1R   | 5.644   |
| 3.941 | 8282432 | PB   | 2    | 202.920 |

TOTAL AREA=9.2076E+06  
MUL FACTOR=1.0000E+00

\* RUN # 113      APR 4, 1997 09:49:42  
START



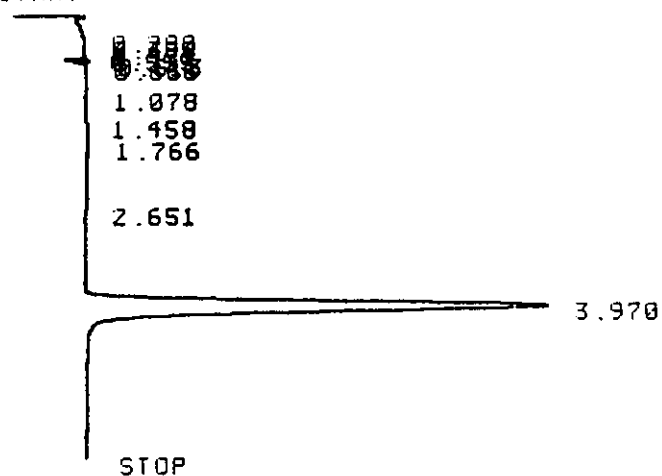
RUN# 113      APR 4, 1997 09:49:42

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.765 | 99838   | UU   | 1R   | 4.417  |
| 3.966 | 3772298 | UB   | 2    | 92.421 |

TOTAL AREA=4577712  
MUL FACTOR=1.0000E+00

\* RUN # 114      APR 4, 1997 09:55:29  
START



RUN# 114      APR 4, 1997 09:55:29

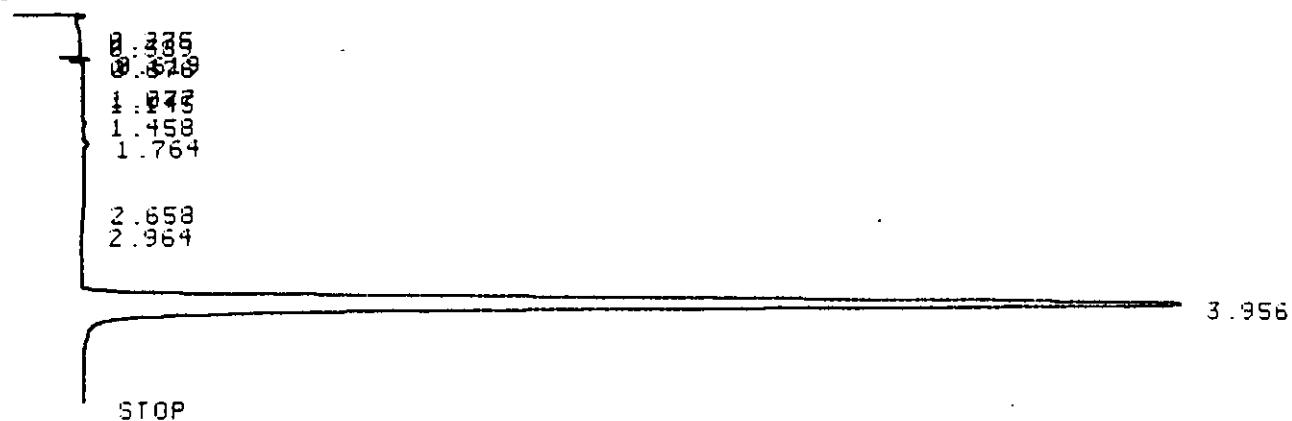
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.766 | 99838   | UU   | 1R   | 4.417  |
| 3.970 | 3772298 | UB   | 2    | 92.421 |

3.970 2256090 88 2 55.274

TOTAL AREA=2686389  
MUL FACTOR=1.0000E+00

\* RUN # 115 APR 4, 1997 10:01:58  
START



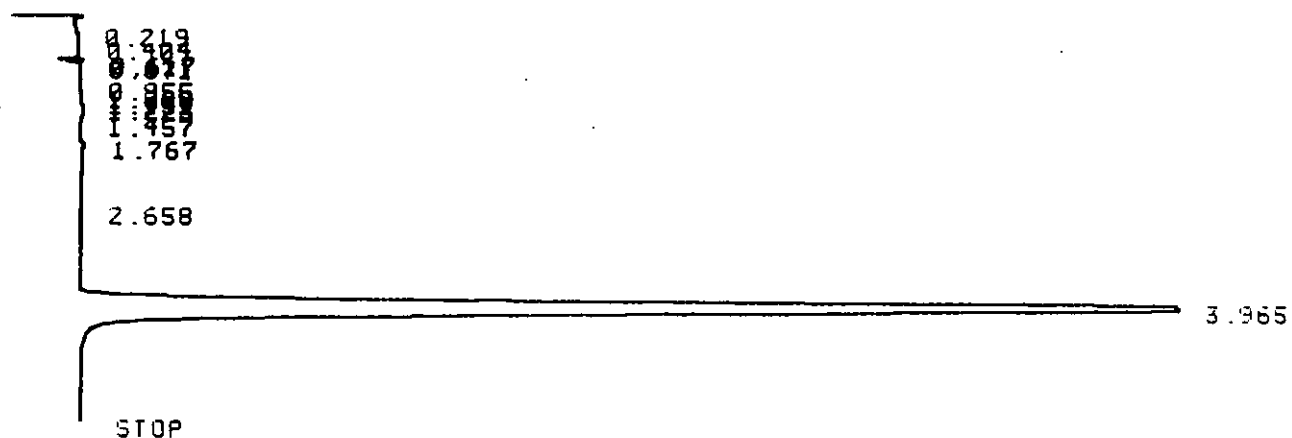
RUN# 115 APR 4, 1997 10:01:58

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.764 | 14664   | PU   | 1R   | .649    |
| 3.956 | 5446650 | PB   | 2    | 133.443 |

TOTAL AREA=5638250  
MUL FACTOR=1.0000E+00

\* RUN # 116 APR 4, 1997 10:07:48  
START



RUN# 116 APR 4, 1997 10:07:48

ESTD-AREA

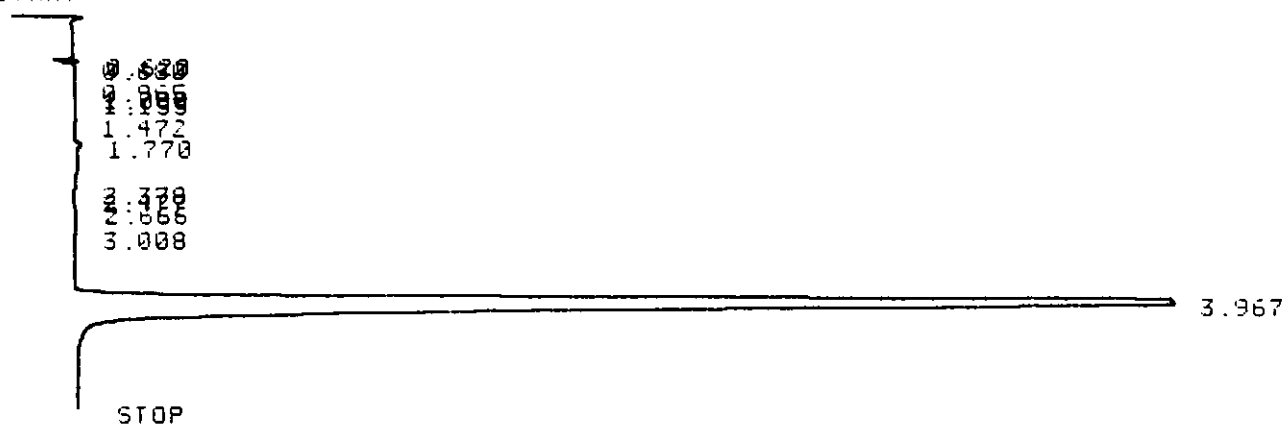
| RT | AREA | TYPE | CAL# | AMOUNT |
|----|------|------|------|--------|
|----|------|------|------|--------|

|       |         |    |    |         |
|-------|---------|----|----|---------|
| 1.767 | 116295  | UU | 1R | 5.145   |
| 3.965 | 6013485 | PB | 2  | 147.330 |

TOTAL AREA=6795398  
MUL FACTOR=1.0000E+00

\* RUN # 117      APR 4, 1997 10:13:52

START



RUN# 117      APR 4, 1997 10:13:52

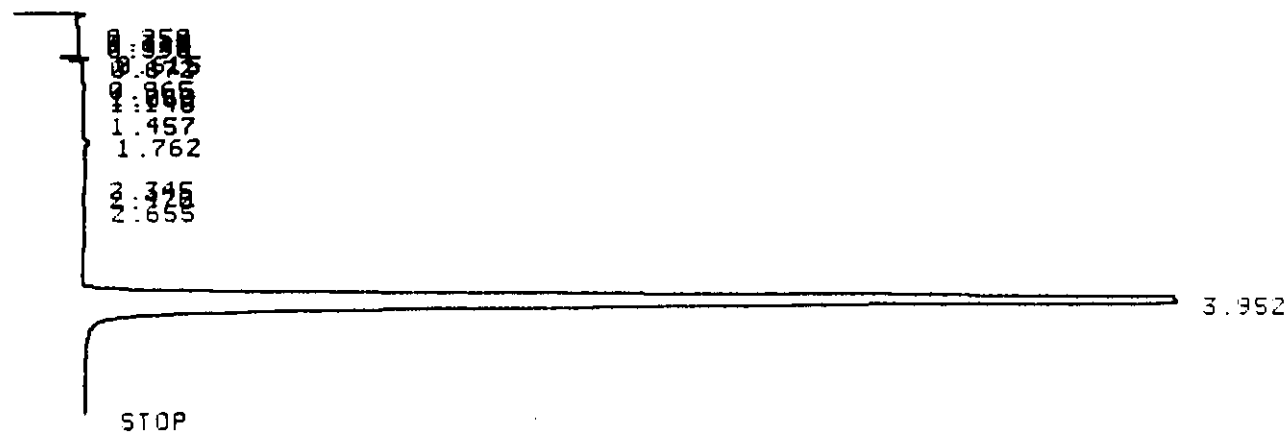
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.770 | 122762  | UU   | 1R   | 5.431   |
| 3.967 | 6616547 | PB   | 2    | 162.105 |

TOTAL AREA=7317642  
MUL FACTOR=1.0000E+00

\* RUN # 118      APR 4, 1997 10:20:00

START



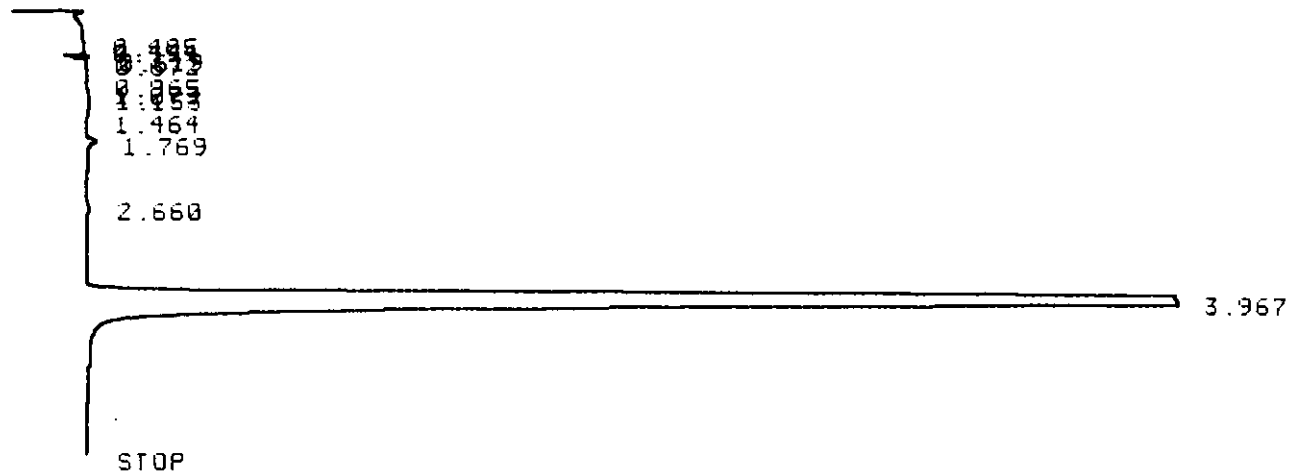
RUN# 118      APR 4, 1997 10:20:00

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.762 | 122169  | UU   | 1R   | 5.405   |
| 3.952 | 6532752 | PB   | 2    | 160.052 |

TOTAL AREA=7184422  
MUL FACTOR=1.0000E+00

\* RUN # 119      APR 4, 1997 10:25:55  
START



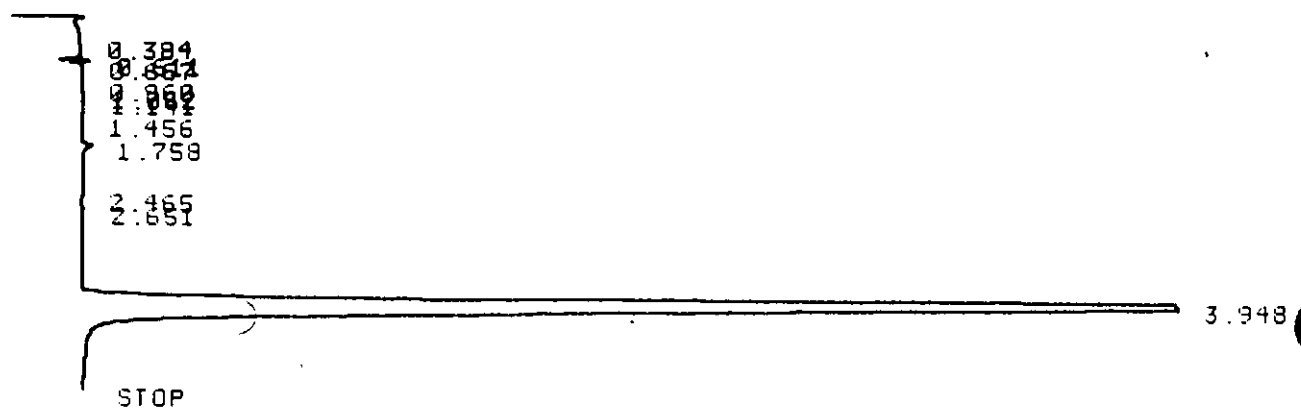
RUN# 119      APR 4, 1997 10:25:55

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.769 | 22717   | UU   | 1R   | 1.005   |
| 3.967 | 8488742 | PB   | 2    | 207.974 |

TOTAL AREA=8.7450E+06  
MUL FACTOR=1.0000E+00

\* RUN # 120      APR 4, 1997 10:32:32  
START



RUN# 120      APR 4, 1997 10:32:32

## ESTD-AREA

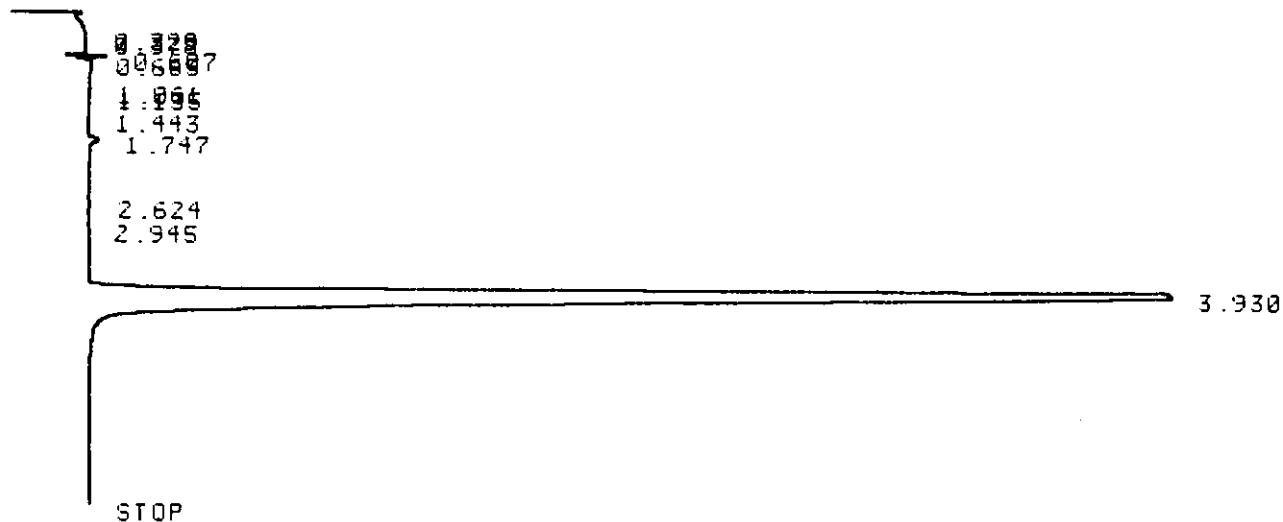
| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.758 | 84151   | UU   | 1R   | 3.723   |
| 3.948 | 6401610 | BB   | 2    | 156.839 |

TOTAL AREA=6941571

MUL FACTOR=1.0000E+00

\* RUN # 121 APR 4, 1997 10:38:11

START



RUN# 121 APR 4, 1997 10:38:11

## ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.747 | 75008   | UU   | 1R   | 3.318   |
| 3.930 | 6297552 | PB   | 2    | 154.290 |

TOTAL AREA=6829830

MUL FACTOR=1.0000E+00

\* RUN # 122 APR 4, 1997 10:45:21

START



STOP

RUN# 122 APR 4, 1997 10:45:21

ESTD-AREA

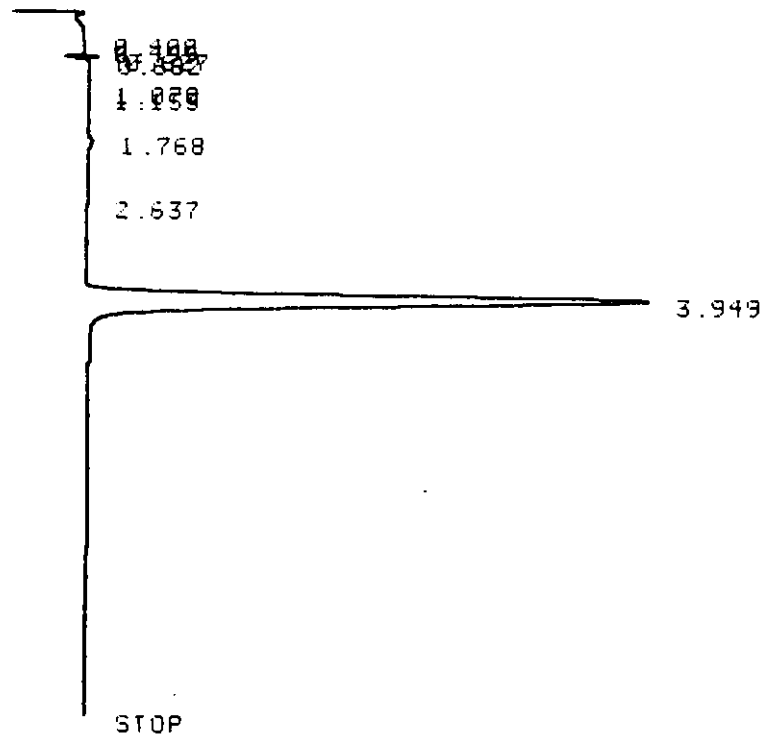
| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.784 | 77029   | UU   | 1R   | 3.408  |
| 4.005 | 3189914 | BB   | 2    | 78.153 |

TOTAL AREA=3603526

MUL FACTOR=1.0000E+00

\* RUN # 123 APR 4, 1997 10:56:43

START



STOP

RUN# 123 APR 4, 1997 10:56:43

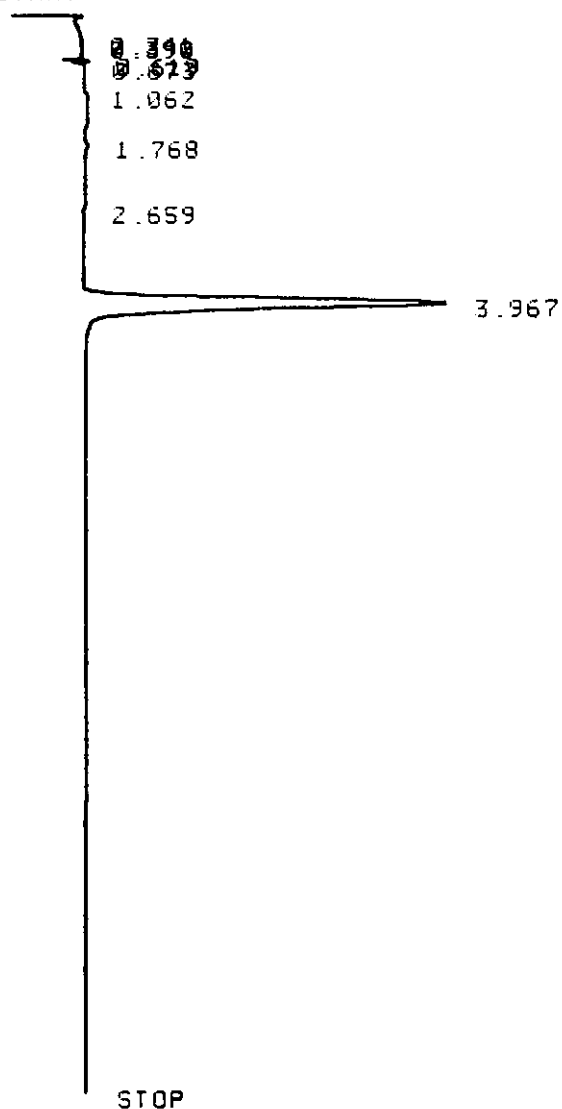
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.768 | 128591  | UU   | 1R   | 5.689  |
| 3.949 | 2726037 | BB   | 2    | 66.788 |



TOTAL AREA=3333102  
MUL FACTOR=1.0000E+00

\* RUN # 124      APR 4, 1997 11:07:43  
START



RUN# 124      APR 4, 1997 11:07:43

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.768 | 10486   | PU   | 1R   | .464   |
| 3.967 | 1768040 | BB   | 2    | 43.317 |

TOTAL AREA=1959791  
MUL FACTOR=1.0000E+00

\* RUN # 125      APR 4, 1997 11:22:59  
START

0.628

1.782

2.663

3.987

STOP

RUN# 125

APR 4, 1997 11:22:59

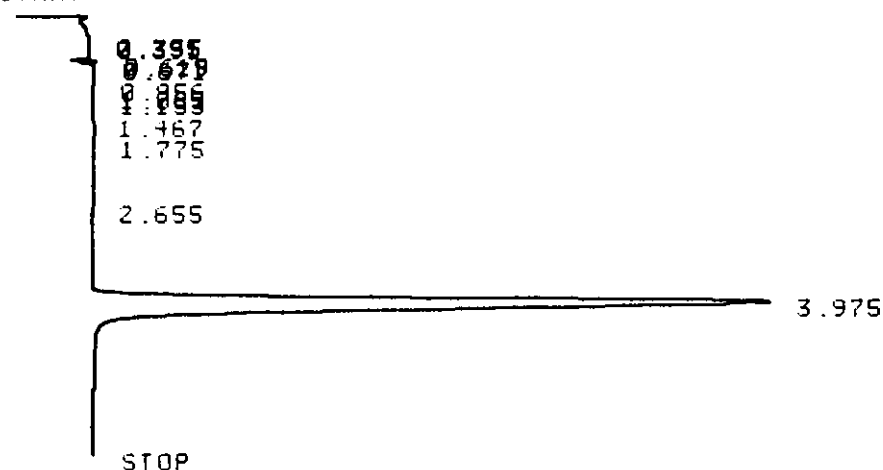
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.782 | 8136    | UU   | 1R   | .360   |
| 3.987 | 1154462 | BB   | 2    | 28.284 |

1154462-1154462

MUL FACTOR=1.0000E+00

\* RUN # 126      APR 4, 1997 12:32:05  
START



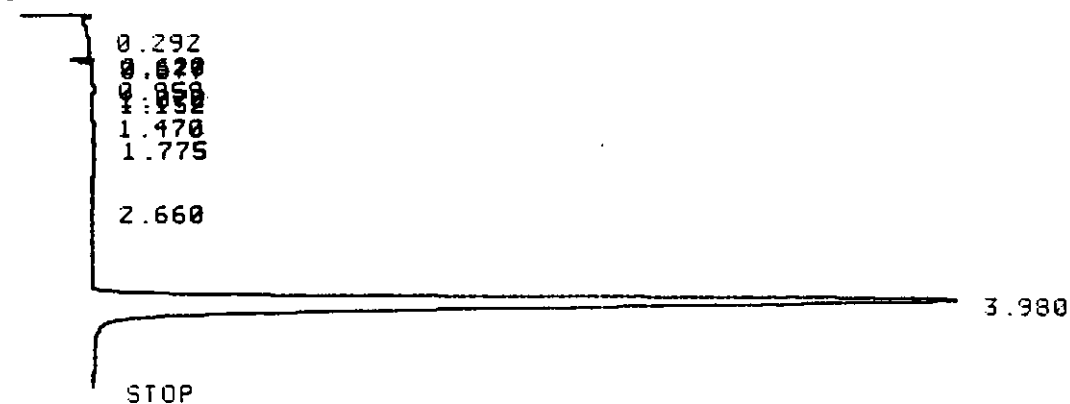
RUN# 126      APR 4, 1997 12:32:05

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.775 | 44463   | UU   | 1R   | 1.967  |
| 3.975 | 3301888 | PB   | 2    | 80.896 |

TOTAL AREA=3757418  
MUL FACTOR=1.0000E+00

\* RUN # 127      APR 4, 1997 12:38:38  
START



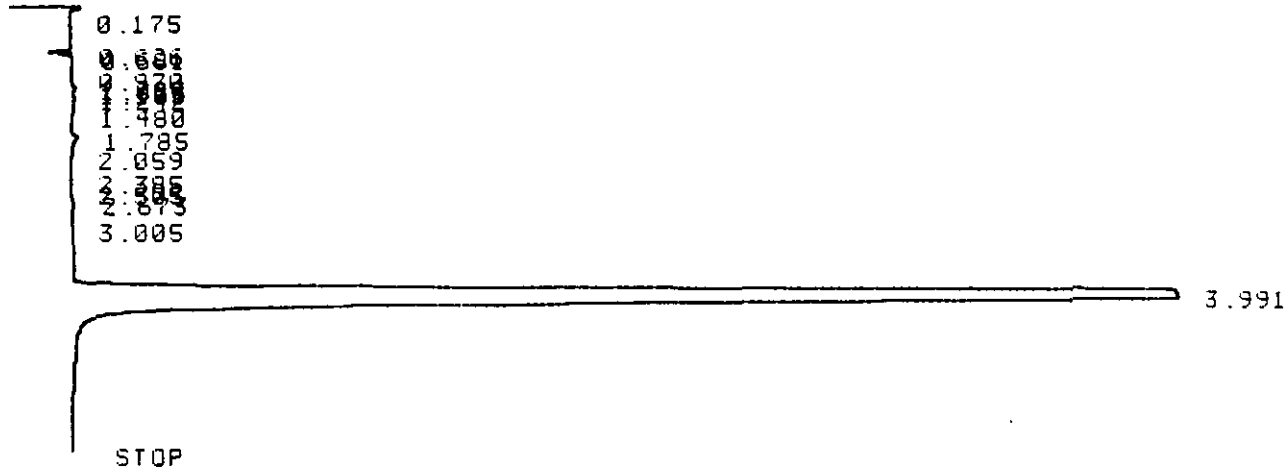
RUN# 127      APR 4, 1997 12:38:38

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.775 | 79238   | UU   | 1R   | 3.506   |
| 3.980 | 4213530 | PB   | 2    | 103.231 |

TOTAL AREA=4815891  
MUL FACTOR=1.0000E+00

\* RUN # 128 APR 4, 1997 12:44:15  
START



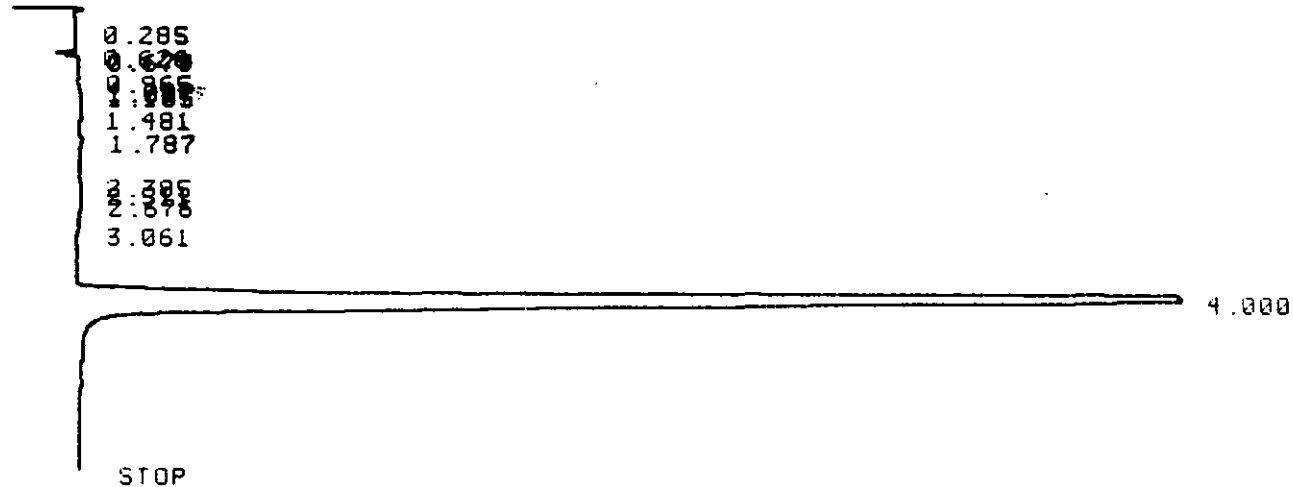
RUN# 128 APR 4, 1997 12:44:15

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.785 | 143497  | UU   | 1R   | 6.348   |
| 3.991 | 8607987 | PB   | 2    | 210.896 |

TOTAL AREA=9.4676E+06  
MUL FACTOR=1.0000E+00

\* RUN # 129 APR 4, 1997 12:51:14  
START



RUN# 129 APR 4, 1997 12:51:14

## ESTD-AREA

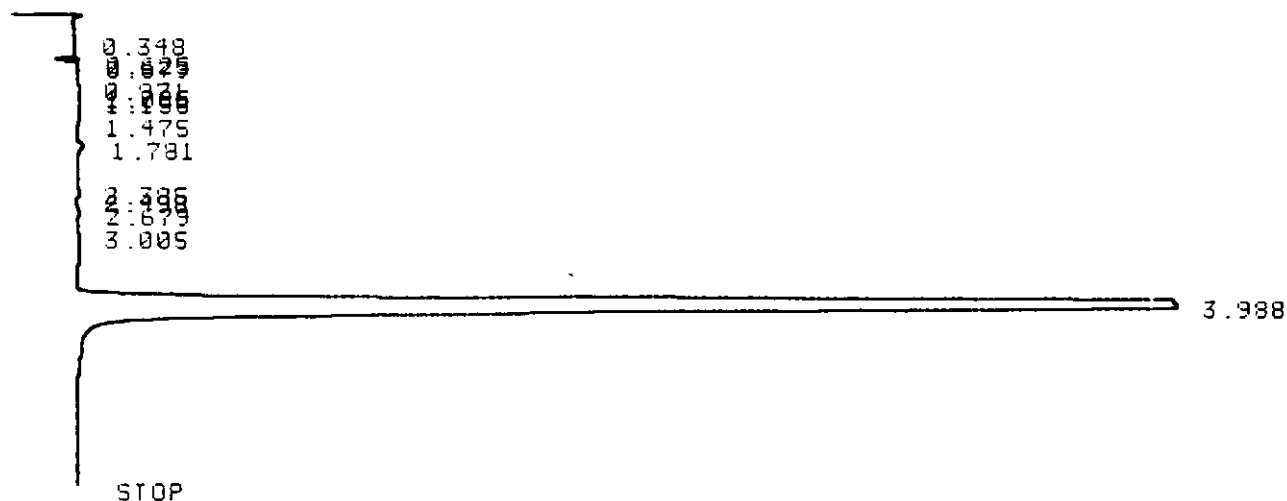
| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.787 | 12472   | UU   | 1R   | .552    |
| 4.000 | 6776691 | PB   | 2    | 166.029 |

TOTAL AREA=6916435

MUL FACTOR=1.0000E+00

\* RUN # 130 APR 4, 1997 12:58:07

START



STOP

RUN# 130

APR 4, 1997 12:58:07

## ESTD-AREA

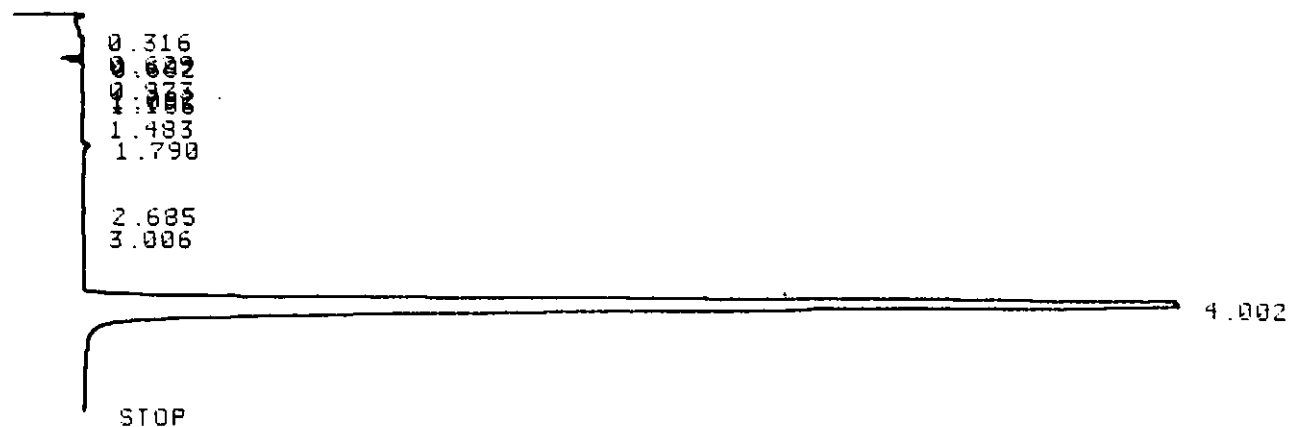
| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.781 | 139911  | UU   | 1R   | 6.190   |
| 3.988 | 8250592 | PB   | 2    | 202.139 |

TOTAL AREA=9.0640E+06

MUL FACTOR=1.0000E+00

\* RUN # 131 APR 4, 1997 13:05:12

START



STOP

RUN# 131

APR 4, 1997 13:05:12

ESTD-AREA

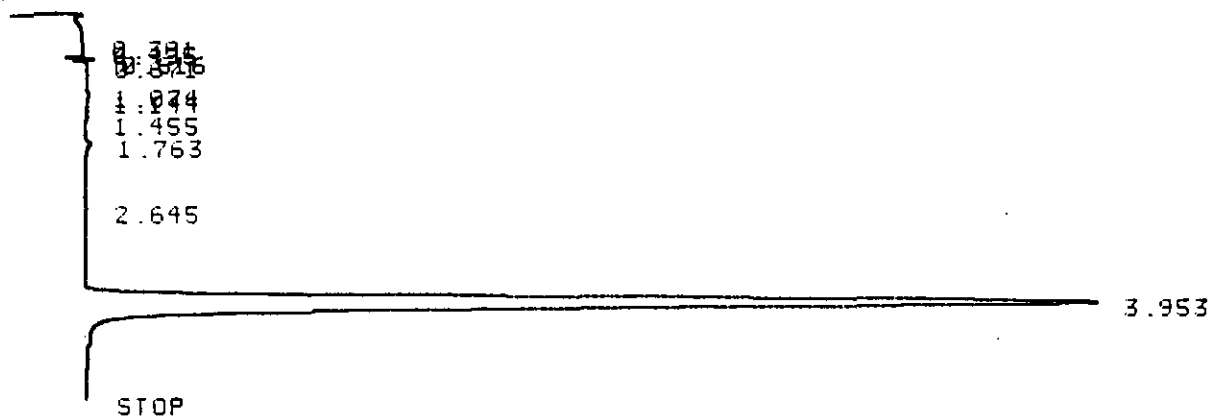
| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.790 | 81729   | UU   | 1R   | 3.616   |
| 4.002 | 6506419 | PB   | 2    | 159.407 |

TOTAL AREA=7004867

MUL FACTOR=1.0000E+00

\* RUN # 132 APR 4, 1997 13:11:05

START



RUN# 132

APR 4, 1997 13:11:05

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.763 | 126412  | UU   | 1R   | 5.593   |
| 3.953 | 4900512 | PB   | 2    | 120.063 |

TOTAL AREA=5566096

MUL FACTOR=1.0000E+00

\* RUN # 133 APR 4, 1997 13:16:49

START



STOP

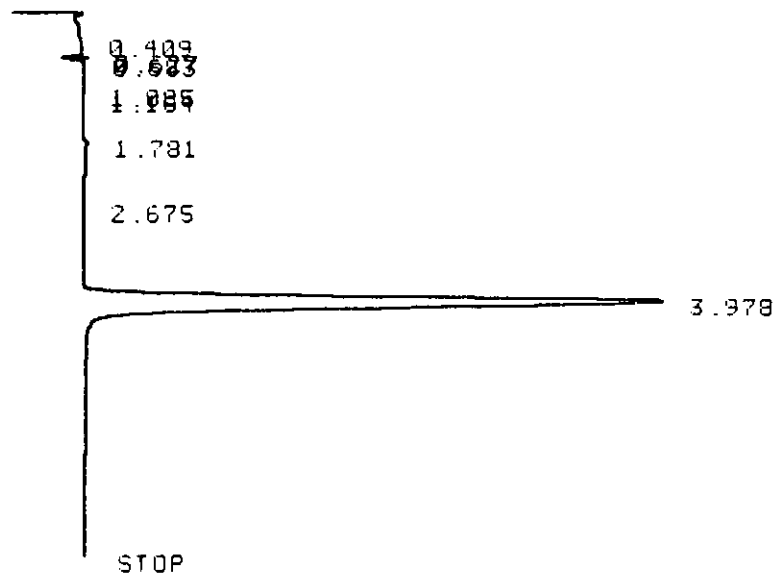
RUN# 133 APR 4, 1997 13:16:49

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.778 | 12555   | PU   | 1R   | .555   |
| 3.974 | 3396750 | PB   | 2    | 83.220 |

TOTAL AREA=3575589  
MUL FACTOR=1.0000E+00

\* RUN # 134 APR 4, 1997 13:24:56  
START



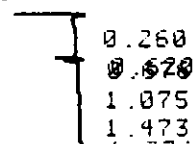
RUN# 134 APR 4, 1997 13:24:56

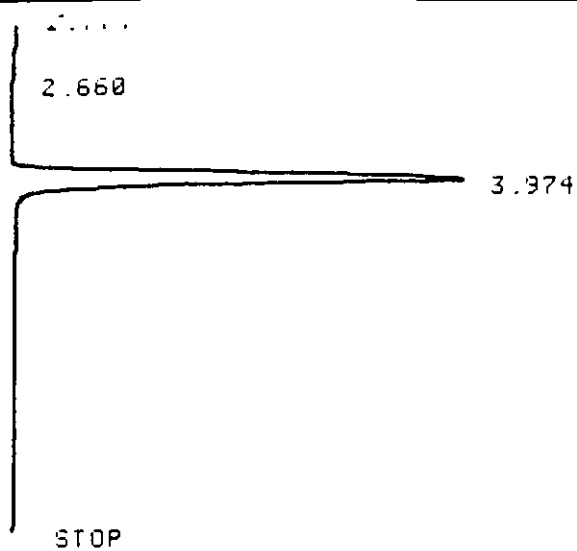
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.781 | 13007   | UP   | 1R   | .575   |
| 3.978 | 2812440 | PB   | 2    | 68.905 |

TOTAL AREA=3008858  
MUL FACTOR=1.0000E+00

\* RUN # 135 APR 4, 1997 13:32:57  
START





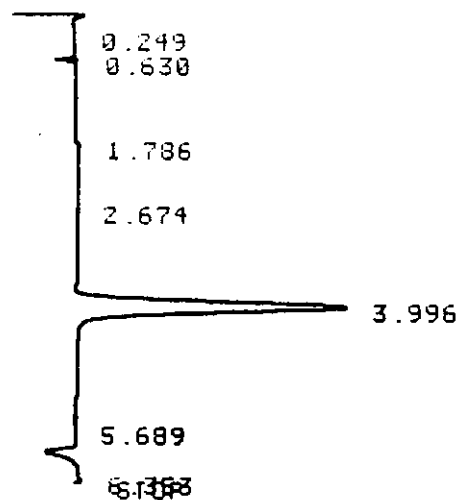
RUN# 135 APR 4, 1997 13:32:57

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.774 | 107681  | UU   | 1R   | 4.764  |
| 3.974 | 2181157 | PB   | 2    | 53.438 |

TOTAL AREA=2708798  
MUL FACTOR=1.0000E+00

\* RUN # 136 APR 4, 1997 13:42:18  
START



RUN# 136 APR 4, 1997 13:42:18

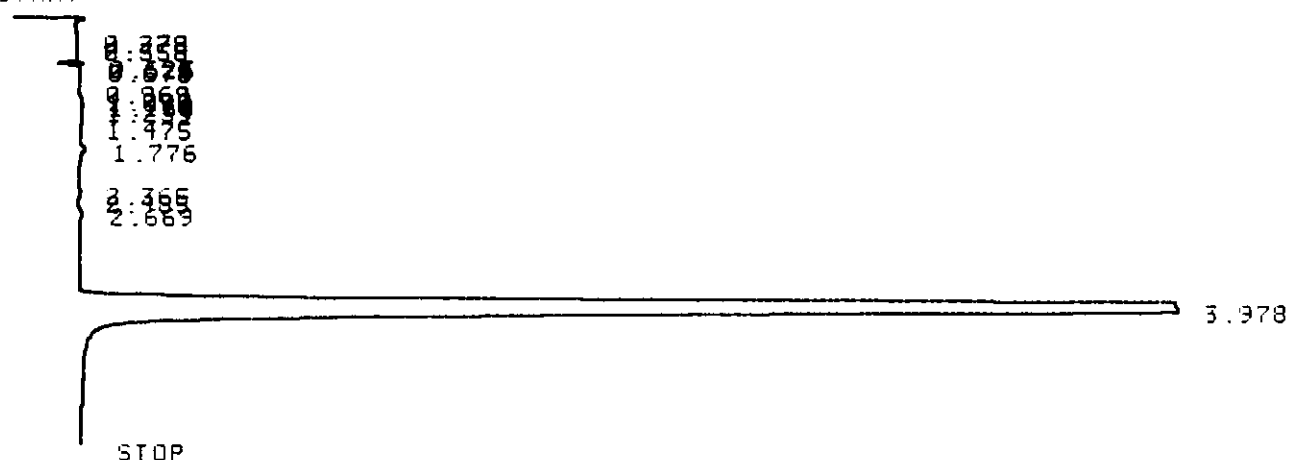
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.786 | 9613    | PU   | 1R   | .425   |
| 3.996 | 1312078 | PB   | 2    | 32.146 |

TOTAL AREA=1756431  
MUL FACTOR=1.0000E+00



\* RUN # 137      APR 4, 1997 13:53:23  
START



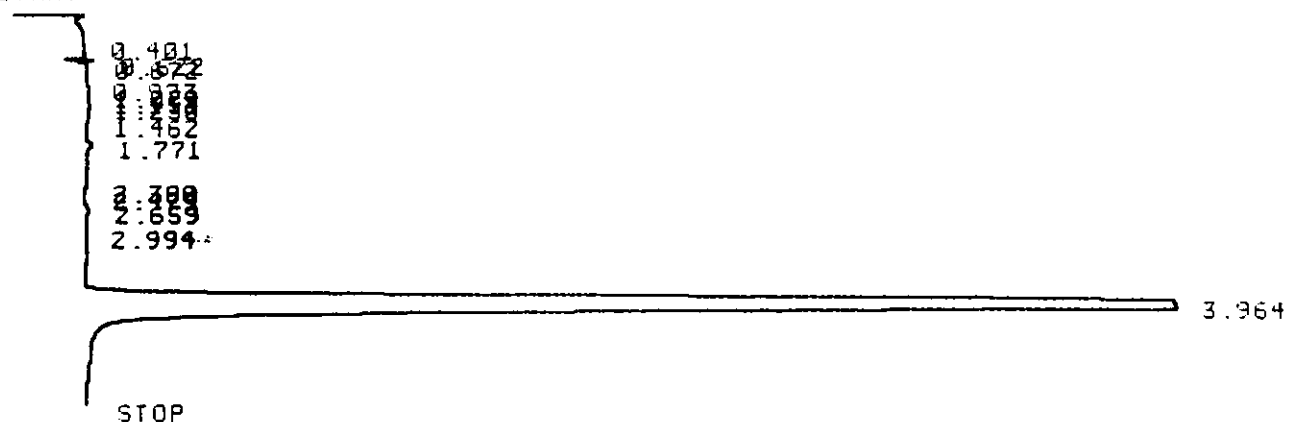
RUN# 137      APR 4, 1997 13:53:23

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.776 | 109985  | UU   | 1R   | 4.861   |
| 3.978 | 9629830 | PB   | 2    | 235.931 |

TOTAL AREA=1.0458E+07  
MUL FACTOR=1.0000E+00

\* RUN # 138      APR 4, 1997 14:00:08  
START



RUN# 138      APR 4, 1997 14:00:08

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.771 | 148966  | UU   | 1R   | 6.590   |
| 3.964 | 8646016 | PB   | 2    | 211.827 |

TOTAL AREA=9.6990E+06  
MUL FACTOR=1.0000E+00

\* RUN # 139      APR 4, 1997 14:06:16  
START

0.278  
0.628  
0.908  
1.188  
1.468  
1.775  
  
2.435  
2.668  
2.970

3.976

STOP

RUN# 139      APR 4, 1997 14:06:16

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.775 | 128256  | UU   | 1R   | 5.674   |
| 3.976 | 6353690 | PB   | 2    | 155.665 |

TOTAL AREA=7090426  
MUL FACTOR=1.0000E+00

\* RUN # 140      APR 4, 1997 14:12:20  
START

0.201  
0.600  
0.925  
1.188  
1.479  
1.787  
  
2.388  
2.685  
3.027

4.005

STOP

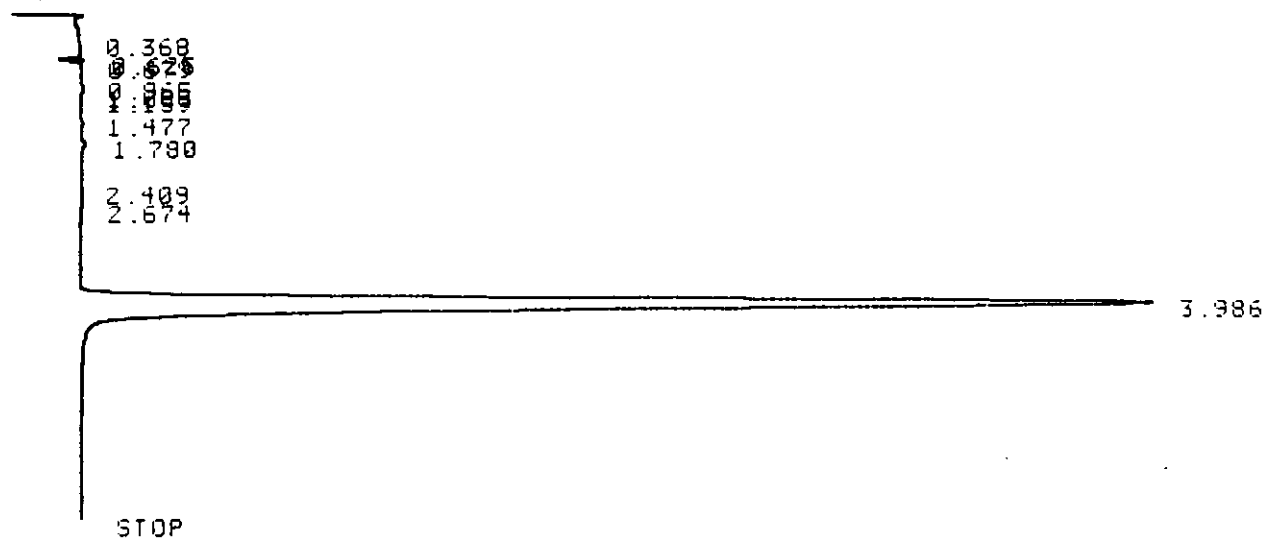
RUN# 140      APR 4, 1997 14:12:20

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.787 | 126295  | UU   | 1R   | 5.587   |
| 4.005 | 8536339 | PB   | 2    | 209.140 |

TOTAL AREA=9.3991E+06  
MUL FACTOR=1.0000E+00

\* RUN # 141      APR 4, 1997 14:18:25  
START



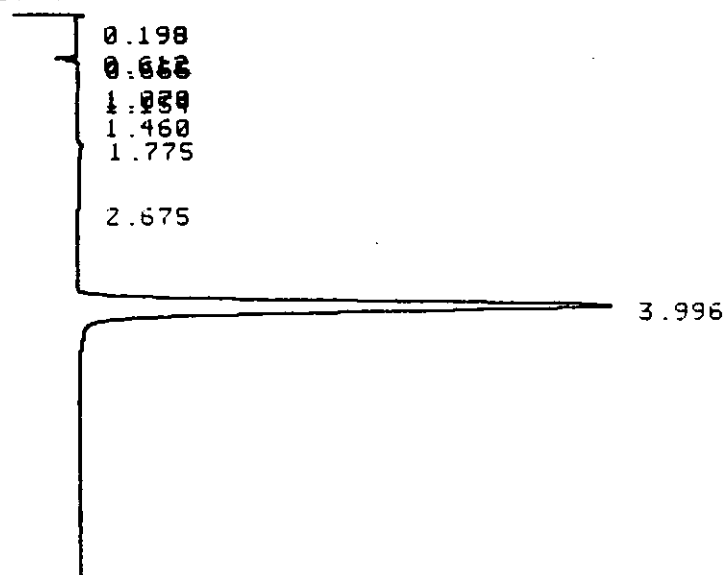
RUN# 141      APR 4, 1997 14:18:25

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.780 | 123300  | UU   | 1R   | 5.455   |
| 3.986 | 5223779 | PB   | 2    | 127.983 |

TOTAL AREA=5867046  
MUL FACTOR=1.0000E+00

\* RUN # 142      APR 4, 1997 14:26:23  
START



STOP

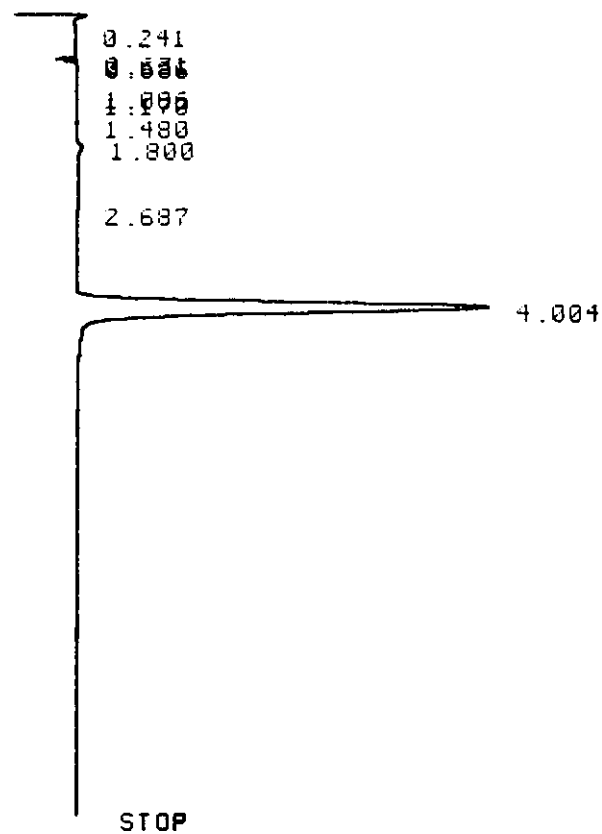
RUN# 142 APR 4, 1997 14:26:23

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.775 | 43108   | UU   | 1R   | 1.907  |
| 3.996 | 2583584 | PB   | 2    | 63.298 |

TOTAL AREA=2885566  
MUL FACTOR=1.0000E+00

\* RUN # 143 APR 4, 1997 14:35:23  
START



RUN# 143 APR 4, 1997 14:35:23

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.800 | 16482   | UU   | 1R   | .729   |
| 4.004 | 2004485 | BB   | 2    | 49.110 |

TOTAL AREA=2104733  
MUL FACTOR=1.0000E+00

START

0.339  
0.617

1.790

2.662

3.962

STOP

RUN# 144 APR 4, 1997 14:46:56

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.790 | 22424   | PU   | 1R   | .992   |
| 3.962 | 1737152 | PB   | 2    | 42.560 |

TOTAL AREA=1999949  
MUL FACTOR=1.0000E+00

\* RUN # 145 APR 4, 1997 14:55:03

START

0.335  
0.619

1.472  
1.779

2.662

3.955

STOP

RUN# 145

APR 4, 1997 14:55:03

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.779 | 139307  | UU   | 1R   | 6.163  |
| 3.955 | 1152829 | PB   | 2    | 28.244 |

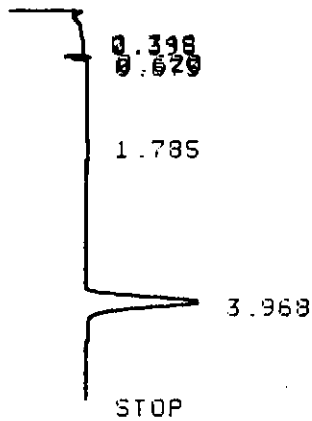
TOTAL AREA=1662507

MUL FACTOR=1.0000E+00

\* RUN # 146

APR 4, 1997 15:05:33

START



RUN# 146

APR 4, 1997 15:05:33

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.785 | 9734   | UP   | 1R   | .431   |
| 3.968 | 556481 | PV   | 2    | 13.634 |

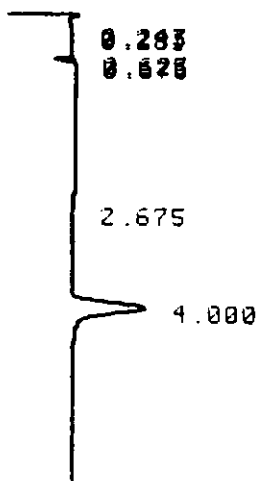
TOTAL AREA= 819071

MUL FACTOR=1.0000E+00

\* RUN # 147

APR 4, 1997 15:11:21

START



STOP

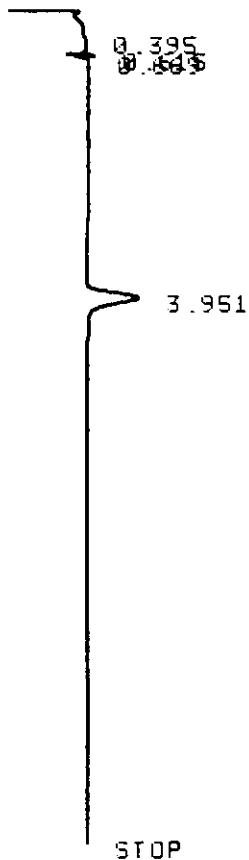
RUN# 147 APR 4, 1997 15:11:21

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 4.000 | 355620 | UU   | 2    | 8.713  |

TOTAL AREA= 424507  
MUL FACTOR=1.0000E+00

\* RUN # 148 APR 4, 1997 15:22:56  
START



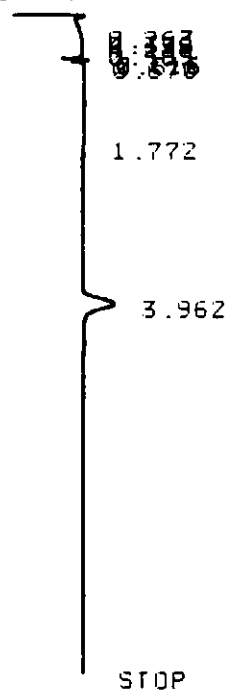
RUN# 148 APR 4, 1997 15:22:56

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 3.951 | 256595 | BU   | 2    | 6.287  |

TOTAL AREA= 514277  
MUL FACTOR=1.0000E+00

\* RUN # 149      APR 4, 1997 15:34:47  
START



RUN# 149      APR 4, 1997 15:34:47

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.772 | 4315   | PU   | 1R   | .191   |
| 3.962 | 159624 | PP   | 2    | 3.911  |

TOTAL AREA= 359263  
MUL FACTOR=1.0000E+00

\* RUN # 150      APR 4, 1997 15:45:03  
START





STOP

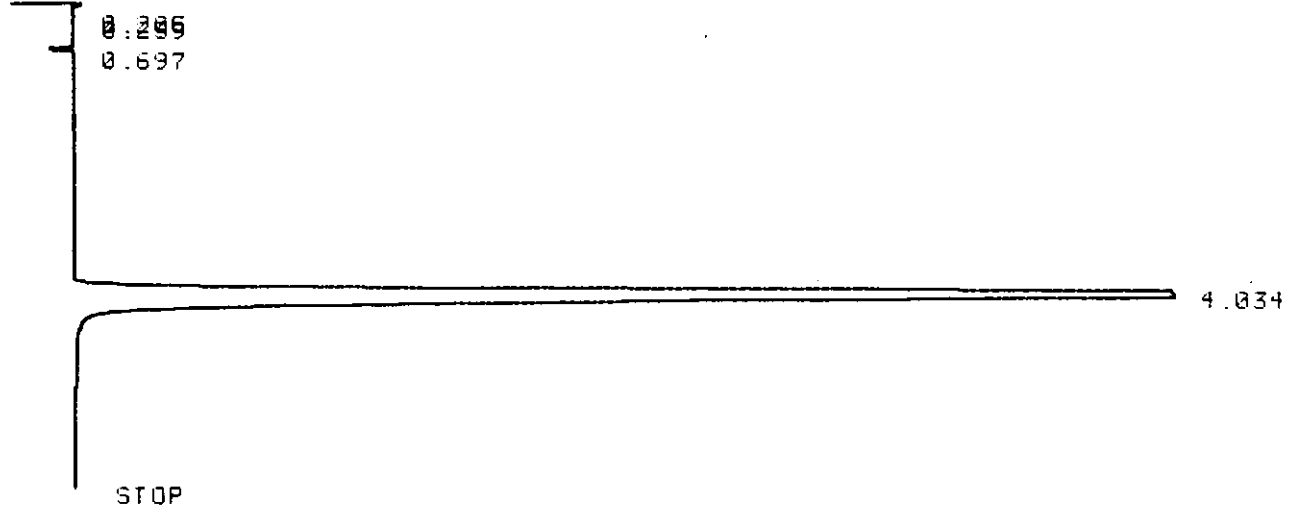
RUN# 150 APR 4, 1997 15:45:03

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 4.035 | 6810240 | PB   | 2    | 166.851 |

TOTAL AREA=6876086  
MUL FACTOR=1.0000E+00

\* RUN # 151 APR 4, 1997 15:52:13  
START



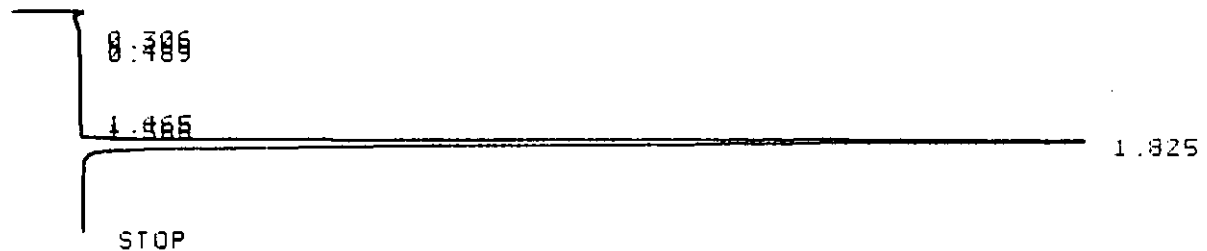
RUN# 151 APR 4, 1997 15:52:13

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 4.034 | 6712224 | BB   | 2    | 164.449 |

TOTAL AREA=6868013  
MUL FACTOR=1.0000E+00

\* RUN # 152 APR 4, 1997 16:00:05  
START



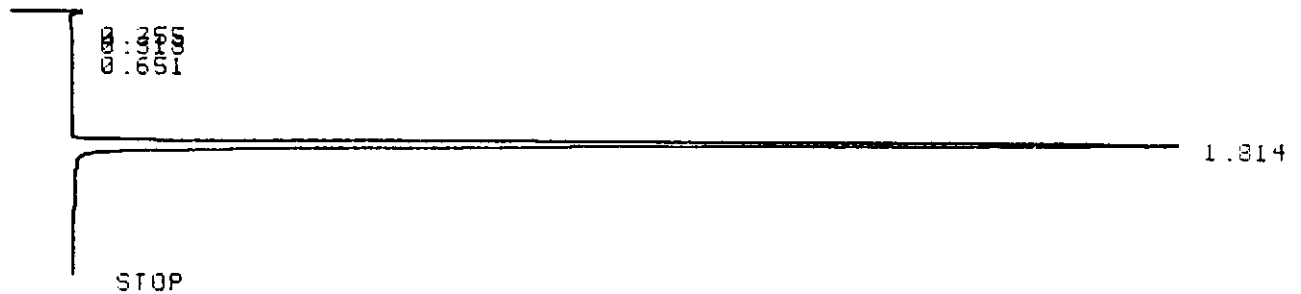
RUN# 152 APR 4, 1997 16:00:05

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.825 | 2194438 | P8   | 1R   | 97.083 |

TOTAL AREA=2228661  
MUL FACTOR=1.0000E+00

\* RUN # 153 APR 4, 1997 16:04:12  
START



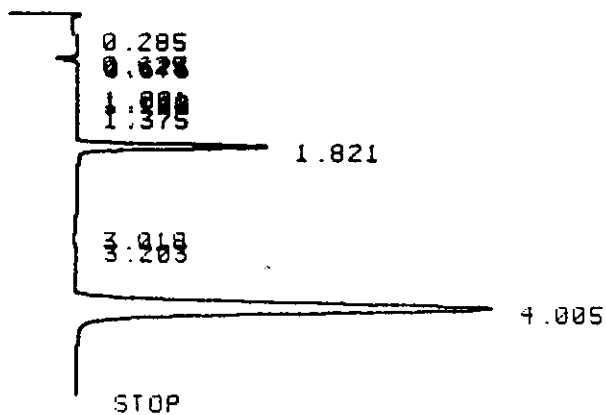
RUN# 153 APR 4, 1997 16:04:12

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.814 | 2450414 | B8   | 1R   | 108.408 |

TOTAL AREA=2473328  
MUL FACTOR=1.0000E+00

\* RUN # 154 APR 4, 1997 16:11:22  
START



C404-02  
NMMA-3-1  
18' Hru Belcoat

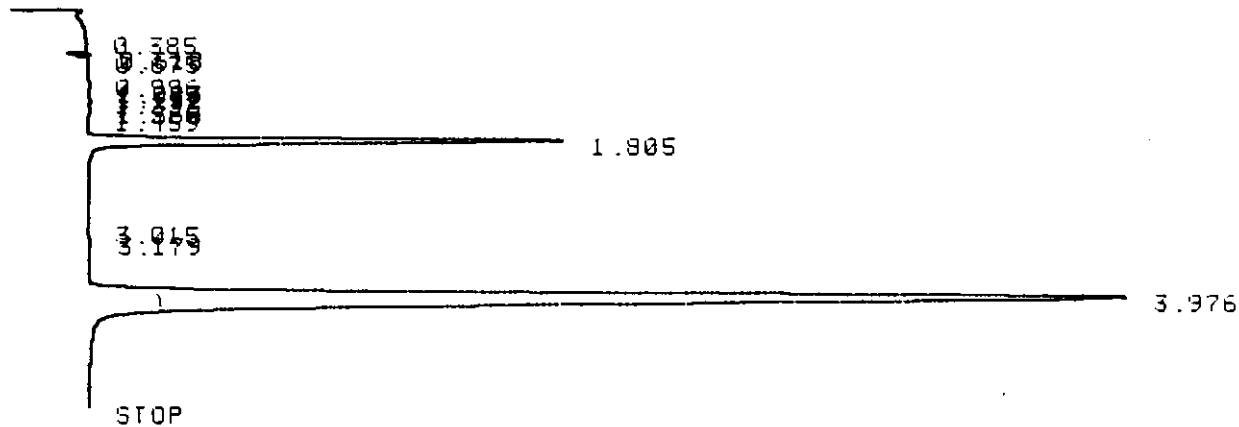
RUN# 154 APR 4, 1997 16:11:22

ESTD-AREA

| RT | AREA | TYPE | CAL# | AMOUNT |
|----|------|------|------|--------|
|----|------|------|------|--------|

TOTAL AREA=2705661  
MUL FACTOR=1.0000E+00

\* RUN # 155 APR 4, 1997 16:17:02  
START

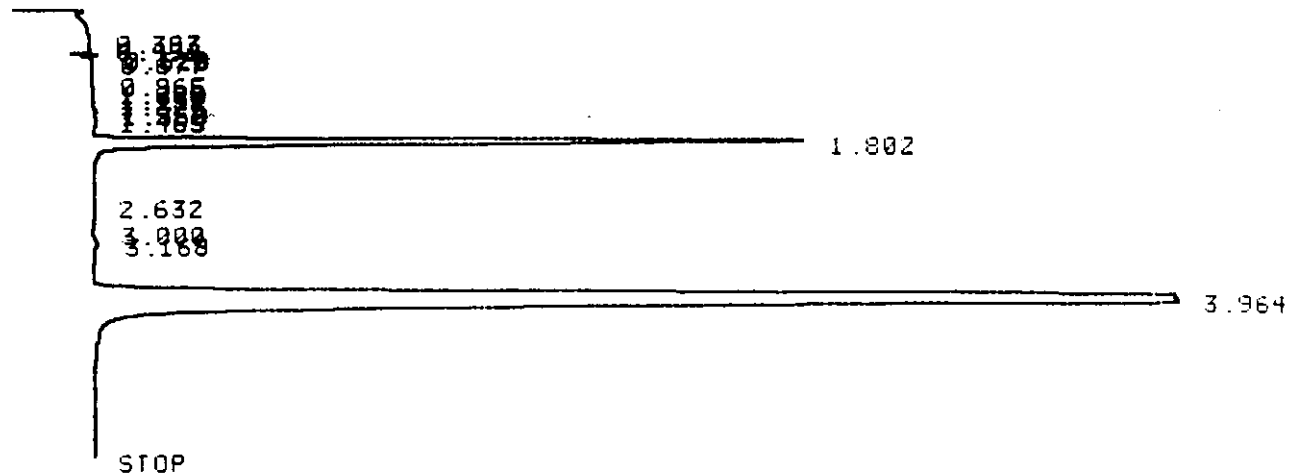


RUN# 155 APR 4, 1997 16:17:02

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.805 | 1064450 | UB   | 1R   | 47.092  |
| 3.976 | 5050669 | PB   | 2    | 123.741 |

TOTAL AREA=6610192  
MUL FACTOR=1.0000E+00

\* RUN # 156 APR 4, 1997 16:23:05  
START



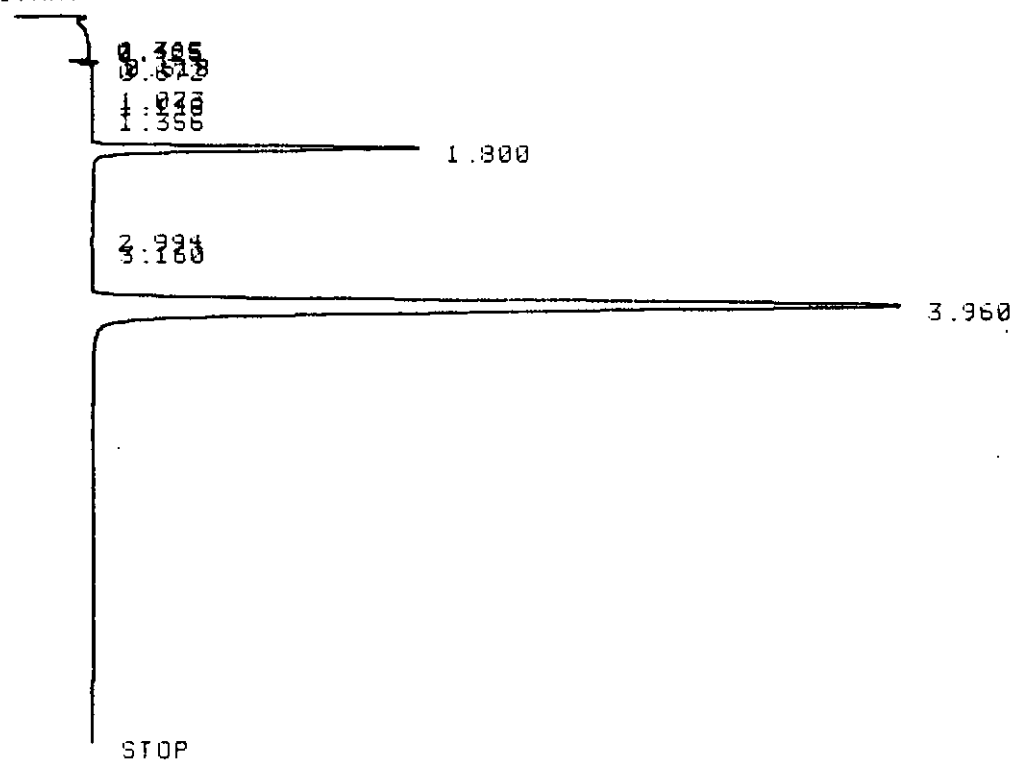
RUN# 156 APR 4, 1997 16:23:05

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.802 | 1570449 | BB   | 1R   | 69.478  |
| 3.964 | 7957434 | PB   | 2    | 194.957 |

TOTAL AREA=1.0041E+07  
MUL FACTOR=1.0000E+00

\* RUN # 157 APR 4, 1997 16:30:09  
START



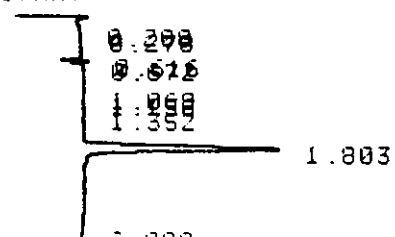
RUN# 157 APR 4, 1997 16:30:09

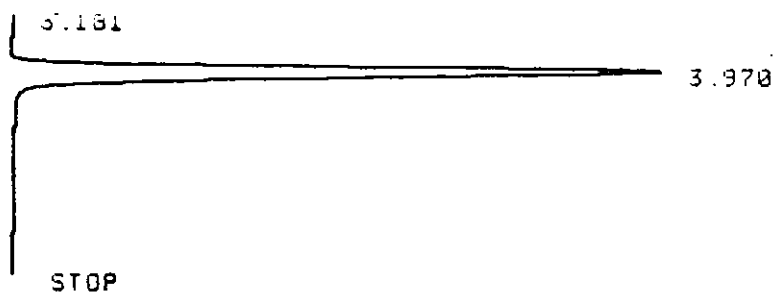
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.800 | 736969  | UB   | 1R   | 32.604 |
| 3.960 | 3921122 | PB   | 2    | 96.067 |

TOTAL AREA=5066138  
MUL FACTOR=1.0000E+00

\* RUN # 158 APR 4, 1997 16:40:31  
START





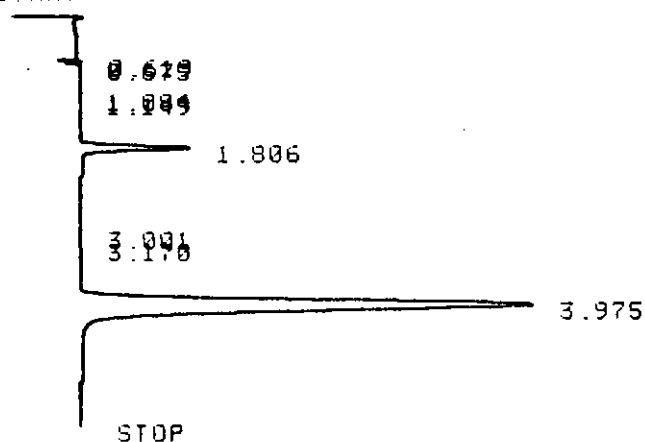
RUN# 158 APR 4, 1997 16:40:31

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.803 | 451264  | UB   | 1R   | 19.964 |
| 3.970 | 3135224 | BB   | 2    | 76.813 |

TOTAL AREA=3869058  
MUL FACTOR=1.0000E+00

\* RUN # 159 APR 4, 1997 16:47:41  
START



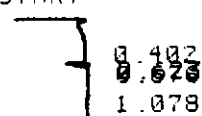
RUN# 159 APR 4, 1997 16:47:41

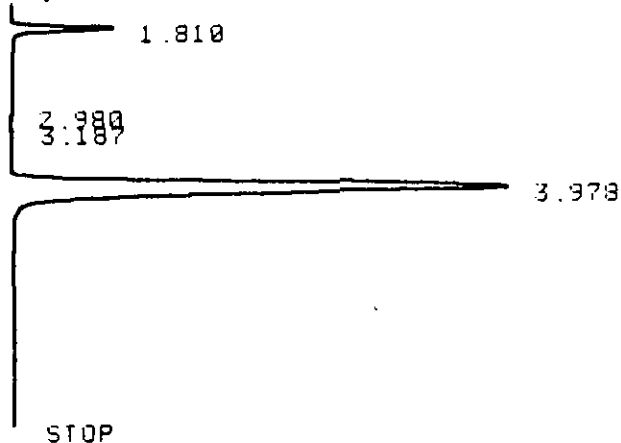
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.806 | 268054  | UB   | 1R   | 11.859 |
| 3.975 | 2208101 | PB   | 2    | 54.098 |

TOTAL AREA=2699978  
MUL FACTOR=1.0000E+00

\* RUN # 160 APR 4, 1997 16:53:52  
START





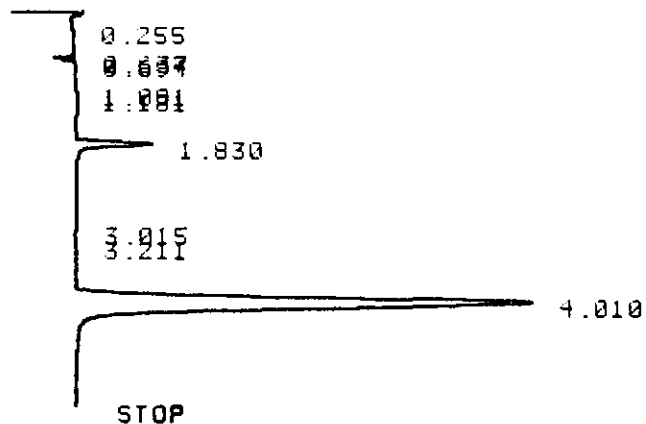
RUN# 160 APR 4, 1997 16:53:52

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.810 | 249787  | UB   | 1R   | 11.051 |
| 3.978 | 2408938 | PB   | 2    | 59.019 |

TOTAL AREA=2871382  
MUL FACTOR=1.0000E+00

\* RUN # 161 APR 4, 1997 17:01:33  
START



RUN# 161 APR 4, 1997 17:01:33

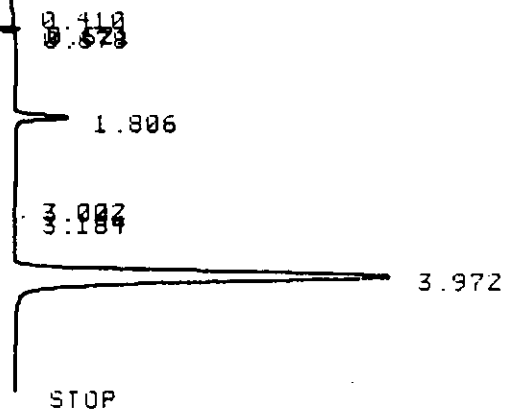
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.830 | 192427  | UB   | 1R   | 8.513  |
| 4.010 | 2228555 | PB   | 2    | 54.600 |

TOTAL AREA=2639762  
MUL FACTOR=1.0000E+00

\* RUN # 162 APR 4, 1997 17:02:33

START



RUN# 162 APR 4, 1997 17:07:32

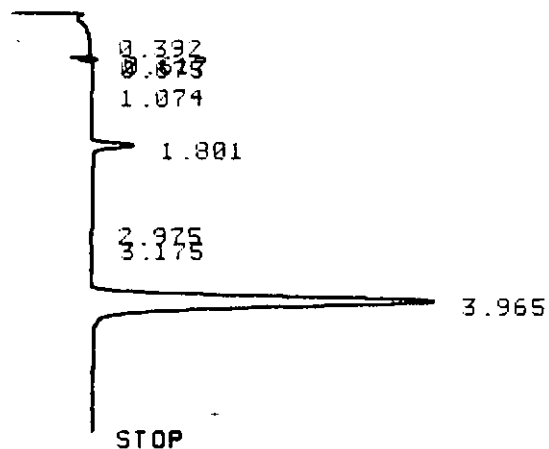
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.806 | 164668  | UB   | 1R   | 7.285  |
| 3.972 | 1839684 | PB   | 2    | 45.072 |

TOTAL AREA=2304691  
MUL FACTOR=1.0000E+00

\* RUN # 163 APR 4, 1997 17:13:38

START



RUN# 163 APR 4, 1997 17:13:38

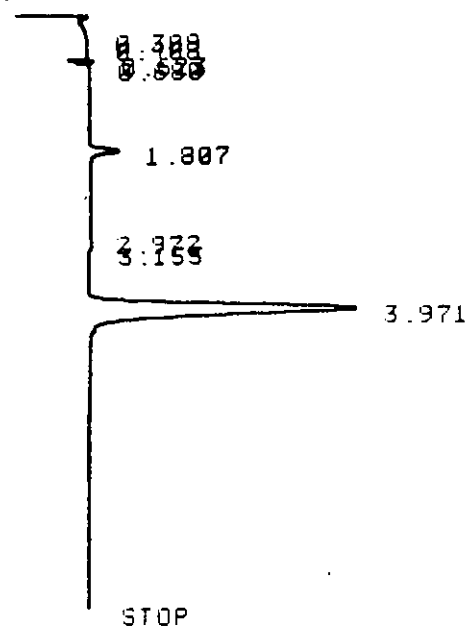
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.801 | 167213  | UU   | 1R   | 7.398  |
| 3.965 | 1678298 | PB   | 2    | 41.118 |

TOTAL AREA=2106005  
MUL FACTOR=1.0000E+00

\* RUN # 164 APR 4, 1997 17:19:55

START



RUN# 164 APR 4, 1997 17:19:55

ESTD-AREA

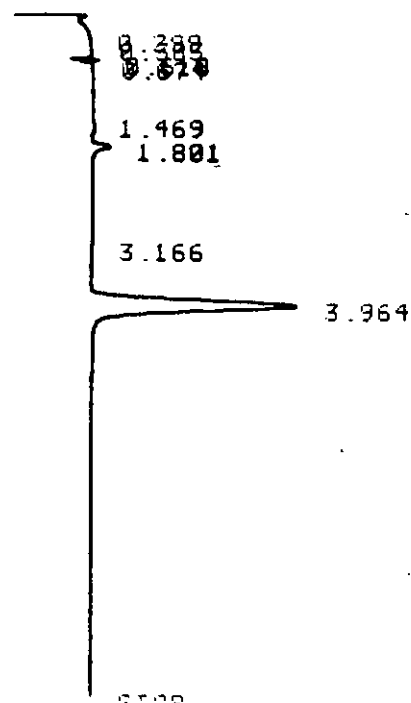
| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.807 | 99426   | UB   | 1R   | 4.399  |
| 3.971 | 1302226 | PB   | 2    | 31.905 |

TOTAL AREA=1579783

MUL FACTOR=1.0000E+00

\* RUN # 165 APR 4, 1997 17:28:25

START





RUN# 165 APR 4, 1997 17:28:25

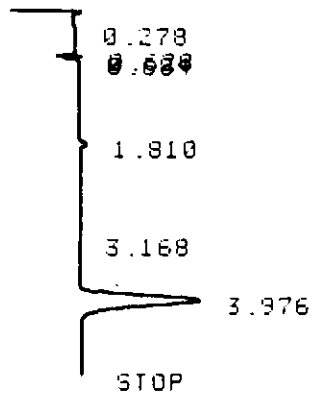
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.801 | 42553   | UU   | 1R   | 1.883  |
| 3.964 | 1004535 | PU   | 2    | 24.611 |

TOTAL AREA=1267939  
MUL FACTOR=1.0000E+00

\* RUN # 166 APR 4, 1997 17:38:14

START



RUN# 166 APR 4, 1997 17:38:14

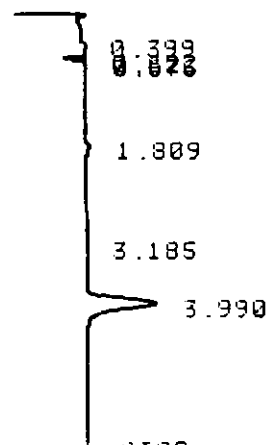
ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.810 | 21483  | BP   | 1R   | .950   |
| 3.976 | 580914 | BP   | 2    | 14.232 |

TOTAL AREA= 718120  
MUL FACTOR=1.0000E+00

\* RUN # 167 APR 4, 1997 17:43:39

START



RUN# 167 APR 4, 1997 17:43:39

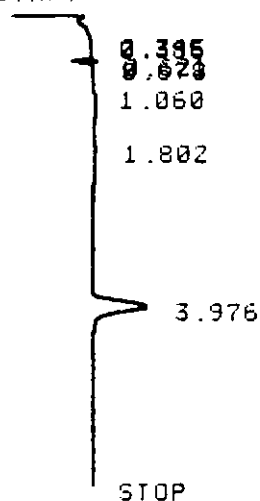
ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.809 | 12702  | PP   | 1R   | .562   |
| 3.990 | 336092 | BU   | 2    | 8.234  |

TOTAL AREA= 537157  
MUL FACTOR=1.0000E+00

\* RUN # 168 APR 4, 1997 17:49:57

START



RUN# 168 APR 4, 1997 17:49:57

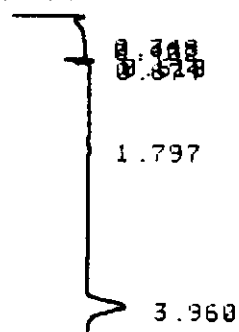
ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.802 | 74350  | UU   | 1R   | 3.289  |
| 3.976 | 270682 | PU   | 2    | 6.632  |

TOTAL AREA= 728955  
MUL FACTOR=1.0000E+00

\* RUN # 169 APR 4, 1997 17:56:54

START



STOP

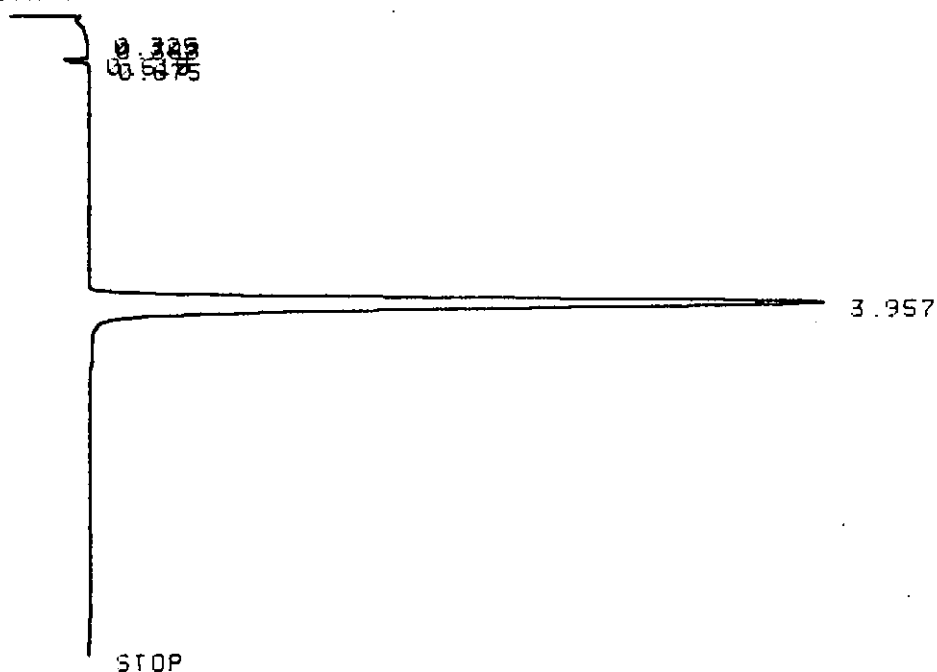
RUN# 169 APR 4, 1997 17:56:54

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.797 | 6439   | BP   | 1R   | .285   |
| 3.960 | 197151 | BU   | 2    | 4.830  |

TOTAL AREA= 406522  
MUL FACTOR=1.0000E+00

\* RUN # 170 APR 4, 1997 18:04:09  
START



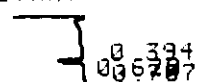
RUN# 170 APR 4, 1997 18:04:09

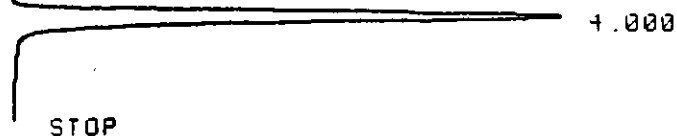
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 3.957 | 3572904 | BB   | -2   | 87.536 |

TOTAL AREA=3787491  
MUL FACTOR=1.0000E+00

\* RUN # 171 APR 4, 1997 18:13:41  
START





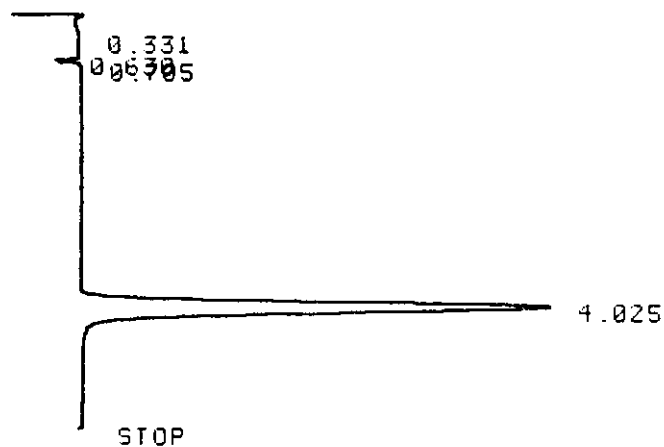
RUN# 171 APR 4, 1997 18:13:41

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.000 | 2663302 | PB   | 2    | 65.251 |

TOTAL AREA=2966056  
MUL FACTOR=1.0000E+00

\* RUN # 172 APR 4, 1997 18:19:55  
START



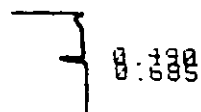
RUN# 172 APR 4, 1997 18:19:55

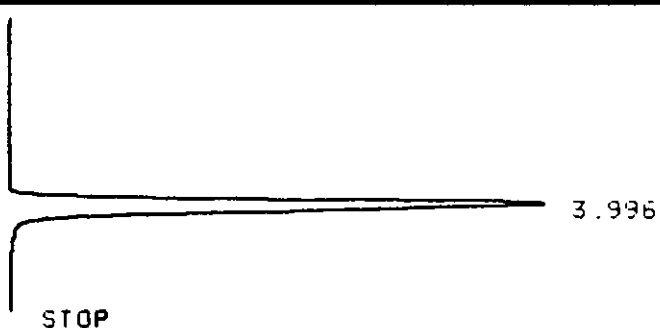
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.025 | 2299560 | PB   | 2    | 56.339 |

TOTAL AREA=2431973  
MUL FACTOR=1.0000E+00

\* RUN # 173 APR 4, 1997 18:26:24  
START





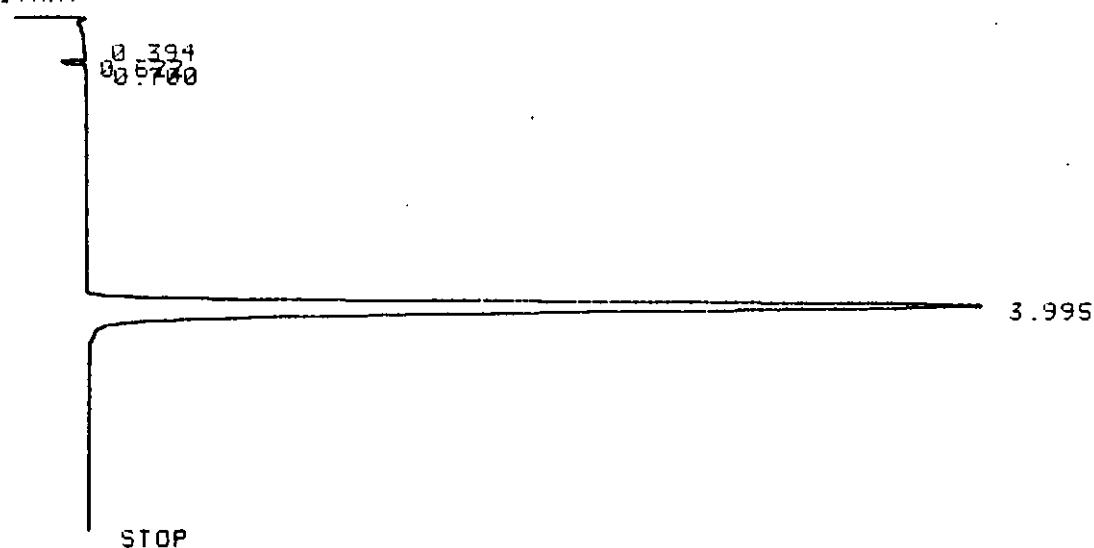
RUN# 173 APR 4, 1997 18:26:24

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 3.996 | 2606960 | BB   | 2    | 63.871 |

TOTAL AREA=2934293  
MUL FACTOR=1.0000E+00

\* RUN # 174 APR 4, 1997 18:32:42  
START



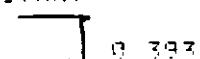
RUN# 174 APR 4, 1997 18:32:42

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.995 | 4357293 | BB   | 2    | 106.754 |

TOTAL AREA=4580240  
MUL FACTOR=1.0000E+00

\* RUN # 175 APR 4, 1997 18:40:33  
START



405698

4.005

STOP

RUN# 175 APR 4, 1997 18:40:33

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 4.005 | 4821389 | PB   | 2    | 118.124 |

TOTAL AREA=5069888

MUL FACTOR=1.0000E+00

\* RUN # 176 APR 4, 1997 18:46:27

START

0.320

0.682

4.018

STOP

RUN# 176 APR 4, 1997 18:46:27

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 4.018 | 4427190 | PB   | 2    | 108.466 |

TOTAL AREA=4575779

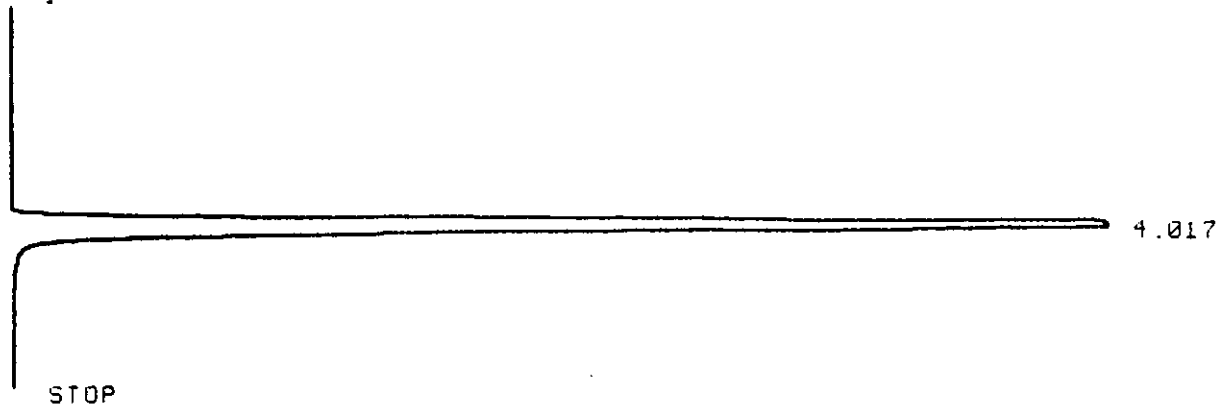
MUL FACTOR=1.0000E+00

\* RUN # 177 APR 4, 1997 18:54:01

START

0.392

0.712



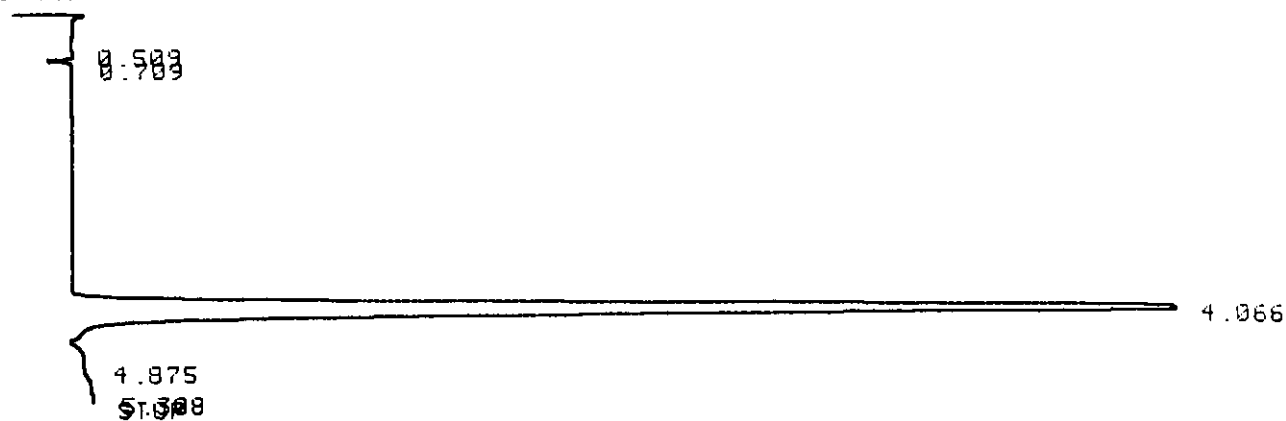
RUN# 177 APR 4, 1997 18:54:01

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 4.017 | 6574317 | PB   | 2    | 161.071 |

TOTAL AREA=6828458  
MUL FACTOR=1.0000E+00

\* RUN # 178 APR 4, 1997 19:01:01  
START



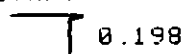
RUN# 178 APR 4, 1997 19:01:01

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 4.066 | 6113491 | PB   | 2    | 149.780 |

TOTAL AREA=6699101  
MUL FACTOR=1.0000E+00

\* RUN # 179 APR 4, 1997 19:06:38  
START



00.9895

3.980

STOP

RUN# 179 APR 4, 1997 19:06:38

ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT  |
|-------|------------|------|---------|
| 3.980 | 8341984 PB | 2    | 204.379 |

TOTAL AREA=8.4868E+06

MUL FACTOR=1.0000E+00

\* RUN # 180 APR 4, 1997 19:13:17

START

0.161

0.693

4.013

4.602

STOP

RUN# 180 APR 4, 1997 19:13:17

ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT  |
|-------|------------|------|---------|
| 4.013 | 7081792 PB | 2    | 173.504 |

TOTAL AREA=7320435

MUL FACTOR=1.0000E+00

\* RUN # 181 APR 4, 1997 19:20:16

START



0.275  
0.640  
1.452

1.805

STOP

RUN# 181 APR 4, 1997 19:20:16

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.805 | 2297958 | PB   | 1R   | 101.663 |

TOTAL AREA=2327579  
MUL FACTOR=1.0000E+00

\* RUN # 182 APR 4, 1997 19:23:16  
START

0.321  
0.523  
0.987  
1.560

1.827

STOP

RUN# 182 APR 4, 1997 19:23:16

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.827 | 2126528 | PB   | 1R   | 94.079 |

TOTAL AREA=2202582  
MUL FACTOR=1.0000E+00

\* RUN # 183 APR 4, 1997 19:26:35  
START

0.360  
0.693

1.803

STOP

RUN# 183 APR 4, 1997 19:26:35

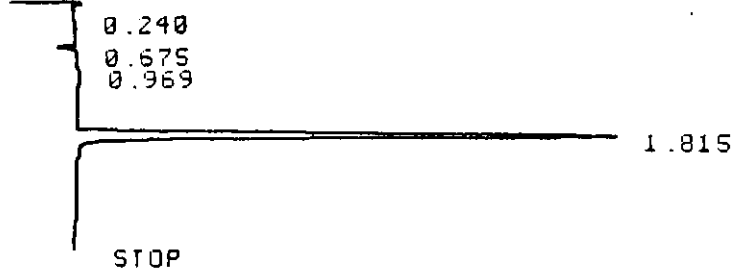
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.803 | 1252769 | UB   | 1R   | 55.423 |

TOTAL AREA=1614873  
MUL FACTOR=1.0000E+00

\* RUN # 184 APR 4, 1997 19:29:36

START



RUN# 184 APR 4, 1997 19:29:36

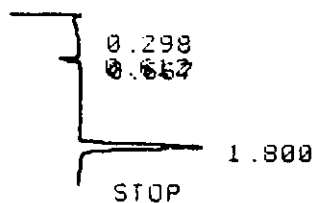
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.815 | 1190454 | UB   | 1R   | 52.666 |

TOTAL AREA=1493830  
MUL FACTOR=1.0000E+00

\* RUN # 185 APR 4, 1997 19:34:04

START



RUN# 185 APR 4, 1997 19:34:04

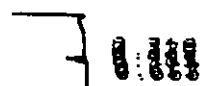
ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.800 | 267634 | PB   | 1R   | 11.840 |

TOTAL AREA= 376616  
MUL FACTOR=1.0000E+00

\* RUN # 186 APR 4, 1997 19:36:44

START



1.295  
1.793  
STOP

RUN# 186 APR 4, 1997 19:36:44

| ESTD-AREA | RT    | AREA TYPE | CAL# | AMOUNT |
|-----------|-------|-----------|------|--------|
|           | 1.793 | 322825 UB | 1R   | 14.282 |

TOTAL AREA= 786504  
MUL FACTOR=1.0000E+00

\* RUN # 187 APR 4, 1997 19:40:13  
START

0.882  
1.802  
STOP

RUN# 187 APR 4, 1997 19:40:13

| ESTD-AREA | RT    | AREA TYPE | CAL# | AMOUNT |
|-----------|-------|-----------|------|--------|
|           | 1.802 | 308813 UB | 1R   | 13.662 |

TOTAL AREA= 680125  
MUL FACTOR=1.0000E+00

\*

4/4/97

Cal file = 0404a for run

Zero ppm includes pilot AP

Adjusted span & entered/redid cal now using 0404B.CAL

Optimized & recalculated outlet = 0404C did not recal

\* Run 0404-1 = 28' hull 35% resin test 1 = NMMA-7-1 SKIN COAT

Run start @ 0916

Spring start @ 0920

CUM = .13 @ DAS .15 @ gauge

Mold rotated ~ 0954

SKIN coat done 1035

Run Stopped @ 11:45:52 to automate balance, weights on line

Restart @ 12:22 - Run 0404-1 cont (lamination

lamination on @ 1229

Running @ 2 1/2% cat for lamination - Data from lab on Monday

TTE open # 1327-1330 to remove cat

THCi spike due to laying plastic cover over intake

Scale spike due to signal disconnect (resn reading)

Drum off 1333

New drum on 1335 531 # @ scale

Enclosure reopened 1336-39 to put drum back in  
inlet peaks due to "door"

Restart ~ 1345

Run finished @ 1414

Run ended @ 1534

Void lost 0 ppm - improper cal set up @ outlet

Post 0 ppm - 2 correct post test zero

Added \*  
SCALE CAL  
based on 2 pts  
CONTAS 0404C.CAL  
\*

Event

Drum  
X-change

4/4/97

Run NMMA-3-1 = 04dt-2 on @ 1608

- 18' Hull gel coat

End spray ~ 1620

Flows @ 1657 - 1659

Run ended 1804

Nmmmt-3-1 (0404-2) flow

4/4/97

|     |     |     |     |
|-----|-----|-----|-----|
| H-8 | .14 | V-8 | .14 |
| 7   | .18 | 7   | .18 |
| 6   | .19 | 6   | .18 |
| 5   | .20 | 5   | .18 |
| 4   | .18 | 4   | .20 |
| 3   | .17 | 3   | .19 |
| 2   | .16 | 2   | .19 |
| 1   | .16 | 1   | .18 |

$$T_s = 66$$

$$P_b = 30.0$$

$$\text{Static} = -3.2$$

$$RH = 31\% @ 64^\circ$$

$$\Theta = 1657 - 1659$$

Flow @ 0404-1

DAS = .134P

|     |     |     |     |
|-----|-----|-----|-----|
| H-1 | .12 | V-1 | .14 |
| 2   | .14 | 2   | .16 |
| 3   | .14 | 3   | .16 |
| 4   | .15 | 4   | .16 |
| 5   | .15 | 5   | .16 |
| 6   | .16 | 6   | .15 |
| 7   | .16 | 7   | .15 |
| 8   | .12 | 8   | .15 |

$$P_b = 30.0$$

$$\text{Static} = -3.2$$

$$T_s = 68$$

$$RH = 40\% @ 60^\circ$$

A.M. CALS

CALIBRATION FILE NAME = c:\cendata\0404a.CAL

| Chan. | Name  | Units | Zero  | Span  | Slope  | Int.      |
|-------|-------|-------|-------|-------|--------|-----------|
|       |       |       | Conc. | Conc. |        |           |
|       |       |       | Resp. | Resp. |        |           |
| 1     | THC o | ppm   | 0     | 914   | 99.68  | -0.0957   |
| 2     | THC i | ppm   | -0.01 | 45.5  | 10.14  | .0607     |
| 3     | Flow  | inH2O | 2.96  | .4    | 1.97   | -5.8162   |
| 4     | Temp  | F     | 1.98  | 212   | 137.51 | -240.4591 |
| 5     | Resin | lb    | -4    | 176   | 45     | -49       |

- RADIANT CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-04-1997 Current Time = 07:24:37  
 File Name = c:\cemdata\040497.PRM Calibration File: c:\cemdata\0404a.CAL

Test #: 0 ppm

| 04-04-1997<br>Time | THC D<br>ppm | THC I<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 07:24:38           | 0.0          | 0.0          | -0.0          | 61.2      | -226.5      |
| 07:24:39           | 0.0          | 0.0          | -0.0          | 61.2      | -226.5      |
| 07:24:41           | 0.0          | 0.0          | -0.0          | 61.2      | -226.5      |
| 07:24:51           | -0.0         | -0.1         | -0.0          | 62.1      | -226.8      |
| 07:25:01           | 0.0          | -0.1         | -0.0          | 61.8      | -226.3      |
| 07:25:11           | 0.0          | -0.1         | -0.0          | 61.4      | -226.3      |
| 07:25:21           | -0.0         | -0.2         | -0.0          | 61.4      | -226.3      |
| 07:25:31           | -0.0         | -0.2         | -0.0          | 61.5      | -226.3      |
| 07:25:41           | 0.0          | -0.2         | -0.0          | 61.5      | -226.4      |
| 07:25:51           | -0.0         | -0.1         | -0.0          | 61.3      | -226.4      |
| 07:26:01           | -0.0         | -0.0         | -0.0          | 61.2      | -226.4      |
| 07:26:11           | 0.0          | -0.1         | -0.0          | 61.3      | -226.4      |
| 07:26:21           | 0.0          | -0.1         | -0.0          | 61.1      | -226.3      |
| Avg =              | 0.0          | -0.1         | -0.0          | 61.4      | -226.4      |



RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-04-1997 Current Time = 07:27:43

File Name = c:\ceadata\040497.PRN Calibration File:c:\ceadata\0404a.CAL

Test #: In 45.5ppm

| 04-04-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 07:27:44           | 43.3         | 45.5         | -0.0          | 61.8      | -228.1      |
| 07:27:51           | 43.2         | 45.5         | -0.0          | 61.6      | -228.1      |
| 07:28:01           | 43.2         | 45.5         | -0.0          | 61.9      | -226.7      |
| 07:28:11           | 43.2         | 45.5         | -0.0          | 62.0      | -226.0      |
| 07:28:21           | 43.2         | 45.5         | -0.0          | 61.8      | -226.7      |
| 07:28:31           | 43.2         | 45.5         | -0.0          | 60.9      | -226.7      |
| 07:28:41           | 43.2         | 45.5         | -0.0          | 60.9      | -226.0      |
| 07:28:51           | 43.2         | 45.5         | -0.0          | 61.1      | -226.7      |
| 07:29:01           | 43.2         | 45.5         | -0.0          | 61.4      | -226.9      |

Avg = 43.2 45.5 -0.0 61.5 -226.9

## RADIANT CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-04-1997 Current Time = 07:33:23

File Name = c:\cemdata\040497.PRN Calibration File:c:\cemdata\0404a.CAL

Test #: In 30.4ppm

| 04-04-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 07:33:25           | 28.6         | 30.2         | -0.0          | 58.5      | -230.7      |
| 07:33:34           | 28.5         | 30.2         | -0.0          | 58.8      | -227.4      |
| 07:33:44           | 28.5         | 30.2         | -0.0          | 58.8      | -226.7      |
| 07:33:54           | 28.5         | 30.2         | -0.0          | 58.4      | -226.0      |
| 07:34:04           | 28.5         | 30.2         | -0.0          | 58.0      | -226.1      |
| 07:34:14           | 28.5         | 30.2         | -0.0          | 58.0      | -226.0      |
| 07:34:24           | 28.5         | 30.2         | -0.0          | 58.0      | -226.7      |
| 07:34:34           | 28.5         | 30.2         | -0.0          | 57.9      | -226.7      |
| 07:34:44           | 28.5         | 30.2         | -0.0          | 57.8      | -226.7      |
| 07:34:54           | 28.5         | 30.2         | -0.0          | 57.7      | -226.8      |
| 07:35:04           | 28.5         | 30.3         | -0.0          | 57.5      | -226.0      |
| 07:35:14           | 28.5         | 30.3         | -0.0          | 57.3      | -226.8      |
| Avg =              | 28.5         | 30.2         | -0.0          | 58.1      | -226.9      |

DIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-04-1997 Current Time = 07:37:11

File Name = c:\cemd\040497.PRN Calibration File: c:\cemd\0404a.CAL

Test #: In 15.0ppm

| 04-04-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 07:37:14           | 13.7         | 14.7         | -0.0          | 56.4      | -229.5      |
| 07:37:15           | 13.7         | 14.7         | -0.0          | 56.4      | -229.5      |
| 07:37:24           | 13.7         | 14.8         | -0.0          | 56.6      | -227.3      |
| 07:37:34           | 13.7         | 14.8         | -0.0          | 56.6      | -226.5      |
| 07:37:44           | 13.7         | 14.7         | -0.0          | 56.6      | -226.6      |
| 07:37:54           | 13.7         | 14.7         | -0.0          | 56.4      | -225.7      |
| 07:38:04           | 13.7         | 14.7         | -0.0          | 56.3      | -226.6      |
| 07:38:14           | 13.7         | 14.8         | -0.0          | 56.3      | -226.7      |
| 07:38:24           | 13.7         | 14.8         | -0.0          | 56.5      | -226.7      |
| 07:38:34           | 13.7         | 14.6         | -0.0          | 56.4      | -226.7      |
| Avg =              | 13.7         | 14.8         | -0.0          | 56.5      | -227.2      |

## CALIBRATION SUMMARY:

04-04-1977 07:46:15

CALIBRATION FILE NAME = c:\ceedata\0404b.CAL

| Chan. | Name  | Units | Zero  | Span  | Slope | Int.   |
|-------|-------|-------|-------|-------|-------|--------|
|       |       |       | Conc. | Conc. |       |        |
|       |       |       | Resp. | Resp. |       |        |
| 1     | THC o | ppm   | 0     | 914   | 8.9   | 102.92 |
| 2     | THC i | ppm   | -0.01 | 45.5  | 4.5   | 10.14  |
| 3     | Flow  | inH2O | 0     | 2.76  | 4     | 1.97   |
| 4     | Temp  | F     | 32    | 1.98  | 3.3   | 137.51 |
| 5     | Resin | lb    | -4    | 1     | 5     | 45     |

ADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-04-1997 Current Time = 07:54:53

File Name = c:\cemdata\040497.PRN Calibration File:c:\cemdata\0404b.CAL

Test #: Out 914ppm

| 04-04-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 07:54:57           | 910.8        | 93.5         | 0.1           | 68.0      | 400.7       |
| 07:55:02           | 910.5        | 93.6         | 0.1           | 67.5      | 400.7       |
| 07:55:12           | 910.4        | 93.6         | 0.1           | 67.7      | 400.7       |
| 07:55:22           | 910.1        | 93.7         | 0.1           | 67.3      | 400.3       |
| 07:55:32           | 909.6        | 93.7         | 0.1           | 67.3      | 400.0       |
| 07:55:42           | 910.3        | 93.6         | 0.1           | 67.2      | 400.7       |
| 07:55:52           | 910.3        | 93.5         | 0.1           | 67.0      | 400.7       |
| 07:56:02           | 911.6        | 93.5         | 0.0           | 67.2      | 400.7       |
| 07:56:12           | 911.2        | 93.5         | 0.1           | 67.3      | 400.7       |
| 07:56:22           | 911.2        | 93.4         | 0.0           | 66.7      | 400.8       |
| 07:56:32           | 912.1        | 93.4         | 0.0           | 66.6      | 400.8       |
| 07:56:42           | 912.1        | 93.4         | 0.1           | 66.9      | 400.1       |
| 07:56:52           | 912.1        | 93.5         | 0.1           | 67.4      | 400.7       |
| Avg =              | 910.9        | 93.5         | 0.1           | 67.3      | 400.6       |

RADIANT CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-04-1997 Current Time = 07:59:11  
 File Name = c:\ce\data\040497.PRN Calibration File: c:\ce\data\0404b.CAL

Test #: Out 600ppm

| 04-04-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 07:59:15           | 615.3        | 62.5         | -0.0          | 60.1      | -233.1      |
| 07:59:22           | 617.5        | 62.6         | -0.0          | 60.3      | -226.2      |
| 07:59:32           | 615.5        | 62.6         | -0.0          | 60.4      | -226.7      |
| 07:59:42           | 616.1        | 62.7         | -0.0          | 60.4      | -226.4      |
| 07:59:52           | 616.7        | 62.6         | -0.0          | 60.8      | -226.3      |
| 08:00:02           | 615.6        | 62.6         | -0.0          | 61.2      | -226.3      |
| 08:00:12           | 615.2        | 62.6         | -0.0          | 61.1      | -225.8      |
| 08:00:22           | 615.2        | 62.6         | -0.0          | 60.9      | -225.6      |
| 08:00:32           | 615.5        | 62.8         | -0.0          | 60.5      | -226.3      |
| 08:00:42           | 613.5        | 62.8         | -0.0          | 60.5      | -226.3      |
| 08:00:52           | 615.0        | 62.9         | -0.0          | 60.7      | -226.2      |
| Avg =              | 615.6        | 62.7         | -0.0          | 60.6      | -226.8      |

# ADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-04-1997 Current Time = 08:02:24

File Name = c:\cemdata\040497.PRN Calibration File:c:\cemdata\0404b.CAL

Test #: Out 297ppm

| 04-04-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 08:02:28           | 299.3        | 30.0         | -0.0          | 63.3      | -227.5      |
| 08:02:32           | 299.3        | 30.1         | -0.0          | 63.3      | -229.0      |
| 08:02:42           | 299.3        | 30.1         | -0.0          | 63.3      | -226.0      |
| 08:02:52           | 299.7        | 30.1         | -0.0          | 63.2      | -225.9      |
| 08:03:02           | 299.3        | 30.1         | -0.0          | 63.0      | -225.5      |
| 08:03:12           | 298.3        | 30.2         | -0.0          | 63.0      | -225.2      |
| 08:03:22           | 298.6        | 30.2         | -0.0          | 63.1      | -226.0      |
| 08:03:32           | 299.3        | 30.1         | -0.0          | 63.3      | -226.0      |
| 08:03:42           | 297.6        | 30.1         | -0.0          | 63.4      | -225.5      |
| 08:03:52           | 297.8        | 30.1         | -0.0          | 63.3      | -226.0      |
| 08:04:02           | 298.1        | 30.1         | -0.0          | 63.2      | -225.5      |
| 08:04:12           | 298.2        | 30.2         | -0.0          | 62.7      | -225.9      |
| Avg =              | 298.6        | 30.1         | -0.0          | 63.2      | -226.3      |

0404-1  
NMMA-7-1

RADIAN CORPORATION  
Environmental Measurement and Analysis Department  
Continuous Emissions Monitoring Data  
US Marine  
Arlington, WA  
Performed for: NMMA  
Date Printed = 04-04-1997 Current Time = 09:16:09  
File Name = c:\ceadata\040497.PRN Calibration File: c:\ceadata\0404b.CAL

Test #: 0404-1

| 04-04-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 09:16:52           | 1.1          | -0.1         | 0.1           | 60.8      | -225.7      |
| 09:17:52           | 1.1          | -0.1         | 0.1           | 61.0      | -225.6      |
| 09:18:52           | 1.1          | -0.1         | 0.1           | 61.5      | -225.6      |
| 09:19:52           | 1.3          | -0.1         | 0.1           | 61.7      | -225.7      |
| 09:20:52           | 30.7         | -0.1         | 0.1           | 61.6      | -225.6      |
| 09:21:52           | 154.1        | -0.2         | 0.1           | 61.8      | -225.2      |
| 09:22:52           | 216.6        | -0.2         | 0.1           | 61.7      | -225.1      |
| 09:23:52           | 274.7        | -0.2         | 0.1           | 61.6      | -225.4      |
| 09:24:52           | 254.4        | -0.2         | 0.1           | 61.9      | -225.5      |
| 09:25:52           | 356.0        | -0.3         | 0.1           | 62.4      | -225.3      |
| 09:26:52           | 295.8        | -0.2         | 0.1           | 62.6      | -225.7      |
| 09:27:52           | 199.8        | -0.1         | 0.1           | 62.3      | -225.4      |
| 09:28:52           | 182.3        | -0.1         | 0.1           | 62.4      | -225.4      |
| 09:29:52           | 232.7        | -0.1         | 0.1           | 62.6      | -225.3      |
| 09:30:52           | 331.9        | -0.1         | 0.1           | 62.8      | -225.4      |
| 09:31:52           | 308.3        | -0.1         | 0.1           | 62.5      | -225.4      |
| 09:32:52           | 303.5        | -0.2         | 0.1           | 62.4      | -225.4      |
| 09:33:52           | 272.0        | -0.2         | 0.1           | 62.5      | -225.1      |
| 09:34:52           | 374.5        | -0.3         | 0.1           | 62.9      | -225.1      |
| 09:35:52           | 442.3        | -0.2         | 0.1           | 63.2      | -225.2      |
| 09:36:52           | 393.6        | -0.2         | 0.1           | 63.2      | -225.7      |
| 09:37:52           | 280.5        | -0.1         | 0.1           | 63.3      | -225.2      |
| 09:38:52           | 297.6        | -0.1         | 0.1           | 63.4      | -225.7      |
| 09:39:52           | 307.9        | -0.0         | 0.1           | 63.4      | -225.3      |
| 09:40:52           | 421.9        | -0.1         | 0.1           | 63.4      | -225.7      |
| 09:41:52           | 402.8        | -0.0         | 0.1           | 63.4      | -225.3      |
| 09:42:52           | 452.1        | -0.1         | 0.1           | 63.4      | -225.1      |
| 09:43:52           | 338.0        | 0.0          | 0.1           | 62.9      | -225.0      |
| 09:44:52           | 326.1        | 0.0          | 0.1           | 62.7      | -225.7      |
| 09:45:52           | 381.6        | -0.1         | 0.1           | 62.9      | -225.3      |
| 09:46:52           | 275.4        | -0.1         | 0.1           | 62.8      | -225.7      |
| 09:47:52           | 250.3        | -0.1         | 0.1           | 62.7      | -225.4      |
| 09:48:52           | 243.0        | -0.1         | 0.1           | 62.5      | -225.4      |
| 09:49:52           | 214.6        | -0.0         | 0.1           | 62.6      | -225.4      |
| 09:50:52           | 232.3        | -0.0         | 0.1           | 62.6      | -225.7      |
| 09:51:52           | 182.6        | -0.1         | 0.1           | 62.2      | -225.4      |
| 09:52:52           | 216.4        | -0.1         | 0.1           | 62.3      | -225.4      |
| 09:53:52           | 178.9        | -0.1         | 0.1           | 62.5      | -225.4      |
| 09:54:52           | 109.4        | -0.1         | 0.1           | 60.8      | -225.4      |
| 09:55:52           | 107.1        | -0.0         | 0.1           | 59.4      | -225.4      |



Test #: 0404-1

| 04-04-1997 | THC o | THC i | Flow  | Temp | Resin  |
|------------|-------|-------|-------|------|--------|
| Time       | ppm   | ppm   | inH2O | F    | lb     |
| 09:56:52   | 115.9 | -0.0  | 0.1   | 60.0 | -225.7 |
| 09:57:52   | 104.6 | -0.1  | 0.1   | 61.4 | -225.3 |
| 09:58:52   | 101.5 | -0.0  | 0.1   | 62.4 | -225.7 |
| 09:59:52   | 123.4 | -0.1  | 0.1   | 62.8 | -225.0 |
| 10:00:52   | 119.7 | -0.0  | 0.1   | 62.7 | -225.4 |
| 10:01:52   | 135.5 | 0.0   | 0.1   | 62.8 | -225.3 |
| 10:02:52   | 302.2 | -0.0  | 0.1   | 63.2 | -225.7 |
| 10:03:52   | 360.5 | -0.0  | 0.1   | 63.3 | -225.3 |
| 10:04:52   | 458.1 | -0.1  | 0.1   | 63.3 | -225.7 |
| 10:05:52   | 435.1 | -0.1  | 0.1   | 63.1 | -225.4 |
| 10:06:52   | 387.5 | -0.1  | 0.1   | 63.2 | -225.1 |
| 10:07:52   | 320.7 | -0.2  | 0.1   | 63.3 | -225.3 |
| 10:08:52   | 347.9 | -0.1  | 0.1   | 63.4 | -225.7 |
| 10:09:52   | 457.3 | -0.1  | 0.1   | 63.6 | -225.4 |
| 10:10:52   | 491.3 | -0.1  | 0.1   | 63.5 | -225.7 |
| 10:11:52   | 517.3 | -0.2  | 0.1   | 63.5 | -225.2 |
| 10:12:52   | 404.1 | -0.1  | 0.1   | 63.4 | -225.1 |
| 10:13:52   | 350.0 | -0.1  | 0.1   | 63.4 | -225.4 |
| 10:14:52   | 297.0 | -0.1  | 0.1   | 63.4 | -225.7 |
| 10:15:52   | 299.6 | -0.2  | 0.1   | 63.3 | -225.2 |
| 10:16:52   | 267.9 | -0.2  | 0.1   | 63.3 | -225.0 |
| 10:17:52   | 239.4 | -0.2  | 0.1   | 63.3 | -225.0 |
| 10:18:52   | 245.7 | -0.2  | 0.1   | 63.4 | -225.1 |
| 10:19:52   | 303.3 | -0.2  | 0.1   | 63.3 | -225.4 |
| 10:20:52   | 354.6 | -0.1  | 0.1   | 63.4 | -225.2 |
| 10:21:52   | 472.3 | -0.1  | 0.1   | 63.7 | -225.4 |
| 10:22:52   | 387.6 | -0.1  | 0.1   | 63.7 | -225.7 |
| 10:23:52   | 340.6 | -0.1  | 0.1   | 63.7 | -225.3 |
| 10:24:52   | 297.9 | -0.1  | 0.1   | 63.8 | -225.4 |
| 10:25:52   | 408.5 | -0.1  | 0.1   | 63.7 | -225.3 |
| 10:26:52   | 477.4 | -0.1  | 0.1   | 63.7 | -225.5 |
| 10:27:52   | 440.6 | -0.1  | 0.1   | 63.8 | -225.4 |
| 10:28:52   | 351.4 | -0.1  | 0.1   | 63.9 | -225.7 |
| 10:29:52   | 322.6 | -0.1  | 0.1   | 64.0 | -225.4 |
| 10:30:52   | 330.7 | -0.1  | 0.1   | 64.2 | -225.7 |
| 10:31:52   | 391.7 | -0.2  | 0.1   | 64.3 | -225.1 |
| 10:32:52   | 317.8 | -0.1  | 0.1   | 64.2 | -225.7 |
| 10:33:52   | 259.4 | -0.1  | 0.1   | 63.7 | -225.2 |
| 10:34:52   | 223.1 | -0.1  | 0.1   | 63.5 | -225.7 |
| 10:35:52   | 239.5 | -0.2  | 0.1   | 63.0 | -225.3 |
| 10:36:52   | 262.5 | -0.1  | 0.1   | 62.9 | -225.7 |
| 10:37:52   | 254.5 | -0.1  | 0.1   | 63.4 | -225.3 |
| 10:38:52   | 233.8 | -0.0  | 0.1   | 63.8 | -225.7 |
| 10:39:52   | 231.7 | -0.0  | 0.1   | 64.1 | -225.4 |
| 10:40:52   | 215.6 | -0.0  | 0.1   | 64.3 | -225.7 |
| 10:41:52   | 172.5 | -0.1  | 0.1   | 64.3 | -225.5 |
| 10:42:52   | 149.6 | -0.0  | 0.1   | 64.3 | -225.7 |
| 10:43:52   | 164.1 | -0.0  | 0.1   | 64.5 | -225.3 |
| 10:44:52   | 180.2 | -0.1  | 0.1   | 64.6 | -225.7 |
| 10:45:52   | 176.1 | 0.0   | 0.1   | 64.8 | -225.3 |
| 10:46:52   | 143.0 | 0.0   | 0.1   | 64.9 | -225.7 |
| 10:47:52   | 159.3 | 0.0   | 0.1   | 65.2 | -225.1 |
| 10:48:52   | 157.5 | -0.0  | 0.1   | 65.4 | -225.7 |
| 10:49:52   | 137.1 | -0.1  | 0.1   | 65.4 | -225.4 |
| 10:50:52   | 123.7 | -0.1  | 0.1   | 65.5 | -225.4 |

Test #: 0404-1

| 04-04-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 10:52:52           | 111.6        | -0.0         | 0.1           | 65.3      | -225.7      |
| 10:53:52           | 107.9        | -0.1         | 0.1           | 65.3      | -225.3      |
| 10:54:52           | 111.5        | -0.1         | 0.1           | 65.3      | -225.7      |
| 10:55:52           | 113.3        | -0.1         | 0.1           | 65.5      | -225.4      |
| 10:56:52           | 111.6        | -0.0         | 0.1           | 65.7      | -225.7      |
| 10:57:52           | 112.2        | 0.0          | 0.1           | 65.8      | -225.4      |
| 10:58:52           | 102.6        | 0.0          | 0.1           | 65.8      | -225.7      |
| 10:59:52           | 107.4        | 0.0          | 0.1           | 65.8      | -225.1      |
| 11:00:52           | 95.9         | 0.0          | 0.1           | 65.8      | -225.7      |
| 11:01:52           | 92.9         | 0.0          | 0.1           | 65.7      | -225.7      |
| 11:02:52           | 95.4         | -0.0         | 0.1           | 65.7      | -225.7      |
| 11:03:52           | 92.9         | -0.0         | 0.1           | 65.6      | -225.4      |
| 11:04:52           | 91.0         | -0.1         | 0.1           | 65.8      | -225.2      |
| 11:05:52           | 90.9         | -0.1         | 0.1           | 65.9      | -225.9      |
| 11:06:52           | 89.5         | -0.1         | 0.1           | 66.1      | -225.2      |
| 11:07:52           | 84.0         | -0.0         | 0.1           | 66.1      | -225.6      |
| 11:08:52           | 84.7         | -0.0         | 0.1           | 66.2      | -225.5      |
| 11:09:52           | 84.0         | -0.0         | 0.1           | 66.3      | -225.9      |
| 11:10:52           | 85.2         | -0.0         | 0.1           | 66.6      | -225.5      |
| 11:11:52           | 82.1         | -0.1         | 0.1           | 66.5      | -225.7      |
| 11:12:52           | 103.3        | -0.0         | 0.1           | 66.6      | -225.7      |
| 11:13:52           | 85.1         | -0.0         | 0.1           | 66.8      | -225.5      |
| 11:14:52           | 82.7         | -0.1         | 0.1           | 66.9      | -225.7      |
| 11:15:52           | 74.3         | -0.1         | 0.1           | 66.9      | -225.9      |
| 11:16:52           | 70.9         | -0.1         | 0.1           | 66.9      | -225.2      |
| 11:17:52           | 71.1         | -0.1         | 0.1           | 67.3      | -225.8      |
| 11:18:52           | 71.1         | -0.1         | 0.1           | 67.3      | -225.7      |
| 11:19:52           | 69.2         | -0.0         | 0.1           | 67.4      | -225.6      |
| 11:20:52           | 64.9         | -0.0         | 0.1           | 67.5      | -225.2      |
| 11:21:52           | 62.8         | -0.1         | 0.1           | 67.5      | -225.4      |
| 11:22:52           | 60.2         | -0.1         | 0.1           | 67.6      | -225.6      |
| 11:23:52           | 63.9         | -0.0         | 0.1           | 67.6      | -225.7      |
| 11:24:52           | 64.1         | -0.0         | 0.1           | 67.7      | -225.7      |
| 11:25:52           | 64.2         | -0.1         | 0.1           | 67.9      | -225.9      |
| 11:26:52           | 60.4         | -0.1         | 0.1           | 67.9      | -225.2      |
| 11:27:52           | 57.0         | -0.0         | 0.1           | 67.9      | -225.9      |
| 11:28:52           | 57.1         | -0.0         | 0.1           | 67.9      | -218.5      |
| 11:29:52           | 55.7         | -0.1         | 0.1           | 67.9      | -224.9      |
| 11:30:52           | 47.5         | -0.1         | 0.1           | 67.8      | -224.9      |
| 11:31:52           | 45.9         | -0.1         | 0.1           | 67.8      | -224.9      |
| 11:32:52           | 46.1         | -0.1         | 0.1           | 67.9      | -224.9      |
| 11:33:52           | 43.5         | -0.0         | 0.1           | 67.9      | -224.7      |
| 11:34:52           | 37.8         | -0.0         | 0.1           | 68.0      | -224.2      |
| 11:35:52           | 33.0         | 0.0          | 0.1           | 67.9      | -224.8      |
| 11:36:52           | 33.2         | -0.0         | 0.1           | 67.9      | -224.9      |
| 11:37:52           | 30.8         | -0.0         | 0.1           | 68.1      | -224.7      |
| 11:38:52           | 29.0         | -0.0         | 0.1           | 68.3      | -224.7      |
| 11:39:52           | 26.7         | -0.0         | 0.1           | 68.3      | -224.7      |
| 11:40:52           | 25.4         | -0.0         | 0.1           | 68.3      | -224.9      |
| 11:41:52           | 23.4         | -0.0         | 0.1           | 68.4      | -224.6      |
| 11:42:52           | 21.5         | -0.0         | 0.1           | 68.4      | -224.7      |
| 11:43:52           | 19.2         | -0.0         | 0.1           | 68.4      | -224.9      |
| 11:44:52           | 17.5         | -0.0         | 0.1           | 68.4      | -224.9      |
| 11:45:52           | 15.4         | -0.0         | 0.1           | 68.5      | -142.8      |

Avg = 195.6 -0.1 0.1 64.5 -224.7

# ADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, MA

Performed for: NMMA

Date Printed = 04-04-1997 Current Time = 12:21:24

File Name = c:\cemdata\040497.PRN Calibration File:c:\cemdata\0404c.CAL

Test #: 0404-1 cont

| 04-04-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 12:21:56           | 3.0          | -0.0         | 0.1           | 68.8      | 197.4       |
| 12:22:56           | 3.0          | 0.0          | 0.1           | 68.9      | 197.0       |
| 12:23:56           | 3.0          | 0.0          | 0.1           | 69.0      | 197.7       |
| 12:24:56           | 3.0          | 0.0          | 0.1           | 69.1      | 197.3       |
| 12:25:56           | 3.0          | 0.0          | 0.1           | 69.3      | 197.6       |
| 12:26:56           | 3.1          | 0.0          | 0.1           | 69.4      | 197.5       |
| 12:27:56           | 3.4          | 0.0          | 0.1           | 69.6      | 197.6       |
| 12:28:56           | 3.0          | 0.0          | 0.1           | 69.7      | 197.4       |
| 12:29:56           | 3.0          | 0.0          | 0.1           | 69.6      | 197.4       |
| 12:30:56           | 91.2         | 0.0          | 0.1           | 69.9      | 193.4       |
| 12:31:56           | 130.6        | 0.0          | 0.1           | 69.9      | 187.6       |
| 12:32:56           | 214.1        | -0.0         | 0.1           | 69.7      | 184.7       |
| 12:33:56           | 200.7        | -0.0         | 0.1           | 69.6      | 184.0       |
| 12:34:56           | 236.1        | -0.0         | 0.1           | 69.7      | 179.6       |
| 12:35:56           | 235.5        | -0.0         | 0.1           | 69.4      | 178.7       |
| 12:36:56           | 201.1        | -0.1         | 0.1           | 69.3      | 178.7       |
| 12:37:56           | 162.3        | -0.1         | 0.1           | 69.2      | 178.1       |
| 12:38:56           | 272.8        | -0.0         | 0.1           | 69.0      | 172.9       |
| 12:39:56           | 431.3        | -0.0         | 0.1           | 68.9      | 168.3       |
| 12:40:56           | 404.5        | -0.0         | 0.1           | 68.9      | 165.6       |
| 12:41:56           | 435.4        | -0.1         | 0.1           | 69.0      | 162.2       |
| 12:42:56           | 365.9        | -0.1         | 0.1           | 69.2      | 161.6       |
| 12:43:56           | 410.2        | -0.1         | 0.1           | 69.9      | 156.7       |
| 12:44:56           | 479.2        | -0.0         | 0.1           | 68.7      | 151.6       |
| 12:45:56           | 466.4        | -0.1         | 0.1           | 68.7      | 148.2       |
| 12:46:56           | 388.2        | -0.1         | 0.1           | 68.6      | 143.5       |
| 12:47:56           | 440.7        | -0.1         | 0.1           | 68.4      | 141.3       |
| 12:48:56           | 484.0        | -0.1         | 0.1           | 68.3      | 139.2       |
| 12:49:56           | 462.9        | -0.1         | 0.1           | 68.4      | 144.7       |
| 12:50:56           | 400.1        | -0.0         | 0.1           | 68.6      | 145.1       |
| 12:51:56           | 320.9        | -0.0         | 0.1           | 68.5      | 142.7       |
| 12:52:56           | 273.0        | -0.0         | 0.1           | 68.5      | 142.3       |
| 12:53:56           | 250.9        | -0.0         | 0.1           | 68.6      | 142.7       |
| 12:54:56           | 330.7        | -0.1         | 0.1           | 68.7      | 138.8       |
| 12:55:56           | 352.9        | -0.0         | 0.1           | 68.8      | 137.7       |
| 12:56:56           | 343.9        | -0.0         | 0.1           | 68.8      | 137.3       |
| 12:57:56           | 431.1        | -0.0         | 0.1           | 68.7      | 130.5       |
| 12:58:56           | 492.1        | 0.0          | 0.1           | 68.7      | 124.3       |
| 12:59:56           | 419.0        | 0.0          | 0.1           | 68.8      | 116.7       |
| 13:00:56           | 493.6        | -0.0         | 0.1           | 68.9      | 112.4       |

Test #: 0404-1 cont

| 04-04-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 13:01:56           | 524.1        | -0.0         | 0.1           | 68.8      | 109.7       |
| 13:02:56           | 429.3        | -0.0         | 0.1           | 68.7      | 108.2       |
| 13:03:56           | 458.8        | -0.0         | 0.1           | 68.8      | 106.0       |
| 13:04:56           | 405.6        | -0.0         | 0.1           | 68.9      | 106.1       |
| 13:05:56           | 375.3        | -0.0         | 0.1           | 68.9      | 103.6       |
| 13:06:56           | 366.8        | -0.1         | 0.1           | 68.9      | 101.7       |
| 13:07:56           | 306.8        | -0.1         | 0.1           | 68.9      | 101.7       |
| 13:08:56           | 269.4        | -0.1         | 0.1           | 68.8      | 101.7       |
| 13:09:56           | 233.0        | -0.1         | 0.1           | 68.7      | 101.7       |
| 13:10:56           | 234.6        | -0.1         | 0.1           | 68.6      | 101.7       |
| 13:11:56           | 225.7        | -0.0         | 0.1           | 68.6      | 101.7       |
| 13:12:56           | 212.2        | -0.0         | 0.1           | 68.7      | 101.7       |
| 13:13:56           | 203.0        | -0.0         | 0.1           | 68.6      | 101.7       |
| 13:14:56           | 193.2        | -0.0         | 0.1           | 68.6      | 101.7       |
| 13:15:56           | 174.0        | 0.5          | 0.1           | 68.5      | 101.7       |
| 13:16:56           | 171.0        | 1.2          | 0.1           | 68.4      | 101.7       |
| 13:17:56           | 165.0        | 1.2          | 0.1           | 68.3      | 101.7       |
| 13:18:56           | 161.6        | 1.2          | 0.1           | 68.4      | 101.7       |
| 13:19:56           | 158.3        | 1.2          | 0.1           | 68.4      | 101.7       |
| 13:20:56           | 154.2        | 1.2          | 0.1           | 68.6      | 101.7       |
| 13:21:56           | 148.6        | 1.2          | 0.1           | 68.6      | 101.7       |
| 13:23:27           | 143.3        | 1.2          | 0.1           | 68.6      | 101.7       |
| 13:23:56           | 131.0        | 1.2          | 0.1           | 68.4      | 101.7       |
| 13:24:56           | 134.8        | 1.2          | 0.1           | 68.4      | 103.5       |
| 13:25:56           | 122.8        | 1.1          | 0.1           | 68.4      | 101.5       |
| 13:26:56           | 120.2        | 1.1          | 0.1           | 68.3      | 101.5       |
| 13:27:56           | 120.6        | 1.0          | 0.1           | 68.3      | 101.5       |
| 13:28:56           | 111.0        | 14.9         | 0.1           | 68.4      | 101.7       |
| 13:29:56           | 57.8         | 101.4        | 0.1           | 68.3      | 160.6       |
| 13:30:56           | 63.8         | 50.6         | 0.1           | 67.7      | 101.2       |
| 13:31:56           | 32.8         | 10.6         | 0.1           | 67.7      | 101.1       |
| 13:32:56           | 56.5         | 5.3          | 0.1           | 67.9      | 100.9       |
| 13:33:56           | 96.7         | 4.0          | 0.1           | 67.9      | -19.2       |
| 13:34:56           | 91.8         | 3.6          | 0.1           | 68.0      | -19.2       |
| 13:35:56           | 86.9         | 3.2          | 0.1           | 67.8      | 337.6       |
| 13:36:56           | 80.5         | 3.2          | 0.1           | 67.6      | 531.3       |
| 13:37:56           | 46.8         | 93.9         | 0.1           | 66.9      | 529.7       |
| 13:38:56           | 45.6         | 32.9         | 0.1           | 66.5      | 532.4       |
| 13:39:56           | 64.3         | 8.7          | 0.1           | 67.2      | 532.7       |
| 13:40:56           | 73.5         | 5.3          | 0.1           | 67.7      | 532.2       |
| 13:41:56           | 73.6         | 4.6          | 0.1           | 68.1      | 532.2       |
| 13:42:56           | 68.3         | 4.1          | 0.1           | 68.3      | 532.1       |
| 13:43:56           | 70.4         | 3.9          | 0.1           | 68.5      | 531.6       |
| 13:44:56           | 153.9        | 3.6          | 0.1           | 68.5      | 525.8       |
| 13:45:56           | 227.9        | 3.6          | 0.1           | 68.3      | 522.6       |
| 13:46:56           | 195.4        | 3.4          | 0.1           | 68.2      | 518.4       |
| 13:47:56           | 303.4        | 3.4          | 0.1           | 69.0      | 513.7       |
| 13:48:56           | 306.5        | 3.3          | 0.1           | 68.0      | 511.8       |
| 13:49:56           | 296.0        | 3.1          | 0.1           | 68.0      | 510.1       |
| 13:50:56           | 438.2        | 3.0          | 0.1           | 67.8      | 505.0       |
| 13:51:56           | 488.7        | 2.9          | 0.1           | 67.9      | 501.1       |
| 13:52:56           | 512.0        | 2.8          | 0.1           | 69.0      | 495.4       |
| 13:53:56           | 527.2        | 2.8          | 0.1           | 68.0      | 491.5       |
| 13:54:56           | 569.8        | 2.6          | 0.1           | 68.1      | 486.8       |
| 13:55:56           | 702.5        | 2.5          | 0.1           | 68.0      | 483.1       |
| 13:56:56           | 596.4        | 2.5          | 0.1           | 68.2      | 479.8       |

- new  
data -

Test #: 0404-1 cont

| 4-04-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|-------------------|--------------|--------------|---------------|-----------|-------------|
| 13:57:56          | 531.7        | 2.5          | 0.1           | 68.2      | 476.7       |
| 13:58:56          | 567.5        | 2.4          | 0.1           | 68.2      | 471.4       |
| 13:59:56          | 521.1        | 2.4          | 0.1           | 68.1      | 465.7       |
| 14:00:56          | 413.3        | 2.4          | 0.1           | 68.2      | 469.2       |
| 14:01:56          | 417.2        | 2.3          | 0.1           | 68.3      | 466.0       |
| 14:02:56          | 470.0        | 2.3          | 0.1           | 68.3      | 465.0       |
| 14:03:56          | 431.9        | 2.2          | 0.1           | 68.4      | 463.1       |
| 14:04:56          | 427.3        | 2.1          | 0.1           | 68.3      | 459.4       |
| 14:05:56          | 355.5        | 2.0          | 0.1           | 68.4      | 459.6       |
| 14:06:56          | 341.7        | 2.1          | 0.1           | 68.3      | 457.4       |
| 14:07:56          | 446.8        | 2.1          | 0.1           | 69.1      | 452.5       |
| 14:08:56          | 441.2        | 2.0          | 0.1           | 68.1      | 449.6       |
| 14:09:56          | 466.0        | 1.9          | 0.1           | 68.1      | 444.7       |
| 14:10:56          | 495.9        | 1.8          | 0.1           | 68.1      | 438.9       |
| 14:11:56          | 517.2        | 1.8          | 0.1           | 68.0      | 433.1       |
| 14:12:56          | 495.4        | 1.8          | 0.1           | 68.0      | 432.0       |
| 14:13:56          | 412.5        | 1.8          | 0.1           | 68.0      | 431.2       |
| 14:14:56          | 401.5        | 1.7          | 0.2           | 67.9      | 430.8       |
| 14:15:56          | 336.1        | 1.7          | 0.2           | 67.9      | 430.8       |
| 14:16:56          | 322.5        | 1.7          | 0.2           | 67.9      | 430.8       |
| 14:17:56          | 323.6        | 1.7          | 0.2           | 68.0      | 430.8       |
| 14:18:56          | 276.0        | 1.6          | 0.2           | 68.0      | 430.8       |
| 14:19:56          | 253.6        | 1.6          | 0.2           | 68.0      | 430.8       |
| 14:20:56          | 207.8        | 1.9          | 0.2           | 67.9      | 430.8       |
| 14:21:56          | 208.0        | 1.9          | 0.2           | 67.9      | 430.8       |
| 14:22:56          | 190.5        | 1.9          | 0.2           | 67.9      | 430.8       |
| 14:23:56          | 184.6        | 1.8          | 0.2           | 67.9      | 430.8       |
| 14:24:56          | 170.2        | 1.7          | 0.2           | 67.9      | 430.8       |
| 14:25:56          | 159.4        | 1.7          | 0.2           | 67.7      | 430.8       |
| 14:26:56          | 151.4        | 1.7          | 0.2           | 67.7      | 430.8       |
| 14:27:56          | 144.9        | 1.7          | 0.2           | 67.6      | 430.8       |
| 14:28:56          | 141.4        | 1.6          | 0.2           | 67.5      | 430.8       |
| 14:29:56          | 130.2        | 1.5          | 0.2           | 67.5      | 430.8       |
| 14:30:56          | 124.7        | 1.6          | 0.2           | 67.5      | 430.8       |
| 14:31:56          | 119.7        | 1.6          | 0.2           | 67.4      | 430.8       |
| 14:32:56          | 115.6        | 1.6          | 0.2           | 67.2      | 430.8       |
| 14:33:56          | 112.1        | 1.5          | 0.2           | 67.1      | 430.8       |
| 14:34:56          | 113.5        | 1.6          | 0.2           | 67.1      | 430.8       |
| 14:35:56          | 108.8        | 1.5          | 0.2           | 67.1      | 430.8       |
| 14:36:56          | 103.7        | 1.5          | 0.2           | 67.1      | 430.8       |
| 14:37:56          | 103.9        | 1.7          | 0.2           | 67.1      | 430.8       |
| 14:38:56          | 98.7         | 1.8          | 0.2           | 67.0      | 430.8       |
| 14:39:56          | 99.4         | 1.7          | 0.2           | 66.9      | 430.8       |
| 14:40:56          | 99.2         | 1.6          | 0.2           | 66.6      | 430.9       |
| 14:41:56          | 100.7        | 1.7          | 0.2           | 66.7      | 430.8       |
| 14:42:56          | 96.0         | 1.8          | 0.2           | 66.8      | 430.9       |
| 14:43:56          | 91.3         | 2.1          | 0.2           | 66.8      | 430.8       |
| 14:44:56          | 87.6         | 2.2          | 0.2           | 66.8      | 430.9       |
| 14:45:56          | 85.1         | 2.4          | 0.2           | 66.7      | 430.8       |
| 14:46:56          | 74.1         | 2.6          | 0.2           | 66.7      | 430.9       |
| 14:47:56          | 74.3         | 2.6          | 0.2           | 66.6      | 430.8       |
| 14:48:56          | 73.3         | 2.6          | 0.2           | 66.6      | 430.9       |
| 14:49:56          | 66.1         | 2.6          | 0.2           | 66.5      | 430.8       |
| 14:50:56          | 64.7         | 2.8          | 0.2           | 66.6      | 430.9       |
| 14:51:56          | 61.0         | 2.7          | 0.2           | 66.7      | 430.8       |
| 14:52:56          | 59.1         | 2.7          | 0.2           | 66.7      | 430.9       |

Test #: 0404-1 cont

| 04-04-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
|--------------------|--------------|--------------|---------------|-----------|-------------|

|          |      |     |     |      |       |
|----------|------|-----|-----|------|-------|
| 14:53:56 | 55.9 | 2.8 | 0.2 | 66.7 | 430.9 |
| 14:54:56 | 52.5 | 2.6 | 0.2 | 66.7 | 430.9 |
| 14:55:56 | 49.3 | 2.5 | 0.2 | 66.7 | 430.9 |
| 14:56:56 | 46.1 | 2.4 | 0.2 | 66.8 | 430.9 |
| 14:57:56 | 43.0 | 2.3 | 0.2 | 66.8 | 430.9 |
| 14:58:56 | 40.4 | 2.2 | 0.2 | 66.8 | 430.9 |
| 14:59:56 | 37.5 | 2.1 | 0.2 | 66.8 | 430.9 |
| 15:00:56 | 34.8 | 2.0 | 0.2 | 66.9 | 430.9 |
| 15:01:56 | 32.9 | 1.9 | 0.2 | 66.9 | 430.9 |
| 15:02:56 | 30.8 | 1.8 | 0.2 | 66.9 | 430.9 |
| 15:03:56 | 29.0 | 1.8 | 0.2 | 66.8 | 430.9 |
| 15:04:56 | 27.0 | 1.7 | 0.2 | 66.8 | 430.9 |
| 15:05:56 | 25.9 | 1.8 | 0.2 | 66.8 | 430.9 |
| 15:06:56 | 24.4 | 1.8 | 0.2 | 66.9 | 430.9 |
| 15:07:56 | 22.4 | 1.8 | 0.2 | 66.9 | 430.9 |
| 15:08:56 | 21.3 | 1.8 | 0.2 | 66.9 | 430.9 |
| 15:09:56 | 20.4 | 1.7 | 0.2 | 66.9 | 430.9 |
| 15:10:56 | 18.5 | 1.7 | 0.2 | 66.7 | 430.9 |
| 15:11:56 | 18.0 | 1.6 | 0.2 | 66.7 | 430.9 |
| 15:12:56 | 16.5 | 1.6 | 0.2 | 66.5 | 430.9 |
| 15:13:56 | 16.2 | 1.6 | 0.2 | 66.4 | 430.9 |
| 15:14:56 | 14.9 | 1.5 | 0.2 | 66.5 | 430.9 |
| 15:15:56 | 14.2 | 1.5 | 0.2 | 66.5 | 430.9 |
| 15:16:56 | 13.5 | 1.5 | 0.2 | 66.5 | 430.9 |
| 15:17:56 | 13.2 | 1.4 | 0.2 | 66.5 | 430.9 |
| 15:18:56 | 13.2 | 1.4 | 0.2 | 66.5 | 430.9 |
| 15:19:56 | 12.2 | 1.4 | 0.2 | 66.5 | 430.9 |
| 15:20:56 | 11.8 | 1.4 | 0.2 | 66.4 | 430.9 |
| 15:21:56 | 11.1 | 1.3 | 0.2 | 66.4 | 430.9 |
| 15:22:56 | 11.1 | 1.4 | 0.2 | 66.3 | 430.9 |
| 15:23:56 | 10.3 | 1.3 | 0.2 | 66.3 | 430.9 |
| 15:24:56 | 10.1 | 1.3 | 0.2 | 66.3 | 430.9 |
| 15:25:56 | 10.1 | 1.2 | 0.2 | 66.3 | 430.9 |
| 15:26:56 | 9.6  | 1.1 | 0.2 | 66.3 | 430.9 |
| 15:27:56 | 9.4  | 1.2 | 0.2 | 66.3 | 430.9 |
| 15:28:56 | 9.2  | 1.2 | 0.2 | 66.3 | 430.9 |
| 15:29:56 | 9.2  | 1.2 | 0.2 | 66.3 | 430.9 |
| 15:30:56 | 8.3  | 1.2 | 0.2 | 66.3 | 430.9 |
| 15:31:56 | 8.1  | 1.2 | 0.2 | 66.2 | 430.9 |
| 15:32:56 | 8.1  | 1.1 | 0.2 | 66.2 | 430.9 |
| 15:33:56 | 8.1  | 1.1 | 0.2 | 66.2 | 430.9 |
| 15:34:56 | 7.7  | 1.1 | 0.2 | 66.2 | 430.9 |
| 15:35:56 | 6.9  | 1.1 | 0.2 | 66.2 | 430.9 |

Avg = 194.4 3.0 0.1 67.8 328.6

DIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-04-1997 Current Time = 15:38:39  
 File Name = c:\cemdata\040497.PRN Calibration File: c:\cemdata\0404c.CAL

Test #: Post Oppe

| 04-04-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 15:38:42           | 2.0          | -0.7         | 0.2           | 64.8      | -1590.9     |
| 15:38:46           | 2.0          | -0.7         | 0.2           | 64.3      | -1609.2     |
| 15:38:56           | 2.0          | -0.7         | 0.2           | 64.2      | -1578.9     |
| 15:39:06           | 2.0          | -0.7         | 0.2           | 64.3      | -1579.1     |
| 15:39:16           | 2.0          | -0.7         | 0.2           | 64.2      | -1579.4     |
| 15:39:26           | 2.0          | -0.7         | 0.2           | 63.9      | -1579.7     |
| 15:39:36           | 2.0          | -0.8         | 0.2           | 63.7      | -1579.2     |
| 15:39:46           | 2.0          | -0.7         | 0.2           | 63.6      | -1579.4     |
| 15:39:56           | 2.0          | -0.7         | 0.2           | 63.5      | -1579.7     |
| 15:40:06           | 2.0          | -0.8         | 0.2           | 63.3      | -1579.7     |
| avg =              | 2.0          | -0.7         | 0.2           | 64.0      | -1583.5     |

VOID

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-04-1997 Current Time = 15:43:16

File Name = c:\cemdata\040497.PRN Calibration File: c:\cemdata\0404c.CAL

Test #: Post OPPM-2

| 04-04-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 15:43:19           | -0.1         | -0.3         | 0.1           | 62.8      | -1592.4     |
| 15:43:26           | -0.0         | -0.2         | 0.2           | 62.1      | -1586.7     |
| 15:43:36           | -0.0         | -0.2         | 0.2           | 61.9      | -1578.4     |
| 15:43:46           | -0.0         | -0.2         | 0.2           | 61.7      | -1579.2     |
| 15:43:56           | 0.0          | -0.2         | 0.2           | 61.5      | -1578.5     |
| 15:44:06           | 0.0          | -0.2         | 0.2           | 61.4      | -1579.0     |
| 15:44:16           | 0.0          | -0.2         | 0.2           | 61.5      | -1579.0     |
| 15:44:26           | -0.0         | -0.2         | 0.2           | 61.4      | -1578.2     |
| 15:44:36           | 0.0          | -0.3         | 0.2           | 61.5      | -1578.5     |
| 15:44:46           | -0.0         | -0.2         | 0.2           | 61.3      | -1578.7     |
| 15:44:56           | 0.0          | -0.2         | 0.2           | 61.1      | -1578.9     |
| 15:45:06           | 0.0          | -0.2         | 0.2           | 61.1      | -1578.8     |
| 15:45:16           | 0.0          | -0.2         | 0.2           | 61.1      | -1579.2     |
| 15:45:26           | 0.0          | -0.2         | 0.2           | 61.0      | -1578.7     |
| Avg =              | -0.0         | -0.2         | 0.2           | 61.5      | -1587.4     |



DIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-04-1997 Current Time = 15:46:52  
 File Name = c:\cemdata\040497.PRN Calibration File:c:\cemdata\0404c.CAL

Test #: Out post 297ppm

| 04-04-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 15:46:55           | 297.0        | 22.1         | 0.2           | 61.2      | -1592.4     |
| 15:46:57           | 297.0        | 22.1         | 0.2           | 61.2      | -1592.4     |
| 15:47:06           | 297.0        | 22.1         | 0.2           | 61.3      | -1581.4     |
| 15:47:16           | 297.0        | 22.0         | 0.2           | 61.4      | -1577.4     |
| 15:47:26           | 296.9        | 22.0         | 0.2           | 61.4      | -1575.0     |
| 15:47:36           | 297.1        | 22.0         | 0.2           | 61.3      | -1577.6     |
| 15:47:46           | 297.0        | 21.9         | 0.2           | 61.4      | -1577.6     |
| Avg =              | 297.0        | 22.0         | 0.2           | 61.3      | -1582.4     |

RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-04-1997 Current Time = 15:50:18  
 File Name = c:\cendata\040497.PRN Calibration File: c:\cendata\0404c.CAL

Test #: Out post <sup>914</sup>  
 904 ppm

| 04-04-1997<br>Time | THC a<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 15:50:21           | 937.6        | 36.3         | 0.2           | 59.9      | -1579.6     |
| 15:50:22           | 937.6        | 36.3         | 0.2           | 59.9      | -1579.6     |
| 15:50:23           | 939.3        | 36.7         | 0.2           | 60.0      | -1579.1     |
| 15:50:33           | 937.2        | 36.9         | 0.2           | 60.0      | -1578.8     |
| 15:50:46           | 935.1        | 37.1         | 0.2           | 60.1      | -1579.0     |
| 15:50:55           | 931.4        | 37.2         | 0.2           | 60.2      | -1579.2     |
| 15:51:05           | 932.7        | 37.3         | 0.2           | 60.2      | -1579.5     |
| 15:51:15           | 931.9        | 37.5         | 0.2           | 60.3      | -1574.1     |
| 15:51:25           | 930.0        | 37.7         | 0.2           | 60.4      | -1579.2     |
| 15:51:36           | 930.7        | 37.9         | 0.2           | 60.4      | -1578.9     |
| 15:51:46           | 931.1        | 38.1         | 0.2           | 60.5      | -1575.1     |
| 15:51:56           | 931.1        | 38.2         | 0.2           | 60.5      | -1573.5     |
| 15:52:06           | 932.0        | 38.2         | 0.2           | 60.5      | -1574.1     |
| 15:52:16           | 933.1        | 38.4         | 0.2           | 60.4      | -1574.6     |
| 15:52:26           | 930.2        | 38.8         | 0.2           | 60.4      | -1580.5     |
| Avg =              | 933.4        | 37.5         | 0.2           | 60.3      | -1579.8     |

DIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-04-1997 Current Time = 15:53:56  
 File Name = c:\ceedata\040497.PRN Calibration File: c:\ceedata\0404c.CAL

Test #: In post 15ppm

| 04-04-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 15:54:01           | 13.3         | 15.1         | 0.2           | 60.2      | -1602.4     |
| 15:54:06           | 13.3         | 14.8         | 0.2           | 60.1      | -1605.5     |
| 15:54:16           | 13.3         | 14.5         | 0.2           | 60.0      | -1581.4     |
| 15:54:26           | 13.3         | 14.4         | 0.2           | 60.0      | -1576.5     |
| 15:54:36           | 13.3         | 14.4         | 0.2           | 60.1      | -1581.6     |
| 15:54:46           | 13.3         | 14.4         | 0.2           | 60.1      | -1581.1     |
| 15:54:56           | 13.3         | 14.4         | 0.2           | 60.1      | -1581.3     |
| 15:55:06           | 13.3         | 14.3         | 0.2           | 60.1      | -1581.3     |
| 15:55:16           | 13.3         | 14.3         | 0.2           | 60.1      | -1582.5     |
| Avg =              | 13.3         | 14.5         | 0.2           | 60.1      | -1586.0     |

RADIAN CORPORATION  
Environmental Measurement and Analysis Department  
Continuous Emissions Monitoring Data  
US Marine  
Arlington, WA  
Performed for: NMMA  
Date Printed = 04-04-1997 Current Time = 15:56:46  
File Name = c:\cemdata\040497.PRN Calibration File:c:\cemdata\0404c.CAL

Test #: In post 45.5

| 04-04-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 15:56:50           | 42.5         | 44.4         | 0.2           | 59.9      | -1501.5     |
| 15:56:55           | 42.5         | 44.5         | 0.2           | 59.8      | -1595.9     |
| 15:57:06           | 42.5         | 44.6         | 0.2           | 59.7      | -1592.7     |
| 15:57:16           | 42.5         | 44.5         | 0.2           | 59.9      | -1577.7     |
| 15:57:25           | 42.5         | 44.6         | 0.2           | 59.9      | -1577.2     |
| 15:57:35           | 42.5         | 44.6         | 0.2           | 59.1      | -1582.3     |
| 15:57:46           | 42.4         | 44.6         | 0.2           | 59.1      | -1577.1     |
| 15:57:55           | 42.6         | 44.6         | 0.2           | 59.1      | -1582.4     |
| 15:58:06           | 42.3         | 44.7         | 0.2           | 59.1      | -1581.4     |
| Avg =              | 42.4         | 44.6         | 0.2           | 59.9      | -1584.2     |

RADIAM CORPORATION  
Environmental Measurement and Analysis Department  
Continuous Emissions Monitoring Data  
US Marine  
Arlington, WA

C404-2  
NMMA-3-1

Recorded for: NMMA  
Date Printed = 04-04-1997 Current Time = 16:07:18  
File Name = c:\cemdata\040497.PRM Calibration File: c:\cemdata\0404c.CAL

Test #: 0404-2

| 04-04-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 16:08:07           | 2.0          | 0.4          | 0.2           | 50.8      | 247         |
| 16:09:07           | 1.7          | 0.4          | 0.2           | 51.1      | 243.1       |
| 16:10:07           | 48.0         | 0.4          | 0.2           | 51.3      | 241.7       |
| 16:11:07           | 170.6        | 0.4          | 0.2           | 52.0      | 239.3       |
| 16:12:07           | 177.3        | 0.4          | 0.2           | 52.3      | 237.7       |
| 16:13:07           | 261.1        | 0.4          | 0.2           | 52.6      | 235.1       |
| 16:14:07           | 371.1        | 0.4          | 0.2           | 52.7      | 232.1       |
| 16:15:07           | 355.8        | 0.5          | 0.1           | 52.9      | 230.6       |
| 16:16:07           | 320.6        | 0.5          | 0.1           | 53.2      | 228.0       |
| 16:17:07           | 357.3        | 0.5          | 0.1           | 53.4      | 227.1       |
| 16:18:07           | 281.2        | 0.5          | 0.1           | 53.9      | 226.0       |
| 16:19:07           | 356.3        | 0.6          | 0.1           | 54.0      | 224.3       |
| 16:20:07           | 459.5        | 0.6          | 0.1           | 54.0      | 222.6       |
| 16:21:07           | 414.0        | 0.7          | 0.1           | 54.3      | 221.0       |
| 16:22:07           | 408.1        | 0.6          | 0.1           | 54.5      | 219.0       |
| 16:23:07           | 428.6        | 0.6          | 0.1           | 54.7      | 217.4       |
| 16:24:07           | 479.1        | 0.6          | 0.1           | 54.8      | 216.1       |
| 16:25:07           | 399.4        | 0.6          | 0.1           | 55.0      | 215.9       |
| 16:26:07           | 309.1        | 0.6          | 0.1           | 55.2      | 215.6       |
| 16:27:07           | 317.5        | 0.6          | 0.1           | 55.3      | 215.8       |
| 16:28:07           | 262.7        | 0.6          | 0.1           | 55.4      | 215.6       |
| 16:29:07           | 232.8        | 0.6          | 0.1           | 55.6      | 215.3       |
| 16:30:07           | 225.6        | 0.6          | 0.1           | 55.7      | 215.6       |
| 16:31:07           | 224.6        | 0.6          | 0.1           | 55.8      | 215.8       |
| 16:32:07           | 226.4        | 0.6          | 0.1           | 55.9      | 215.6       |
| 16:33:07           | 199.7        | 0.6          | 0.1           | 56.1      | 215.3       |
| 16:34:07           | 201.6        | 0.6          | 0.1           | 56.2      | 215.6       |
| 16:35:07           | 192.8        | 0.6          | 0.1           | 56.3      | 215.8       |
| 16:36:07           | 171.6        | 0.6          | 0.1           | 56.4      | 215.6       |
| 16:37:07           | 197.2        | 0.6          | 0.1           | 56.4      | 215.3       |
| 16:38:07           | 184.2        | 0.7          | 0.1           | 56.5      | 215.6       |
| 16:39:07           | 181.7        | 0.6          | 0.1           | 56.6      | 215.8       |
| 16:40:07           | 180.0        | 0.7          | 0.1           | 56.6      | 215.6       |
| 16:41:07           | 175.4        | 0.7          | 0.1           | 56.6      | 215.8       |
| 16:42:07           | 170.4        | 0.8          | 0.1           | 56.7      | 215.6       |
| 16:43:07           | 160.8        | 0.8          | 0.1           | 56.8      | 215.3       |
| 16:44:07           | 166.9        | 0.8          | 0.1           | 56.8      | 215.7       |
| 16:45:07           | 145.5        | 0.7          | 0.1           | 56.8      | 215.7       |
| 16:46:07           | 155.2        | 0.7          | 0.1           | 56.9      | 215.7       |
| 16:47:07           | 147.7        | 0.7          | 0.1           | 56.9      | 215.7       |

Test #: 0404-2

| 04-04-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 16:48:07           | 144.4        | 0.7          | 0.1           | 66.9      | 215.7       |
| 16:49:07           | 170.2        | 0.6          | 0.1           | 66.9      | 215.7       |
| 16:50:07           | 153.3        | 0.6          | 0.2           | 67.0      | 215.7       |
| 16:51:07           | 149.1        | 0.7          | 0.1           | 67.0      | 215.7       |
| 16:52:07           | 162.7        | 0.7          | 0.2           | 67.0      | 215.7       |
| 16:53:07           | 159.5        | 0.6          | 0.1           | 67.0      | 215.7       |
| 16:54:07           | 146.0        | 0.7          | 0.1           | 67.2      | 215.7       |
| 16:55:07           | 150.5        | 0.7          | 0.2           | 67.2      | 215.7       |
| 16:56:07           | 126.1        | 0.6          | 0.1           | 67.3      | 215.7       |
| 16:57:07           | 119.9        | 0.7          | 0.1           | 67.3      | 215.7       |
| 16:58:07           | 121.1        | 0.6          | 0.0           | 68.0      | 215.7       |
| 16:59:07           | 123.8        | 0.6          | 0.1           | 67.4      | 215.7       |
| 17:00:07           | 115.5        | 0.6          | 0.0           | 67.8      | 215.7       |
| 17:01:07           | 124.1        | 0.6          | 0.1           | 67.5      | 215.7       |
| 17:02:07           | 121.3        | 0.7          | 0.1           | 67.5      | 215.7       |
| 17:03:07           | 116.8        | 0.6          | 0.1           | 67.5      | 215.7       |
| 17:04:07           | 105.6        | 0.7          | 0.1           | 67.4      | 215.7       |
| 17:05:08           | 111.3        | 0.7          | 0.1           | 67.5      | 215.7       |
| 17:06:07           | 110.4        | 0.6          | 0.1           | 67.5      | 215.7       |
| 17:07:07           | 106.7        | 0.6          | 0.1           | 67.5      | 215.7       |
| 17:08:07           | 104.3        | 0.7          | 0.1           | 67.5      | 215.7       |
| 17:09:07           | 96.7         | 0.6          | 0.1           | 67.6      | 215.7       |
| 17:10:07           | 98.3         | 0.6          | 0.1           | 67.6      | 215.7       |
| 17:11:07           | 92.9         | 0.5          | 0.1           | 67.7      | 215.7       |
| 17:12:07           | 59.2         | 0.5          | 0.1           | 67.8      | 215.7       |
| 17:13:07           | 59.5         | 0.5          | 0.1           | 67.8      | 215.7       |
| 17:14:07           | 51.8         | 0.7          | 0.1           | 67.8      | 215.7       |
| 17:15:07           | 83.4         | 0.6          | 0.1           | 67.8      | 215.7       |
| 17:16:07           | 30.1         | 0.6          | 0.1           | 67.8      | 215.7       |
| 17:17:07           | 79.2         | 0.6          | 0.1           | 67.9      | 215.7       |
| 17:18:07           | 66.8         | 0.6          | 0.1           | 67.9      | 215.7       |
| 17:19:07           | 72.2         | 0.6          | 0.1           | 67.9      | 215.7       |
| 17:20:07           | 69.8         | 0.6          | 0.1           | 67.8      | 215.7       |
| 17:21:07           | 65.3         | 0.6          | 0.1           | 67.9      | 215.7       |
| 17:22:07           | 61.7         | 0.6          | 0.1           | 67.9      | 215.6       |
| 17:23:07           | 64.4         | 0.6          | 0.1           | 67.9      | 215.6       |
| 17:24:07           | 57.4         | 0.6          | 0.1           | 68.0      | 215.6       |
| 17:25:07           | 51.8         | 0.6          | 0.1           | 67.9      | 215.6       |
| 17:26:07           | 55.1         | 0.5          | 0.1           | 67.9      | 215.6       |
| 17:27:07           | 48.3         | 0.5          | 0.1           | 67.8      | 215.6       |
| 17:28:07           | 47.7         | 0.4          | 0.1           | 67.7      | 215.7       |
| 17:29:07           | 50.2         | 0.5          | 0.1           | 67.6      | 215.6       |
| 17:30:07           | 45.7         | 0.5          | 0.1           | 67.7      | 215.6       |
| 17:31:07           | 40.1         | 0.5          | 0.1           | 67.7      | 215.6       |
| 17:32:07           | 40.8         | 0.5          | 0.1           | 67.7      | 215.6       |
| 17:33:07           | 36.7         | 0.5          | 0.1           | 67.7      | 215.6       |
| 17:34:07           | 36.3         | 0.5          | 0.1           | 67.7      | 215.6       |
| 17:35:07           | 33.0         | 0.4          | 0.1           | 67.7      | 215.6       |
| 17:36:07           | 27.8         | 0.4          | 0.1           | 67.7      | 215.6       |
| 17:37:07           | 28.1         | 0.4          | 0.1           | 67.7      | 215.6       |
| 17:38:07           | 31.2         | 0.4          | 0.1           | 67.7      | 215.6       |
| 17:39:07           | 26.3         | 0.4          | 0.1           | 67.7      | 215.6       |
| 17:40:07           | 25.7         | 0.4          | 0.1           | 67.6      | 215.6       |
| 17:41:07           | 22.5         | 0.4          | 0.1           | 67.6      | 215.6       |
| 17:42:07           | 22.3         | 0.4          | 0.1           | 67.7      | 215.6       |
| 17:43:07           | 19.9         | 0.5          | 0.1           | 67.6      | 215.6       |

Test #: 0404-2

| 04-04-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 17:44:07           | 18.5         | 0.5          | 0.1           | 87.6      | 215.6       |
| 17:45:07           | 19.3         | 0.4          | 0.1           | 87.7      | 215.6       |
| 17:46:07           | 17.6         | 0.4          | 0.1           | 87.7      | 215.6       |
| 17:47:07           | 15.1         | 0.4          | 0.1           | 87.7      | 215.6       |
| 17:48:07           | 15.1         | 0.4          | 0.1           | 87.7      | 215.6       |
| 17:49:07           | 15.4         | 0.4          | 0.1           | 87.7      | 215.6       |
| 17:50:07           | 15.3         | 0.5          | 0.1           | 87.6      | 215.6       |
| 17:51:07           | 13.9         | 0.5          | 0.1           | 87.6      | 215.6       |
| 17:52:07           | 11.1         | 0.5          | 0.1           | 87.9      | 215.6       |
| 17:53:07           | 8.9          | 0.5          | 0.1           | 87.8      | 215.6       |
| 17:54:07           | 10.0         | 0.6          | 0.1           | 87.8      | 215.6       |
| 17:55:07           | 10.0         | 0.4          | 0.1           | 87.8      | 215.6       |
| 17:56:07           | 7.4          | 0.4          | 0.1           | 87.7      | 215.6       |
| 17:57:07           | 5.1          | 0.5          | 0.1           | 87.7      | 215.6       |
| 17:58:07           | 2.5          | 0.5          | 0.1           | 87.7      | 215.6       |
| 17:59:07           | 3.4          | 0.4          | 0.1           | 87.3      | 215.6       |
| 18:00:07           | 7.5          | 0.4          | 0.1           | 87.0      | 215.6       |
| 18:01:07           | 7.1          | 0.4          | 0.1           | 86.7      | 215.6       |
| 18:02:07           | 7.0          | 0.4          | 0.1           | 86.4      | 215.6       |
| 18:03:07           | 6.8          | 0.4          | 0.1           | 86.4      | 215.6       |
| 18:04:07           | 6.7          | 0.4          | 0.1           | 86.5      | 215.6       |
| Avg =              | 125.2        | 0.6          | 0.1           | 86.6      | 217.7       |

RADIAN CORPORATION  
Environmental Measurement and Analysis Department  
Continuous Emissions Monitoring Data  
US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-04-1997 Current Time = 18:07:04

File Name = c:\ceadata\040497.PRN Calibration File: c:\ceadata\0404c.CAL

0404-2  
POST TEST CALS

Test #: Post Opom

| 04-04-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 18:07:10           | -0.0         | -0.8         | 0.1           | 66.7      | 215.7       |
| 18:07:17           | -0.0         | -0.8         | 0.1           | 66.8      | 215.7       |
| 18:07:27           | -0.0         | -0.8         | 0.1           | 66.8      | 215.6       |
| 18:07:37           | -0.1         | -0.8         | 0.1           | 66.8      | 215.7       |
| 18:07:47           | -0.0         | -0.8         | 0.1           | 66.8      | 215.6       |
| 18:07:57           | -0.1         | -0.8         | 0.1           | 66.8      | 215.7       |
| 18:08:07           | -0.0         | -0.8         | 0.1           | 66.8      | 215.7       |
| 18:08:17           | -0.1         | -0.9         | 0.1           | 66.9      | 215.7       |
| 18:08:27           | -0.0         | -0.9         | 0.1           | 66.9      | 215.7       |
| 18:08:37           | -0.0         | -0.9         | 0.1           | 66.9      | 215.6       |
| 18:08:47           | -0.0         | -0.9         | 0.1           | 66.9      | 215.6       |
| 18:08:57           | -0.0         | -0.9         | 0.1           | 66.9      | 215.6       |
| 18:09:07           | -0.0         | -0.9         | 0.1           | 66.9      | 215.6       |
| 18:09:17           | -0.0         | -0.9         | -0.0          | 67.0      | 215.6       |
| 18:09:27           | -0.0         | -0.9         | -0.0          | 67.0      | 215.7       |
| 18:09:37           | -0.1         | -0.9         | -0.0          | 67.0      | 215.7       |
| 18:09:47           | -0.0         | -0.9         | -0.0          | 66.9      | 215.7       |
| Avg =              | -0.0         | -0.9         | 0.1           | 66.9      | 215.7       |



RADIANT CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 ington, WA  
 Performed for: NMMA  
 Date Printed = 04-04-1997 Current Time = 18:12:29  
 File Name = c:\cemdata\040497.PRN Calibration File:c:\cemdata\0404c.CAL

Test #: In post 30.4ppm

| 04-04-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 18:12:36           | 27.4         | 29.6         | -0.0          | 66.8      | 215.6       |
| 18:12:37           | 27.4         | 29.6         | -0.0          | 66.8      | 215.6       |
| 18:12:47           | 27.4         | 29.7         | -0.0          | 66.9      | 215.7       |
| 18:12:57           | 27.4         | 29.7         | -0.0          | 66.9      | 215.6       |
| 18:13:07           | 27.4         | 29.8         | -0.0          | 66.9      | 215.7       |
| 18:13:17           | 27.4         | 29.8         | -0.0          | 66.9      | 215.7       |
| 18:13:27           | 27.4         | 29.8         | -0.0          | 66.9      | 215.7       |
| 18:13:37           | 27.4         | 29.8         | -0.0          | 66.9      | 215.7       |
| 18:13:47           | 27.3         | 29.7         | -0.0          | 66.9      | 215.7       |
| Avg =              | 27.4         | 29.7         | -0.0          | 66.9      | 215.6       |

RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-04-1997 Current Time = 18:15:09  
 File Name = c:\cendata\040497.PRW Calibration File:c:\cendata\0404c.CAL

Test #: In post 15ppm

| 04-04-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 18:15:16           | 13.2         | 14.1         | -0.0          | 66.9      | 215.7       |
| 18:15:17           | 13.2         | 14.1         | -0.0          | 66.9      | 215.7       |
| 18:15:27           | 13.3         | 14.1         | -0.0          | 66.9      | 215.7       |
| 18:15:37           | 13.2         | 14.2         | -0.0          | 66.9      | 215.6       |
| 18:15:47           | 12.9         | 14.2         | -0.0          | 66.9      | 215.6       |
| 18:15:57           | 12.2         | 14.2         | -0.0          | 66.9      | 215.6       |
| 18:16:07           | 13.2         | 14.2         | -0.0          | 66.9      | 215.6       |
| 18:16:17           | 12.9         | 14.3         | -0.0          | 66.9      | 215.6       |
| 18:16:27           | 13.0         | 14.2         | -0.0          | 66.9      | 215.6       |
| 18:16:37           | 13.2         | 14.2         | -0.0          | 67.0      | 215.6       |
| 18:16:47           | 13.2         | 14.2         | -0.0          | 66.9      | 215.6       |
| 18:16:57           | 12.5         | 14.2         | -0.0          | 67.0      | 215.7       |
| Avg =              | 13.0         | 14.2         | -0.0          | 66.9      | 215.6       |

RADIANT CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

ington, WA

formed for: NMMA

Date Printed = 04-04-1997 Current Time = 18:18:42

File Name = c:\ceadata\040497.PRN Calibration File: c:\ceadata\0404c.CAL

Test #: Out post 297ppm

| 04-04-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 18:18:44           | 297.0        | 29.8         | -0.0          | 67.0      | 215.6       |
| 18:18:47           | 297.1        | 29.9         | -0.0          | 67.0      | 215.7       |
| 18:18:57           | 296.2        | 29.9         | -0.0          | 67.0      | 215.6       |
| 18:19:07           | 296.3        | 30.0         | -0.0          | 67.0      | 215.6       |
| 18:19:17           | 296.9        | 30.0         | -0.0          | 67.0      | 215.6       |
| 18:19:27           | 295.5        | 30.1         | -0.0          | 67.0      | 215.6       |
| 18:19:37           | 296.1        | 30.1         | -0.0          | 67.1      | 215.6       |
| 18:19:47           | 296.9        | 30.1         | -0.0          | 67.0      | 215.6       |
| 18:19:57           | 295.4        | 30.2         | -0.0          | 67.0      | 215.6       |
| 18:20:07           | 295.1        | 30.2         | -0.0          | 67.1      | 215.6       |
| 18:20:17           | 296.1        | 30.2         | -0.0          | 67.1      | 215.6       |
| 18:20:27           | 295.7        | 30.2         | -0.0          | 67.1      | 215.6       |
| Avg =              | 296.2        | 30.1         | -0.0          | 67.0      | 215.6       |

RADIAM CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-04-1997 Current Time = 18:22:25  
 File Name = c:\cemdata\040497.PRM Calibration File: c:\cemdata\0404c.CAL

Test #: Out post 600ppm

| 04-04-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 18:22:28           | 617.2        | 61.0         | -0.0          | 67.3      | 215.7       |
| 18:22:30           | 617.2        | 61.0         | -0.0          | 67.3      | 215.7       |
| 18:22:37           | 615.7        | 61.3         | -0.0          | 67.4      | 215.7       |
| 18:22:47           | 617.6        | 61.3         | -0.0          | 67.3      | 215.7       |
| 18:22:57           | 617.0        | 61.3         | -0.0          | 67.3      | 215.6       |
| 18:23:07           | 616.9        | 61.1         | -2.4          | -57.3     | 215.8       |
| 18:23:17           | 617.1        | 60.9         | -5.8          | -240.4    | 215.8       |
| 18:23:27           | 615.9        | 60.9         | -5.8          | -240.4    | 215.8       |
| 18:23:37           | 616.3        | 60.9         | -5.8          | -240.4    | 215.8       |
| 18:23:47           | 617.3        | 61.0         | -5.8          | -240.4    | 215.8       |
| 18:23:57           | 617.0        | 60.9         | -5.8          | -240.4    | 215.8       |
| 18:24:07           | 616.3        | 60.9         | -5.8          | -240.4    | 215.8       |
| Avg =              | 616.8        | 61.0         | -3.1          | -96.9     | 215.8       |

**April 5, 1997**

**0405-01/NMMA-8-2: 28-ft Hull Gelcoat**

**0405-02/NMMA-1-1: 18-ft Hull 35% Styrene Resin Spray Up Lamination**

Radian International LLC  
Stelling Engineering, P.A.  
Air Tech Environmental LLC

Date: 4-5

Initial: Ken W

Num 4-8-2

0405-1

28' of

|                | Pre-Test | Post-Test |
|----------------|----------|-----------|
| Run 1 Mass (g) | 1264     | 1264      |
| Run 2 Mass (g) |          |           |
| Run 3 Mass (g) |          |           |
| Average        |          |           |

### Resin:Glass Ratio

|                |  |
|----------------|--|
| Mass resin (g) |  |
| Mass glass (g) |  |
| TOTAL          |  |
| Percent glass  |  |

| Material     | Drum No. | Gel Time (min) | Catalyst % Vol. | Setting |
|--------------|----------|----------------|-----------------|---------|
| Gelcoat      |          |                |                 |         |
| Resin (skin) |          |                |                 |         |
| Resin (lam)  |          |                |                 |         |

## Thickness Checks

[illegible]

DAILY SPRAY EQUIPMENT CALIBRATION

Date: 4-5-97

Initial: Larry Dargitz

Spray Gun: \_\_\_\_\_

NMMA-1-31 0405-2

Resin Flow Calibration (15-second evaluation)

|                | Pre-Test | Post-Test |
|----------------|----------|-----------|
| Run 1 Mass (g) | 722 g    | 729       |
| Run 2 Mass (g) |          |           |
| Run 3 Mass (g) |          |           |
| Average        |          |           |

Resin:Glass Ratio

|                |       |  |
|----------------|-------|--|
| Mass resin (g) | 148   |  |
| Mass glass (g) | 77    |  |
| TOTAL          | 225   |  |
| Percent glass  | 34.22 |  |

| Material     | Drum No. | Gel Time (min) | Catalyst % Vol. | Setting |
|--------------|----------|----------------|-----------------|---------|
| Gelcoat      |          |                |                 |         |
| Resin (skin) |          |                |                 |         |
| Resin (lam)  |          |                |                 |         |

Thickness Checks

| Run    | 1 | 2 | 3 | 4 | 5 |
|--------|---|---|---|---|---|
| 90 mil |   |   |   |   |   |
| 60 mil |   |   |   |   |   |
| 30 mil |   |   |   |   |   |
|        |   |   |   |   |   |
|        |   |   |   |   |   |
|        |   |   |   |   |   |

4/5/97 GC Log

| Run #              | Θ     | Comments                                 | Area                        | Counts |
|--------------------|-------|------------------------------------------|-----------------------------|--------|
| 188                | 0712  | N <sub>2</sub> ; Signal 143 (134 normal) | —                           | —      |
| 189                | 0720  | N <sub>2</sub>                           | —                           | —      |
| 190                | 0728  | 59.2 Styrene                             | 2254912                     |        |
| 191                | 0734  | 59.2 Styrene                             | 2171352                     |        |
| 192                | 0743  | 122 Styrene                              | 4210266                     |        |
| 193                | 0752  | 122 Styrene                              | 4516435                     |        |
| 194                | 0801  | 59.2 Styrene (high)                      | —                           |        |
| 195                | 0811  | 204 Styrene (low)                        | 6764317                     |        |
| 196                | 0818  | 204 Styrene                              | 7293405                     |        |
| 197                | 0826  | 204 Styrene                              | 7506915                     |        |
| 198                | 0832  | Bag 3 - 115.9 mma                        | 2275114                     |        |
| 199                | 0837  | Bag 3 low                                | 2080506                     |        |
| 200                | 0841  | Bag 3                                    | <del>2080506</del>          |        |
| TEST #<br>NmmA-8-2 | 201   | 0847 1 THC-170                           | mma: 719644 / 2966960 : 377 |        |
|                    | 2012  | 0853 2 THC=275                           | 1129984 / 4835504           |        |
|                    | 2073  | 0858 3 THC-475                           | 1818118 / 8194480           |        |
|                    | 2084  | 0904 4 THC-500                           | 1950893 / 9359270           |        |
|                    | 2085  | 0909 5 THC=565                           | 1876325 / 9851699           |        |
|                    | 2086  | 0914 6 THC=560                           | 1482396 / 8345181           |        |
| Spray Ended        | 2047  | 0921 7 THC=700                           | 1564888 / 9315162           |        |
|                    | 2078  | 0927 8 THC=7?                            | 1161541 / 7652301           |        |
|                    | 2089  | 0934 9 THC=425                           | 747716 / 6359642            |        |
|                    | 20910 | 0942 10 THC=320                          | 589668 / 6115709            |        |
|                    | 2111  | 0951 11 THC=200                          | 263198 / 23620594           |        |
|                    | 2112  | 1000 12 THC=182                          | 227265 / 3294266            |        |
|                    | 213   | 1008 13 THC=165                          | 166422 / 3189136            |        |
|                    | 2134  | 1015 14 THC=115                          | 138925 / 2461390            |        |



0405-1 cont

285

|     |                                |    |
|-----|--------------------------------|----|
| 215 | 1022                           | 15 |
| 216 | 1027                           | 16 |
| 217 | 1033                           | 17 |
| 218 | 1042                           | 18 |
| 219 | <del>104</del> <sup>1052</sup> | 19 |
| 220 | 1101                           | 20 |
| 221 | 1108                           | 21 |

THC=89  
THC=70  
THC=60  
THC=45  
THC=31  
THC=18  
THC=12

74226 / 1750519  
~~1206~~<sup>120698</sup> / 1244745  
134504 / 1254234  
101212 / 1112929  
10997 / 656310  
6424 / 368616  
1401 / 218538

4/5/97 cont

③ 85

NMAA

Post 0405-1 QC

|              | Run # | Comments           | Area        |
|--------------|-------|--------------------|-------------|
| Post-0405-1  | 222   | 204 Styrene - Low  |             |
|              | 223   | 204 Styrene        | 7807792     |
|              | 224   | 204 Styrene        | 7622234     |
|              | 225   | Bag 3 - 115.9 NMAA | 2155598     |
|              | 226   | Bag 3 - 115.9 NMAA | 2078871     |
| NMAA-1-21    | 2267  | 1 THC=270 12:10    | 4599898 sty |
| 18' hull 35% | 2278  | 2 THC=110 12:20    | 2307045 sty |
|              | 2289  | 3 THC=275 12:27    | 5420528     |
|              | 230   |                    |             |
|              | 229   | 4 THC=315 12:32    | 6585360     |
|              | 2301  | 5 THC=152 12:41    | 3353214     |
|              | 232   |                    |             |
|              | 2351  | 6 THC=107 12:47    | 2237333     |
|              | 233   |                    |             |
|              | 2362  | 7 THC=93 12:54     | 2120998     |
|              | 237   |                    |             |
|              | 22734 | 8 THC=117 13:01    | 2046736     |
|              | 235   |                    |             |
|              | 2384  | 9 THC=225 13:09    | 4591773     |
|              | 236   | 10 THC=240 13:17   | 4263264     |
|              | 237   | 11 THC=150 13:23   | 3002421     |
|              | 238   | 12 THC=97 13:32    | 188648      |
|              | 239   | 13 THC=63 13:39    | 1401757     |
|              | 240   | 14 THC=165 13:40   | 3227858     |
|              | 241   | 15 THC=207 13:56   | 3545005     |
|              | 242   | 16 THC=270 14:01   | 4736896     |
|              | 243   | 17 THC=91 14:17    | 2103309     |
|              | 244   | 18 THC=66 14:23    | 1196392     |
|              | 245   | 1819 THC=38 14:32  | 965350      |
|              | 246   | 20 THC=24 14:39    | 520505      |
|              | 247   | 21 THC=15 14:46    | 278086      |

④ 85

0405-2 ~~Post-Ten Calc~~

248 22 THC=10 14.53

189523

(5) 185

4/5/97

Post 0405-2 Cal

| Run# | Comment                                         |                   |
|------|-------------------------------------------------|-------------------|
| 249  | 59.2 Styrene - Low                              | —                 |
| 250  | 59.2 Styrene                                    | 2319917           |
| 251  | 59.2 Styrene                                    | 2449782           |
| 2512 | 122 Styrene                                     | 4231165           |
| 2523 | 122 Styrene                                     | 3971010           |
| 2534 | 204 Styrene - bad start, Area ok <del>(S)</del> | 7458795           |
| 2545 | 204 Styrene                                     | 7499962           |
| 2546 | 204 Styrene                                     | 7671725           |
| 2547 | Bag 3 MMA @ 115.9                               | 2171690           |
| 2578 | Bag 3 MMA @ 115.9 (high)                        | —                 |
| 2589 | Bag 3 MMA @ 115.9                               | 1991965           |
| 260  | Bag 3 50:50 (58 ppm)                            | 1096905           |
| 261  | Bag 3 50:50 (58 ppm) Low                        | <del>916589</del> |
| 262  | Bag 3 50:50 (58 ppm)                            | 1062186           |
| 263  | Bag 3 1:5 (28 ppm)                              | 458434            |
| 264  | Bag 3 1:5 (28 ppm)                              | 472153            |

4/5/97

0405-192

Nmma-8-2

Nmma-3-1

\* RUN # 188 APR 5, 1997 07:12:41  
START

0.366  
0.674

1.385  
1.382

3.969

STOP

RUN# 188 APR 5, 1997 07:12:41

ESTD-AREA

| RT    | AREA | TYPE | CAL# | AMOUNT |
|-------|------|------|------|--------|
| 3.969 | 3331 | BP   | 2    | .082   |

TOTAL AREA= 78533  
MUL FACTOR=1.0000E+00

\* RUN # 189 APR 5, 1997 07:20:29  
START

0.301  
0.648

1.791

3.978

STOP

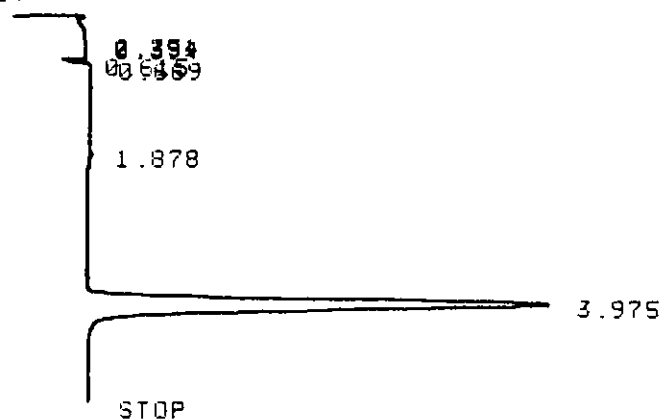
RUN# 189 APR 5, 1997 07:20:29

ESTD-AREA

| RT    | AREA | TYPE | CAL# | AMOUNT |
|-------|------|------|------|--------|
| 1.791 | 4235 | UP   | 1R   | .187   |
| 3.978 | 4609 | UP   | 2    | .113   |

TOTAL AREA= 12701  
MUL FACTOR=1.0000E+00

• RUN # 190 APR 5, 1997 07:28:09  
START



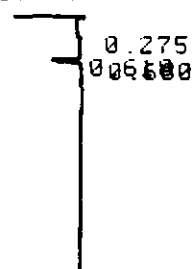
RUN# 190 APR 5, 1997 07:28:09

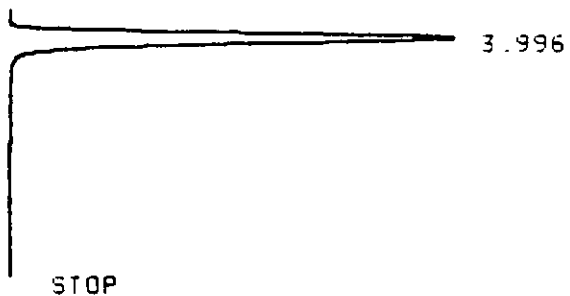
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 3.975 | 2254912 | PB   | 2    | 55.245 |

TOTAL AREA=2494315  
MUL FACTOR=1.0000E+00

\* RUN # 191 APR 5, 1997 07:34:15  
START





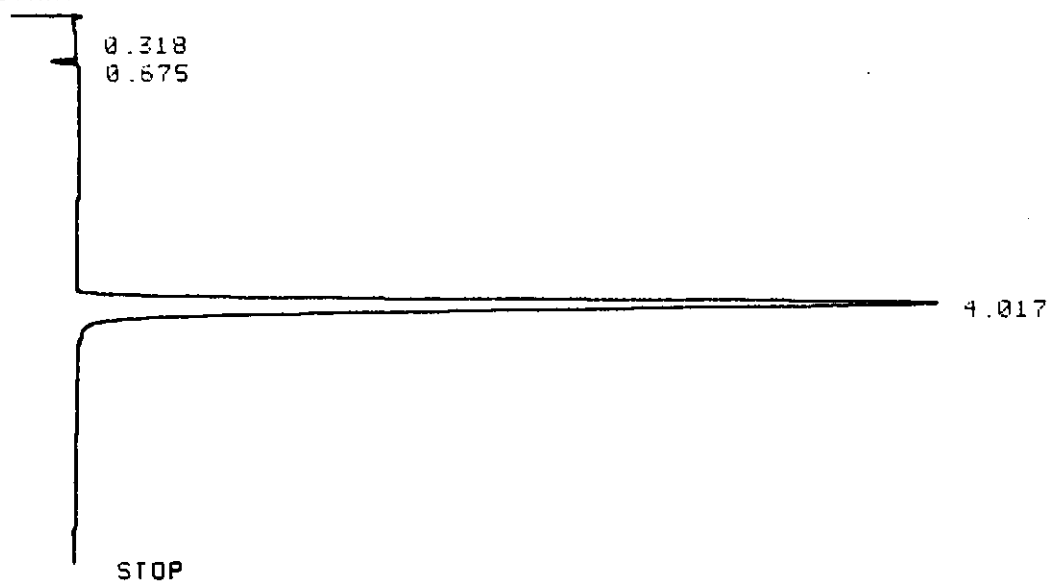
RUN# 191 APR 5, 1997 07:34:15

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 3.996 | 2171352 | PB   | 2    | 53.198 |

TOTAL AREA=2287363  
MUL FACTOR=1.0000E+00

\* RUN # 192 APR 5, 1997 07:43:49  
START



RUN# 192 APR 5, 1997 07:43:49

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 4.017 | 4210266 | BB   | 2    | 103.151 |

TOTAL AREA=4348893  
MUL FACTOR=1.0000E+00

\* RUN # 193 APR 5, 1997 07:52:07  
START

0.259  
006689

3.998

STOP

RUN# 193 APR 5, 1997 07:52:07

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.998 | 4516435 | PB   | 2    | 110.653 |

TOTAL AREA=4688058  
MUL FACTOR=1.0000E+00

\* RUN # 194 APR 5, 1997 08:01:33  
START

0.306  
006697

3.969

STOP

RUN# 194 APR 5, 1997 08:01:33

ESTD-AREA

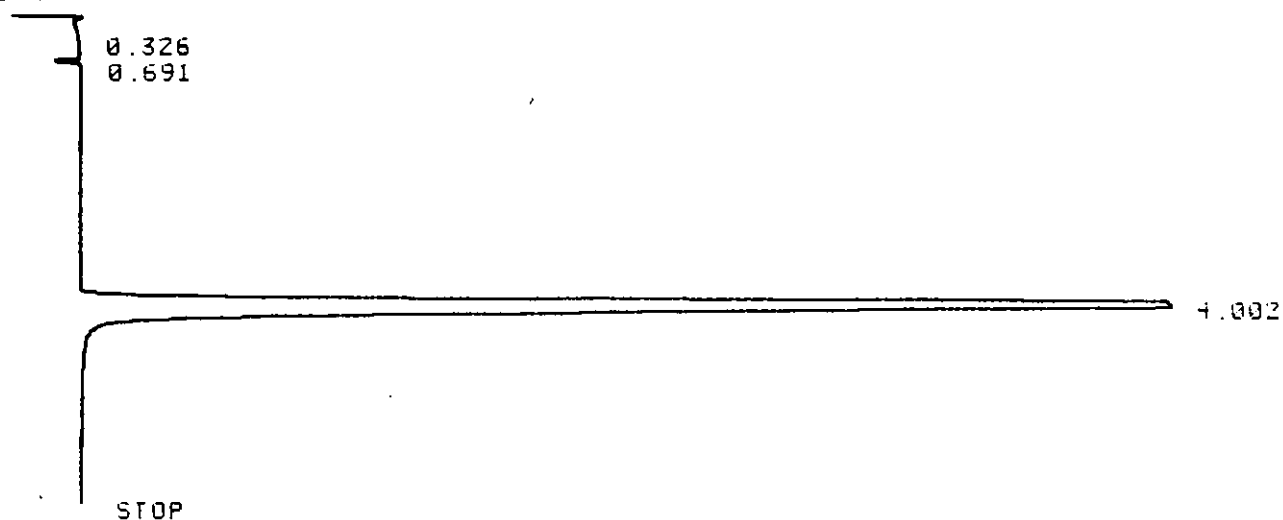
| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 3.969 | 2751562 | PB   | 2    | 67.413 |

TOTAL AREA=2998688



MUL FACTOR=1.0000E+00

\* RUN # 195      APR 5, 1997 08:11:26  
START



RUN# 195      APR 5, 1997 08:11:26

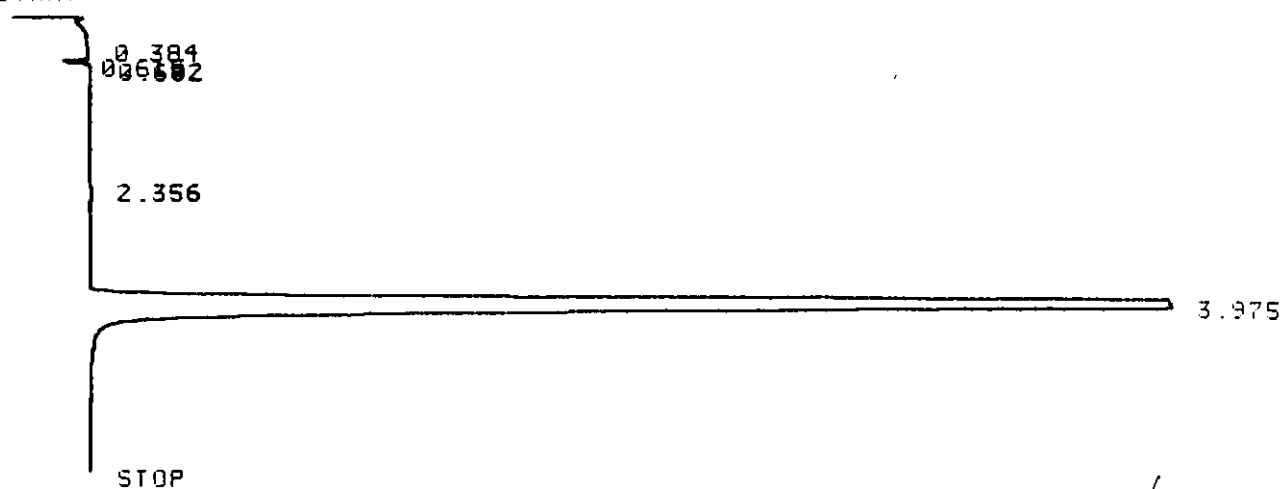
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 4.002 | 6704317 | PB   | 2    | 164.256 |

TOTAL AREA=6902227

MUL FACTOR=1.0000E+00

\* RUN # 196      APR 5, 1997 08:18:52  
START



RUN# 196      APR 5, 1997 08:18:52

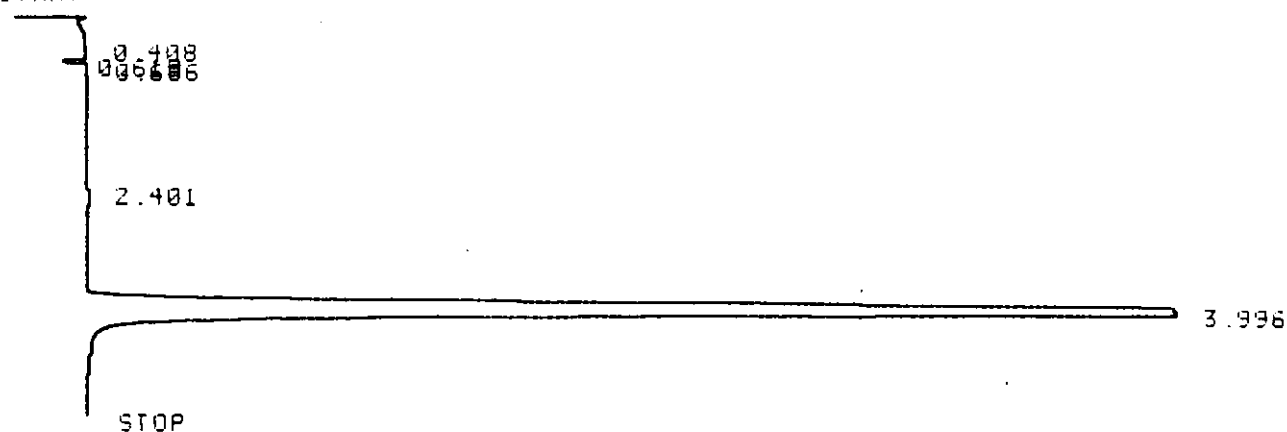
ESTD-AREA

| RT | AREA | TYPE | CAL# | AMOUNT |
|----|------|------|------|--------|
|----|------|------|------|--------|

3.975 7293405 PB 2 178.688

TOTAL AREA=7512541  
MUL FACTOR=1.0000E+00

\* RUN # 197 APR 5, 1997 08:26:15  
START



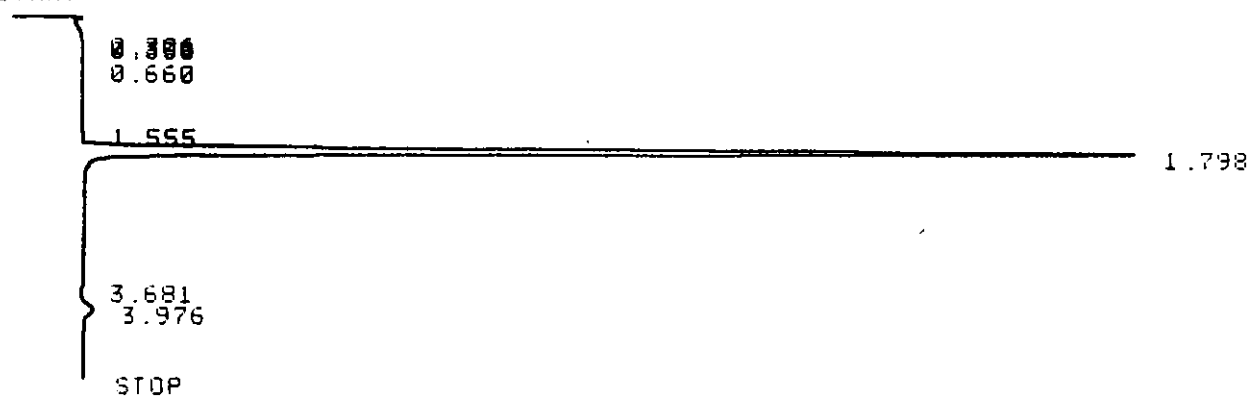
RUN# 197 APR 5, 1997 08:26:15

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.996 | 7506915 | PB   | 2    | 183.919 |

TOTAL AREA=7766381  
MUL FACTOR=1.0000E+00

\* RUN # 198 APR 5, 1997 08:32:07  
START



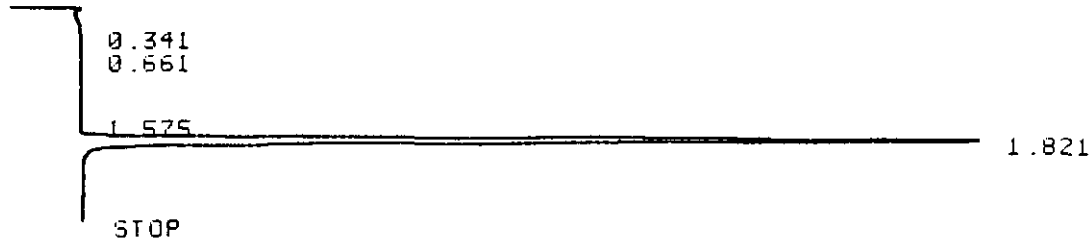
RUN# 198 APR 5, 1997 08:32:07

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.798 | 2275114 | PB   | 1R   | 100.652 |
| 3.976 | 55159   | UU   | 2    | 1.351   |

TOTAL AREA=2415741  
MUL FACTOR=1.0000E+00

\* RUN # 199      APR 5, 1997 08:37:54  
START

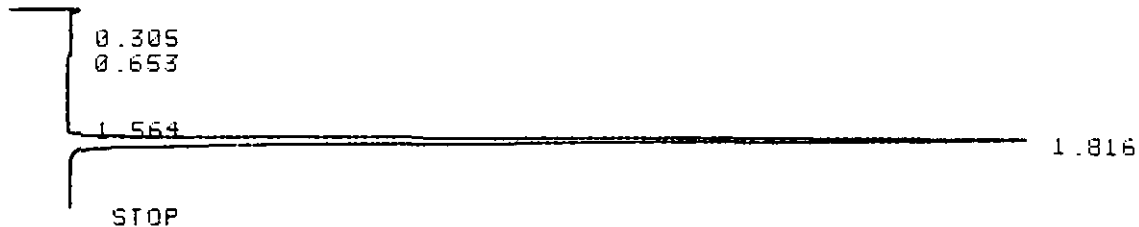


RUN# 199      APR 5, 1997 08:37:54

| ESTD-AREA |            |      |        |  |
|-----------|------------|------|--------|--|
| RT        | AREA TYPE  | CAL# | AMOUNT |  |
| 1.821     | 1953583 PB | 1R   | 86.428 |  |

TOTAL AREA=1990668  
MUL FACTOR=1.0000E+00

\* RUN # 200      APR 5, 1997 08:41:53  
START

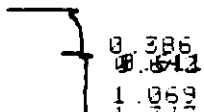


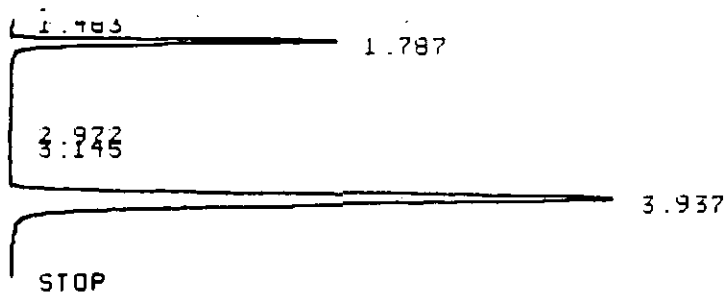
RUN# 200      APR 5, 1997 08:41:53

| ESTD-AREA |            |      |        |  |
|-----------|------------|------|--------|--|
| RT        | AREA TYPE  | CAL# | AMOUNT |  |
| 1.816     | 2080506 PB | 1R   | 92.043 |  |

TOTAL AREA=2084950  
MUL FACTOR=1.0000E+00

\* RUN # 201      APR 5, 1997 08:47:42  
START





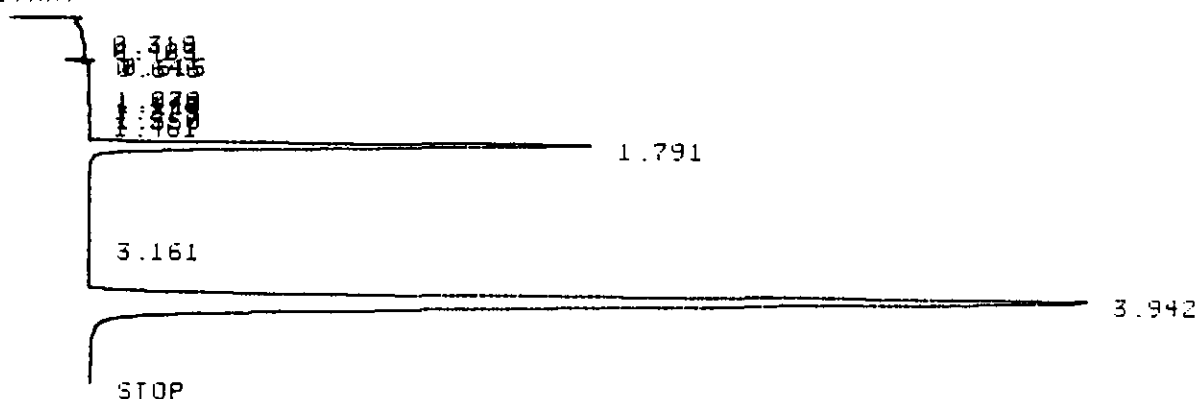
RUN# 201 APR 5, 1997 08:47:42

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.787 | 719644  | PB   | 1R   | 31.837 |
| 3.937 | 2906960 | PB   | 2    | 71.221 |

TOTAL AREA=3830376  
MUL FACTOR=1.0000E+00

\* RUN # 202 APR 5, 1997 08:53:01  
START



RUN# 202 APR 5, 1997 08:53:01

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.791 | 1129984 | UB   | 1R   | 49.991  |
| 3.942 | 4835504 | PB   | 2    | 118.470 |

TOTAL AREA=6445866  
MUL FACTOR=1.0000E+00

\* RUN # 203 APR 5, 1997 08:58:23  
START



2.611  
2.987  
3.344

3.944

STOP

RUN# 203 APR 5, 1997 08:58:23

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.792 | 1818118 | UB   | 1R   | 80.435  |
| 3.944 | 8194480 | PB   | 2    | 200.765 |

TOTAL AREA=1.0462E+07  
MUL FACTOR=1.0000E+00

\* RUN # 204 APR 5, 1997 09:03:53  
START

0.394  
0.802  
1.000  
1.440

1.776

2.600  
2.940  
3.150

3.912

STOP

RUN# 204 APR 5, 1997 09:03:53

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.776 | 1950893 | UB   | 1R   | 86.309  |
| 3.912 | 9359270 | PB   | 2    | 229.302 |

TOTAL AREA=1.1791E+07  
MUL FACTOR=1.0000E+00

\* RUN # 205 APR 5, 1997 09:09:15  
START

0.385  
0.800  
0.900  
1.000  
1.440

1.780

2.973

3.172

3.929

STOP

RUN# 205 APR 5, 1997 09:09:15

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.780 | 1870325 | UB   | 1R   | 82.744  |
| 3.929 | 9851699 | PB   | 2    | 241.367 |

TOTAL AREA=1.2229E+07

MUL FACTOR=1.0000E+00

\* RUN # 206 APR 5, 1997 09:14:37

START

0.378  
0.549  
1.482  
1.555

1.793

2.355  
2.635  
2.939  
3.158

3.951

STOP

RUN# 206 APR 5, 1997 09:14:37

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.793 | 1482396 | UB   | 1R   | 65.582  |
| 3.951 | 8345181 | PB   | 2    | 204.457 |

TOTAL AREA=1.0291E+07

MUL FACTOR=1.0000E+00

\* RUN # 207 APR 5, 1997 09:21:08

START

0.324  
0.549  
1.482  
1.555

1.806

2.346

3.004  
3.185

3.980

STOP

RUN# 207 APR 5, 1997 09:21:08

ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT  |
|-------|------------|------|---------|
| 1.806 | 1564888 UB | 1R   | 69.232  |
| 3.980 | 9315162 PB | 2    | 228.221 |

TOTAL AREA=1.1277E+07  
MUL FACTOR=1.0000E+00

\* RUN # 208 APR 5, 1997 09:27:33  
START

0.385  
0.880  
1.000  
1.448

1.778

2.615  
2.954  
3.131

3.921

STOP

RUN# 208 APR 5, 1997 09:27:33

ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT  |
|-------|------------|------|---------|
| 1.778 | 1101541 UB | 1R   | 48.733  |
| 3.921 | 7652381 PB | 2    | 187.483 |

TOTAL AREA=9.2827E+06  
MUL FACTOR=1.0000E+00

\* RUN # 209 APR 5, 1997 09:34:55  
START

0.382  
0.665

1:053  
1:450

1.799

3:181

3.972

STOP

RUN# 209 APR 5, 1997 09:34:55

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.799 | 747716  | UB   | 1R   | 33.079  |
| 3.972 | 6359642 | PB   | 2    | 155.811 |

TOTAL AREA=7535338  
MUL FACTOR=1.0000E+00

\* RUN # 210 APR 5, 1997 09:42:13  
START

0.389  
0.582  
1:067  
1:341

1.785

2.611  
2.959  
3.142

3.930

9.304

STOP



RUN# 210

APR 5, 1997 09:42:13

ESTD-AREA

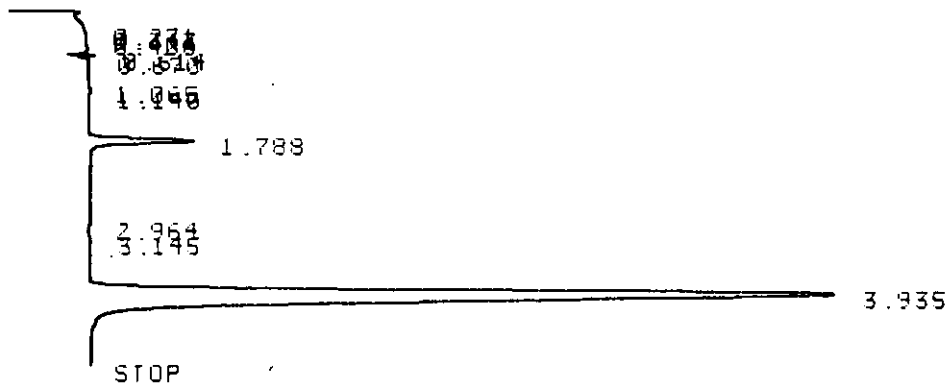
| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.785 | 589668  | UB   | 1R   | 26.087  |
| 3.930 | 6115709 | PB   | 2    | 149.835 |

TOTAL AREA=7196326

MUL FACTOR=1.0000E+00

\* RUN # 211 APR 5, 1997 09:54:59

START



RUN# 211

APR 5, 1997 09:54:59

ESTD-AREA

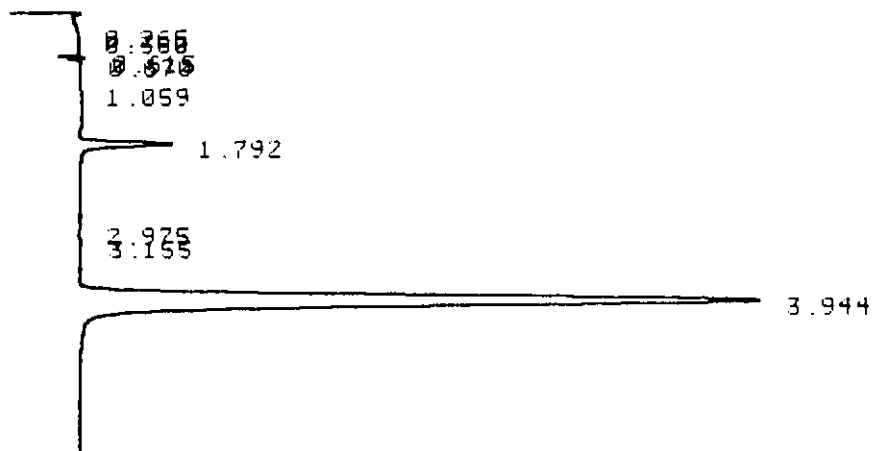
| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.788 | 263198  | UB   | 1R   | 11.644 |
| 3.935 | 3620594 | PB   | 2    | 88.705 |

TOTAL AREA=4322013

MUL FACTOR=1.0000E+00

\* RUN # 212 APR 5, 1997 10:00:17

START



STOP

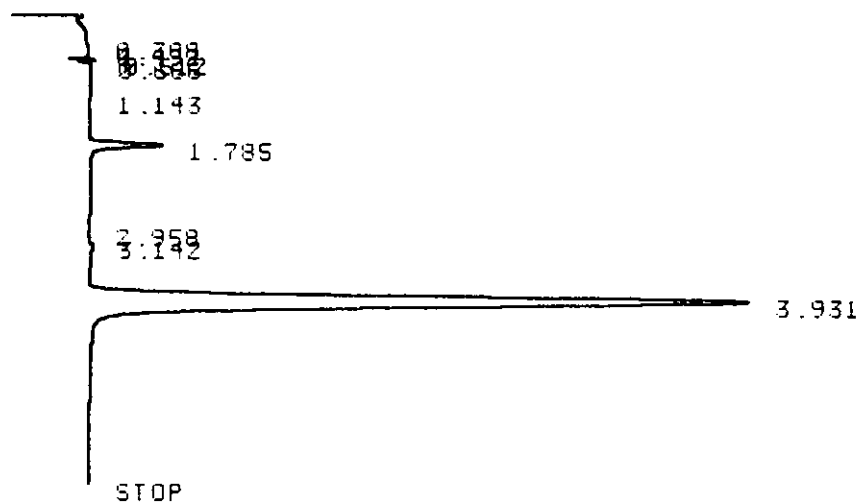
RUN# 212 APR 5, 1997 10:00:17

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.792 | 227265  | UB   | 1R   | 10.054 |
| 3.944 | 3294266 | PB   | 2    | 80.710 |

TOTAL AREA=3855950  
MUL FACTOR=1.0000E+00

\* RUN # 213 APR 5, 1997 10:08:56  
START



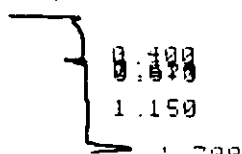
RUN# 213 APR 5, 1997 10:08:56

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.785 | 166422  | PB   | 1R   | 7.363  |
| 3.931 | 3189136 | PB   | 2    | 78.134 |

TOTAL AREA=3622162  
MUL FACTOR=1.0000E+00

\* RUN # 214 APR 5, 1997 10:15:51  
START



3.177  
3.179

3.964

STOP

RUN# 214 APR 5, 1997 10:15:51

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.798 | 138925  | UB   | 1R   | 6.146  |
| 3.964 | 2161390 | PB   | 2    | 52.954 |

TOTAL AREA=2623906

MUL FACTOR=1.0000E+00

\* RUN # 215 APR 5, 1997 10:22:06

START

0.404  
0.628

1.794

3.964  
3.197

3.942

STOP

RUN# 215 APR 5, 1997 10:22:06

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.794 | 74226   | BU   | 1R   | 3.284  |
| 3.942 | 1750519 | PB   | 2    | 42.888 |

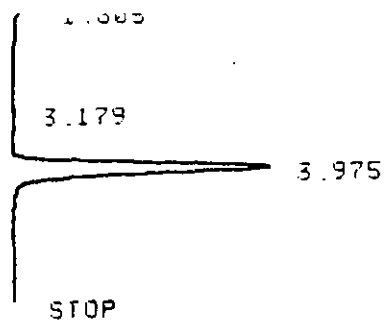
TOTAL AREA=2134242

MUL FACTOR=1.0000E+00

\* RUN # 216 APR 5, 1997 10:27:17

START

0.306  
0.406



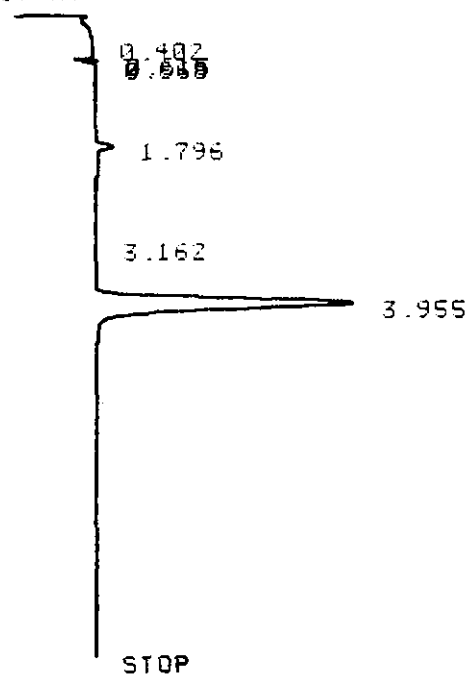
RUN# 216 APR 5, 1997 10:27:17

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.805 | 120698  | UU   | 1R   | 5.340  |
| 3.975 | 1244745 | PB   | 2    | 30.496 |

TOTAL AREA=1575281  
MUL FACTOR=1.0000E+00

\* RUN # 217 APR 5, 1997 10:33:33  
START



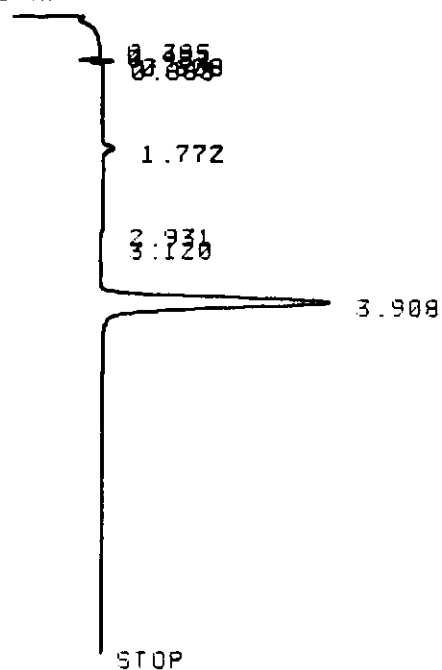
RUN# 217 APR 5, 1997 10:33:33

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.796 | 134504  | UU   | 1R   | 5.951  |
| 3.955 | 1254234 | PB   | 2    | 30.729 |

TOTAL AREA=1685864  
MUL FACTOR=1.0000E+00

\* RUN # 218 APR 5, 1997 10:42:54  
START



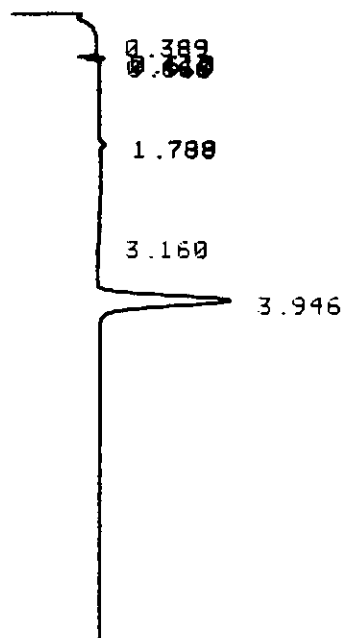
RUN# 218 APR 5, 1997 10:42:54

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.772 | 101212  | UB   | 1R   | 4.478  |
| 3.908 | 1112929 | PB   | 2    | 27.267 |

TOTAL AREA=1657973  
MUL FACTOR=1.0000E+00

\* RUN # 219 APR 5, 1997 10:52:11  
START



STOP

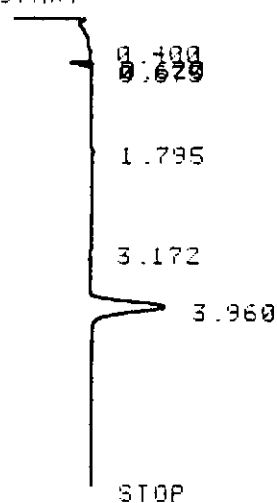
RUN# 219 APR 5, 1997 10:52:11

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.788 | 10997  | BP   | 1R   | .487   |
| 3.946 | 656310 | PB   | 2    | 16.080 |

TOTAL AREA= 963930  
MUL FACTOR=1.0000E+00

\* RUN # 220 APR 5, 1997 11:01:34  
START



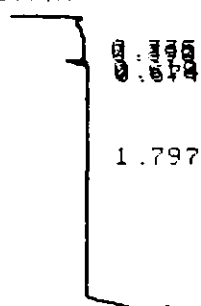
RUN# 220 APR 5, 1997 11:01:34

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.795 | 6474   | BP   | 1R   | .286   |
| 3.960 | 368616 | BU   | 2    | 9.031  |

TOTAL AREA= 547864  
MUL FACTOR=1.0000E+00

\* RUN # 221 APR 5, 1997 11:08:30  
START



3.913  
STOP

RUN# 221 APR 5, 1997 11:08:30

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.797 | 1401   | BP   | 1R   | .062   |
| 3.973 | 218538 | BU   | 2    | 5.354  |

TOTAL AREA= 420523  
MUL FACTOR=1.0000E+00

\* RUN # 222 APR 5, 1997 11:22:17

START; not ready

0.295  
0.692

4.014

STOP

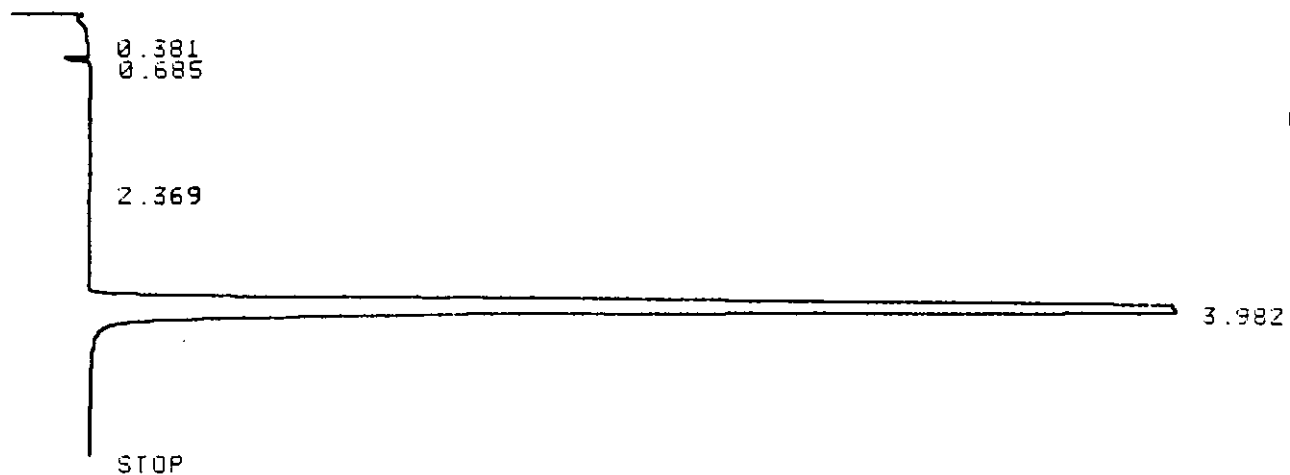
RUN# 222 APR 5, 1997 11:22:17

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 4.014 | 5505498 | BB   | 2    | 134.985 |

TOTAL AREA=5559082  
MUL FACTOR=1.0000E+00

\* RUN # 223      APR 5, 1997 11:28:21  
START



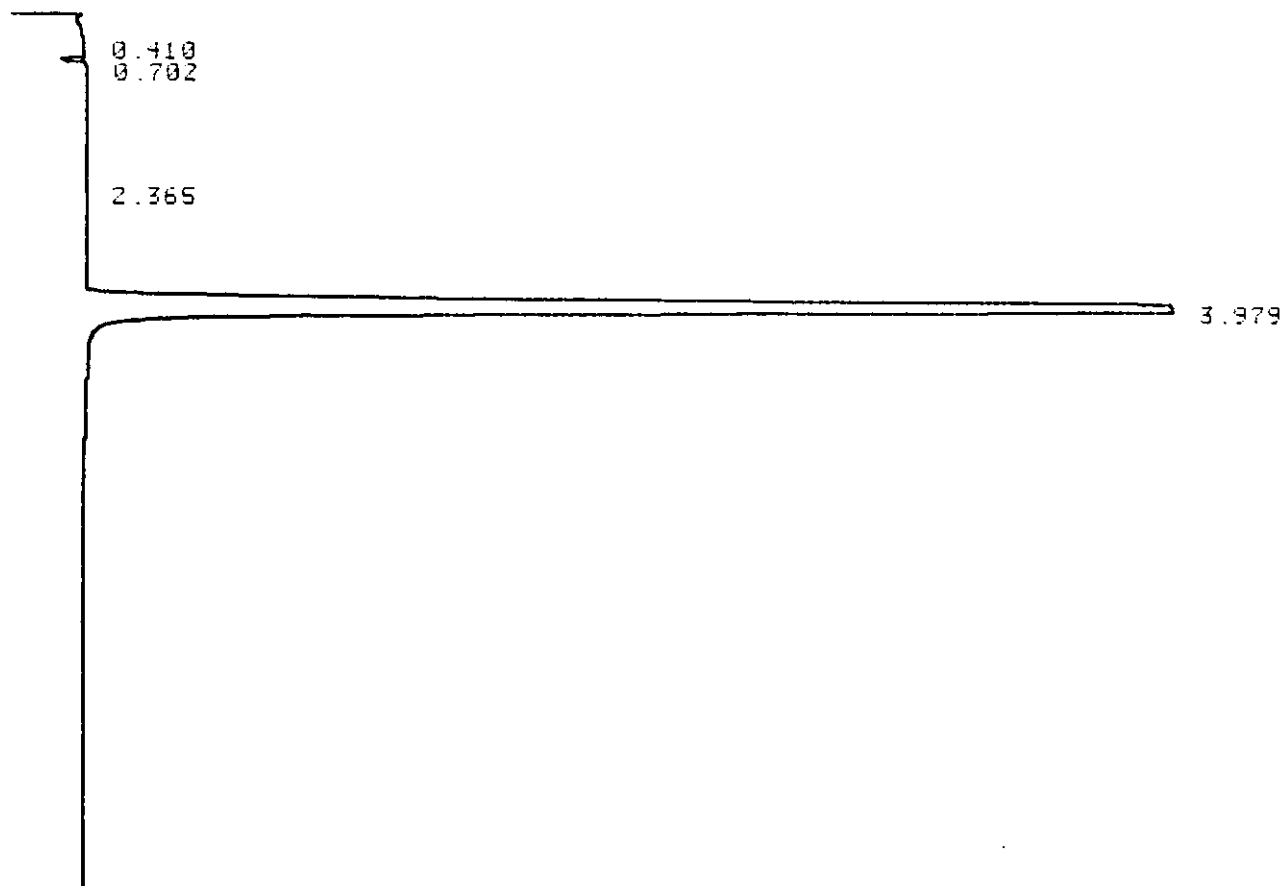
RUN# 223      APR 5, 1997 11:28:21

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.982 | 7807792 | BB   | 2    | 191.291 |

TOTAL AREA=8071360  
MUL FACTOR=1.0000E+00

\* RUN # 224      APR 5, 1997 11:35:13  
START





STOP

RUN# 224 APR 5, 1997 11:35:13

ESTD-AREA

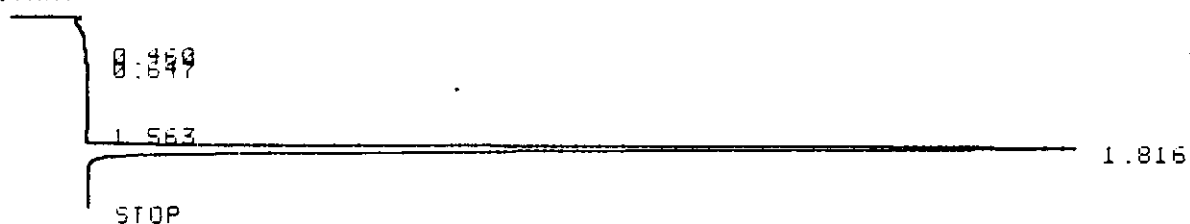
| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.979 | 7622234 | PB   | 2    | 186.745 |

TOTAL AREA=7945962

MUL FACTOR=1.0000E+00

\* RUN # 225 APR 5, 1997 11:54:07

START



RUN# 225 APR 5, 1997 11:54:07

ESTD-AREA

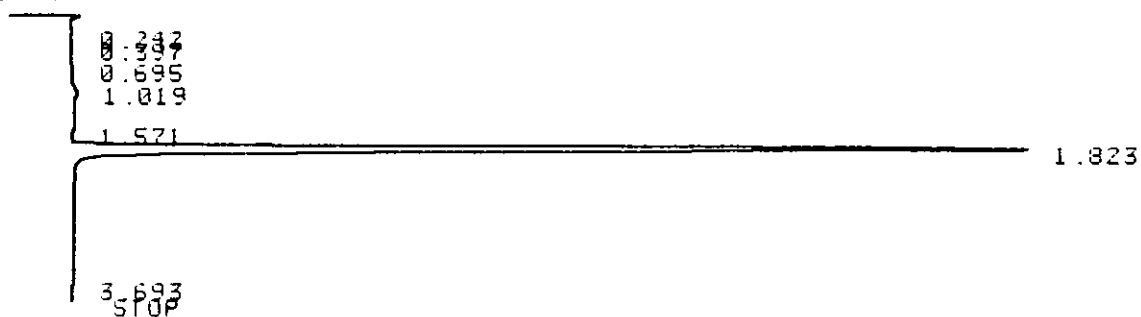
| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.816 | 2155598 | PB   | 1R   | 95.365 |

TOTAL AREA=2264395

MUL FACTOR=1.0000E+00

\* RUN # 226 APR 5, 1997 11:57:06

START



RUN# 226

APR 5, 1997 11:57:06

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.823 | 2078871 | PB   | 1R   | 91.971 |

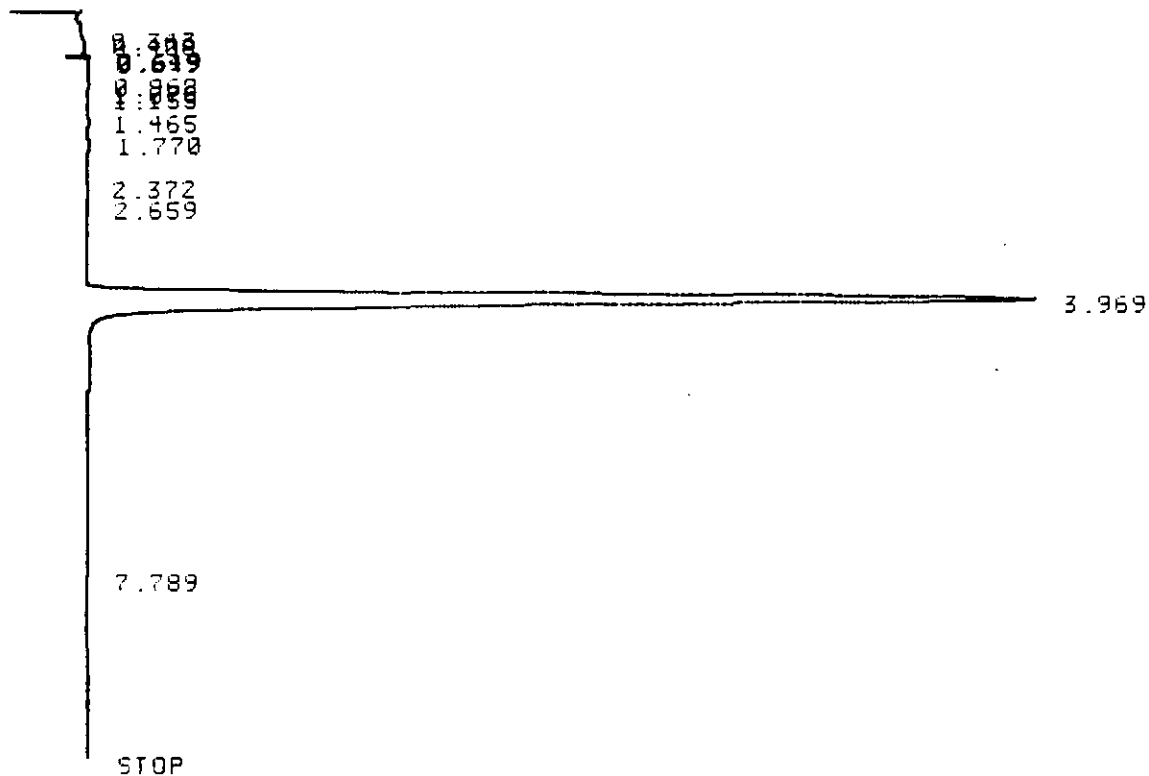
TOTAL AREA=2152133

MUL FACTOR=1.0000E+00

\* RUN # 227

APR 5, 1997 12:10:15

START



RUN# 227

APR 5, 1997 12:10:15

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.770 | 10812   | UU   | 1R   | .478    |
| 3.969 | 4599898 | PB   | 2    | 112.697 |

0405-04

NHMA-1-1

18' Hru 35% Styrene

TOTAL AREA=4817763

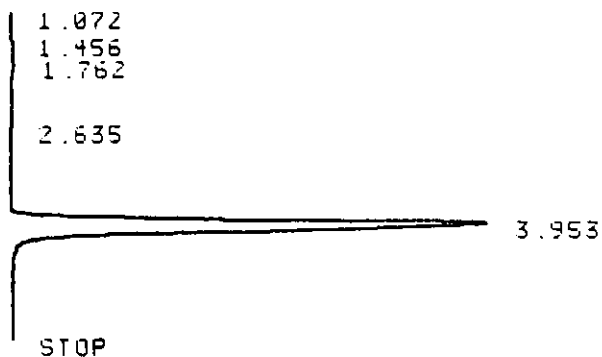
MUL FACTOR=1.0000E+00

\* RUN # 228

APR 5, 1997 12:20:58

START





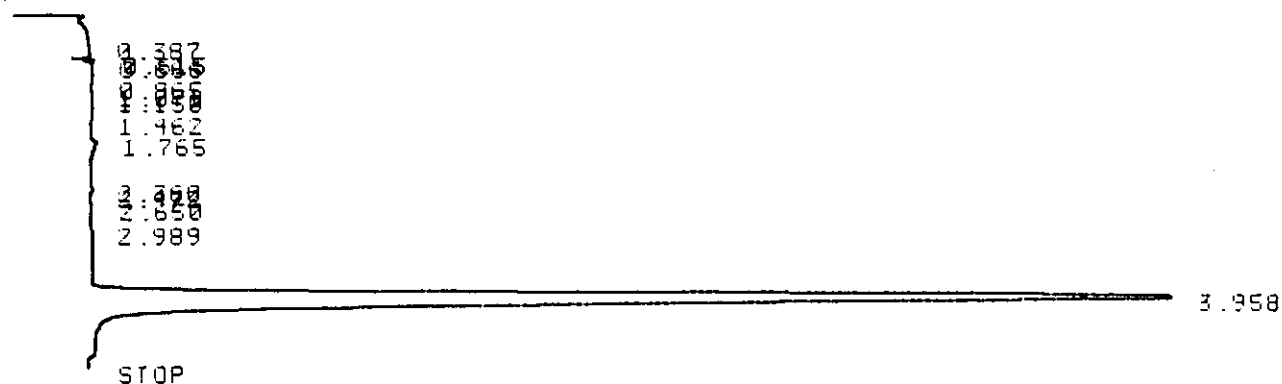
RUN# 228 APR 5, 1997 12:20:58

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.762 | 45446   | UU   | 1R   | 2.011  |
| 3.953 | 2307045 | PB   | 2    | 56.523 |

TOTAL AREA=2591240  
MUL FACTOR=1.0000E+00

\* RUN # 229 APR 5, 1997 12:27:26  
START



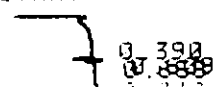
RUN# 229 APR 5, 1997 12:27:26

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.765 | 144222  | UU   | 1R   | 6.380   |
| 3.958 | 5420528 | PB   | 2    | 132.803 |

TOTAL AREA=6265802  
MUL FACTOR=1.0000E+00

\* RUN # 230 APR 5, 1997 12:32:47  
START



1:043  
1.445  
1.750  
2:325  
2:041

3.933

STOP

RUN# 230 APR 5, 1997 12:32:47

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.750 | 20281   | UU   | 1R   | .897    |
| 3.933 | 6585360 | PB   | 2    | 161.341 |

TOTAL AREA=6826278  
MUL FACTOR=1.0000E+00

\* RUN # 231 APR 5, 1997 12:41:54  
START

0:382  
0:582  
1:048  
1.458  
1.758

2.645

3.944

STOP

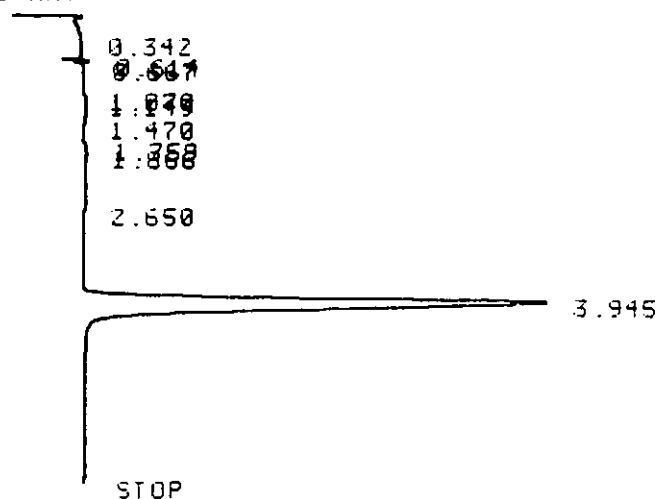
RUN# 231 APR 5, 1997 12:41:54

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.758 | 94883   | UU   | 1R   | 4.198  |
| 3.944 | 3353214 | BB   | 2    | 82.154 |

TOTAL AREA=4022267  
MUL FACTOR=1.0000E+00

• RUN # 232 APR 5, 1997 12:47:27  
START



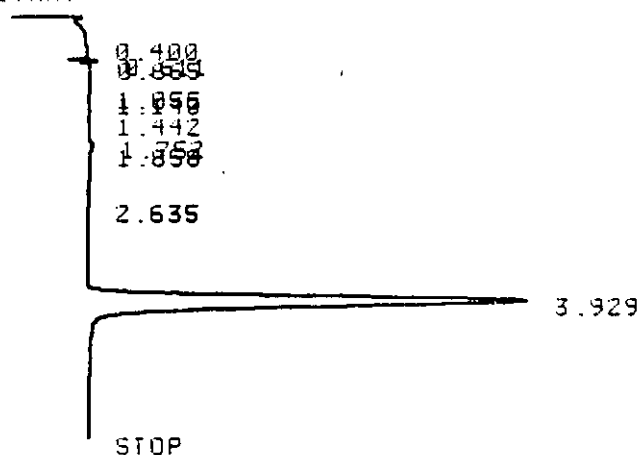
RUN# 232 APR 5, 1997 12:47:27

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.759 | 72444   | UU   | 1R   | 3.205  |
| 3.945 | 2237333 | PB   | 2    | 54.815 |

TOTAL AREA=2786926  
MUL FACTOR=1.0000E+00

\* RUN # 233 APR 5, 1997 12:54:19  
START



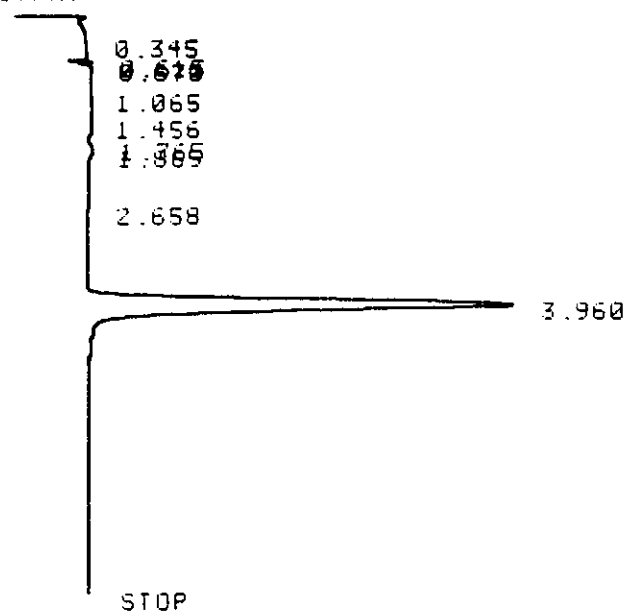
RUN# 233 APR 5, 1997 12:54:19

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.752 | 86338   | UU   | 1R   | 3.820  |
| 3.929 | 2120998 | PB   | 2    | 51.964 |

TOTAL AREA=2880054  
MUL FACTOR=1.0000E+00

\* RUN # 234      APR 5, 1997 13:01:06  
START



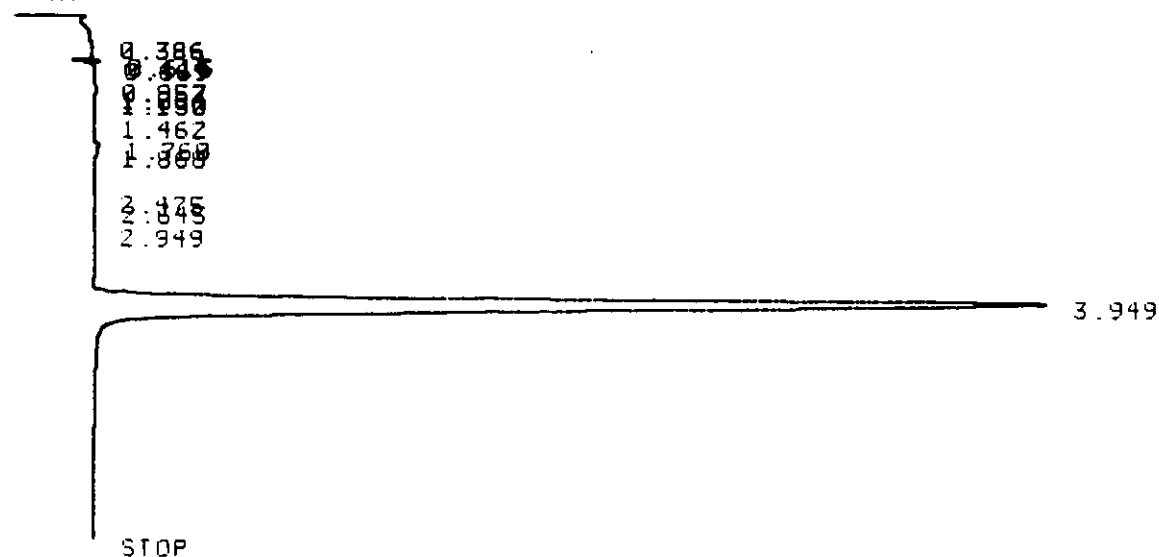
RUN# 234      APR 5, 1997 13:01:06

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.765 | 54356   | UU   | 1R   | 2.405  |
| 3.960 | 2046736 | BB   | 2    | 50.145 |

TOTAL AREA=2451142  
MUL FACTOR=1.0000E+00

\* RUN # 235      APR 5, 1997 13:09:42  
START



RUN# 235 APR 5, 1997 13:09:42

ESTD-AREA

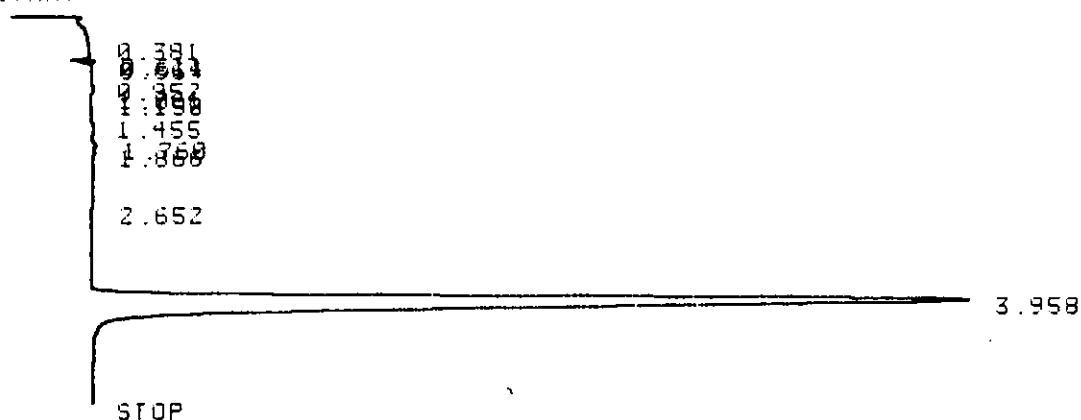
| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.760 | 38858   | UU   | 1R   | 1.719   |
| 3.949 | 4591773 | BB   | 2    | 112.498 |

TOTAL AREA=5073795

MUL FACTOR=1.0000E+00

\* RUN # 236 APR 5, 1997 13:17:18

START



RUN# 236 APR 5, 1997 13:17:18

ESTD-AREA

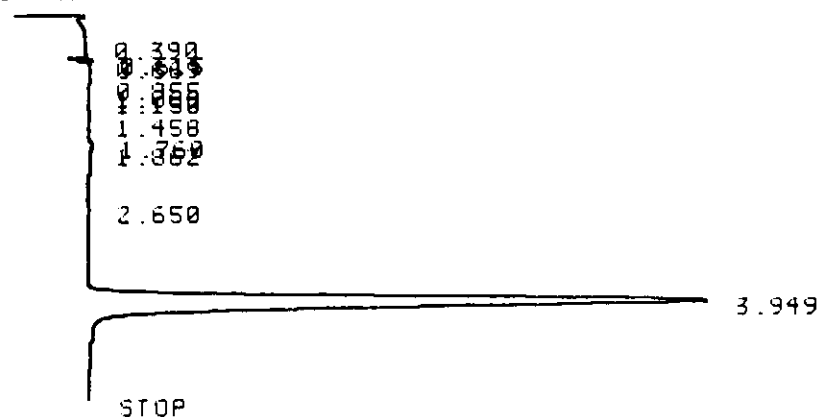
| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.760 | 70625   | UU   | 1R   | 3.124   |
| 3.958 | 4263264 | BB   | 2    | 104.450 |

TOTAL AREA=4967610

MUL FACTOR=1.0000E+00

\* RUN # 237 APR 5, 1997 13:23:04

START



RUN# 237 APR 5, 1997 13:23:04

ESTD-AREA

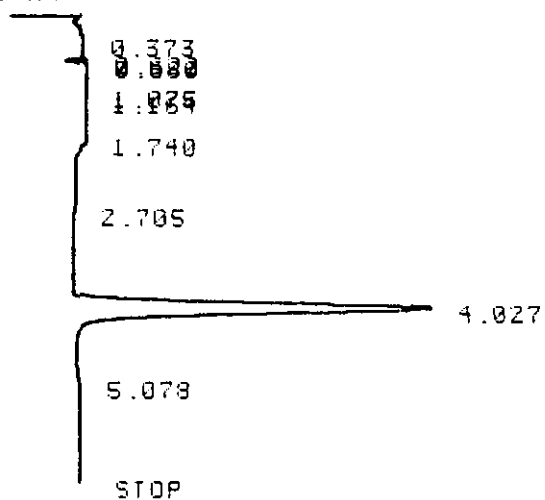
| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.760 | 79553   | UU   | 1R   | 3.519  |
| 3.949 | 3002421 | PB   | 2    | 73.559 |

TOTAL AREA=3652038

MUL FACTOR=1.0000E+00

\* RUN # 238 APR 5, 1997 13:32:14

START



RUN# 238 APR 5, 1997 13:32:14

ESTD-AREA

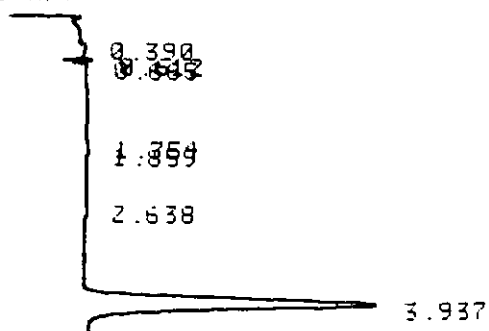
| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.740 | 24483   | UB   | 1R   | 1.083  |
| 4.027 | 1758648 | PB   | 2    | 43.087 |

TOTAL AREA=2040948

MUL FACTOR=1.0000E+00

\* RUN # 239 APR 5, 1997 13:39:04

START





STOP

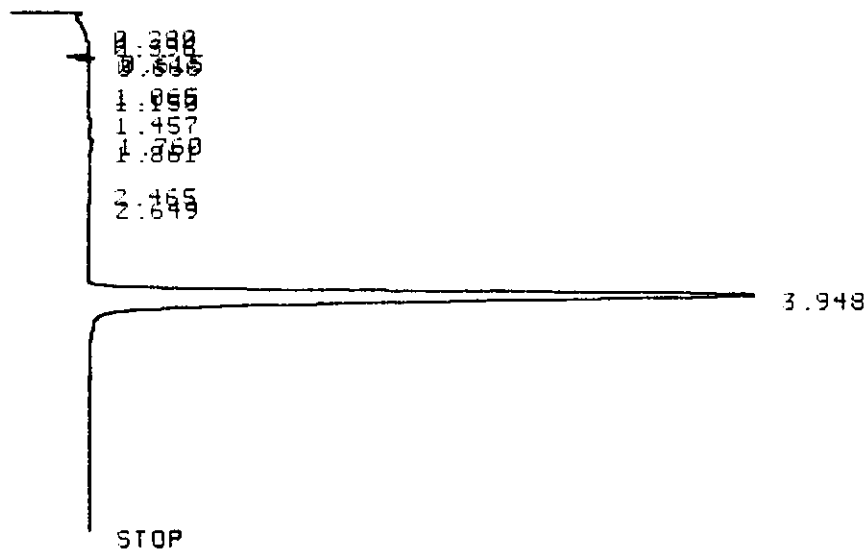
RUN# 239 APR 5, 1997 13:39:04

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.754 | 9356    | PU   | 1R   | .414   |
| 3.937 | 1401757 | PB   | 2    | 34.343 |

TOTAL AREA=1660919  
MUL FACTOR=1.0000E+00

\* RUN # 240 APR 5, 1997 13:48:56  
START



RUN# 240 APR 5, 1997 13:48:56

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.760 | 70765   | UU   | 1R   | 3.131  |
| 3.948 | 3227858 | PB   | 2    | 79.083 |

TOTAL AREA=3897117  
MUL FACTOR=1.0000E+00

\* RUN # 241 APR 5, 1997 13:56:32  
START

0.395  
0.000  
0.000  
1.462  
1.000

2.657

3.965

STOP

RUN# 241 APR 5, 1997 13:56:32

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.765 | 72064   | UU   | 1R   | 3.188  |
| 3.965 | 3545005 | UB   | 2    | 86.853 |

TOTAL AREA=4166373

MUL FACTOR=1.0000E+00

\* RUN # 242 APR 5, 1997 14:01:58

START

0.250  
0.026  
0.022  
1.475  
1.000  
3.005  
2.074

3.982

STOP

RUN# 242 APR 5, 1997 14:01:58

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.778 | 91568   | UU   | 1R   | 4.051   |
| 3.982 | 4736896 | PB   | 2    | 116.054 |

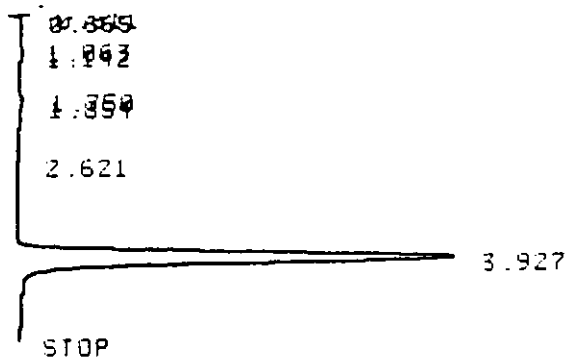
TOTAL AREA=5325344

MUL FACTOR=1.0000E+00

\* RUN # 243 APR 5, 1997 14:17:35

START

B 462



RUN# 243 APR 5, 1997 14:17:35

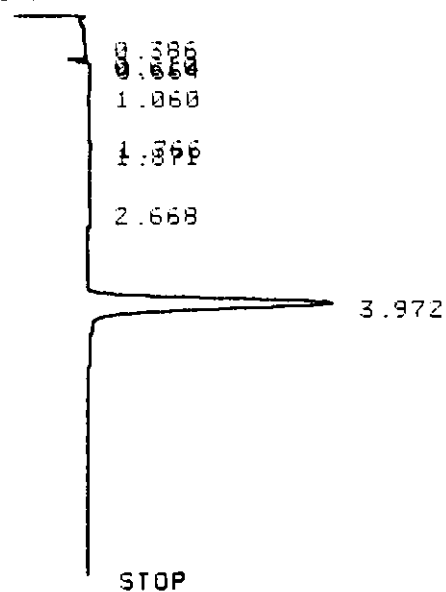
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.750 | 11486   | PU   | 1R   | .508   |
| 3.927 | 2103309 | PB   | 2    | 51.531 |

TOTAL AREA=2394933

MUL FACTOR=1.0000E+00

\* RUN # 244 APR 5, 1997 14:23:18  
START



RUN# 244 APR 5, 1997 14:23:18

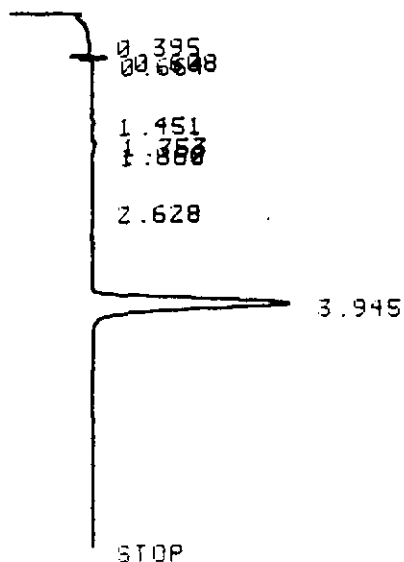
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.766 | 74407   | UU   | 1R   | 3.292  |
| 3.972 | 1196392 | BB   | 2    | 29.312 |

TOTAL AREA=1741861

MUL FACTOR=1.0000E+00

• RUN # 245 APR 5, 1997 14:32:05  
START



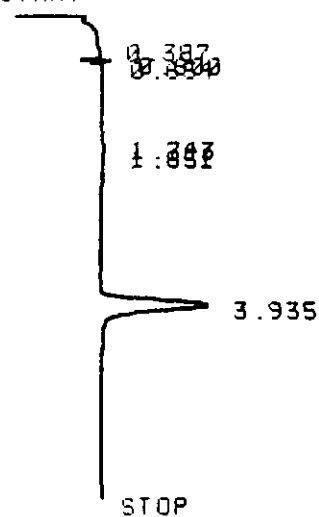
RUN# 245 APR 5, 1997 14:32:05

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.753 | 54486  | UU   | 1R   | 2.410  |
| 3.945 | 965358 | PB   | 2    | 23.651 |

TOTAL AREA=1431396  
MUL FACTOR=1.0000E+00

\* RUN # 246 APR 5, 1997 14:39:52  
START



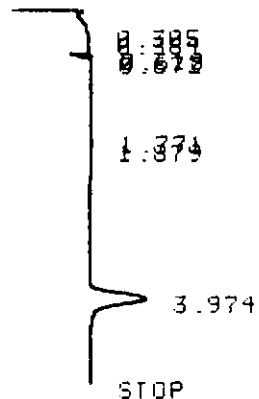
RUN# 246 APR 5, 1997 14:39:52

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.743 | 46255  | UU   | 1R   | 2.046  |
| 3.935 | 520505 | BU   | 2    | 12.752 |

TOTAL AREA= 970614  
MUL FACTOR=1.0000E+00

\* RUN # 247      APR 5, 1997 14:46:55  
START



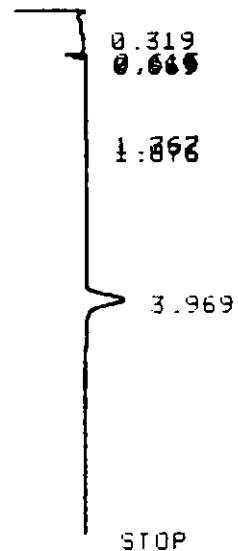
RUN# 247      APR 5, 1997 14:46:55

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.771 | 53518  | UU   | 1R   | 2.368  |
| 3.974 | 278086 | UU   | 2    | 6.813  |

TOTAL AREA= 666386  
MUL FACTOR=1.0000E+00

\* RUN # 248      APR 5, 1997 14:53:44  
START



RUN# 248

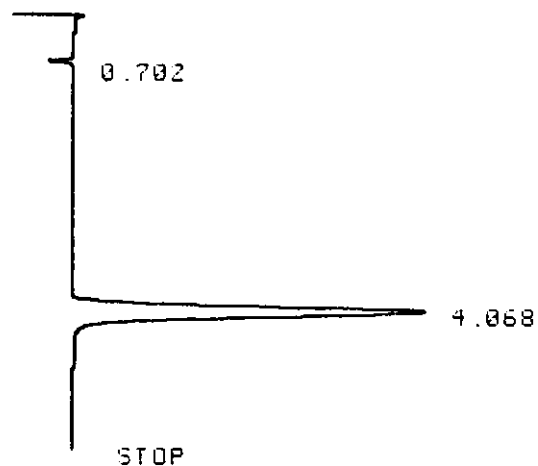
APR 5 1997 14:53:44

## ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.767 | 5866   | PU   | 1R   | .260   |
| 3.969 | 189532 | PU   | 2    | 4.644  |

TOTAL AREA= 407461  
MUL FACTOR=1.0000E+00

\* RUN # 249      APR 5, 1997 15:03:01  
START



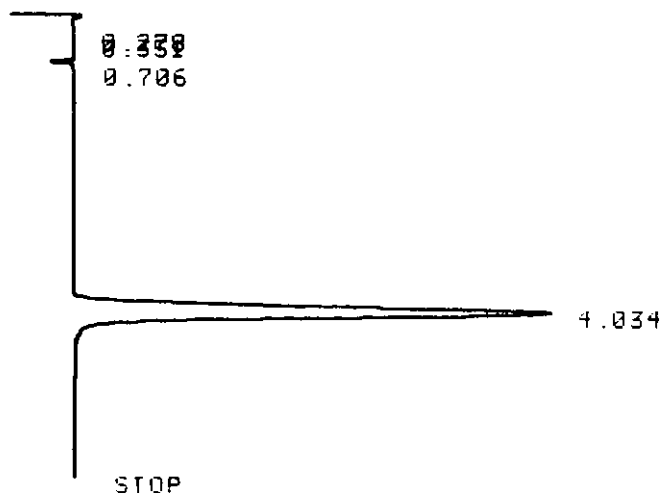
RUN# 249      APR 5, 1997 15:03:01

## ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.068 | 1721858 | PB   | 2    | 42.186 |

TOTAL AREA=1860212  
MUL FACTOR=1.0000E+00

\* RUN # 250      APR 5, 1997 15:10:03  
START



RUN# 250 APR 5, 1997 15:10:03

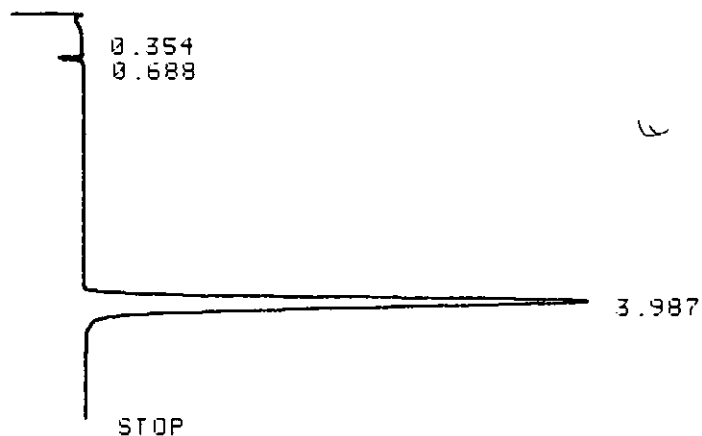
ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT |
|-------|------------|------|--------|
| 4.034 | 2319917 PB | 2    | 56.838 |

TOTAL AREA=2479590

MUL FACTOR=1.0000E+00

\* RUN # 251 APR 5, 1997 15:17:10  
START



RUN# 251 APR 5, 1997 15:17:10

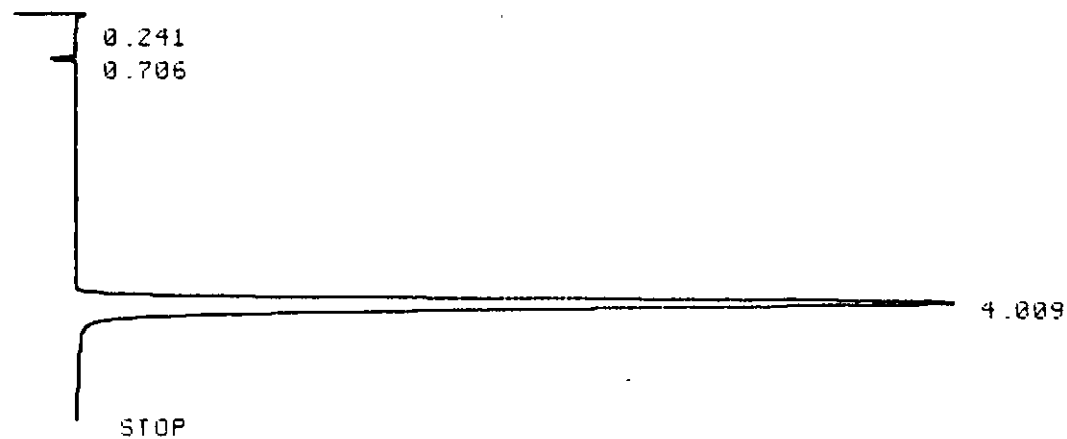
ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT |
|-------|------------|------|--------|
| 3.987 | 2449782 PB | 2    | 60.020 |

TOTAL AREA=2615354

MUL FACTOR=1.0000E+00

\* RUN # 252 APR 5, 1997 15:24:32  
START



RUN# 252 APR 5, 1997 15:24:32

ESTD-AREA

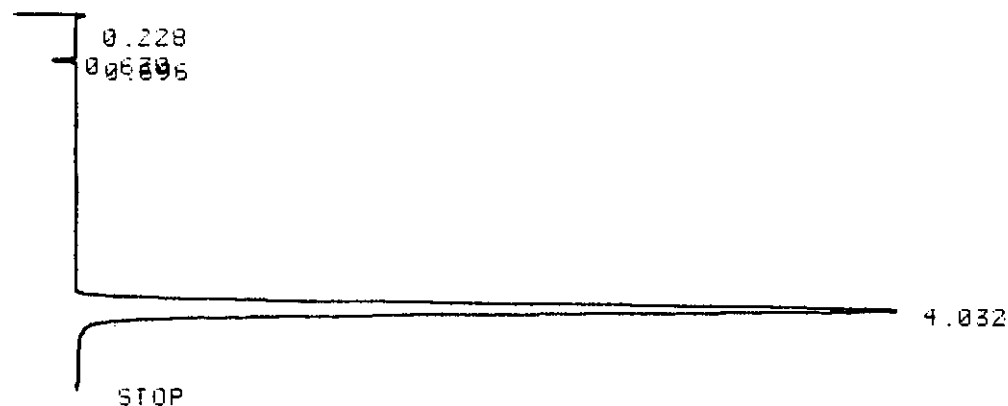
| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 4.009 | 4231165 | PB   | 2    | 103.664 |

TOTAL AREA=4391053

MUL FACTOR=1.0000E+00

• RUN # 253 APR 5, 1997 15:30:52

START



RUN# 253 APR 5, 1997 15:30:52

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.032 | 3971010 | PB   | 2    | 97.290 |

TOTAL AREA=4053266

MUL FACTOR=1.0000E+00

\* PLOT

STOP

\* RUN # 254 APR 5, 1997 15:38:34

START





STOP

RUN# 254 APR 5, 1997 15:38:34

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.782 | 7459795 | PB   | 2    | 182.765 |

TOTAL AREA=7586979

MUL FACTOR=1.0000E+00

\* RUN # 255 APR 5, 1997 15:45:49  
START

0.401  
006803

3.992

STOP

RUN# 255 APR 5, 1997 15:45:49

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.992 | 7499962 | PB   | 2    | 183.749 |

TOTAL AREA=7693440

MUL FACTOR=1.0000E+00

\* RUN # 256 APR 5, 1997 15:52:24  
START

0.323  
006805

2.738

STOP

RUN# 256 APR 5, 1997 15:52:24

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.994 | 7671725 | PB   | 2    | 187.957 |

TOTAL AREA=7859965

MUL FACTOR=1.0000E+00

\* RUN # 257 APR 5, 1997 15:59:31

START

0.351  
0.656

1.468

1.817

3.590  
STOP

RUN# 257 APR 5, 1997 15:59:31

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.817 | 2171690 | PB   | 1R   | 96.077 |

TOTAL AREA=2213589

MUL FACTOR=1.0000E+00

\* RUN # 258 APR 5, 1997 16:04:26

START

0.468  
0.669

1.436

1.793

STOP

RUN# 258 APR 5, 1997 16:04:26

ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT  |
|-------|------------|------|---------|
| 1.793 | 2737030 PB | 1R   | 121.088 |

TOTAL AREA=2908709

MUL FACTOR=1.0000E+00

\* RUN # 259 APR 5, 1997 16:08:37  
START



RUN# 259 APR 5, 1997 16:08:37

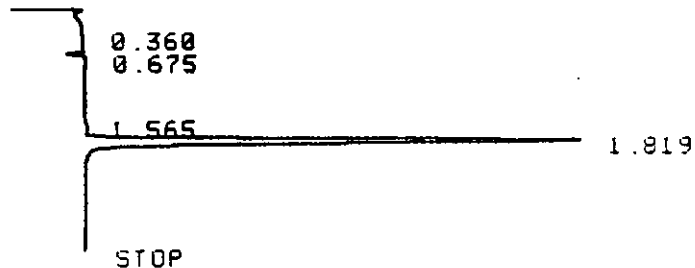
ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT |
|-------|------------|------|--------|
| 1.825 | 1991965 PB | 1R   | 88.126 |

TOTAL AREA=2026990

MUL FACTOR=1.0000E+00

\* RUN # 260 APR 5, 1997 16:14:21  
START



RUN# 260 APR 5, 1997 16:14:21

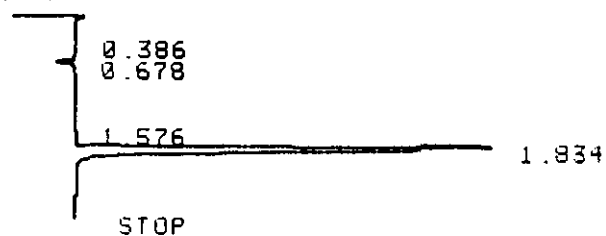
ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT |
|-------|------------|------|--------|
| 1.819 | 1096905 UB | 1R   | 48.528 |

TOTAL AREA=1293511

MUL FACTOR=1.0000E+00

\* RUN # 261      APR 5, 1997 16:17:58  
START



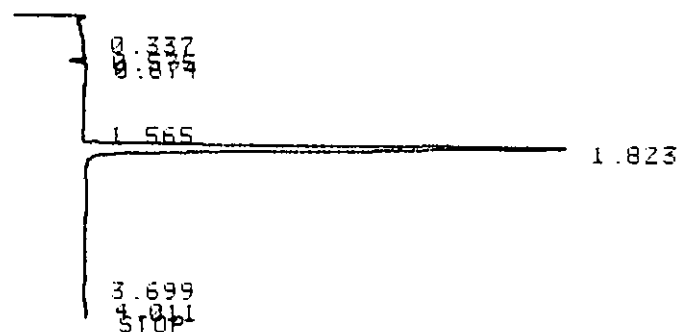
RUN# 261      APR 5, 1997 16:17:58

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.834 | 910589 | PB   | 1R   | 40.285 |

TOTAL AREA=1033036  
MUL FACTOR=1.0000E+00

\* RUN # 262      APR 5, 1997 16:21:23  
START



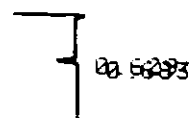
RUN# 262      APR 5, 1997 16:21:23

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.823 | 1062186 | UB   | 1R   | 46.992 |
| 4.011 | 16285   | I UB | 2    | .399   |

TOTAL AREA=1366080  
MUL FACTOR=1.0000E+00

\* RUN # 263      APR 5, 1997 16:26:54  
START



1.485  
 1.825  
 STOP

RUN# 263 APR 5, 1997 16:26:54

| ESTD-AREA | RT    | AREA TYPE | CAL# | AMOUNT |
|-----------|-------|-----------|------|--------|
|           | 1.825 | 458434 UB | 1R   | 20.281 |

TOTAL AREA= 549609  
 MUL FACTOR=1.0000E+00

\* RUN # 264 APR 5, 1997 16:31:18  
 START

0.378  
 0.625  
 1.815  
 STOP

RUN# 264 APR 5, 1997 16:31:18

| ESTD-AREA | RT    | AREA TYPE | CAL# | AMOUNT |
|-----------|-------|-----------|------|--------|
|           | 1.815 | 472153 UB | 1R   | 20.888 |

TOTAL AREA= 642020  
 MUL FACTOR=1.0000E+00

\*

NMMA

① 8-

040547 CEM Loc

Air @ 800 psi @ 0700

1st Span @ 914 ppm jumped up for reason unknown, reran Out span  
(Am calcs) as Out 914 ppm-2

Rerun Out @ Cal file: Cal file = 0405A.cac

Calibrations rough: Outlet monitor spanning OK yet signal → DAS  
results in high bias

Inlet non-linear, had been off overnight (OE)

On line w/ 0405-1 @ 0831 28' Hull Gel coat = NMMA-8-2

Spray start 0845

Jump @ 0904 (small) due to bprocess. ady.

Boat flipped @ ~0903 Spray back on @ 0905

Gel coat used = ~~342.0 - 280.5~~ = 61.5# = 21.525 #/styrene

Inlet THC drift, probably due to being off overnight

|              |     |     |     |     |                     |
|--------------|-----|-----|-----|-----|---------------------|
| Flow @ 0946: | H 8 | .16 | V-8 | .16 | T <sub>5</sub> = 64 |
|              | 7   | .17 | 7   | .18 | P <sub>6</sub> = 30 |
|              | 6   | .18 | 6   | .19 | Q = 2968.4          |
|              | 5   | .18 | 5   | .18 | RH = 36% @ 68°      |
|              | 4   | .18 | 4   | .18 |                     |
|              | 3   | .17 | 3   | .18 |                     |
|              | 2   | .16 | 2   | .18 |                     |
|              | 1   | .14 | 1   | .17 |                     |

\* 1004-1011 - lost data due to DAS plug pulling. Restart @ 0945 0405-1b

No averages for 0405-1

Inlet THC not passing QC - Performed new cal prior to 0405-2

Start Run 0405-2 = NMMA-1-1 = 18' Hull, 35% Resin

5/11/07 1207

040597 cont

(2) 12

Run { 0405-2  
Nmma-1-B1

1207- Skin coat start; ~1210 done w/1/2 skin

#12 <sup>22</sup> - Boat rotated

1224- Restart Skin

1229- Skin coat done, gelling

1259 Lamination started

|                     |     |     |     |     |
|---------------------|-----|-----|-----|-----|
| Flow @ 1314         | H 8 | .16 | V 8 | .16 |
| TS: 68°F            | 7   | .17 | 7   | .18 |
| P <sub>0</sub> = 30 | 6   | .18 | 6   | .18 |
| Static: -3.2        | 5   | .19 | 5   | .19 |
| Q: 2936.0           | 4   | .18 | 4   | .19 |
| RH = 30% @ 68°      | 3   | .18 | 3   | .19 |
|                     | 2   | .16 | 2   | .18 |
|                     | 1   | .15 | 1   | .17 |

1325- Curing mold enough to rotate

1347- Restart second side of mold

1400 Drum tilted to get all of the resin

Drum Tilted → ~~Final Resin = 76.44 Initial = 224.6 Net = 148.2 51.9# Styrene~~

Laminate done ~ 1402 (spraying done, still rolling out)

Final wt = 74.97 Initial = 224.6 Net = 149.6 52.4# Styrene

0405-01  
AM CALS

RADIAN CORPORATION  
Environmental Measurement and Analysis Department  
Continuous Emissions Monitoring Data  
Marine  
Arlington, WA  
Performed for: NMMA  
Date Printed = 04-05-1997 Current Time = 07:40:27  
File Name = c:\cesdata\040597.PRM Calibration File: c:\cesdata\0404c.CAL

Test #: 0 ppm

| 04-05-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 07:40:29           | -0.0         | -0.1         | 0.2           | 58.1      | 216.4       |
| 07:40:30           | -0.0         | -0.1         | 0.2           | 58.1      | 216.4       |
| 07:40:33           | -0.0         | -0.0         | 0.2           | 58.1      | 216.5       |
| 07:40:43           | -0.0         | -0.1         | 0.2           | 58.1      | 216.4       |
| 07:40:53           | -0.0         | -0.1         | 0.2           | 58.0      | 216.5       |
| 07:41:03           | -0.0         | 0.1          | 0.2           | 58.0      | 216.5       |
| 07:41:13           | -0.0         | -0.0         | 0.2           | 58.0      | 216.5       |
| 07:41:23           | -0.0         | -0.1         | 0.2           | 58.0      | 216.5       |
| 07:41:33           | -0.0         | -0.1         | 0.2           | 58.0      | 216.4       |
| 07:41:43           | -0.0         | -0.1         | 0.2           | 58.0      | 216.5       |
| 07:41:53           | -0.0         | -0.1         | 0.2           | 58.1      | 216.5       |
| 07:42:03           | -0.0         | -0.1         | 0.2           | 58.4      | 216.5       |
| 07:42:13           | -0.0         | -0.1         | 0.2           | 58.6      | 216.6       |
| 07:42:23           | -0.0         | -0.2         | 0.2           | 58.4      | 215.5       |
| 07:42:33           | -0.0         | -0.1         | 0.2           | 57.7      | 215.1       |
| 07:42:43           | -0.0         | -0.2         | 0.2           | 57.2      | 214.9       |
| 07:42:53           | 0.0          | -0.2         | 0.2           | 56.7      | 215.0       |
| 07:43:03           | -0.0         | -0.2         | 0.2           | 55.9      | 215.0       |
| 07:43:13           | -0.0         | -0.2         | 0.2           | 55.5      | 215.0       |
| 07:43:23           | -0.0         | -0.2         | 0.2           | 55.0      | 214.9       |
| 07:43:33           | -0.0         | -0.2         | 0.2           | 54.6      | 215.0       |
| 07:43:43           | -0.0         | -0.2         | 0.2           | 54.3      | 215.0       |
| 07:43:53           | 0.0          | -0.2         | 0.2           | 54.1      | 203.5       |
| 07:44:03           | 0.0          | -0.1         | 0.2           | 53.8      | 112.3       |
| 07:44:13           | 0.0          | -0.1         | 0.2           | 53.3      | -1411.6     |
| Avg =              | -0.0         | -0.1         | 0.2           | 56.9      | 146.1       |



## Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-05-1997 Current Time = 07:52:30

File Name = c:\cendata\040597.PRM Calibration File: c:\cendata\0405a.CAL

Test #: Out 914ppm

| 04-05-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 07:52:32           | 922.9        | 92.6         | 0.3           | 58.8      | 2603.1      |
| 07:52:33           | 922.9        | 92.6         | 0.3           | 58.8      | 2603.1      |
| 07:52:42           | 932.0        | 92.0         | 0.3           | 54.9      | 2603.9      |
| 07:52:52           | 936.5        | 90.9         | 0.2           | 52.1      | 2539.0      |
| 07:53:02           | 938.2        | 90.9         | 0.2           | 51.3      | 2380.9      |
| 07:53:12           | 936.6        | 90.9         | 0.2           | 51.7      | 2436.2      |
| 07:53:22           | 951.7        | 89.1         | 0.2           | 49.0      | 1207.9      |
| Avg                | 934.7        | 91.3         | 0.2           | 53.8      | 2339.2      |

void

## Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-05-1997 Current Time = 07:55:59

File Name = c:\cemdata\040597.PRM Calibration File:c:\cemdata\0405a.CAL

Test #: Out 914ppm-2

| 04-05-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 07:56:02           | 925.2        | 93.1         | 0.3           | 54.0      | 2603.8      |
| 07:56:03           | 925.2        | 93.1         | 0.3           | 54.0      | 2603.8      |
| 07:56:12           | 923.0        | 93.4         | 0.2           | 53.1      | 2603.9      |
| 07:56:22           | 922.2        | 93.6         | 0.3           | 54.8      | 2603.6      |
| 07:56:32           | 923.8        | 93.6         | 0.3           | 55.1      | 2601.8      |
| 07:56:42           | 921.5        | 93.5         | 0.2           | 53.5      | 2603.8      |
| 07:56:52           | 922.6        | 93.0         | 0.2           | 52.4      | 2604.0      |
| 07:57:02           | 925.2        | 93.3         | 0.3           | 54.5      | 2603.6      |
| 07:57:12           | 924.8        | 93.0         | 0.3           | 53.7      | 2603.6      |
| 07:57:22           | 922.5        | 93.0         | 0.2           | 51.7      | 2604.2      |
| 07:57:32           | 924.5        | 92.7         | 0.2           | 52.1      | 2604.1      |
| 07:57:42           | 926.8        | 92.2         | 0.2           | 52.5      | 2604.1      |
| Avg =              | 924.0        | 93.1         | 0.3           | 53.5      | 2603.7      |

## Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-05-1997 Current Time = 08:03:34

File Name = c:\cemdata\040597.PRM Calibration File: c:\cemdata\0405a.CAL

Test #: Out 297ppm

| 04-05-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 08:03:37           | 311.8        | 28.9         | 0.2           | 46.2      | 505.3       |
| 08:03:42           | 311.1        | 28.9         | 0.2           | 46.2      | -1543.8     |
| 08:03:52           | 311.1        | 28.7         | 0.2           | 46.2      | -1577.1     |
| 08:04:02           | 312.1        | 29.0         | 0.2           | 46.4      | -1577.3     |
| 08:04:12           | 311.2        | 29.0         | 0.2           | 46.4      | -1577.2     |
| 08:04:22           | 311.1        | 28.9         | 0.2           | 46.5      | -1577.2     |
| 08:04:32           | 311.0        | 28.6         | 0.2           | 46.6      | -1577.5     |
| 08:04:42           | 311.0        | 28.8         | 0.2           | 46.4      | -1576.5     |
| 08:04:52           | 310.4        | 28.5         | 0.2           | 46.2      | -1576.6     |
| 08:05:02           | 311.0        | 28.7         | 0.2           | 46.2      | -1576.8     |
| 08:05:12           | 310.2        | 28.9         | 0.2           | 46.1      | -1576.3     |
| 08:05:22           | 309.9        | 28.6         | 0.2           | 46.2      | -1576.6     |
| 08:05:32           | 310.0        | 28.6         | 0.2           | 46.6      | -1576.2     |
| Avg =              | 310.9        | 28.8         | 0.2           | 46.3      | -1414.2     |

## Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-05-1997 Current Time = 08:09:07

File Name = c:\ce\data\040597.PRM Calibration File: c:\ce\data\0405a.CAL

Test #: Out 600ppm

| 04-05-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 08:09:10           | 630.4        | 59.7         | 0.2           | 52.8      | -1583.5     |
| 08:09:12           | 630.4        | 59.7         | 0.2           | 52.8      | -1583.5     |
| 08:09:22           | 630.2        | 59.6         | 0.2           | 53.3      | -1577.1     |
| 08:09:32           | 628.8        | 59.6         | 0.2           | 53.3      | -1579.2     |
| 08:09:42           | 627.9        | 59.6         | 0.2           | 53.4      | -1579.0     |
| 08:09:52           | 629.4        | 59.6         | 0.2           | 53.5      | -1578.8     |
| 08:10:02           | 628.5        | 59.5         | 0.2           | 53.6      | -1578.0     |
| 08:10:12           | 628.2        | 60.1         | 0.2           | 53.7      | -1578.8     |
| 08:10:22           | 628.0        | 60.1         | 0.2           | 53.9      | -1579.0     |
| 08:10:32           | 629.4        | 59.9         | 0.2           | 53.9      | -1574.6     |
| 08:10:42           | 629.1        | 60.0         | 0.2           | 53.9      | -1578.6     |
| 08:10:52           | 627.9        | 60.0         | 0.2           | 54.0      | -1578.4     |
| 08:11:02           | 628.8        | 60.2         | 0.2           | 54.1      | -1579.0     |
| 08:11:12           | 629.6        | 60.1         | 0.2           | 54.2      | -1578.8     |
| 08:11:22           | 628.4        | 60.0         | 0.2           | 54.3      | -1578.5     |
| Avg =              | 629.0        | 59.8         | 0.2           | 53.6      | -1579.0     |

## Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-05-1997 Current Time = 08:12:40

File Name = c:\cemdata\040597.PRM Calibration File: c:\cemdata\0405a.CAL

Test #: In 45.5

| 04-05-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 08:12:44           | 43.4         | 44.6         | 0.2           | 54.4      | -1581.5     |
| 08:12:52           | 42.4         | 44.1         | 0.2           | 54.6      | -1588.8     |
| 08:13:02           | 43.0         | 43.8         | 0.2           | 54.5      | -1579.3     |
| 08:13:12           | 43.2         | 43.8         | 0.2           | 54.6      | -1582.3     |
| 08:13:22           | 42.4         | 43.8         | 0.2           | 54.7      | -1582.7     |
| 08:13:32           | 42.7         | 43.7         | 0.2           | 54.8      | -1583.0     |
| 08:13:42           | 43.5         | 43.5         | 0.2           | 54.8      | -1583.3     |
| 08:13:52           | 43.5         | 43.7         | 0.2           | 54.8      | -1582.5     |
| 08:14:02           | 43.5         | 43.6         | 0.2           | 54.9      | -1582.6     |
| 08:14:12           | 43.2         | 43.6         | 0.2           | 55.0      | -1582.9     |
| 08:14:22           | 43.5         | 43.9         | 0.2           | 55.1      | -1582.5     |
| 08:14:32           | 43.5         | 43.9         | 0.2           | 55.1      | -1582.3     |
| 08:14:42           | 43.4         | 44.2         | 0.2           | 55.2      | -1583.1     |
| 08:14:52           | 43.4         | 44.4         | 0.2           | 55.4      | -1583.0     |
| 08:15:02           | 43.5         | 44.4         | 0.2           | 55.5      | -1583.1     |
| 08:15:12           | 43.5         | 44.5         | 0.2           | 55.5      | -1583.0     |
| 08:15:22           | 43.4         | 44.4         | 0.2           | 55.4      | -1582.5     |
| 08:15:32           | 43.5         | 44.6         | 0.2           | 55.5      | -1583.7     |
| 08:15:42           | 43.5         | 44.7         | 0.2           | 55.4      | -1582.7     |
| 08:15:52           | 43.5         | 44.7         | 0.2           | 55.4      | -1583.4     |
| Avg =              | 43.3         | 44.1         | 0.2           | 55.0      | -1582.9     |

## Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-05-1997 Current Time = 08:21:14

File Name = c:\cendata\040597.PRN Calibration File: c:\cendata\0405a.CAL

Test #: In 15.0ppm

| 04-05-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 08:21:17           | 13.4         | 14.7         | 0.2           | 56.0      | -1593.6     |
| 08:21:22           | 13.6         | 14.5         | 0.2           | 56.3      | -1614.6     |
| 08:21:32           | 13.5         | 14.8         | 0.2           | 56.4      | -1551.3     |
| 08:21:42           | 13.5         | 15.1         | 0.2           | 56.6      | -1581.7     |
| 08:21:52           | 13.5         | 15.0         | 0.2           | 56.6      | -1576.0     |
| 08:22:02           | 13.5         | 15.0         | 0.2           | 56.9      | -1581.0     |
| 08:22:12           | 13.5         | 14.8         | 0.2           | 57.0      | -1581.5     |
| 08:22:22           | 13.4         | 14.8         | 0.2           | 56.9      | -1581.7     |
| 08:22:32           | 13.5         | 14.7         | 0.2           | 57.0      | -1581.7     |
| 08:22:42           | 13.5         | 14.6         | 0.2           | 57.1      | -1581.7     |
| 08:22:52           | 13.5         | 14.6         | 0.2           | 57.2      | -1580.7     |
| Avg =              | 13.5         | 14.8         | 0.2           | 56.7      | -1585.1     |

## Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-05-1997 Current Time = 08:26:23

File Name = c:\cemdata\040597.PRM Calibration File: c:\cemdata\0405a.CAL

Test #: In 30.4ppm

| 04-05-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 08:26:28           | 29.0         | 32.1         | 0.2           | 56.9      | -1591.4     |
| 08:26:29           | 29.0         | 32.1         | 0.2           | 56.9      | -1591.4     |
| 08:26:30           | 29.0         | 32.1         | 0.2           | 56.9      | -1591.4     |
| 08:26:32           | 29.0         | 32.1         | 0.2           | 56.9      | -1591.4     |
| 08:26:33           | 29.0         | 32.1         | 0.2           | 56.9      | -1591.4     |
| 08:26:35           | 29.0         | 32.1         | 0.2           | 56.9      | -1591.4     |
| 08:26:36           | 29.0         | 32.1         | 0.2           | 56.9      | -1591.4     |
| 08:26:38           | 29.0         | 32.1         | 0.2           | 56.9      | -1591.4     |
| 08:26:39           | 29.0         | 32.1         | 0.2           | 56.9      | -1591.4     |
| 08:26:40           | 29.0         | 32.1         | 0.2           | 56.9      | -1591.4     |
| 08:26:42           | 29.0         | 32.1         | 0.2           | 56.9      | -1591.4     |
| 08:26:52           | 28.9         | 32.5         | 0.2           | 57.5      | -1584.9     |
| 08:27:02           | 29.0         | 32.0         | 0.2           | 57.5      | -1577.7     |
| 08:27:12           | 28.9         | 30.9         | 0.2           | 57.4      | -1581.8     |
| 08:27:22           | 28.9         | 30.8         | 0.2           | 57.4      | -1582.2     |
| 08:27:32           | 29.0         | 30.8         | 0.2           | 57.4      | -1582.2     |
| 08:27:42           | 28.5         | 30.7         | 0.2           | 57.4      | -1581.9     |
| Avg =              | 28.9         | 31.8         | 0.2           | 57.1      | -1588.0     |

RADIAN CORPORATION  
Environmental Measurement and Analysis Department  
Continuous Emissions Monitoring Data  
US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-05-1997 Current Time = 08:39:31

File Name = c:\cendata\040597.PRW Calibration File: c:\cendata\0405a.CAL

0405 - 1

0405 - 1b

NMMA-2 plus

Post test Calc

Test #: 0405-1

| 04-05-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 08:39:52           | 2.2          | 0.4          | 0.2           | 63.2      | 342.0       |
| 08:40:52           | 2.3          | 0.4          | 0.2           | 63.4      | 342.0       |
| 08:41:52           | 2.2          | 0.7          | 0.2           | 63.5      | 342.1       |
| 08:42:52           | 2.2          | 0.7          | 0.2           | 63.5      | 342.2       |
| 08:43:52           | 2.2          | 0.8          | 0.2           | 63.7      | 342.2       |
| 08:44:52           | 2.2          | 0.8          | 0.2           | 63.8      | 342.2       |
| 08:45:52           | 13.9         | 0.5          | 0.2           | 63.9      | 341.8       |
| 08:46:52           | 113.1        | 0.6          | 0.2           | 63.6      | 339.0       |
| 08:47:52           | 177.1        | 0.5          | 0.2           | 63.6      | 336.8       |
| 08:48:52           | 269.1        | 0.5          | 0.2           | 63.6      | 334.2       |
| 08:49:52           | 253.0        | 0.6          | 0.2           | 63.6      | 332.1       |
| 08:50:52           | 345.0        | 0.3          | 0.2           | 63.5      | 329.9       |
| 08:51:52           | 294.4        | 0.2          | 0.2           | 63.7      | 328.0       |
| 08:52:52           | 308.2        | 0.6          | 0.2           | 63.7      | 326.6       |
| 08:53:52           | 356.3        | 0.7          | 0.2           | 63.6      | 324.3       |
| 08:55:03           | 421.4        | 0.9          | 0.1           | 63.6      | 322.1       |
| 08:56:09           | 392.2        | 0.7          | 0.1           | 63.5      | 319.7       |
| 08:56:52           | 471.5        | -0.0         | 0.1           | 63.5      | 317.3       |
| 08:57:52           | 498.9        | -0.2         | 0.1           | 63.6      | 315.5       |
| 08:58:52           | 509.4        | 0.2          | 0.1           | 63.6      | 314.0       |
| 08:59:52           | 446.2        | 0.0          | 0.1           | 63.6      | 312.1       |
| 09:00:52           | 491.9        | -0.0         | 0.1           | 63.4      | 310.4       |
| 09:01:52           | 396.4        | -0.3         | 0.1           | 62.6      | 309.0       |
| 09:02:52           | 408.4        | -0.4         | 0.1           | 63.0      | 307.7       |
| 09:03:52           | 494.1        | -0.2         | 0.1           | 63.3      | 306.3       |
| 09:04:52           | 460.7        | 0.0          | 0.1           | 63.7      | 305.5       |
| 09:05:52           | 417.3        | -0.2         | 0.1           | 63.9      | 305.4       |
| 09:06:52           | 402.0        | -1.1         | 0.1           | 64.1      | 304.2       |
| 09:07:52           | 476.8        | -1.3         | 0.1           | 64.2      | 301.6       |
| 09:08:52           | 556.4        | -0.1         | 0.1           | 64.1      | 299.4       |
| 09:09:52           | 602.4        | 0.2          | 0.1           | 64.2      | 297.7       |
| 09:10:52           | 596.4        | 0.1          | 0.1           | 64.1      | 295.1       |
| 09:11:52           | 670.5        | 0.1          | 0.1           | 64.2      | 293.4       |
| 09:12:52           | 666.7        | -0.2         | 0.1           | 64.2      | 292.6       |
| 09:13:52           | 577.4        | -0.1         | 0.1           | 64.1      | 291.5       |
| 09:14:52           | 508.8        | -0.1         | 0.1           | 64.1      | 290.1       |
| 09:15:52           | 704.0        | -0.0         | 0.1           | 64.2      | 287.5       |
| 09:16:52           | 758.5        | -0.0         | 0.1           | 64.2      | 285.7       |
| 09:17:52           | 815.8        | 0.4          | 0.1           | 64.3      | 283.5       |
| 09:18:52           | 789.5        | 0.7          | 0.1           | 64.4      | 281.5       |



Test #: 0405-1

| 04-05-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 09:19:52           | 878.5        | 0.8          | 0.1           | 64.4      | 280.4       |
| 09:20:52           | 764.5        | 0.5          | 0.1           | 64.4      | 280.5       |
| 09:21:52           | 722.2        | 0.8          | 0.1           | 64.5      | 280.5       |
| 09:22:52           | 669.5        | 0.4          | 0.1           | 64.6      | 280.5       |
| 09:23:52           | 548.8        | 0.2          | 0.1           | 64.7      | 280.4       |
| 09:24:52           | 525.3        | 0.2          | 0.1           | 64.8      | 280.5       |
| 09:25:52           | 457.0        | -0.0         | 0.1           | 64.4      | 280.4       |
| 09:26:52           | 471.3        | -0.1         | 0.1           | 64.5      | 280.4       |
| 09:27:52           | 448.3        | -0.1         | 0.1           | 64.7      | 280.4       |
| 09:28:52           | 445.1        | -0.1         | 0.1           | 64.8      | 280.4       |
| 09:29:52           | 430.1        | -0.2         | 0.1           | 64.9      | 280.4       |
| 09:30:52           | 421.1        | -0.4         | 0.1           | 65.0      | 280.4       |
| 09:31:52           | 448.0        | -0.3         | 0.1           | 65.1      | 280.5       |
| 09:32:52           | 395.4        | -0.4         | 0.1           | 65.2      | 280.4       |
| 09:33:52           | 403.6        | -0.3         | 0.1           | 65.2      | 280.4       |
| 09:34:52           | 414.3        | -0.5         | 0.1           | 65.3      | 280.4       |
| 09:35:52           | 377.6        | -0.2         | 0.1           | 65.5      | 280.4       |
| 09:36:52           | 360.3        | -0.2         | 0.1           | 65.6      | 280.4       |
| 09:37:52           | 388.0        | -0.5         | 0.1           | 65.6      | 280.4       |
| 09:38:52           | 385.2        | -1.0         | 0.1           | 65.8      | 280.4       |
| 09:39:52           | 345.9        | -1.2         | 0.1           | 65.8      | 280.5       |
| 09:40:52           | 334.7        | -1.3         | 0.1           | 65.9      | 280.3       |
| 09:41:52           | 332.0        | -1.2         | 0.1           | 65.9      | 280.5       |
| 09:42:52           | 332.3        | -1.2         | 0.1           | 66.0      | 280.3       |
| 09:43:52           | 293.7        | -1.3         | 0.1           | 66.0      | 280.4       |
| 09:44:52           | 304.6        | -1.6         | 0.1           | 66.1      | 280.4       |
| 09:45:52           | 321.4        | -0.3         | 0.1           | 66.0      | 280.4       |
| 09:46:52           | 298.5        | -0.2         | 0.1           | 66.1      | 280.4       |
| 09:47:52           | 283.0        | -0.2         | 0.1           | 66.2      | 280.5       |
| 09:48:52           | 275.0        | -0.3         | 0.1           | 66.1      | 280.3       |
| 09:49:52           | 300.5        | -0.3         | 0.1           | 66.1      | 280.4       |
| 09:50:52           | 264.4        | -0.6         | 0.1           | 66.2      | 280.4       |
| 09:51:52           | 235.6        | -0.8         | 0.1           | 66.3      | 280.5       |
| 09:52:52           | 262.0        | -0.8         | 0.1           | 66.3      | 280.3       |
| 09:53:52           | 259.2        | -1.1         | 0.1           | 66.4      | 280.5       |
| 09:54:52           | 231.4        | -0.8         | 0.1           | 66.5      | 280.3       |
| 09:55:52           | 230.4        | -0.4         | 0.1           | 66.6      | 280.5       |
| 09:56:52           | 215.7        | -0.7         | 0.1           | 66.6      | 280.3       |
| 09:57:52           | 217.7        | -0.9         | 0.1           | 66.6      | 280.5       |
| 09:58:52           | 225.0        | -0.7         | 0.1           | 66.6      | 280.3       |
| 09:59:52           | 194.5        | -0.6         | 0.1           | 66.6      | 280.3       |
| 10:00:52           | 180.3        | -0.7         | 0.1           | 66.6      | 280.3       |
| 10:01:52           | 200.4        | -0.7         | 0.1           | 66.7      | 280.5       |
| 10:02:52           | 192.1        | -0.6         | 0.1           | 66.9      | 280.3       |
| 10:03:52           | 175.7        | -0.8         | 0.1           | 66.9      | 280.5       |
| 10:04:52           | 178.4        | -0.7         | 0.1           | 67.0      | 280.3       |
| 10:05:52           | 74.9         | 0.1          | -2.8          | -85.5     | -57.7       |
| 10:06:52           | -0.1         | 0.1          | -5.8          | -240.5    | -401.0      |
| 10:07:52           | -0.1         | 0.1          | -5.8          | -240.5    | -401.0      |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for:

NMMA

Date Printed = 04-05-1997 Current Time = 10:11:09

Test #: 0405-1b

| 04-05-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 10:11:54           | 136.4        | -0.2         | 0.1           | 67.1      | -1318.0     |
| 10:12:54           | 126.4        | -0.2         | 0.1           | 67.1      | -1573.0     |
| 10:13:54           | 100.5        | -0.5         | 0.1           | 66.9      | 88.6        |
| 10:14:54           | 127.3        | -0.6         | 0.1           | 66.8      | 280.3       |
| 10:15:54           | 123.9        | -0.4         | 0.1           | 66.8      | 280.2       |
| 10:16:54           | 114.8        | -0.3         | 0.1           | 66.9      | 280.3       |
| 10:17:54           | 115.1        | -0.4         | 0.1           | 67.0      | 280.2       |
| 10:18:54           | 103.0        | -0.4         | 0.1           | 67.2      | 280.3       |
| 10:19:54           | 98.6         | -0.4         | 0.1           | 67.3      | 280.2       |
| 10:20:54           | 96.6         | -0.5         | 0.1           | 67.3      | 280.3       |
| 10:21:54           | 92.9         | -0.5         | 0.1           | 67.3      | 280.2       |
| 10:22:54           | 97.8         | -0.3         | 0.1           | 67.4      | 280.3       |
| 10:23:54           | 92.3         | -0.7         | 0.1           | 67.5      | 280.2       |
| 10:24:54           | 78.1         | -0.8         | 0.1           | 67.6      | 280.3       |
| 10:25:54           | 68.6         | -0.8         | 0.1           | 67.7      | 280.2       |
| 10:26:54           | 73.4         | -0.7         | 0.1           | 67.7      | 280.3       |
| 10:27:54           | 71.5         | -0.8         | 0.1           | 67.7      | 280.2       |
| 10:28:54           | 75.9         | -0.8         | 0.1           | 67.6      | 280.3       |
| 10:29:54           | 62.4         | -1.0         | 0.1           | 67.7      | 280.2       |
| 10:30:54           | 70.4         | -1.0         | 0.1           | 67.9      | 280.3       |
| 10:31:54           | 51.6         | -1.1         | 0.1           | 67.8      | 280.2       |
| 10:32:54           | 66.8         | -1.3         | 0.1           | 67.7      | 280.3       |
| 10:33:54           | 57.9         | -0.8         | 0.1           | 67.6      | 280.2       |
| 10:34:54           | 51.5         | -1.1         | 0.1           | 67.7      | 280.3       |
| 10:35:54           | 55.5         | -1.0         | 0.1           | 67.9      | 280.2       |
| 10:36:54           | 55.8         | -1.0         | 0.1           | 67.9      | 280.3       |
| 10:37:54           | 50.5         | -1.0         | 0.1           | 67.9      | 280.2       |
| 10:38:54           | 51.7         | -1.1         | 0.1           | 67.9      | 280.2       |
| 10:39:54           | 51.8         | -1.3         | 0.1           | 67.9      | 280.2       |
| 10:40:54           | 40.9         | -1.3         | 0.1           | 67.9      | 280.2       |
| 10:41:54           | 49.5         | -1.1         | 0.1           | 67.9      | 280.2       |
| 10:42:54           | 45.1         | -1.1         | 0.1           | 68.0      | 280.2       |
| 10:43:54           | 41.0         | -0.9         | 0.1           | 68.0      | 280.2       |
| 10:44:54           | 42.8         | -0.9         | 0.1           | 68.1      | 280.2       |
| 10:45:54           | 40.4         | -1.0         | 0.1           | 68.2      | 280.2       |
| 10:46:54           | 41.5         | -1.0         | 0.1           | 68.3      | 280.2       |
| 10:47:54           | 35.5         | -1.0         | 0.1           | 68.3      | 280.2       |
| 10:48:54           | 36.9         | -1.0         | 0.1           | 68.4      | 280.2       |
| 10:49:54           | 31.0         | -1.1         | 0.1           | 68.4      | 280.2       |
| 10:50:54           | 32.0         | -1.3         | 0.1           | 68.4      | 280.2       |

Test #: 0405-1b

| 04-05-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 10:51:54           | 32.9         | -1.1         | 0.1           | 68.5      | 280.2       |
| 10:52:54           | 31.5         | -1.2         | 0.1           | 68.5      | 280.2       |

|          |      |      |     |      |       |
|----------|------|------|-----|------|-------|
| 10:54:54 | 29.5 | -0.5 | 0.1 | 68.7 | 280.1 |
| 10:55:54 | 26.7 | -0.4 | 0.1 | 68.8 | 280.1 |
| 10:56:54 | 23.2 | -0.4 | 0.1 | 68.8 | 280.1 |
| 10:57:54 | 19.9 | -0.4 | 0.1 | 68.7 | 280.1 |
| 10:58:54 | 22.5 | -0.5 | 0.1 | 68.7 | 280.1 |
| 10:59:54 | 21.5 | -0.6 | 0.2 | 68.6 | 280.1 |
| 11:00:54 | 22.3 | -0.7 | 0.1 | 68.7 | 280.2 |
| 11:01:54 | 20.7 | -0.4 | 0.1 | 68.7 | 280.1 |
| 11:02:54 | 19.1 | -0.1 | 0.1 | 68.7 | 280.1 |
| 11:03:54 | 17.0 | -0.2 | 0.1 | 68.8 | 280.1 |
| 11:04:54 | 16.6 | -0.1 | 0.1 | 68.9 | 280.1 |
| 11:05:54 | 16.3 | -0.3 | 0.1 | 69.0 | 280.1 |
| 11:06:54 | 16.4 | -0.3 | 0.1 | 68.9 | 280.1 |
| 11:07:54 | 14.3 | -0.3 | 0.1 | 68.9 | 280.1 |
| 11:08:54 | 13.4 | -0.2 | 0.1 | 69.0 | 280.1 |
| 11:09:54 | 14.4 | -0.2 | 0.1 | 69.1 | 280.1 |
| 11:10:54 | 12.9 | -0.3 | 0.1 | 69.2 | 280.1 |
| 11:11:54 | 12.4 | -0.2 | 0.1 | 69.3 | 280.1 |
| 11:12:54 | 11.9 | -0.2 | 0.1 | 69.4 | 280.1 |
| 11:13:54 | 11.0 | -0.3 | 0.1 | 69.4 | 280.1 |
| 11:14:54 | 11.1 | -0.5 | 0.1 | 69.4 | 280.1 |
| 11:15:54 | 10.2 | -0.3 | 0.1 | 69.3 | 280.1 |
| 11:16:54 | 10.1 | -0.1 | 0.1 | 69.2 | 280.0 |
| 11:17:54 | 6.9  | -0.2 | 0.1 | 69.2 | 280.1 |

=====

|       |      |      |     |      |       |
|-------|------|------|-----|------|-------|
| Avg = | 50.5 | -0.6 | 0.1 | 68.2 | 225.8 |
|-------|------|------|-----|------|-------|

=====

Test #: post Oppa

| Time     | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|----------|--------------|--------------|---------------|-----------|-------------|
| 11:23:13 | 0.0          | -2.2         | 0.1           | 66.0      | 502.5       |
| 11:23:16 | 0.0          | -2.3         | 0.2           | 65.7      | -1508.0     |
| 11:23:26 | 0.0          | -2.1         | 0.2           | 65.4      | -1577.6     |
| 11:23:36 | 0.0          | -2.0         | 0.2           | 65.4      | -1573.2     |
| 11:23:46 | 0.0          | -1.9         | 0.1           | 65.6      | -1578.1     |
| 11:23:57 | 0.0          | -1.6         | 0.2           | 65.6      | -1577.9     |
| 11:24:06 | 0.0          | -1.7         | 0.1           | 65.6      | -1578.3     |
| 11:24:16 | 0.0          | -2.3         | 0.1           | 65.5      | -1577.9     |
| Avg =    | 0.0          | -2.0         | 0.2           | 65.6      | -1308.6     |

Test #: In post 30.4

| 04-05-1997<br>Time | THC a<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 11:26:15           | 31.0         | 32.2         | 0.1           | 65.3      | -1583.6     |
| 11:26:17           | 31.0         | 32.2         | 0.1           | 65.3      | -1583.6     |
| 11:26:26           | 31.0         | 32.4         | 0.1           | 65.4      | -1584.7     |
| 11:26:36           | 31.0         | 32.3         | 0.1           | 65.4      | -1581.2     |
| 11:26:46           | 30.4         | 32.4         | 0.1           | 65.4      | -1581.3     |
| 11:26:57           | 29.3         | 32.4         | 0.2           | 65.4      | -1581.3     |
| 11:27:07           | 27.8         | 32.5         | 0.1           | 65.5      | -1591.7     |
| 11:27:16           | 27.8         | 31.8         | 0.1           | 65.5      | -1576.2     |
| 11:27:26           | 27.8         | 32.0         | 0.1           | 65.7      | -1580.6     |
| 11:27:37           | 28.0         | 31.9         | 0.2           | 65.6      | -1580.8     |
| 11:27:47           | 27.9         | 32.1         | 0.1           | 65.5      | -1580.7     |
| 11:27:57           | 27.9         | 31.9         | 0.1           | 65.5      | -1575.6     |
| 11:28:07           | 27.9         | 32.0         | 0.1           | 65.5      | -1580.7     |
| 11:28:17           | 27.9         | 32.1         | 0.2           | 65.5      | -1580.8     |
| 11:28:26           | 27.8         | 32.4         | 0.1           | 65.3      | -1581.4     |
| 11:28:36           | 27.9         | 32.5         | 0.2           | 65.1      | -1582.4     |
| Avp =              | 28.8         | 32.2         | 0.1           | 65.4      | -1581.0     |

Test #: In post 15ppm

| 4-05-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|-------------------|--------------|--------------|---------------|-----------|-------------|
| 11:31:05          | 13.5         | 14.3         | 0.2           | 65.1      | -1602.6     |
| 11:31:07          | 13.5         | 14.3         | 0.2           | 65.1      | -1602.6     |
| 11:31:16          | 13.5         | 14.3         | 0.2           | 65.2      | -1583.7     |
| 11:31:27          | 13.5         | 14.2         | 0.1           | 65.2      | -1579.8     |
| 11:31:36          | 13.4         | 14.9         | 0.1           | 65.1      | -1580.5     |
| 11:31:46          | 13.5         | 14.4         | 0.2           | 65.1      | -1580.7     |
| 11:31:56          | 13.5         | 14.5         | 0.2           | 65.1      | -1590.8     |
| 11:32:06          | 13.5         | 14.2         | 0.1           | 65.2      | -1580.7     |
| 11:32:16          | 13.4         | 14.4         | 0.2           | 65.1      | -1580.9     |
| 11:32:26          | 13.5         | 14.2         | 0.1           | 64.9      | -1580.6     |
| 11:32:37          | 13.4         | 14.2         | 0.1           | 64.8      | -1580.3     |
| Avg =             | 13.5         | 14.4         | 0.2           | 65.1      | -1584.8     |

Test #: Out post 297ppm

| 04-05-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 11:34:14           | 304.6        | 35.1         | 0.1           | 64.2      | -1595.6     |
| 11:34:17           | 303.7        | 35.2         | 0.2           | 64.1      | -1663.6     |
| 11:34:26           | 304.9        | 35.2         | 0.1           | 64.1      | -1577.7     |
| 11:34:36           | 305.7        | 35.2         | 0.2           | 63.9      | -1577.5     |
| 11:34:47           | 304.2        | 35.2         | 0.1           | 63.9      | -1577.9     |
| 11:34:57           | 303.7        | 35.2         | 0.1           | 63.9      | -1577.3     |
| 11:35:06           | 304.9        | 35.0         | 0.2           | 63.8      | -1572.4     |
| 11:35:16           | 305.4        | 35.2         | 0.1           | 63.8      | -1577.9     |
| 11:35:27           | 304.2        | 35.2         | 0.2           | 63.7      | -1566.5     |
| 11:35:37           | 303.8        | 35.2         | 0.2           | 63.7      | -1577.5     |
| 11:35:47           | 304.1        | 35.2         | 0.1           | 63.9      | -1576.7     |
| 11:35:57           | 305.7        | 35.2         | 0.1           | 64.1      | -1577.5     |
| 11:36:06           | 305.0        | 35.3         | 0.1           | 64.2      | -1572.7     |
| 11:36:17           | 303.7        | 35.3         | 0.2           | 64.3      | -1577.2     |
| 11:36:27           | 304.5        | 35.3         | 0.1           | 64.4      | -1577.2     |
| =====              |              |              |               |           |             |
| Avg =              | 304.5        | 35.2         | 0.1           | 64.0      | -1583.0     |
| =====              |              |              |               |           |             |

Test #: Out post 600ppm

| 04-05-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 11:38:26           | 628.9        | 70.6         | 0.1           | 65.3      | -1596.3     |
| 11:38:27           | 628.9        | 70.6         | 0.1           | 65.3      | -1596.3     |
| 11:38:37           | 628.3        | 70.7         | 0.1           | 65.5      | -1581.7     |
| 11:38:46           | 627.7        | 70.7         | 0.1           | 65.5      | -1579.3     |
| 11:38:56           | 629.6        | 70.7         | 0.1           | 65.5      | -1573.4     |
| 11:39:06           | 628.1        | 70.7         | 0.2           | 65.4      | -1578.8     |
| 11:39:17           | 627.3        | 70.7         | 0.2           | 65.3      | -1578.4     |
| 11:39:27           | 629.2        | 70.7         | 0.2           | 65.4      | -1578.9     |
| 11:39:36           | 629.6        | 70.7         | 0.2           | 65.3      | -1577.9     |
| 11:39:46           | 628.3        | 70.8         | 0.1           | 65.3      | -1579.1     |
| Avg =              | 628.6        | 70.7         | 0.1           | 65.4      | -1582.0     |



Test #: Out post <sup>914</sup> 904ppm

| 04-05-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 11:42:30           | 940.5        | 91.9         | 0.2           | 66.4      | 1858.6      |
| 11:42:36           | 939.9        | 91.9         | 0.2           | 66.2      | 1169.7      |
| 11:42:46           | 939.8        | 91.9         | 0.2           | 66.2      | 1088.6      |
| 11:42:56           | 939.3        | 92.0         | 0.1           | 66.3      | 1118.5      |
| 11:43:07           | 939.3        | 92.0         | 0.2           | 66.5      | 1156.7      |
| 11:43:17           | 938.7        | 92.1         | 0.2           | 66.5      | 1127.2      |
| 11:43:27           | 939.1        | 92.1         | 0.2           | 66.6      | 1246.1      |
| 11:43:37           | 939.5        | 92.1         | 0.2           | 66.7      | 1345.8      |
| 11:43:46           | 938.9        | 92.1         | 0.2           | 66.3      | 1206.0      |
| Avg =              | 939.5        | 92.0         | 0.2           | 66.4      | 1257.5      |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, MA

Performed for:

NHMA

Date Printed = 04-05-1997 Current Time = 11:49:48

File Name = c:\cendata\040597.PRN Calibration File:c:\cendata\0405a.CAL

0405-2

NHMA-1-1

18' Hall Lann

Pretest In Cal

Post test Cals

Test #: Pre in Oppm

| 04-05-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 11:49:50           | 0.0          | -0.7         | 0.1           | 64.3      | 224.4       |
| 11:49:55           | 0.0          | 0.4          | 0.1           | 64.3      | 224.4       |
| 11:50:05           | -0.0         | 0.3          | 0.1           | 64.3      | 224.6       |
| 11:50:15           | -0.0         | 0.3          | 0.1           | 64.3      | 224.5       |
| 11:50:25           | 0.0          | 0.4          | 0.1           | 64.4      | 224.5       |
| 11:50:35           | -0.0         | 0.3          | 0.1           | 64.5      | 224.6       |
| 11:50:45           | 0.0          | 0.3          | 0.1           | 64.6      | 224.6       |
| 11:50:55           | 0.0          | 0.2          | 0.1           | 64.6      | 224.5       |
| 11:51:05           | 0.0          | 0.4          | 0.1           | 64.6      | 224.6       |
| 11:51:15           | 0.0          | 0.0          | 0.1           | 64.7      | 224.6       |
| 11:51:25           | 0.0          | 0.0          | 0.1           | 64.8      | 224.6       |
| 11:51:35           | -0.0         | 0.0          | 0.1           | 64.9      | 224.6       |
| 11:51:45           | 0.0          | -0.1         | 0.1           | 64.9      | 224.6       |
| 11:51:55           | 0.0          | 0.0          | 0.1           | 65.0      | 224.6       |
| Avg =              | 0.0          | 0.1          | 0.1           | 64.6      | 224.6       |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-05-1997 Current Time = 11:55:27

File Name = c:\ce\data\040597.PRW Calibration File: c:\ce\data\0405a.CAL

Test #: In pre 45.5ppm

| 04-05-1997<br>Time | THC 0<br>ppm | THC 1<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 11:55:30           | 44.1         | 45.8         | 0.1           | 66.5      | 224.6       |
| 11:55:35           | 44.0         | 45.7         | 0.1           | 66.7      | 224.6       |
| 11:55:40           | 44.0         | 45.6         | 0.1           | 66.6      | 224.7       |
| 11:55:45           | 44.0         | 45.0         | 0.1           | 66.7      | 224.7       |
| 11:55:50           | 43.9         | 45.5         | 0.1           | 66.7      | 224.7       |
| 11:56:05           | 44.0         | 45.6         | 0.1           | 66.7      | 224.7       |
| 11:56:20           | 44.0         | 45.5         | 0.1           | 66.8      | 224.6       |
| 11:56:35           | 44.0         | 45.6         | 0.1           | 66.8      | 224.7       |
| 11:56:45           | 44.0         | 45.6         | 0.1           | 66.8      | 224.7       |
| 11:56:55           | 43.9         | 45.8         | 0.1           | 66.8      | 224.8       |
| 11:57:05           | 43.6         | 45.7         | 0.1           | 66.8      | 224.7       |
| Avg =              | 43.9         | 45.7         | 0.1           | 66.7      | 224.7       |

RADIAN CORPORATION

Environmental Measurement and Analysis Department  
Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-05-1997 Current Time = 11:58:37

File Name = c:\cemdata\040597.PRN Calibration File: c:\cemdata\0405a.CAL

Test #: In pre 30.4ppm

| 04-05-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 11:58:41           | 29.4         | 29.4         | 0.1           | 67.1      | 224.7       |
| 11:58:45           | 29.5         | 30.3         | 0.1           | 67.1      | 224.7       |
| 11:58:55           | 29.5         | 30.0         | 0.1           | 67.1      | 224.7       |
| 11:59:05           | 29.5         | 30.0         | 0.1           | 67.1      | 224.7       |
| 11:59:15           | 29.5         | 30.0         | 0.1           | 67.1      | 224.7       |
| 11:59:25           | 29.5         | 30.1         | 0.1           | 67.1      | 224.7       |
| 11:59:35           | 29.5         | 30.1         | 0.1           | 67.1      | 224.6       |
| 11:59:45           | 29.5         | 30.3         | 0.1           | 67.1      | 224.7       |
| 11:59:55           | 29.5         | 30.1         | 0.1           | 67.1      | 224.7       |
| Avg =              | 29.5         | 30.0         | 0.1           | 67.1      | 224.7       |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-05-1997 Current Time = 12:01:50

File Name = c:\ce\data\040597.PRN Calibration File: c:\ce\data\0405a.CAL

Test #: In pre 15ppm

| 04-05-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 12:01:53           | 14.0         | 14.3         | 0.1           | 67.2      | 224.7       |
| 12:01:55           | 14.0         | 14.4         | 0.2           | 67.2      | 224.7       |
| 12:02:05           | 14.0         | 14.3         | 0.1           | 67.2      | 224.6       |
| 12:02:15           | 14.0         | 14.3         | 0.1           | 67.1      | 224.6       |
| 12:02:25           | 14.0         | 14.3         | 0.1           | 67.1      | 224.6       |
| 12:02:35           | 14.0         | 14.2         | 0.1           | 67.1      | 224.6       |
| 12:02:45           | 14.1         | 14.4         | 0.1           | 67.1      | 224.6       |
| 12:02:55           | 14.0         | 14.3         | 0.1           | 67.1      | 224.6       |
| 12:03:05           | 14.0         | 14.2         | 0.1           | 67.1      | 224.7       |
| Avg =              | 14.0         | 14.3         | 0.1           | 67.1      | 224.6       |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-05-1997 Current Time = 12:04:56

File Name = c:\cemdata\040597.PRN Calibration File:c:\cemdata\0405a.CAL

Test #:

| 04-05-1997 | THC o | THC i | Flow  | Temp | Resin |
|------------|-------|-------|-------|------|-------|
| Time       | ppm   | ppm   | inH2O | F    | lb    |

|       |     |     |     |     |     |
|-------|-----|-----|-----|-----|-----|
| Avg = | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
|-------|-----|-----|-----|-----|-----|

NA

## RADIANT CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-05-1997 Current Time = 12:05:14

File Name = c:\cemdata\040597.PRN Calibration File:c:\cemdata\0405a.CAL

Test #: 0405-2

| 04-05-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 12:05:25           | 1.3          | 1.4          | 0.1           | 67.1      | 224.6       |
| 12:06:25           | 1.3          | 1.5          | 0.1           | 67.1      | 224.6       |
| 12:07:25           | 2.3          | 1.8          | 0.1           | 67.1      | 224.5       |
| 12:08:25           | 33.8         | 1.6          | 0.1           | 67.2      | 222.9       |
| 12:09:25           | 111.2        | 1.8          | 0.1           | 67.2      | 216.5       |
| 12:10:25           | 253.7        | 1.8          | 0.1           | 67.2      | 210.2       |
| 12:11:25           | 331.6        | 1.9          | 0.1           | 67.2      | 204.5       |
| 12:12:25           | 385.4        | 1.7          | 0.1           | 67.1      | 198.1       |
| 12:13:25           | 321.2        | 1.7          | 0.1           | 67.1      | 196.0       |
| 12:14:25           | 237.0        | 1.8          | 0.1           | 66.9      | 194.8       |
| 12:15:25           | 212.4        | 1.9          | 0.1           | 67.0      | 192.5       |
| 12:16:25           | 153.2        | 1.8          | 0.1           | 66.9      | 192.8       |
| 12:17:25           | 149.1        | 1.9          | 0.1           | 67.1      | 192.6       |
| 12:18:25           | 140.0        | 1.9          | 0.1           | 67.2      | 192.8       |
| 12:19:25           | 143.2        | 1.8          | 0.1           | 67.2      | 192.6       |
| 12:20:25           | 133.0        | 1.8          | 0.1           | 67.3      | 192.8       |
| 12:21:25           | 123.2        | 1.8          | 0.1           | 67.4      | 192.5       |
| 12:22:25           | 112.6        | 1.7          | 0.1           | 67.4      | 193.9       |
| 12:23:25           | 108.8        | 1.6          | 0.1           | 67.6      | 196.5       |
| 12:24:25           | 98.7         | 1.6          | 0.1           | 67.6      | 191.4       |
| 12:25:25           | 161.9        | 1.6          | 0.1           | 67.6      | 195.6       |
| 12:26:25           | 165.6        | 1.4          | 0.1           | 67.5      | 203.8       |
| 12:27:25           | 248.6        | 1.4          | 0.1           | 67.5      | 179.4       |
| 12:28:25           | 324.8        | 1.5          | 0.1           | 67.5      | 172.8       |
| 12:29:25           | 365.0        | 1.4          | 0.1           | 67.5      | 166.4       |
| 12:30:25           | 422.7        | 1.4          | 0.1           | 67.4      | 160.8       |
| 12:31:25           | 448.7        | 1.5          | 0.1           | 67.3      | 157.4       |
| 12:32:25           | 369.5        | 1.7          | 0.1           | 67.4      | 156.8       |
| 12:33:25           | 304.9        | 1.5          | 0.1           | 67.3      | 156.6       |
| 12:34:25           | 313.8        | 1.3          | 0.1           | 67.5      | 156.8       |
| 12:35:25           | 282.1        | 1.3          | 0.1           | 67.5      | 156.6       |
| 12:36:25           | 251.4        | 1.5          | 0.1           | 67.5      | 156.8       |
| 12:37:25           | 235.1        | 1.7          | 0.1           | 67.4      | 156.6       |
| 12:38:25           | 211.2        | 1.9          | 0.1           | 67.4      | 156.8       |
| 12:39:25           | 195.4        | 1.9          | 0.1           | 67.3      | 156.6       |
| 12:40:25           | 177.0        | 2.0          | 0.1           | 67.2      | 156.8       |
| 12:41:25           | 168.5        | 2.1          | 0.1           | 67.2      | 156.6       |
| 12:42:25           | 163.6        | 1.7          | 0.1           | 67.4      | 156.8       |
| 12:43:25           | 150.4        | 1.6          | 0.1           | 67.4      | 156.6       |
| 12:44:25           | 148.9        | 1.5          | 0.1           | 67.5      | 156.8       |

Test #: 0405-2

| 04-05-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 12:45:25           | 142.4        | 1.4          | 0.1           | 67.6      | 156.8       |
| 12:46:25           | 129.7        | 1.4          | 0.1           | 67.5      | 156.8       |
| 12:47:25           | 119.8        | 1.5          | 0.1           | 67.5      | 156.6       |
| 12:48:25           | 116.1        | 1.5          | 0.1           | 67.5      | 156.8       |
| 12:49:25           | 113.5        | 1.4          | 0.1           | 67.5      | 156.6       |
| 12:50:25           | 113.2        | 1.4          | 0.1           | 67.6      | 156.8       |
| 12:51:25           | 111.6        | 1.4          | 0.1           | 67.7      | 156.6       |
| 12:52:25           | 108.1        | 1.4          | 0.1           | 67.7      | 156.8       |
| 12:53:25           | 102.1        | 1.4          | 0.1           | 67.7      | 156.6       |
| 12:54:25           | 99.4         | 1.4          | 0.1           | 67.7      | 156.8       |
| 12:55:25           | 97.5         | 1.4          | 0.1           | 67.7      | 156.6       |
| 12:56:25           | 89.6         | 1.4          | 0.1           | 67.6      | 156.8       |
| 12:57:25           | 87.1         | 1.3          | 0.1           | 67.4      | 157.4       |
| 12:58:25           | 86.7         | 1.3          | 0.1           | 67.4      | 156.8       |
| 12:59:25           | 91.2         | 1.3          | 0.1           | 67.6      | 157.1       |
| 13:00:25           | 100.7        | 1.4          | 0.1           | 67.7      | 156.1       |
| 13:01:25           | 120.5        | 1.5          | 0.1           | 67.7      | 154.5       |
| 13:02:25           | 147.0        | 1.4          | 0.1           | 67.6      | 152.6       |
| 13:03:25           | 197.0        | 1.5          | 0.1           | 67.6      | 148.1       |
| 13:04:25           | 234.6        | 1.5          | 0.1           | 67.5      | 145.9       |
| 13:05:25           | 245.7        | 1.5          | 0.1           | 67.5      | 142.5       |
| 13:06:25           | 287.5        | 1.4          | 0.1           | 67.6      | 139.3       |
| 13:07:25           | 234.4        | 1.5          | 0.1           | 67.5      | 138.6       |
| 13:08:25           | 296.5        | 1.5          | 0.1           | 67.6      | 133.7       |
| 13:09:25           | 259.4        | 1.6          | 0.1           | 67.6      | 132.5       |
| 13:10:25           | 234.4        | 1.5          | 0.1           | 67.5      | 132.6       |
| 13:11:25           | 222.3        | 1.5          | 0.1           | 67.6      | 132.6       |
| 13:12:25           | 210.1        | 1.5          | 0.1           | 67.8      | 132.5       |
| 13:13:25           | 192.3        | 1.6          | 0.1           | 67.7      | 132.7       |
| 13:14:25           | 257.8        | 1.6          | 0.1           | 67.8      | 127.4       |
| 13:15:25           | 383.2        | 1.7          | 0.1           | 67.8      | 121.4       |
| 13:16:25           | 302.8        | 1.7          | 0.1           | 67.7      | 120.0       |
| 13:17:25           | 263.8        | 1.7          | 0.1           | 67.8      | 120.0       |
| 13:18:25           | 227.5        | 1.6          | 0.1           | 67.9      | 120.0       |
| 13:19:25           | 239.3        | 1.7          | 0.1           | 67.9      | 117.5       |
| 13:20:25           | 259.9        | 1.7          | 0.1           | 67.9      | 116.0       |
| 13:21:25           | 223.1        | 1.7          | 0.1           | 67.9      | 115.5       |
| 13:22:25           | 204.6        | 1.6          | 0.1           | 67.9      | 116.0       |
| 13:23:25           | 176.9        | 1.6          | 0.1           | 67.6      | 116.0       |
| 13:24:25           | 168.5        | 1.6          | 0.1           | 67.5      | 116.0       |
| 13:25:25           | 161.5        | 1.7          | 0.1           | 67.5      | 116.0       |
| 13:26:25           | 150.5        | 1.6          | 0.1           | 67.5      | 116.0       |
| 13:27:25           | 129.8        | 1.9          | 0.1           | 67.4      | 120.5       |
| 13:28:25           | 124.6        | 1.9          | 0.1           | 67.5      | 114.3       |
| 13:29:25           | 118.5        | 2.0          | 0.1           | 67.5      | 115.5       |
| 13:30:25           | 113.8        | 2.0          | 0.1           | 67.6      | 115.9       |
| 13:31:25           | 104.6        | 2.0          | 0.1           | 67.7      | 115.5       |
| 13:32:25           | 102.4        | 2.0          | 0.1           | 67.6      | 115.9       |
| 13:33:25           | 102.0        | 2.1          | 0.1           | 67.7      | 115.5       |
| 13:34:25           | 96.4         | 2.1          | 0.1           | 67.8      | 116.0       |
| 13:35:25           | 89.2         | 2.0          | 0.1           | 67.8      | 116.0       |
| 13:36:25           | 84.5         | 2.0          | 0.1           | 67.8      | 116.0       |
| 13:37:25           | 82.0         | 1.9          | 0.1           | 67.9      | 116.0       |
| 13:38:25           | 71.5         | 1.8          | 0.1           | 67.8      | 116.0       |
| 13:39:25           | 69.5         | 1.9          | 0.1           | 67.7      | 116.0       |
| 13:40:25           | 66.9         | 1.9          | 0.1           | 67.7      | 116.0       |



Test #: 0405-2

| 04-05-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 13:41:25           | 64.5         | 1.6          | 0.1           | 67.7      | 116.0       |
| 13:42:25           | 60.8         | 1.6          | 0.1           | 67.7      | 116.1       |
| 13:43:25           | 57.4         | 1.7          | 0.1           | 67.7      | 116.0       |
| 13:44:25           | 53.8         | 1.8          | 0.1           | 67.6      | 115.7       |
| 13:45:25           | 55.6         | 1.9          | 0.1           | 67.8      | 115.0       |
| 13:46:25           | 54.1         | 2.4          | 0.1           | 67.7      | 115.3       |
| 13:47:25           | 73.5         | 2.2          | 0.1           | 67.8      | 111.7       |
| 13:48:25           | 185.7        | 2.0          | 0.1           | 67.9      | 105.0       |
| 13:49:25           | 166.9        | 2.1          | 0.1           | 67.9      | 103.6       |
| 13:50:25           | 151.2        | 2.2          | 0.1           | 67.8      | 103.0       |
| 13:51:25           | 238.3        | 2.1          | 0.1           | 67.8      | 97.1        |
| 13:52:25           | 300.7        | 2.1          | 0.1           | 67.9      | 93.3        |
| 13:53:25           | 268.4        | 2.2          | 0.1           | 67.8      | 90.1        |
| 13:54:25           | 275.8        | 2.1          | 0.1           | 67.8      | 88.6        |
| 13:55:25           | 257.6        | 2.4          | 0.1           | 67.8      | 88.6        |
| 13:56:25           | 222.3        | 2.2          | 0.1           | 67.7      | 88.7        |
| 13:57:25           | 208.5        | 2.2          | 0.1           | 67.6      | 87.5        |
| 13:58:25           | 293.4        | 2.1          | 0.1           | 67.7      | 82.1        |
| 13:59:25           | 304.1        | 2.6          | 0.1           | 68.0      | 90.1        |
| 14:00:25           | 238.9        | 2.7          | 0.1           | 67.8      | 84.9        |
| 14:01:25           | 242.3        | 2.4          | 0.1           | 67.9      | 82.7        |
| 14:02:25           | 265.8        | 1.9          | 0.1           | 68.0      | 78.5        |
| 14:03:25           | 230.9        | 2.0          | 0.1           | 68.0      | 78.5        |
| 14:04:25           | 225.4        | 2.3          | 0.1           | 68.0      | 77.0        |
| 14:05:25           | 227.8        | 2.1          | 0.1           | 67.9      | 76.4        |
| 14:06:25           | 213.2        | 1.8          | 0.1           | 67.7      | 76.4        |
| 14:07:25           | 182.7        | 1.7          | 0.1           | 67.8      | 76.3        |
| 14:08:25           | 161.8        | 1.8          | 0.1           | 67.8      | 76.3        |
| 14:09:25           | 173.2        | 1.8          | 0.1           | 67.7      | 75.0        |
| 14:10:25           | 143.2        | 1.8          | 0.1           | 67.4      | 73.6        |
| 14:11:25           | 144.8        | 2.0          | 0.1           | 67.3      | 72.0        |
| 14:12:25           | 139.8        | 2.0          | 0.1           | 67.5      | 72.0        |
| 14:13:25           | 133.6        | 2.1          | 0.1           | 67.6      | 71.5        |
| 14:14:25           | 121.3        | 2.1          | 0.1           | 67.6      | 71.9        |
| 14:15:25           | 121.7        | 2.1          | 0.1           | 67.7      | 71.5        |
| 14:16:25           | 110.9        | 2.1          | 0.1           | 68.0      | 71.9        |
| 14:17:25           | 97.3         | 2.2          | 0.1           | 67.9      | 71.5        |
| 14:18:25           | 92.3         | 2.0          | 0.1           | 68.0      | 71.9        |
| 14:19:25           | 86.7         | 2.0          | 0.1           | 68.0      | 71.5        |
| 14:20:25           | 79.7         | 2.0          | 0.1           | 68.0      | 71.9        |
| 14:21:25           | 77.5         | 1.9          | 0.1           | 68.0      | 71.5        |
| 14:22:25           | 76.2         | 2.0          | 0.1           | 68.0      | 71.9        |
| 14:23:25           | 70.2         | 2.1          | 0.1           | 68.0      | 71.5        |
| 14:24:25           | 64.4         | 2.0          | 0.1           | 67.9      | 71.9        |
| 14:25:25           | 61.1         | 2.0          | 0.1           | 68.0      | 71.5        |
| 14:26:25           | 56.8         | 1.9          | 0.1           | 67.9      | 71.8        |
| 14:27:25           | 54.2         | 1.9          | 0.1           | 68.1      | 71.5        |
| 14:28:25           | 51.9         | 1.8          | 0.1           | 68.1      | 71.9        |
| 14:29:25           | 48.0         | 1.9          | 0.1           | 68.1      | 71.5        |
| 14:30:25           | 46.7         | 1.8          | 0.1           | 68.1      | 71.9        |
| 14:31:25           | 42.6         | 1.8          | 0.1           | 68.1      | 71.8        |
| 14:32:25           | 40.8         | 1.8          | 0.1           | 68.0      | 71.9        |
| 14:33:25           | 37.7         | 1.8          | 0.1           | 67.9      | 71.5        |
| 14:34:25           | 36.2         | 1.7          | 0.1           | 68.0      | 71.9        |
| 14:35:25           | 32.6         | 1.7          | 0.1           | 67.9      | 71.8        |
| 14:36:25           | 31.7         | 1.8          | 0.1           | 67.9      | 71.8        |

Test #: 0405-2

| 05-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|-----------------|--------------|--------------|---------------|-----------|-------------|
| 14:37:25        | 29.7         | 1.8          | 0.1           | 68.0      | 71.5        |
| 14:38:25        | 27.4         | 1.9          | 0.1           | 68.0      | 71.9        |
| 14:39:25        | 26.4         | 1.9          | 0.1           | 68.1      | 71.5        |
| 14:40:25        | 24.4         | 1.9          | 0.1           | 68.1      | 71.8        |
| 14:41:25        | 22.4         | 1.9          | 0.1           | 68.1      | 71.8        |
| 14:42:25        | 21.1         | 1.9          | 0.1           | 68.0      | 71.8        |
| 14:43:25        | 20.0         | 1.9          | 0.1           | 68.1      | 71.5        |
| 14:44:25        | 19.1         | 1.8          | 0.1           | 68.0      | 71.8        |
| 14:45:25        | 18.0         | 1.8          | 0.1           | 68.0      | 71.5        |
| 14:46:25        | 17.0         | 1.8          | 0.1           | 68.0      | 71.9        |
| 14:47:25        | 16.0         | 1.8          | 0.1           | 68.1      | 71.5        |
| 14:48:25        | 15.0         | 1.8          | 0.1           | 68.0      | 71.8        |
| 14:49:25        | 14.2         | 1.9          | 0.1           | 68.0      | 71.5        |
| 14:50:25        | 13.9         | 1.8          | 0.1           | 68.0      | 71.8        |
| 14:51:25        | 13.2         | 1.8          | 0.1           | 68.0      | 71.5        |
| 14:52:25        | 12.3         | 1.7          | 0.1           | 68.0      | 71.8        |
| 14:53:25        | 11.9         | 1.7          | 0.1           | 68.1      | 71.6        |
| 14:54:25        | 11.2         | 1.8          | 0.1           | 68.1      | 71.8        |
| 14:55:25        | 10.9         | 1.9          | 0.1           | 68.1      | 71.5        |
| 14:56:25        | 10.8         | 1.8          | 0.1           | 68.1      | 71.8        |
| 14:57:25        | 10.3         | 1.7          | 0.1           | 68.1      | 71.5        |
| 14:58:25        | 9.9          | 1.8          | 0.1           | 68.0      | 71.8        |
| 14:59:25        | 9.9          | 2.0          | 0.1           | 68.1      | 71.8        |
| Avg =           | 143.6        | 1.8          | 0.1           | 67.7      | 120.7       |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-05-1997 Current Time = 15:06:07

File Name = c:\cendata\040597.PRW Calibration File:c:\cendata\0405a.CAL

Test #: Post 0000

| 04-05-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 15:06:10           | 0.0          | -0.4         | 0.1           | 68.0      | 71.7        |
| 15:06:17           | -0.0         | -0.5         | 0.1           | 68.0      | 71.8        |
| 15:06:26           | 0.0          | -0.4         | 0.1           | 68.0      | 71.5        |
| 15:06:36           | -0.0         | -0.6         | 0.1           | 68.0      | 71.8        |
| 15:06:47           | -0.0         | -0.4         | 0.1           | 68.0      | 71.6        |
| 15:06:56           | 0.0          | -0.4         | 0.1           | 68.0      | 71.8        |
| 15:07:06           | -0.0         | -0.4         | 0.1           | 68.0      | 71.7        |
| 15:07:16           | -0.0         | -0.5         | 0.1           | 68.0      | 71.8        |
| 15:07:26           | 0.0          | -0.4         | 0.1           | 67.9      | 71.6        |
| 15:07:36           | 0.0          | -0.4         | 0.1           | 68.0      | 71.8        |
| 15:07:46           | -0.0         | -0.4         | 0.1           | 68.0      | 71.6        |
| Avg =              | -0.0         | -0.5         | 0.1           | 68.0      | 71.8        |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-05-1997 Current Time = 15:09:12

File Name = c:\ce\data\040597.PRN Calibration File: c:\ce\data\0405a.CAL

Test #: In post 15ppm

| 04-05-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 15:09:15           | 13.9         | 14.9         | 0.1           | 67.9      | 71.8        |
| 15:09:17           | 13.9         | 14.9         | 0.1           | 67.9      | 71.8        |
| 15:09:27           | 13.9         | 14.7         | 0.1           | 67.9      | 71.6        |
| 15:09:36           | 13.9         | 14.8         | 0.1           | 67.9      | 71.8        |
| 15:09:46           | 14.0         | 14.7         | 0.1           | 67.9      | 71.6        |
| 15:09:57           | 13.9         | 15.0         | 0.1           | 68.0      | 71.8        |
| 15:10:06           | 13.9         | 14.8         | 0.1           | 68.0      | 71.6        |
| 15:10:16           | 13.9         | 14.9         | 0.1           | 68.0      | 71.8        |
| 15:10:27           | 13.9         | 14.9         | 0.1           | 68.0      | 71.7        |
| 15:10:36           | 13.9         | 14.8         | 0.1           | 68.0      | 71.7        |
| 15:10:46           | 13.9         | 14.9         | 0.1           | 68.0      | 71.6        |
| 15:10:57           | 13.9         | 15.0         | 0.1           | 68.0      | 71.8        |
| Avg =              | 13.9         | 14.8         | 0.1           | 68.0      | 71.8        |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-05-1997 Current Time = 15:12:31

File Name = c:\cemdata\040597.PRN Calibration File:c:\cemdata\0405a.CAL

Test #: In post 30.4

| 04-05-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 15:12:34           | 28.4         | 30.6         | -5.8          | -240.5    | 71.7        |
| 15:12:36           | 28.4         | 30.6         | -5.8          | -240.5    | 71.7        |
| 15:12:47           | 28.4         | 30.6         | -5.8          | -240.5    | 71.8        |
| 15:12:56           | 28.4         | 30.7         | -5.8          | -240.5    | 71.8        |
| 15:13:06           | 28.4         | 30.7         | -5.8          | -240.5    | 71.8        |
| 15:13:16           | 28.4         | 30.7         | -5.8          | -240.5    | 71.8        |
| 15:13:26           | 28.4         | 30.6         | -5.8          | -240.5    | 71.7        |
| 15:13:37           | 28.4         | 30.8         | -5.8          | -240.5    | 71.8        |
| 15:13:46           | 28.4         | 30.7         | -5.8          | -240.5    | 71.8        |
| 15:13:56           | 28.4         | 30.6         | -5.8          | -240.5    | 71.8        |
| 15:14:06           | 28.4         | 30.7         | -5.8          | -240.5    | 71.7        |
| 15:14:16           | 28.4         | 30.7         | -5.8          | -240.5    | 71.8        |
| Avg =              | 28.4         | 30.7         | -5.8          | -240.5    | 71.8        |

RADIAN CORPORATION

Environmental Measurement and Analysis Department  
Continuous Emissions Monitoring Data

US Marine

Arlington, MA

Performed for: NMMA

Date Printed = 04-05-1997 Current Time = 15:17:58

File Name = c:\cendata\040597.PRN Calibration File: c:\cendata\0405a.CAL

Test #: Out post 297

| 04-05-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 15:18:01           | 309.2        | 30.4         | -5.8          | -240.5    | 71.8        |
| 15:18:06           | 307.3        | 30.4         | -5.8          | -240.5    | 71.7        |
| 15:18:16           | 307.9        | 30.3         | -5.8          | -240.5    | 71.7        |
| 15:18:26           | 307.6        | 30.3         | -5.8          | -240.5    | 71.7        |
| 15:18:36           | 307.3        | 30.3         | -5.8          | -240.5    | 71.8        |
| 15:18:46           | 307.8        | 30.3         | -5.8          | -240.5    | 71.8        |
| 15:18:57           | 307.5        | 30.2         | -5.8          | -240.5    | 71.8        |
| 15:19:06           | 307.3        | 30.2         | -5.8          | -240.5    | 71.8        |
| 15:19:16           | 307.3        | 30.2         | -5.8          | -240.5    | 71.8        |
| 15:19:26           | 306.8        | 30.2         | -5.8          | -240.5    | 71.7        |
| 15:19:37           | 306.3        | 30.2         | -5.8          | -240.5    | 71.8        |
| 15:19:47           | 307.3        | 30.4         | -5.8          | -240.5    | 71.7        |
| Avg =              | 307.5        | 30.3         | -5.8          | -240.5    | 71.8        |

## RADIANT CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-05-1997 Current Time = 15:22:32

File Name = c:\ce\data\040597.PRN Calibration File: c:\ce\data\0405a.CAL

Test #: Out post 600ppm

| 04-05-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 15:22:36           | 633.2        | 61.0         | -5.8          | -240.4    | 72.0        |
| 15:22:37           | 633.2        | 61.0         | -5.8          | -240.4    | 72.0        |
| 15:22:47           | 633.5        | 61.0         | -5.8          | -240.4    | 72.1        |
| 15:22:56           | 632.8        | 61.0         | -5.8          | -240.4    | 72.0        |
| 15:23:06           | 632.9        | 61.3         | -5.8          | -240.4    | 72.0        |
| 15:23:16           | 633.8        | 61.2         | -5.8          | -240.4    | 72.0        |
| 15:23:27           | 634.0        | 61.2         | -5.8          | -240.4    | 72.0        |
| 15:23:38           | 632.2        | 61.2         | -5.8          | -240.4    | 72.0        |
| 15:23:48           | 633.0        | 61.2         | -5.8          | -240.4    | 72.1        |
| 15:23:58           | 633.0        | 61.2         | -5.8          | -240.4    | 72.0        |
| 15:24:08           | 632.4        | 61.2         | -5.8          | -240.4    | 72.0        |
| 15:24:18           | 632.2        | 61.3         | -5.8          | -240.4    | 72.0        |
| 15:24:27           | 631.8        | 61.7         | -5.8          | -240.4    | 72.0        |
| Avg =              | 632.9        | 61.2         | -5.8          | -240.4    | 72.0        |

**April 6, 1997**  
**Balance Calibration**



# CALIBRATION SUMMARY

04-06-1997 10:34:44

CALIBRATION FILE NAME = c:\cendata\0406a.CAL

0406M  
BALANCE CALIBRATION

| an. Name | Units      | Zero  |       | Scan  |       | Slope  | Int.      |
|----------|------------|-------|-------|-------|-------|--------|-----------|
|          |            | Conc. | Resp. | Conc. | Resp. |        |           |
| 1        | THC a ppm  | 0     | 0     | 914   | 8.7   | 105.15 | -.1009    |
| 2        | THC i ppm  | 0     | -.01  | 45.5  | 4.5   | 10.14  | .0607     |
| 3        | Flow inH2O | 0     | 2.96  | .4    | 3.2   | 1.97   | -5.9162   |
| 4        | Temp F     | 32    | 1.98  | 212   | 3.3   | 137.51 | -240.4591 |
| 5        | Resin lb   | 0     | 1.46  | 600   | 4.3   | 212.27 | -310.8425 |

RADIANT CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-06-1997 Current Time = 10:37:22  
 File Name = c:\cendata\040697.PRN Calibration File:c:\cendata\0406a.CAL

Test #: Resin 5001b

| 04-06-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 10:37:23           | -0.0         | -0.7         | -5.8          | -240.5    | 500.1       |
| 10:37:24           | -0.0         | -0.7         | -5.8          | -240.5    | 500.1       |
| 10:37:25           | -0.0         | -0.7         | -5.8          | -240.5    | 500.1       |
| 10:37:30           | -0.0         | -0.7         | -5.8          | -240.5    | 500.1       |
| 10:37:40           | -0.0         | -0.7         | -5.8          | -240.5    | 500.1       |
| 10:37:50           | -0.0         | -0.6         | -5.8          | -240.5    | 500.1       |
| 10:38:00           | -0.0         | -0.7         | -5.8          | -240.5    | 500.1       |
| 10:38:10           | -0.0         | -0.7         | -5.8          | -240.5    | 500.1       |
| 10:38:20           | -0.0         | -0.7         | -5.8          | -240.5    | 500.1       |
| 10:38:30           | -0.0         | -0.7         | -5.8          | -240.5    | 500.1       |
| 10:38:40           | -0.0         | -0.7         | -5.8          | -240.5    | 500.2       |
| Avg =              | -0.0         | -0.7         | -5.8          | -240.5    | 500.1       |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-06-1997 Current Time = 10:40:31

File Name = c:\cemdata\040697.PRN Calibration File:c:\cemdata\0406a.CAL

Test #: resin 300lb

| 04-06-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 10:40:32           | -0.0         | -1.1         | -5.8          | -240.5    | 300.1       |
| 10:40:40           | -0.0         | -1.1         | -5.8          | -240.5    | 300.1       |
| 10:40:50           | -0.0         | -1.1         | -5.8          | -240.5    | 300.1       |
| 10:41:00           | -0.0         | -1.0         | -5.8          | -240.5    | 300.1       |
| 10:41:10           | -0.0         | -1.0         | -5.8          | -240.5    | 300.1       |
| 10:41:20           | -0.0         | -1.1         | -5.8          | -240.5    | 300.1       |
| 10:41:30           | -0.0         | -1.1         | -5.8          | -240.5    | 300.1       |
| 10:41:40           | -0.0         | -1.1         | -5.8          | -240.5    | 300.1       |
| 10:41:50           | -0.0         | -1.1         | -5.8          | -240.5    | 300.1       |
| 10:42:00           | -0.0         | -1.1         | -5.8          | -240.5    | 300.1       |
| Avg =              | -0.0         | -1.1         | -5.8          | -240.5    | 300.1       |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-06-1997 Current Time = 10:43:47

File Name = c:\cemdata\040697.PRN Calibration File: c:\cemdata\0406a.CAL

Test #: Resin 1001b

| 04-06-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 10:43:48           | -0.0         | -1.1         | -5.8          | -240.5    | 100.0       |
| 10:43:50           | 0.0          | -1.1         | -5.8          | -240.5    | 100.0       |
| 10:44:00           | -0.0         | -1.1         | -5.8          | -240.5    | 99.9        |
| 10:44:10           | -0.0         | -1.1         | -5.8          | -240.5    | 99.9        |
| 10:44:20           | -0.0         | -1.1         | -5.8          | -240.5    | 100.0       |
| 10:44:30           | -0.0         | -1.1         | -5.8          | -240.5    | 100.0       |
| 10:44:40           | -0.0         | -1.1         | -5.8          | -240.5    | 99.9        |
| 10:44:50           | -0.0         | -1.1         | -5.8          | -240.5    | 99.9        |
| 10:45:00           | -0.0         | -1.1         | -5.8          | -240.5    | 100.0       |
| 10:45:10           | -0.0         | -1.1         | -5.8          | -240.5    | 100.0       |
| Avg =              | -0.0         | -1.1         | -5.8          | -240.5    | 100.0       |

**April 7, 1997**

**0407-01/NMMA-7-2: 28-ft Hull 35% Styrene Resin Spray Up Lamination**

National Marine Manufacturers Association  
Baseline Styrene Emission Testing

Radian International LLC  
Stelling Engineering, P.A.  
Air Tech Environmental LLC

DAILY SPRAY EQUIPMENT CALIBRATION

Date: 4-7-97  
Initial: Larry Dargitz  
28' Hull

Spray Gun: \_\_\_\_\_

NMMA-7-2  
0407-1

Resin Flow Calibration (15-second evaluation)

|                | Pre-Test | Post-Test |
|----------------|----------|-----------|
| Run 1 Mass (g) | 707      | 773       |
| Run 2 Mass (g) |          |           |
| Run 3 Mass (g) |          |           |
| Average        |          |           |

Resin:Glass Ratio

|                |      |  |
|----------------|------|--|
| Mass resin (g) | 277  |  |
| Mass glass (g) | 149  |  |
| TOTAL          | 426  |  |
| Percent glass  | 34.9 |  |

| Material     | Drum No. | Gel Time (min) | Catalyst % Vol. | Setting |
|--------------|----------|----------------|-----------------|---------|
| Gelcoat      |          |                |                 |         |
| Resin (skin) | 3        |                |                 | 2.0     |
| Resin (lam)  | 3        |                |                 | 1 1/2   |

Thickness Checks

| Run         | 1 | 2 | 3 | 4 | 5 |
|-------------|---|---|---|---|---|
| 90 mil skin |   |   |   |   |   |
| 60 Roving   |   |   |   |   |   |
| 60 Rov      |   |   |   |   |   |
| 60 Rov      |   |   |   |   |   |
|             |   |   |   |   |   |
|             |   |   |   |   |   |

3 bottoms  
1 side  
1 Transom

4/7/97 GC Notes

- Re set up system on 4/6/97 - New Retention times

Styrene = 3.4"

- 204 Sty. AM cal little low

Post test calcs

|                      |     |               |                                   |
|----------------------|-----|---------------|-----------------------------------|
|                      | 324 | 559.2         | 2438030                           |
|                      | 325 | 59.2          | 2278206                           |
|                      | 326 | 59.2          | 2476634                           |
|                      | 327 | 122           | 3705645                           |
|                      | 328 | 122           | 4186493                           |
|                      | 329 | 122           | 4312864                           |
|                      | 330 | 204           | 7650397                           |
|                      | 331 | 204           | 8395095                           |
|                      | 332 | 204           | 1243392                           |
| R/S →                | 233 | 204           | 9233408 - High due to technique ? |
| <del>R/S</del> Delay | 234 | 204           | 5387706 - Low " " " ?             |
| 1                    | 235 | 204           | 5461389 - Low                     |
|                      | 236 | 204           | 12738776 - Wm LgH                 |
|                      | 237 | Bag 4 138 mmA | 2679008                           |
|                      | 238 | Bag 4         | 1813540                           |

DAILY GAS CHROMATOGRAPHY LOG

Date: 4/7/97

Initial: DN

Run 0407-1

Test NMMA-7-2 28' Hull 35% Resin

| Run No. | Time | Comments                  | THC    | MMA Area | Styrene Area |
|---------|------|---------------------------|--------|----------|--------------|
| 266     | 0712 | Air                       |        | -        | -            |
| 267     | 0725 | Air                       |        | -        | -            |
| 268     | 0811 | 59.2 Sty RT: 3.644        |        | -        | 2298784      |
| 269     | 0824 | 59.2 Sty RT: 3.611        |        | -        | 2434618      |
| 270     | 0832 | 59.2 Sty RT: 3.624        |        | -        | 2284744      |
| 271     | 0840 | 122 Sty RT: 3.517         |        |          | 4730714      |
| 272     | 0849 | 122 Sty RT: 3.622         |        |          | 4646787      |
| 273     | 0858 | 204 Sty RT: 3.658         |        |          | 8126093      |
| 274     | 0904 | 204 Sty RT: 3.658         |        |          | 7330531      |
| 275     | 0910 | 204 Sty RT: 3.655         |        |          | 6897741      |
| 276     | 0917 | 204 Sty RT: 3.654         |        |          | 7350739      |
| 277     | 0931 | 204 Sty - Cal ✓: =199 ppm |        |          | 7182115      |
| 278     | 0940 | NMMA-7-2-1                | 320    |          | 5507010      |
| 279     | 0945 | 2                         | ~300   |          | 5408516      |
| 280     | 0951 | 3                         | 490(?) |          | 6834496      |
| 281     | 0957 | 4                         | 491(?) |          | 9327008      |
| 282     | 1005 | 5 (late start)            | 165    |          | 3603860      |
| 283     | 1012 | 6                         | 160    |          | 3408750      |
| 284     | 1019 | 7                         | 140    |          | 2251072      |
| 285     | 1024 | 8                         | 510    |          | 4202022      |
| 286     | 1030 | 9                         | 464    |          | 2760400      |
| 287     | 1036 | 10                        | 530    |          | 8444000      |
| 288     | 1042 | 11                        | 308    |          | 4619731      |
| 289     | 1048 | 12                        | 183    |          | 2787898      |
| 290     | 1054 | 13                        | 150    |          | 2693934      |
| 291     | 1102 | 14                        | 115    |          | 1994148      |
| 292     | 1108 | 15                        | 93     |          | 1595645      |
| 293     | 1117 | 16                        | 80     |          | 1726360      |
| 294     | 1124 | 17                        | 75     |          | 1495731      |
| 295     | 1120 | 18                        | 71(3)  |          | 1209129      |
| 296     | 1147 | 19                        | 30     |          | 567014       |
| 297     | 1154 | 20                        | 240    |          | 8812472      |
| 298     | 1159 | 21                        | 464    |          | 7448733      |
| 299     | 1205 | 22                        | -      |          | 9782944      |

1782

CAL ↑  
NMMA-7-2  
↓



20632

DAILY GAS CHROMATOGRAPHY LOG

Date: 4/7/97

Initial: [Signature]

Run C407-1

Test MMA-7-2

| Run No. | Time | Comments              | THC  | MMA Area | Styrene Area |
|---------|------|-----------------------|------|----------|--------------|
| 300     | 1212 | MMA-7-2-23 (late St.) | 600  | N/A      | 2083496      |
| 301     | 1217 | 24                    | 390  |          | 6464352      |
| 302     | 1223 | 25                    | 233  |          | 2973750      |
| 303     | 1229 | 26                    | -    |          | 2606621      |
| 304     | 1235 | 27 26*                | 128  |          | 2123618      |
| 305     | 1240 | 28 27                 | 104  |          | 1756431      |
| 306     | 1246 | 29 28                 | 89   |          | 1555785      |
| 307     | 1251 | 30 29                 | 43   |          | 1266066      |
| 308     | 1257 | 31 30-late start      | 330  |          | 5606346      |
| 309     | 1302 | 32 31                 | 255  |          | 4216259      |
| 310     | 1307 | 33 32                 | ~360 |          | 8211418      |
| 311     | 1314 | 34 33                 | 466  |          | 7494714      |
| 312     | 1320 | 35 34                 | 470  |          | 8272829      |
| 313     | 1327 | 36 35                 | 310  |          | 5127853      |
| 314     | 1334 | 37 36                 | 160  |          | 2780098      |
| 315     | 1340 | 38 37                 | 107  |          | 1718242      |
| 316     | 1346 | 39 38                 | 101  |          | 19324156     |
| 317     | 1354 | 40                    | 96   |          | 2154920      |
| 318     | 1401 | 41                    | 76   |          | 1254608      |
| 319     | 1406 | 42                    | 57   |          | 994442       |
| 320     | 1412 | 43                    | 38   |          | 721243       |
| 321     | 1421 | 44                    | 320  |          | 342870       |
| 322     | 1428 | 45                    | 14   |          | 281333       |
| 323     | 1435 | 46                    | 11   |          | 254353       |
| 324     |      | 59.2 Sty              |      |          | 2438030      |
| 325     |      | 59.2                  |      |          | 2278206      |
| 326     |      | 59.2                  |      |          | 2476634      |
| 327     |      | 122                   |      |          | 3705645      |
| 328     |      | 122                   |      |          | 4186493      |
| 329     |      | 122                   |      |          | 4312864      |
| 330     |      | 204                   |      |          | 8395095      |
| 331     |      | 204                   |      |          | 7658397      |
| 337     |      | Bag 4 138 MMA         |      | 2679008  | 2679008      |
| 338     |      | Bag 4                 |      | 1813540  |              |

Post  
TST

\* Hit "plot", not start; stopped & restarted. RT off, Area @ 3.322 = Sty.

\*  
\*  
\*

Power failed  
APR 6, 1997 11:42:04

BREAK

\*

Power failed  
APR 6, 1997 12:54:45

BREAK

\* RUN # 265      APR 6, 1997 14:07:30  
START  
STOP

RUN# 265      APR 6, 1997 14:07:30  
NO RUN PEAKS STORED

\*TIME07:12:15  
APR 7, 1997 07:12:15

\* RUN # 266      APR 7, 1997 07:14:08  
START

0.300  
0.619

STOP

RUN# 266 APR 7, 1997 07:14:08

NO CALIB PEAKS FOUND

AREA%

| RT   | AREA  | TYPE | WIDTH | AREA%    |
|------|-------|------|-------|----------|
| .300 | 54041 | BU   | .147  | 47.77190 |
| .619 | 59082 | PB   | .094  | 52.22811 |

TOTAL AREA= 113123  
MUL FACTOR=1.0000E+00

\* RUN # 267 APR 7, 1997 07:25:12

START

0.288  
0.612

STOP

RUN# 267 APR 7, 1997 07:25:12

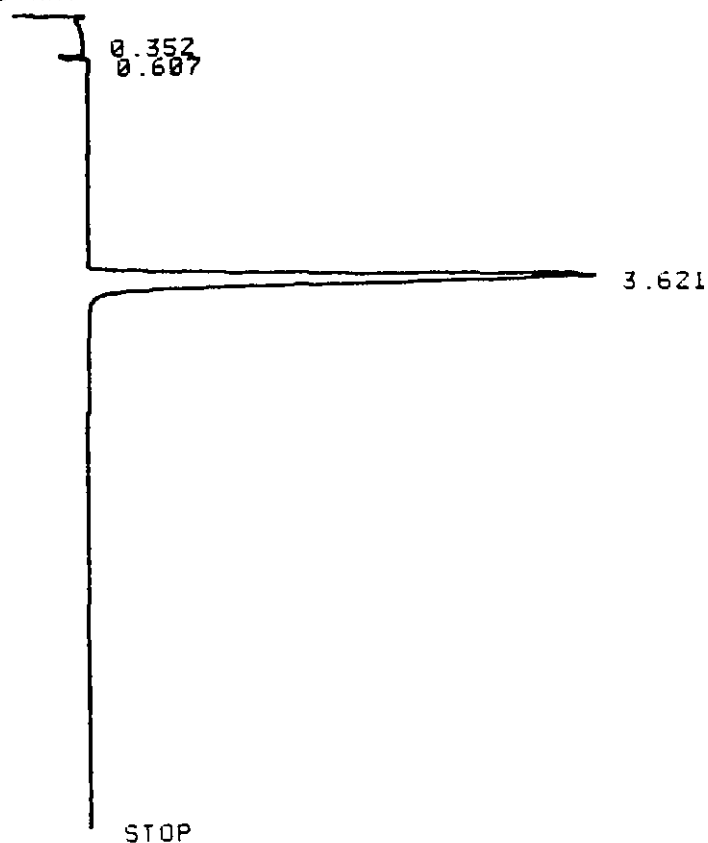
NO CALIB PEAKS FOUND

AREA%

| RT   | AREA  | TYPE | WIDTH | AREA%    |
|------|-------|------|-------|----------|
| .288 | 72569 | BU   | .168  | 61.25411 |
| .612 | 45903 | PB   | .083  | 38.74587 |

TOTAL AREA= 118472  
MUL FACTOR=1.0000E+00

\* RUN # 268 APR 7, 1997 08:11:42  
START



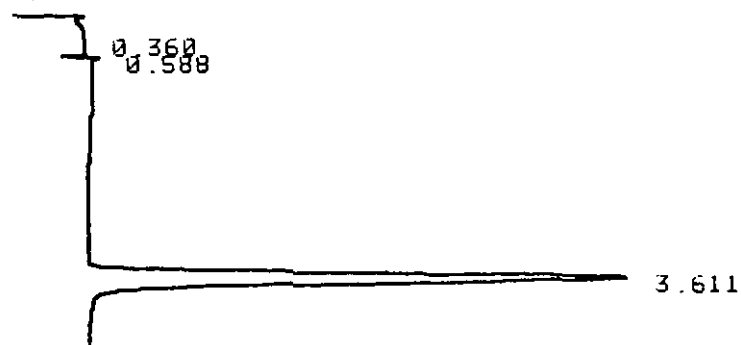
RUN# 268 APR 7, 1997 08:11:42

NO CALIB PEAKS FOUND  
AREA%

| RT    | AREA    | TYPE | WIDTH | AREA%    |
|-------|---------|------|-------|----------|
| .352  | 77366   | BU   | .175  | 3.20369  |
| .607  | 38751   | PB   | .074  | 1.60466  |
| 3.621 | 2298784 | PB   | .161  | 95.19165 |

TOTAL AREA=2414901  
MUL FACTOR=1.0000E+00

\* RUN # 269 APR 7, 1997 08:24:26  
START



STOP

RUN# 269 APR 7, 1997 08:24:26

NO CALIB PEAKS FOUND

AREA%

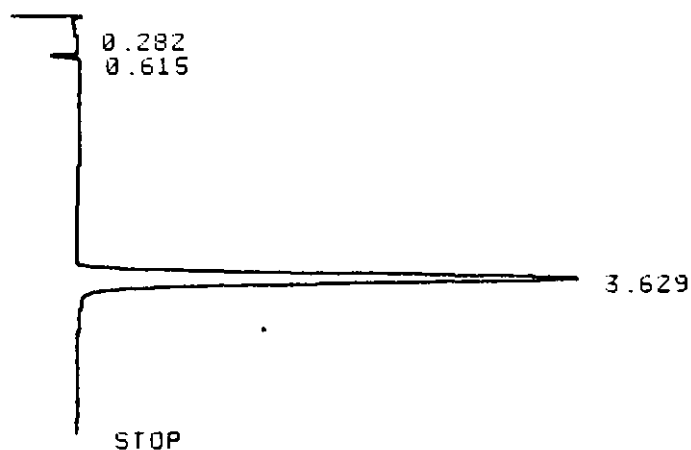
| RT    | AREA    | TYPE | WIDTH | AREA%    |
|-------|---------|------|-------|----------|
| .360  | 140316  | BU   | .232  | 5.37518  |
| .588  | 35508   | PB   | .043  | 1.36023  |
| 3.611 | 2434618 | BB   | .161  | 93.26458 |

TOTAL AREA=2610442

MUL FACTOR=1.0000E+00

\* RUN # 270 APR 7, 1997 08:32:56

START



RUN# 270 APR 7, 1997 08:32:56

NO CALIB PEAKS FOUND

AREA%

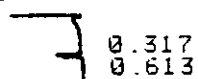
| RT    | AREA    | TYPE | WIDTH | AREA%    |
|-------|---------|------|-------|----------|
| .282  | 62717   | BU   | .152  | 2.63835  |
| .615  | 29672   | PB   | .074  | 1.24823  |
| 3.629 | 2284744 | PB   | .162  | 96.11344 |

TOTAL AREA=2377133

MUL FACTOR=1.0000E+00

\* RUN # 271 APR 7, 1997 08:40:14

START



3.597

STOP

RUN# 271 APR 7, 1997 08:40:14

NO CALIB PEAKS FOUND  
AREA%

| RT    | AREA    | TYPE | WIDTH | AREA%    |
|-------|---------|------|-------|----------|
| .317  | 95424   | BU   | .180  | 1.96633  |
| .613  | 26760   | PB   | .079  | .55142   |
| 3.597 | 4730714 | PB   | .161  | 97.48224 |

TOTAL AREA=4852896  
MUL FACTOR=1.0000E+00

\* RUN # 272 APR 7, 1997 08:49:04  
START

0.287  
0.620

3.622

STOP

RUN# 272 APR 7, 1997 08:49:04

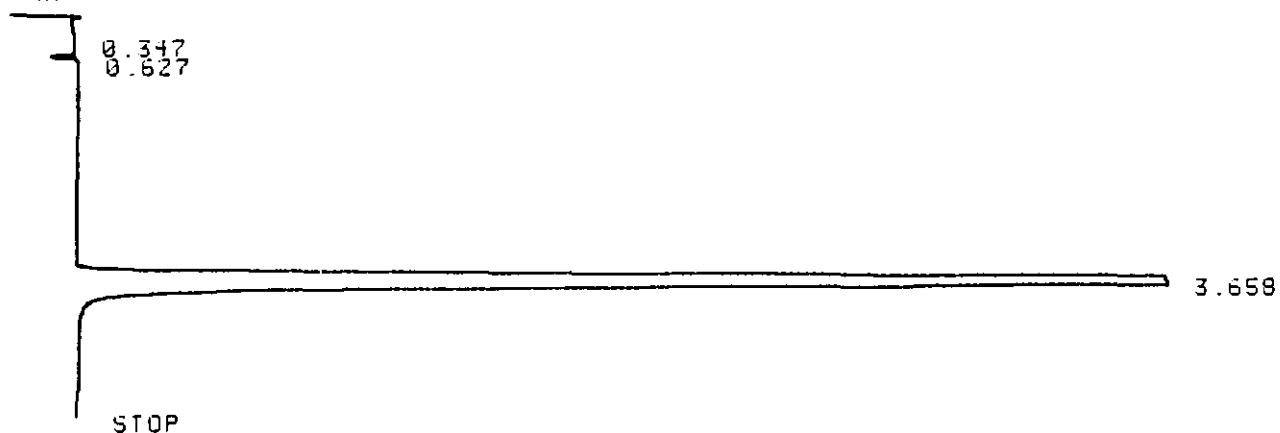
NO CALIB PEAKS FOUND  
AREA%

| RT   | AREA  | TYPE | WIDTH | AREA%   |
|------|-------|------|-------|---------|
| .287 | 74502 | BU   | .154  | 1.56857 |
| .620 | 28722 | BU   | .070  | .62754  |

3.622 4646787 PB .161 97.83379

TOTAL AREA=4749677  
MUL FACTOR=1.0000E+00

\* RUN # 273 APR 7, 1997 08:58:27  
START



RUN# 273 APR 7, 1997 08:58:27

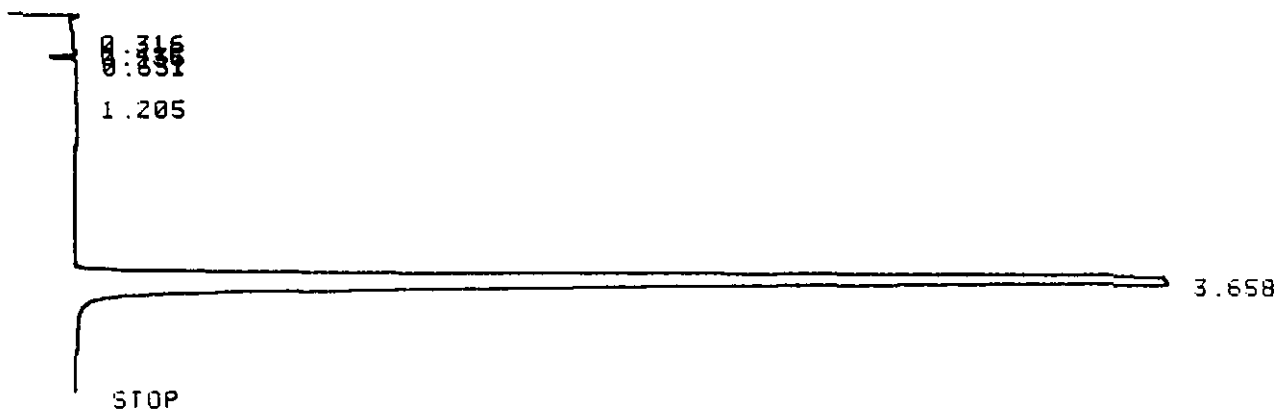
NO CALIB PEAKS FOUND

AREA%

| RT    | AREA    | TYPE | WIDTH | AREA%    |
|-------|---------|------|-------|----------|
| .347  | 122894  | BU   | .235  | 1.48488  |
| .627  | 27368   | PB   | .078  | .33068   |
| 3.658 | 8126093 | PB   | .162  | 98.18445 |

TOTAL AREA=8276355  
MUL FACTOR=1.0000E+00

\* RUN # 274 APR 7, 1997 09:04:39  
START



RUN# 274 APR 7, 1997 09:04:39

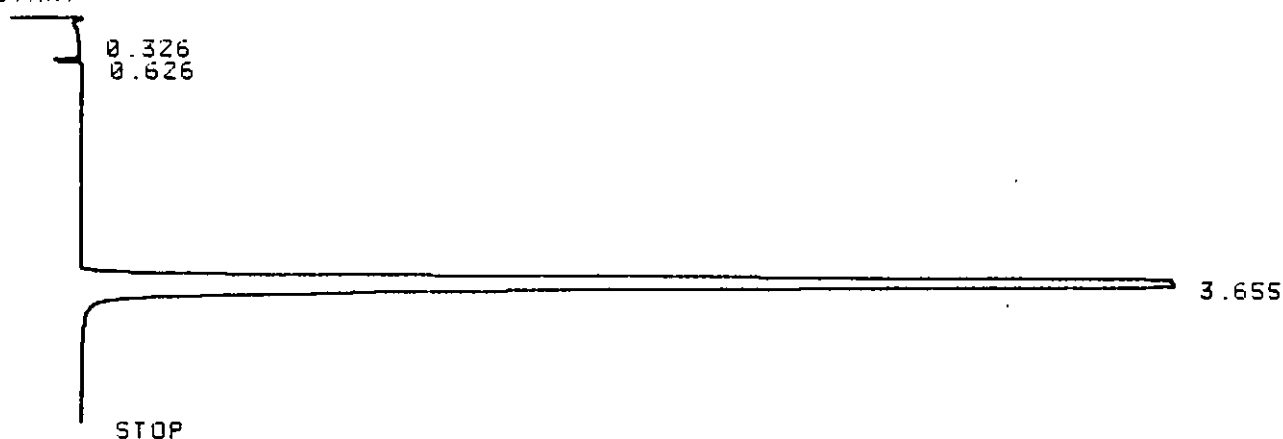


NO CALIB PEAKS FOUND  
AREA%

| RT    | AREA    | TYPE | WIDTH | AREA%    |
|-------|---------|------|-------|----------|
| .316  | 75123   | BU   | .162  | .99964   |
| .436  | 55951   | UU   | .095  | .74452   |
| .631  | 52365   | PB   | .104  | .69681   |
| 1.205 | 1036    | UU   | .092  | .01379   |
| 3.658 | 7330531 | PB   | .162  | 97.54525 |

TOTAL AREA=7515008  
MUL FACTOR=1.0000E+00

\* RUN # 275 APR 7, 1997 09:10:52  
START



RUN# 275 APR 7, 1997 09:10:52

NO CALIB PEAKS FOUND  
AREA%

| RT    | AREA    | TYPE | WIDTH | AREA%    |
|-------|---------|------|-------|----------|
| .326  | 89006   | BU   | .175  | 1.26668  |
| .626  | 39959   | PB   | .086  | .56867   |
| 3.655 | 6897741 | BB   | .162  | 98.16464 |

TOTAL AREA=7026704  
MUL FACTOR=1.0000E+00

\* RUN # 276 APR 7, 1997 09:17:36  
START



STOP

RUN# 276 APR 7, 1997 09:17:36

NO CALIB PEAKS FOUND

AREA%

| RT    | AREA    | TYPE | WIDTH | AREA%    |
|-------|---------|------|-------|----------|
| .295  | 73878   | BU   | .160  | .98632   |
| .630  | 65667   | PB   | .119  | .87670   |
| 3.654 | 7350739 | PB   | .162  | 98.13699 |

TOTAL AREA=7490285

MUL FACTOR=1.0000E+00

\* DELETE CALIB @  
DELETE ALL [Y/N\*]: Y

\* PREP CALIB @

E = EXTERNAL STANDARD  
I = INTERNAL STANDARD  
N = NORMALIZATION

CALIB PROCEDURE [E\*/I/N]:

REF % RTW [ 5.000]:  
NON-REF % RTW [ 5.000]:

RF BASED ON AREA OR HEIGHT [A\*/H]:

| CAL# | RT     | AMT  | NAME     |
|------|--------|------|----------|
| 1    | :3.654 | :204 | :STYRENE |
| 2    | :      | :    | :        |

REF PK CAL#:

GROUP PEAKS [Y/N\*]:

CALIBRATION OPTIONS

RF of uncalibrated peaks [0.0000E+00 ]:

Replace calibration fit [Y/N\*]:

Disable post-run RT update [Y/N\*]:

SAMPLE AMT [0.0000E+00 ]:

MUL FACTOR [1.0000E+00 ]:

\* RUN # 277 APR 7, 1997 09:31:34  
START

0.313  
0.631

3.638

STOP

RUN# 277 APR 7, 1997 09:31:34

ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT  |
|-------|------------|------|---------|
| 3.638 | 7182115 PB | 1R   | 199.320 |

TOTAL AREA=7320829

MUL FACTOR=1.0000E+00

\* RUN # 278 APR 7, 1997 09:40:08

START

0:206  
0:571  
0:000  
1:341  
1:914  
2:146  
2:450  
2:729

3.614

STOP

RUN# 278 APR 7, 1997 09:40:08

ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT  |
|-------|------------|------|---------|
| 3.614 | 5507040 PB | 1R   | 152.833 |

TOTAL AREA=5636653

MUL FACTOR=1.0000E+00

\* RUN # 279 APR 7, 1997 09:45:40

START

0:206  
0:000  
0:004  
1:330  
1:600

2:428

3.620

STOP

RUN# 279 APR 7, 1997 09:45:40

ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT  |
|-------|------------|------|---------|
| 3.620 | 5408576 PB | 1R   | 150.100 |

TOTAL AREA=6168278

MUL FACTOR=1.0000E+00

\* RUN # 280 APR 7, 1997 09:51:38

START

0.333  
0.666  
0.999  
1.332  
1.665  
2.000  
2.333  
2.666

3.587

STOP

RUN# 280 APR 7, 1997 09:51:38

ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT  |
|-------|------------|------|---------|
| 3.587 | 6834496 PB | 1R   | 189.673 |

TOTAL AREA=7628995

MUL FACTOR=1.0000E+00

\* RUN # 281 APR 7, 1997 09:57:05

START

0.361  
0.722  
1.083  
1.444  
1.805  
2.166  
2.527  
2.888

STOP

RUN# 281 APR 7, 1997 09:57:05

## ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT  |
|-------|------------|------|---------|
| 3.590 | 9327008 PB | 1R   | 258.846 |

TOTAL AREA=1.0322E+07

MUL FACTOR=1.0000E+00

\* RUN # 282 APR 7, 1997 10:05:58

START

0.293  
0.5508  
0.885  
1.272  
1.841

2.350

3.521

STOP

RUN# 282 APR 7, 1997 10:05:58

## ESTD-AREA

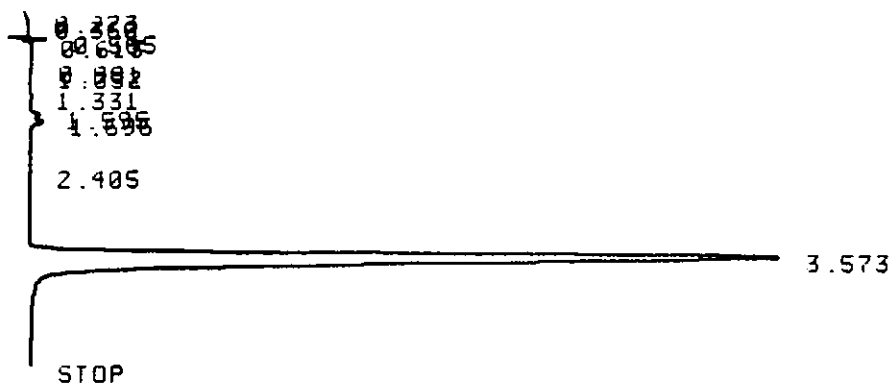
| RT    | AREA TYPE  | CAL# | AMOUNT  |
|-------|------------|------|---------|
| 3.521 | 3603800 UB | 1R   | 100.014 |

TOTAL AREA=4397635

MUL FACTOR=1.0000E+00

\* RUN # 283 APR 7, 1997 10:12:58

START

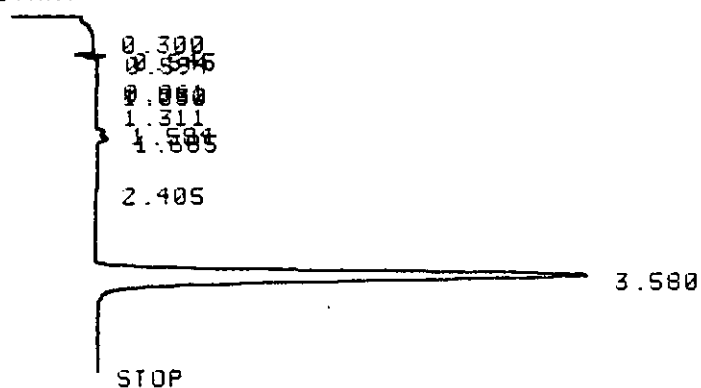


RUN# 283 APR 7, 1997 10:12:58

| ESTD-AREA | RT      | AREA TYPE | CAL# | AMOUNT |
|-----------|---------|-----------|------|--------|
| 3.573     | 3408750 | PB        | 1R   | 94.601 |

TOTAL AREA=4149990  
MUL FACTOR=1.0000E+00

\* RUN # 284 APR 7, 1997 10:19:14  
START

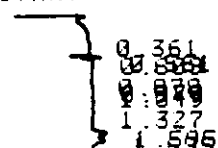


RUN# 284 APR 7, 1997 10:19:14

| ESTD-AREA | RT      | AREA TYPE | CAL# | AMOUNT |
|-----------|---------|-----------|------|--------|
| 3.580     | 2251072 | PB        | 1R   | 62.472 |

TOTAL AREA=2887520  
MUL FACTOR=1.0000E+00

\* RUN # 285 APR 7, 1997 10:24:39  
START



2:488  
2:483

3.581

STOP

RUN# 285 APR 7, 1997 10:24:39

ESTD-AREA

| RT    | AREA TYPE | CAL#  | AMOUNT  |
|-------|-----------|-------|---------|
| 3.581 | 9202022   | 88 1R | 255.377 |

TOTAL AREA=1.0046E+07

MUL FACTOR=1.0000E+00

\* RUN # 286 APR 7, 1997 10:30:15

START

0.350  
0.564  
0.884  
1.340  
1.619

2.255  
2.430  
2.720

3.619

STOP

RUN# 286 APR 7, 1997 10:30:15

ESTD-AREA

| RT    | AREA TYPE | CAL#  | AMOUNT  |
|-------|-----------|-------|---------|
| 3.619 | 6760400   | P8 1R | 187.617 |

TOTAL AREA=7590269

MUL FACTOR=1.0000E+00

\* RUN # 287 APR 7, 1997 10:36:05

START

0.340  
0.549  
0.880  
1.310  
1.690

2.143  
2.330  
2.703

STOP

RUN# 287 APR 7, 1997 10:36:05

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.585 | 8444000 | PB   | 1R   | 234.340 |

TOTAL AREA=9.4274E+06

MUL FACTOR=1.0000E+00

\* RUN # 288 APR 7, 1997 10:42:45  
START

0.325  
0.544  
0.868  
1.315  
1.889

2.399

3.590

STOP

RUN# 288 APR 7, 1997 10:42:45

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.590 | 4619731 | PB   | 1R   | 128.208 |

TOTAL AREA=4819539

MUL FACTOR=1.0000E+00

\* RUN # 289 APR 7, 1997 10:48:19  
START

0.360  
0.516  
0.800  
1.340  
1.789

2.416

3.603



STOP

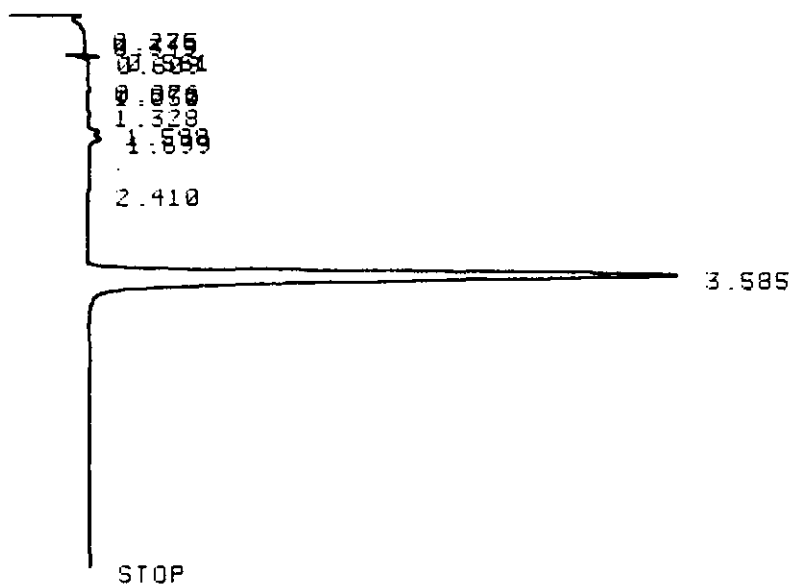
RUN# 289 APR 7, 1997 10:48:19

ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT |
|-------|------------|------|--------|
| 3.603 | 2987898 PB | 1R   | 82.921 |

TOTAL AREA=3788098  
MUL FACTOR=1.0000E+00

\* RUN # 290 APR 7, 1997 10:54:42  
START



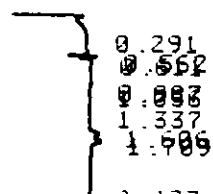
RUN# 290 APR 7, 1997 10:54:42

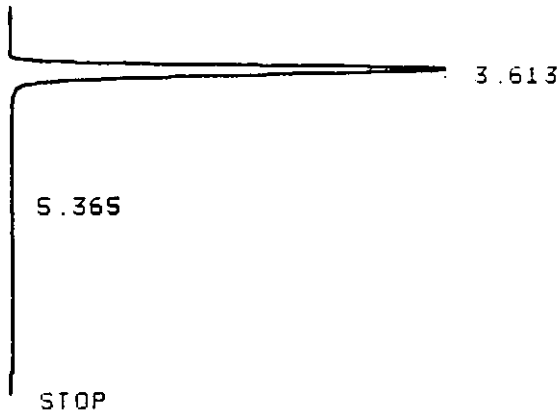
ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT |
|-------|------------|------|--------|
| 3.585 | 2693934 PB | 1R   | 74.763 |

TOTAL AREA=3471125  
MUL FACTOR=1.0000E+00

\* RUN # 291 APR 7, 1997 11:02:53  
START





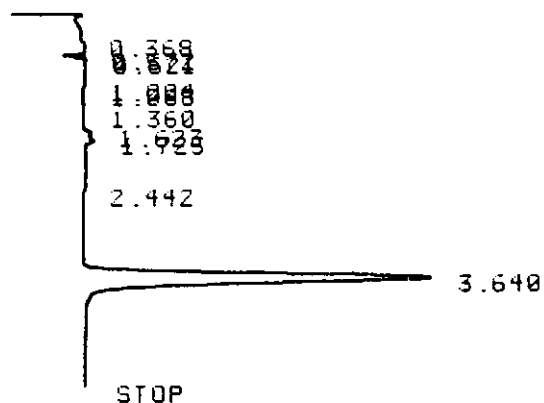
RUN# 291 APR 7, 1997 11:02:53

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 3.613 | 1994148 | BB   | 1R   | 55.342 |

TOTAL AREA=2527950  
MUL FACTOR=1.0000E+00

\* RUN # 292 APR 7, 1997 11:11:34  
START



RUN# 292 APR 7, 1997 11:11:34

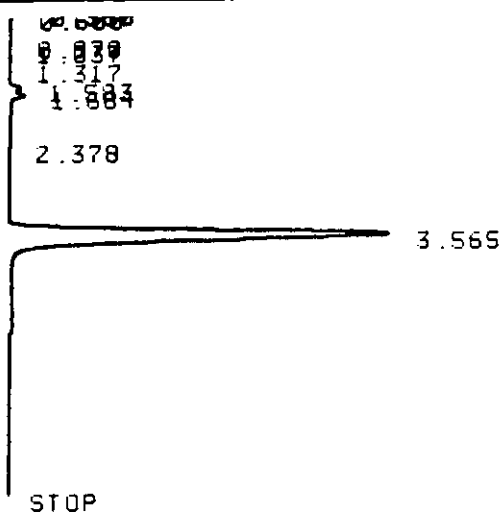
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 3.640 | 1595645 | PB   | 1R   | 44.283 |

TOTAL AREA=2084416  
MUL FACTOR=1.0000E+00

\* RUN # 293 APR 7, 1997 11:17:17  
START





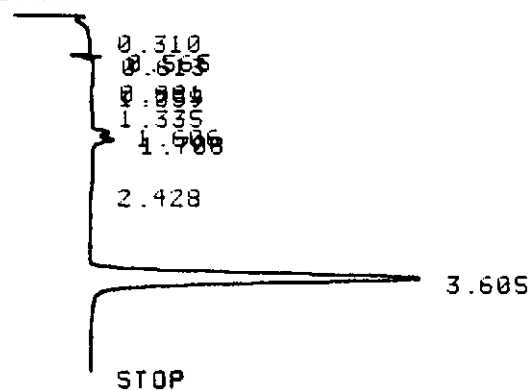
RUN# 293 APR 7, 1997 11:17:17

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 3.565 | 1726360 | PB   | 1R   | 47.910 |

TOTAL AREA=2327034  
MUL FACTOR=1.0000E+00

\* RUN # 294 APR 7, 1997 11:24:58  
START



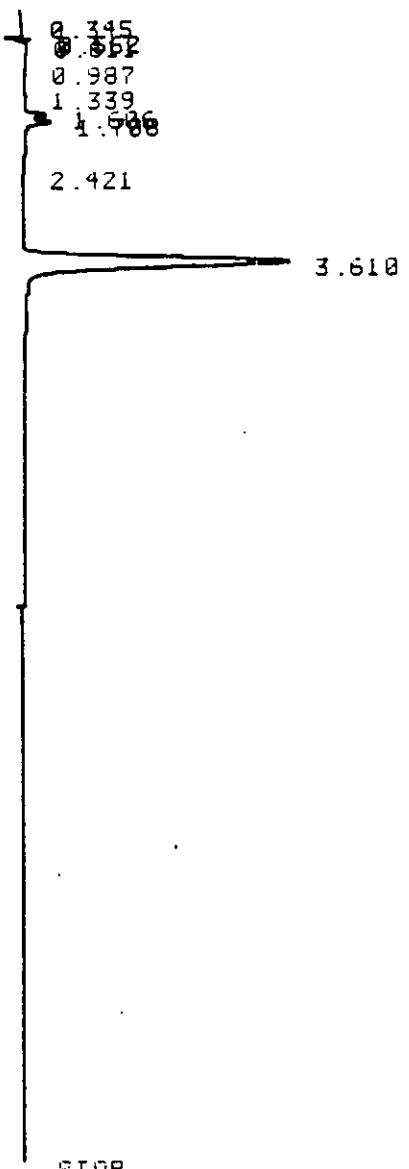
RUN# 294 APR 7, 1997 11:24:58

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 3.605 | 1495771 | PB   | 1R   | 41.511 |

TOTAL AREA=1927109  
MUL FACTOR=1.0000E+00

\* RUN # 295 APR 7, 1997 11:30:59  
START



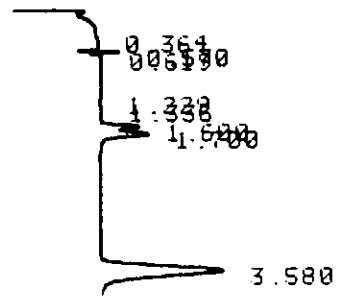
STOP

RUN# 295 APR 7, 1997 11:30:59

| ESTD-AREA |         |      |      |        |
|-----------|---------|------|------|--------|
| RT        | AREA    | TYPE | CAL# | AMOUNT |
| 3.610     | 1209129 | BB   | 1R   | 33.556 |

TOTAL AREA=1031981  
 MUL FACTOR=1.0000E+00

\* RUN # 296 APR 7, 1997 11:47:21  
 START



STOP

RUN# 296 APR 7, 1997 11:47:21

ESTD-AREA

| RT    | AREA TYPE | CAL# | AMOUNT |
|-------|-----------|------|--------|
| 3.580 | 567016 PB | 1R   | 15.736 |

TOTAL AREA=1024146  
MUL FACTOR=1.0000E+00

\* RUN # 297 APR 7, 1997 11:54:01  
START



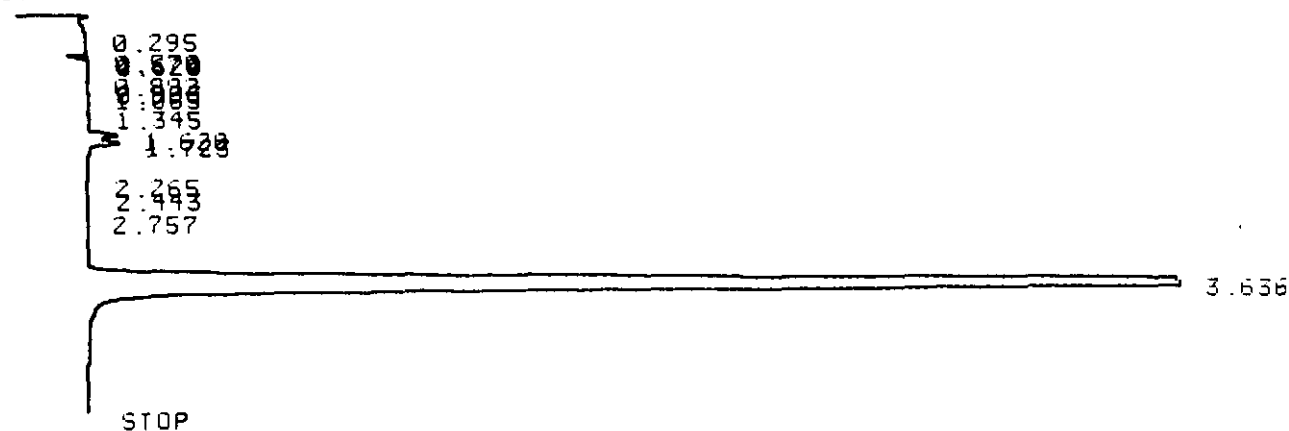
RUN# 297 APR 7, 1997 11:54:01

ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT  |
|-------|------------|------|---------|
| 3.605 | 3812472 BB | 1R   | 105.805 |

TOTAL AREA=4508614  
MUL FACTOR=1.0000E+00

\* RUN # 298 APR 7, 1997 11:59:21  
START



RUN# 298 APR 7, 1997 11:59:21

ESTD-AREA

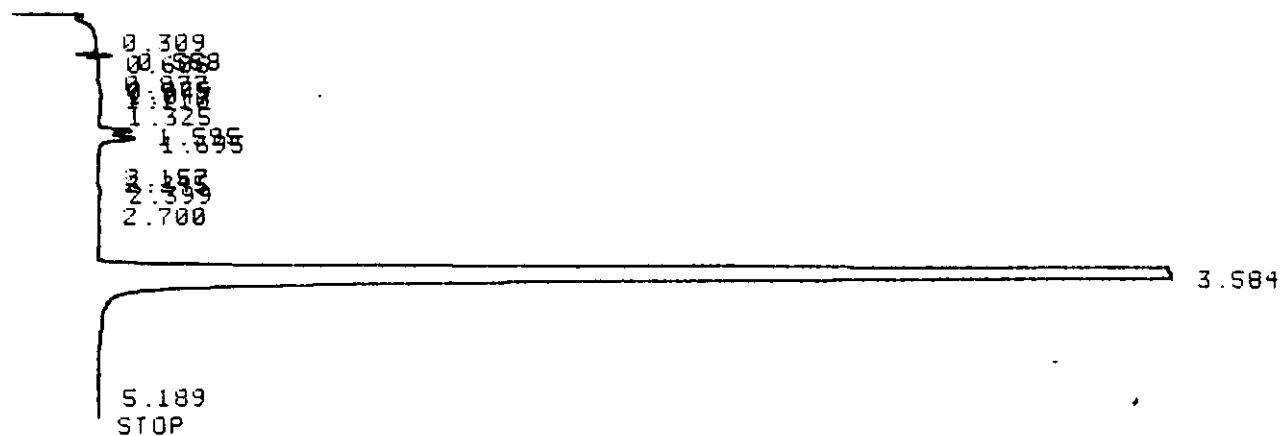
| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.636 | 7448733 | PB   | 1R   | 206.720 |

TOTAL AREA=7957395

MUL FACTOR=1.0000E+00

\* RUN # 299 APR 7, 1997 12:05:21

START



RUN# 299 APR 7, 1997 12:05:21

ESTD-AREA

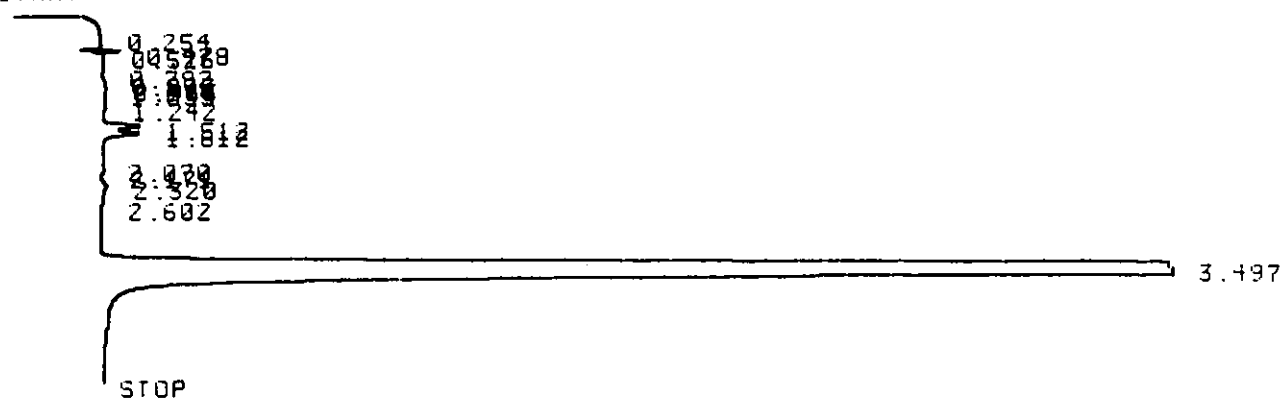
| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.584 | 9702944 | PB   | 1R   | 269.279 |

TOTAL AREA=1.0394E+07

MUL FACTOR=1.0000E+00

\* RUN # 300 APR 7, 1997 12:12:11

START



RUN# 300

APR 7, 1997 12:12:11

ESTD-AREA

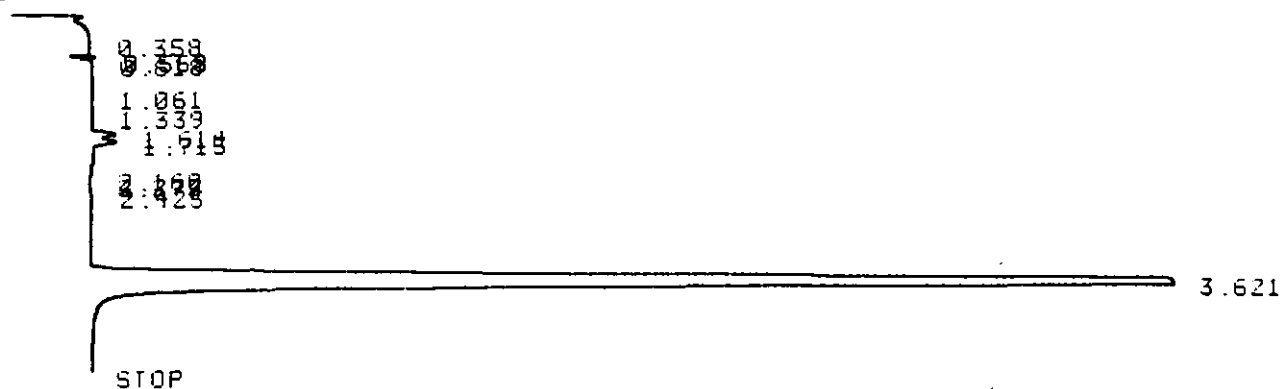
| RT    | AREA TYPE   | CAL# | AMOUNT  |
|-------|-------------|------|---------|
| 3.497 | 12083496 PB | 1R   | 335.345 |

TOTAL AREA=1.2850E+07

MUL FACTOR=1.0000E+00

\* RUN # 301 APR 7, 1997 12:17:44

START



RUN# 301

APR 7, 1997 12:17:44

ESTD-AREA

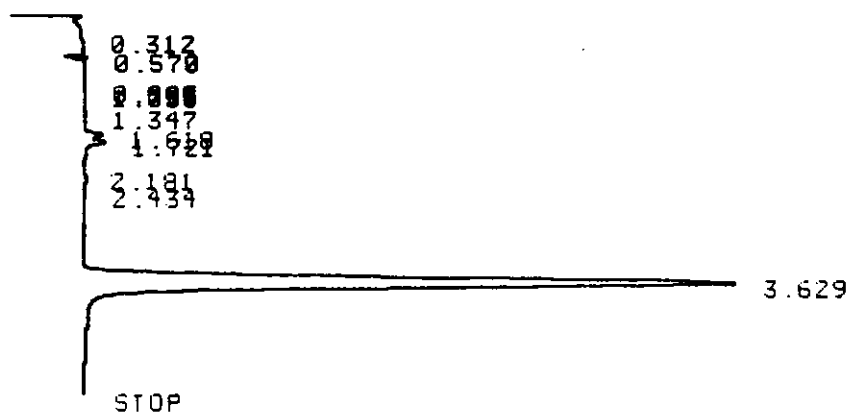
| RT    | AREA TYPE  | CAL# | AMOUNT  |
|-------|------------|------|---------|
| 3.621 | 6464352 PB | 1R   | 179.401 |

TOTAL AREA=6778070

MUL FACTOR=1.0000E+00

\* RUN # 302 APR 7, 1997 12:23:46

START



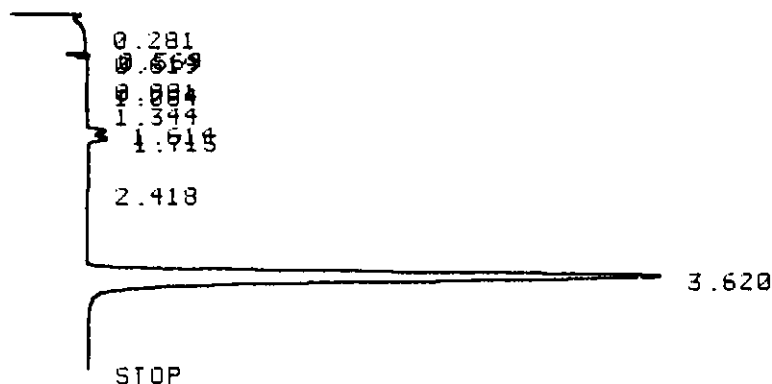
RUN# 302

APR 7, 1997 12:23:46

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 3.629 | 2973750 | P8   | 1R   | 82.528 |

TOTAL AREA=3171878  
MUL FACTOR=1.0000E+00

\* RUN # 303      APR 7, 1997 12:29:29  
START



RUN# 303      APR 7, 1997 12:29:29

ESTD-AREA

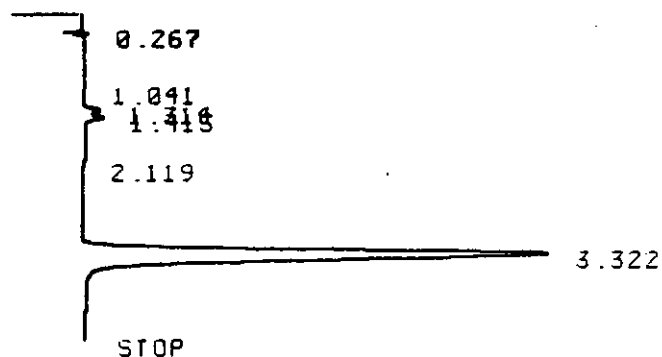
| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 3.620 | 2606621 | P8   | 1R   | 72.340 |

TOTAL AREA=3288720  
MUL FACTOR=1.0000E+00

\* PLOT

STOP

\* RUN # 304      APR 7, 1997 12:35:32  
START



RUN# 304      APR 7, 1997 12:35:32

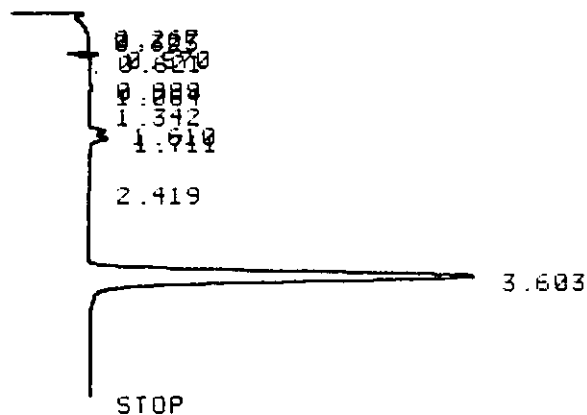
NO CALIB PEAKS FOUND  
00000



| RT    | AREA    | TYPE | WIDTH | AREA%    |
|-------|---------|------|-------|----------|
| .267  | 24319   | I PB | .033  | 1.09003  |
| 1.041 | 2819    | PP   | .079  | .12635   |
| 1.314 | 32671   | PU   | .067  | 1.46439  |
| 1.415 | 43678   | UB   | .077  | 1.95775  |
| 2.119 | 3927    | UU   | .123  | .17602   |
| 3.322 | 2123618 | PB   | .162  | 95.18544 |

TOTAL AREA=2231032  
MUL FACTOR=1.0000E+00

\* RUN # 305 APR 7, 1997 12:40:45  
START



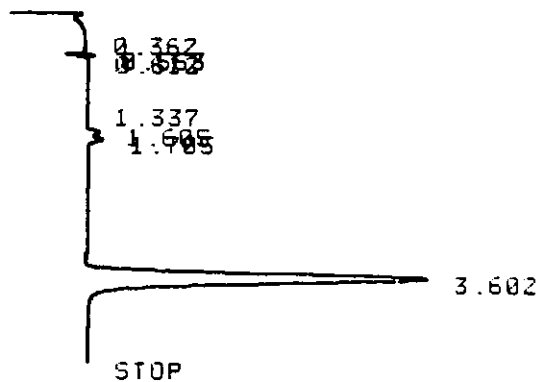
RUN# 305 APR 7, 1997 12:40:45

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 3.603 | 1756431 | PB   | 1R   | 48.745 |

TOTAL AREA=2009305  
MUL FACTOR=1.0000E+00

\* RUN # 306 APR 7, 1997 12:46:29  
START



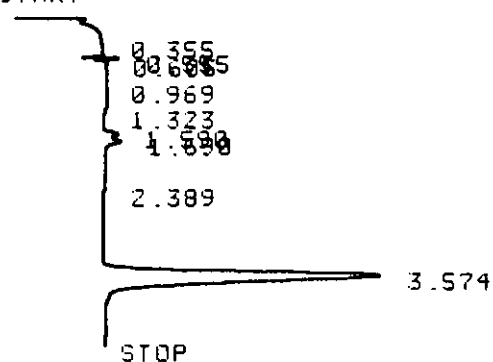
RUN# 306 APR 7, 1997 12:46:29

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 3.602 | 1555785 | PB   | 1R   | 43.177 |

TOTAL AREA=2042459  
MUL FACTOR=1.0000E+00

\* RUN # 307 APR 7, 1997 12:51:44  
START



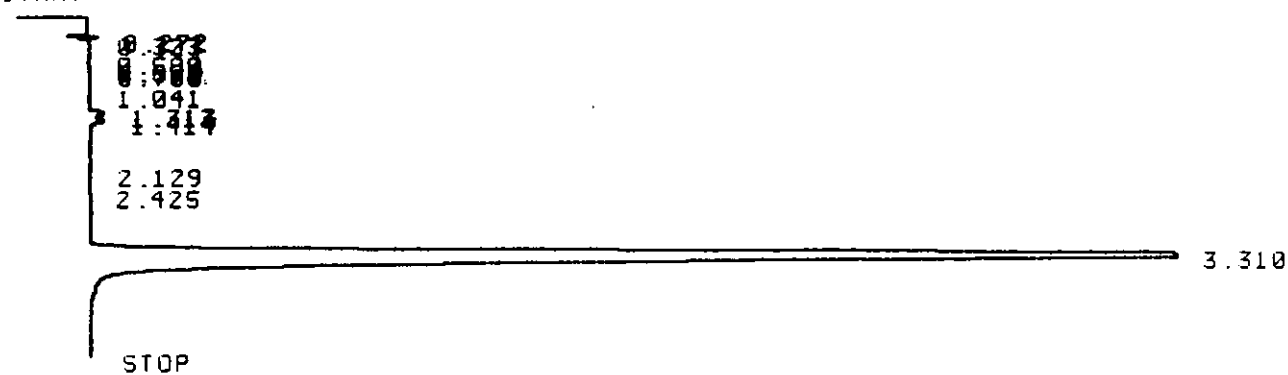
RUN# 307 APR 7, 1997 12:51:44

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 3.574 | 1266066 | PB   | 1R   | 35.136 |

TOTAL AREA=1890314  
MUL FACTOR=1.0000E+00

\* RUN # 308 APR 7, 1997 12:57:07  
START



RUN# 308 APR 7, 1997 12:57:07

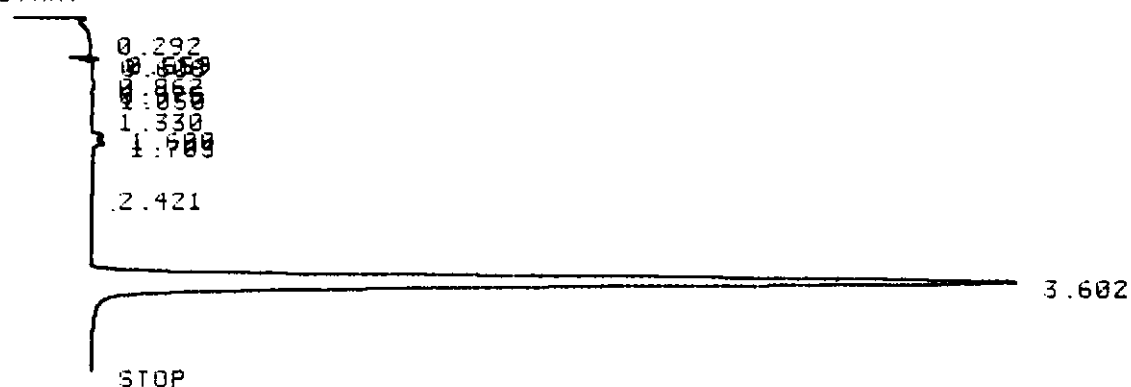
NO CALIB PEAKS FOUND  
AREAX

| RT | AREA | TYPE | WIDTH | AREAX |
|----|------|------|-------|-------|
|----|------|------|-------|-------|

|       |         |    |      |          |
|-------|---------|----|------|----------|
| .323  | 122794  | UU | .182 | 1.94423  |
| .580  | 52835   | UU | .091 | .83655   |
| .692  | 70062   | UU | .118 | 1.10931  |
| .760  | 41914   | UU | .071 | .66363   |
| 1.041 | 111577  | UU | .216 | 1.76662  |
| 1.313 | 86750   | UU | .105 | 1.37353  |
| 1.414 | 122847  | UU | .156 | 1.94506  |
| 2.129 | 62749   | UU | .223 | .99352   |
| 2.425 | 23724   | UU | .162 | .37563   |
| 3.310 | 5606346 | PB | .162 | 88.76653 |

TOTAL AREA=6315830  
MUL FACTOR=1.0000E+00

\* RUN # 309 APR 7, 1997 13:02:33  
START



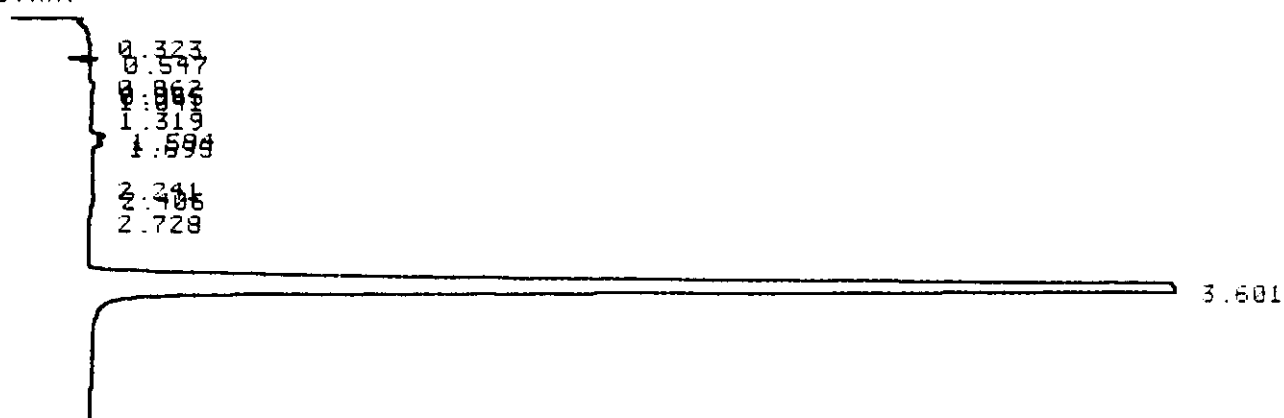
RUN# 309 APR 7, 1997 13:02:33

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.602 | 4216259 | PB   | 1R   | 117.011 |

TOTAL AREA=4697290  
MUL FACTOR=1.0000E+00

\* RUN # 310 APR 7, 1997 13:07:55  
START



STOP

RUN# 310 APR 7, 1997 13:07:55

ESTD-AREA

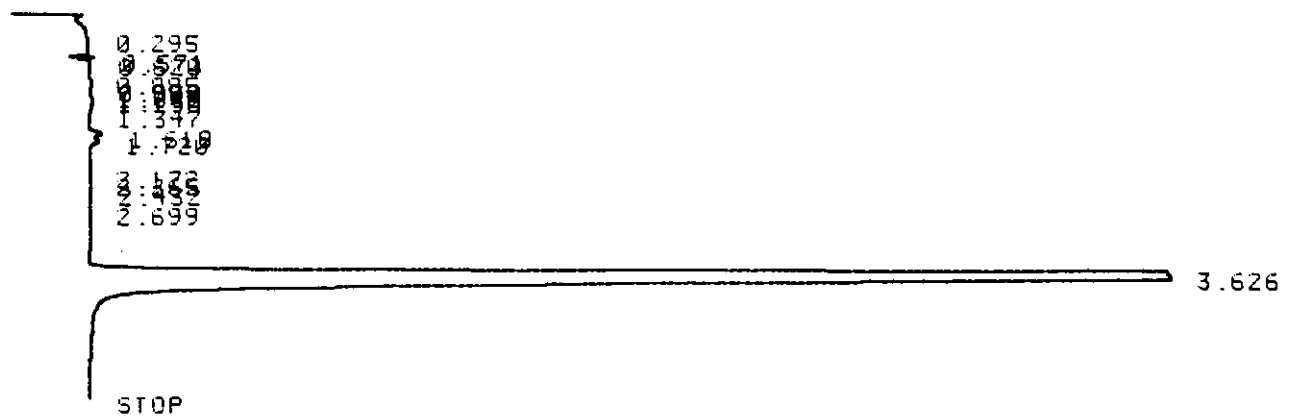
| RT    | AREA TYPE  | CAL# | AMOUNT  |
|-------|------------|------|---------|
| 3.601 | 8211418 PB | 1R   | 227.986 |

TOTAL AREA=8.4827E+06

MUL FACTOR=1.0000E+00

\* RUN # 311 APR 7, 1997 13:14:49

START



STOP

RUN# 311 APR 7, 1997 13:14:49

ESTD-AREA

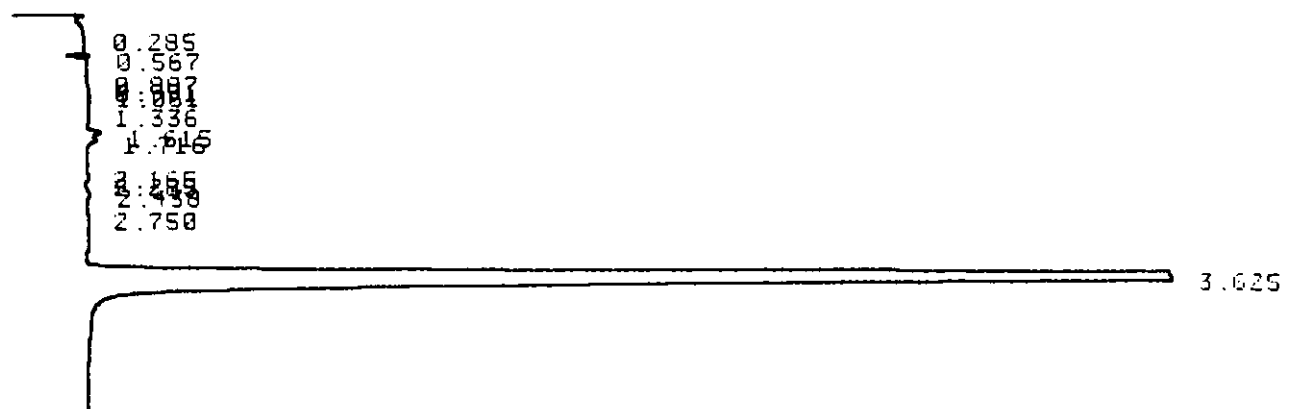
| RT    | AREA TYPE  | CAL# | AMOUNT  |
|-------|------------|------|---------|
| 3.626 | 7494714 PB | 1R   | 207.996 |

TOTAL AREA=7715642

MUL FACTOR=1.0000E+00

\* RUN # 312 APR 7, 1997 13:20:38

START



STOP

RUN# 312 APR 7, 1997 13:20:38

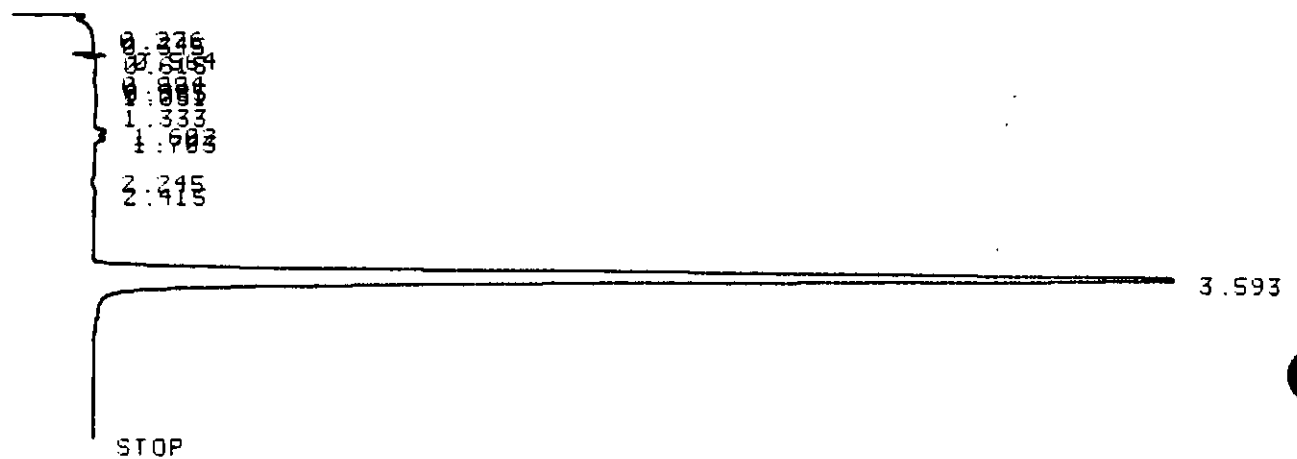
ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT  |
|-------|------------|------|---------|
| 3.625 | 8272829 PB | 1R   | 229.590 |

TOTAL AREA=8.4615E+06

MUL FACTOR=1.0000E+00

\* RUN # 313 APR 7, 1997 13:27:54  
START



STOP

RUN# 313 APR 7, 1997 13:27:54

ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT  |
|-------|------------|------|---------|
| 3.593 | 5127853 PB | 1R   | 142.310 |

TOTAL AREA=6168890

MUL FACTOR=1.0000E+00

\* RUN # 314 APR 7, 1997 13:34:17  
START



STOP

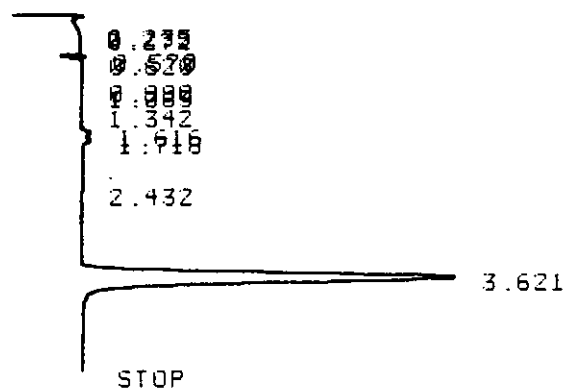
RUN# 314 APR 7, 1997 13:34:17

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 3.622 | 2780098 | PB   | 1R   | 77.154 |

TOTAL AREA=3399582  
MUL FACTOR=1.0000E+00

\* RUN # 315 APR 7, 1997 13:40:48  
START



STOP

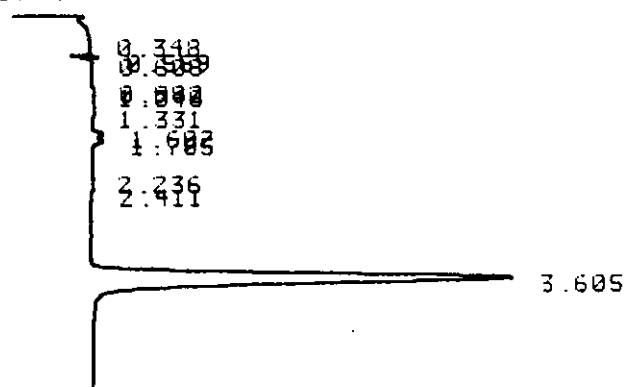
RUN# 315 APR 7, 1997 13:40:48

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 3.621 | 1718242 | BB   | 1R   | 47.685 |

TOTAL AREA=2317992  
MUL FACTOR=1.0000E+00

\* RUN # 316 APR 7, 1997 13:46:15  
START



3.605

STOP

RUN# 316 APR 7, 1997 13:46:15

ESTD-AREA

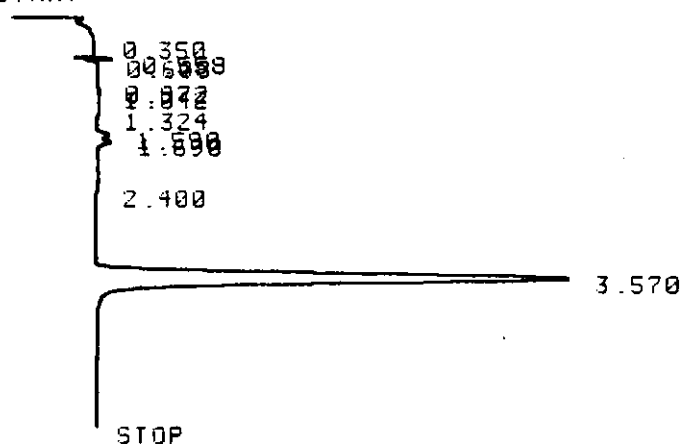
| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 3.605 | 1932456 | PB   | 1R   | 53.630 |

TOTAL AREA=2611930

MUL FACTOR=1.0000E+00

\* RUN # 317 APR 7, 1997 13:54:59

START



STOP

RUN# 317 APR 7, 1997 13:54:59

ESTD-AREA

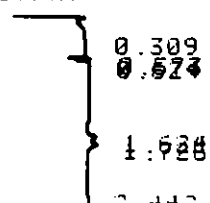
| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 3.570 | 2154920 | BB   | 1R   | 59.804 |

TOTAL AREA=2969782

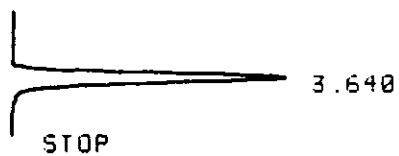
MUL FACTOR=1.0000E+00

\* RUN # 318 APR 7, 1997 14:01:03

START



STOP



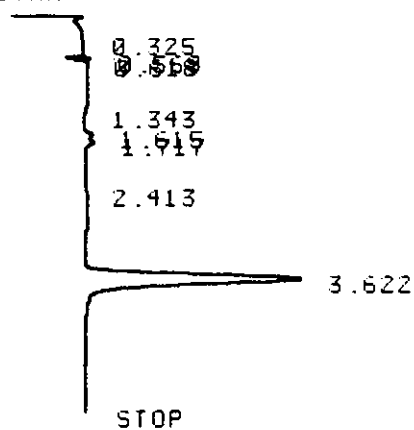
RUN# 318 APR 7, 1997 14:01:03

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 3.640 | 1254608 | PB   | 1R   | 34.818 |

TOTAL AREA=1465830  
MUL FACTOR=1.0000E+00

\* RUN # 319 APR 7, 1997 14:06:15  
START



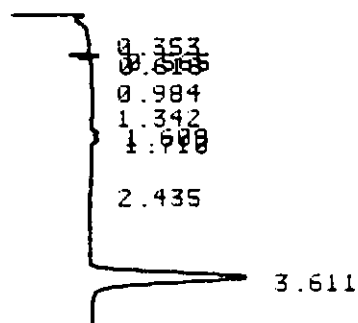
RUN# 319 APR 7, 1997 14:06:15

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 3.622 | 994442 | PB   | 1R   | 27.598 |

TOTAL AREA=1185535  
MUL FACTOR=1.0000E+00

\* RUN # 320 APR 7, 1997 14:12:15  
START





STOP

RUN# 320 APR 7, 1997 14:12:15

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 3.611 | 721293 | BB   | 1R   | 20.018 |

TOTAL AREA=1354570  
MUL FACTOR=1.0000E+00

\* RUN # 321 APR 7, 1997 14:21:39  
START

0.261  
0.623  
1.346  
1.925  
3.642  
STOP

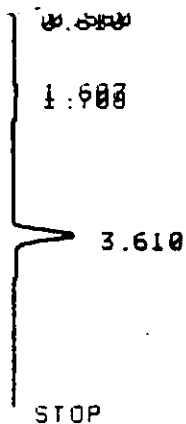
RUN# 321 APR 7, 1997 14:21:39

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 3.642 | 342870 | BU   | 1R   | 9.515  |

TOTAL AREA= 808278  
MUL FACTOR=1.0000E+00

\* RUN # 322 APR 7, 1997 14:28:52  
START

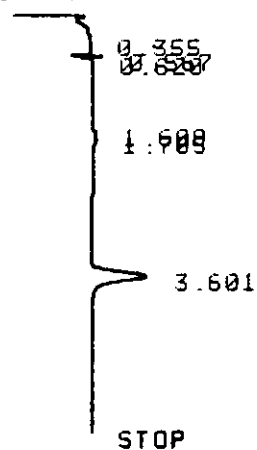


RUN# 322 APR 7, 1997 14:28:52

| ESTD-AREA | RT    | AREA TYPE | CAL#  | AMOUNT |
|-----------|-------|-----------|-------|--------|
|           | 3.610 | 281333    | PB 1R | 7.808  |

TOTAL AREA= 552545  
MUL FACTOR=1.0000E+00

\* RUN # 323 APR 7, 1997 14:35:14  
START

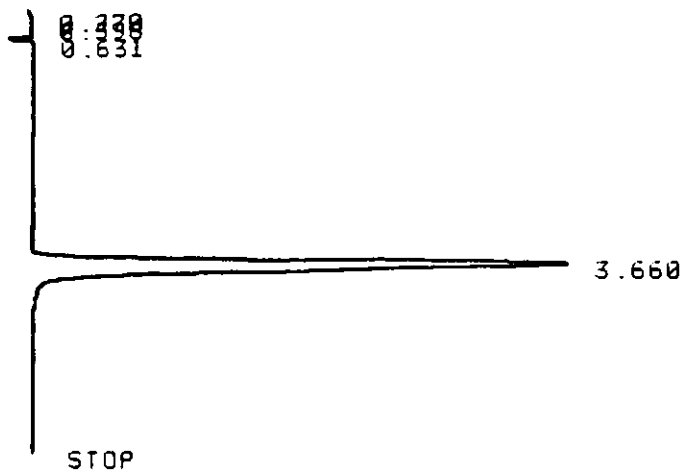


RUN# 323 APR 7, 1997 14:35:14

| ESTD-AREA | RT    | AREA TYPE | CAL#  | AMOUNT |
|-----------|-------|-----------|-------|--------|
|           | 3.601 | 254353    | UU 1R | 7.059  |

TOTAL AREA= 509393  
MUL FACTOR=1.0000E+00

\* RUN # 324 APR 7, 1997 15:09:40  
START



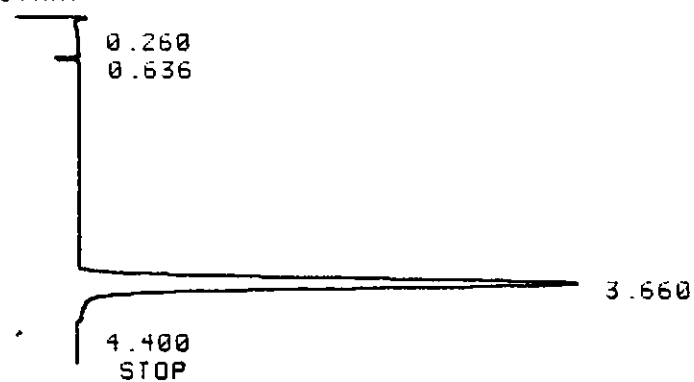
RUN# 324 APR 7, 1997 15:09:40

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 3.660 | 2438030 | PB   | 1R   | 67.661 |

TOTAL AREA=2588461  
MUL FACTOR=1.0000E+00

\* RUN # 325 APR 7, 1997 15:16:48  
START



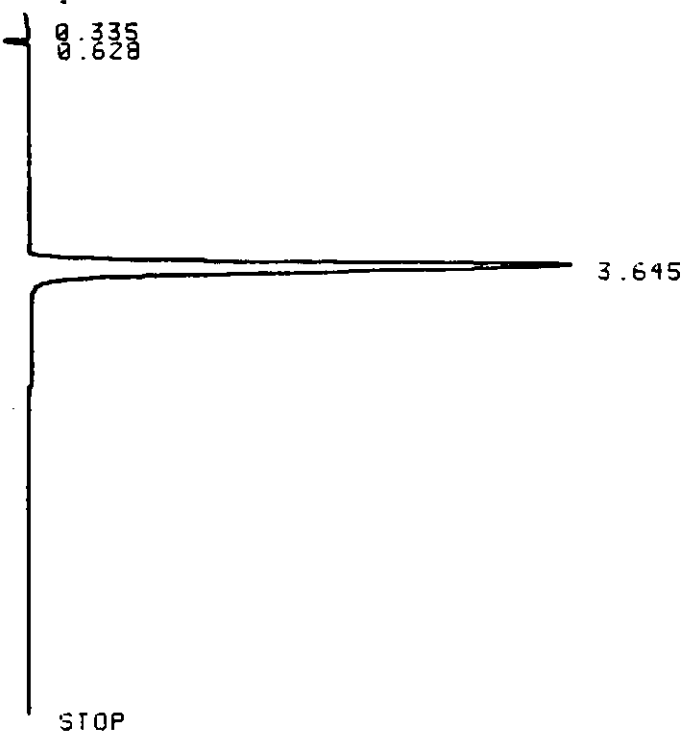
RUN# 325 APR 7, 1997 15:16:48

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 3.660 | 2278206 | PB   | 1R   | 63.225 |

TOTAL AREA=2378648  
MUL FACTOR=1.0000E+00

\* RUN # 326 APR 7, 1997 15:21:54  
START



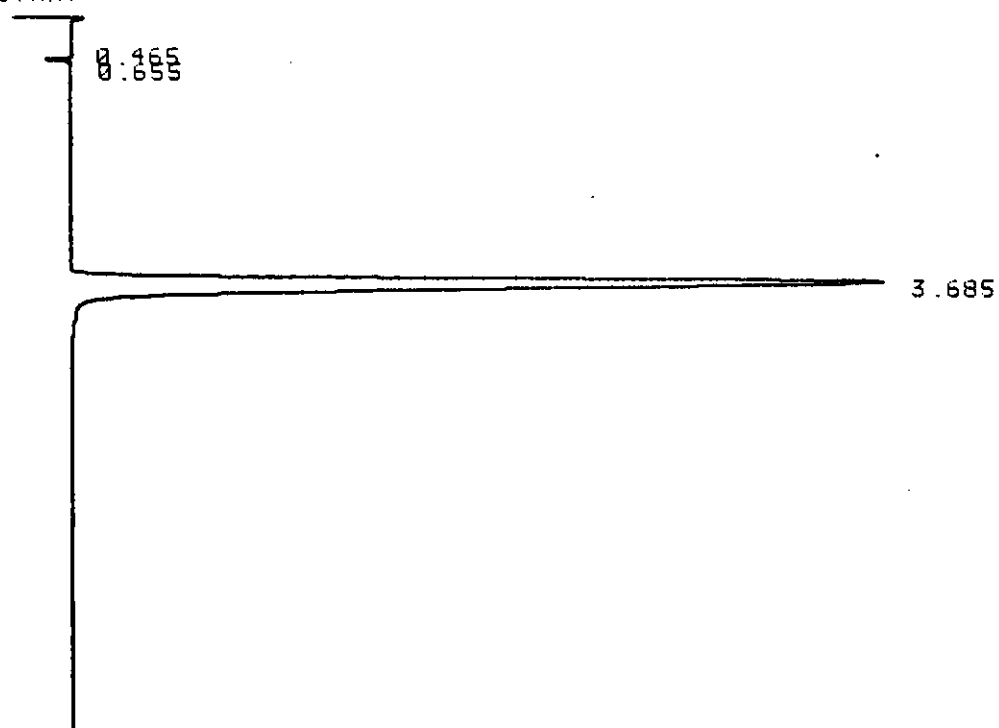
RUN# 326 APR 7, 1997 15:21:54

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 3.645 | 2476634 | PB   | 1R   | 68.732 |

TOTAL AREA=2669560  
MUL FACTOR=1.0000E+00

\* RUN # 327 APR 7, 1997 15:33:35  
START



STOP

RUN# 327 APR 7, 1997 15:33:35

ESTD-AREA

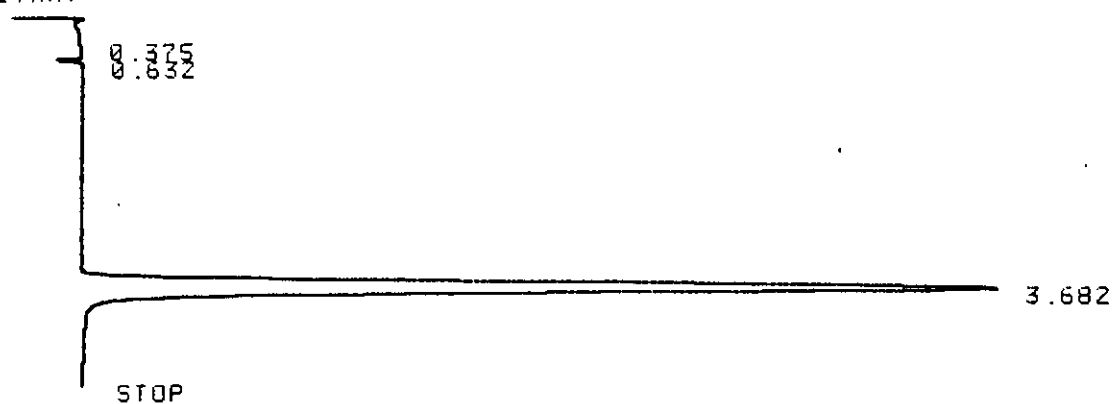
| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.685 | 3705645 | P8   | 1R   | 102.840 |

TOTAL AREA=3836955

MUL FACTOR=1.0000E+00

\* RUN # 328 APR 7, 1997 15:45:10

START



RUN# 328 APR 7, 1997 15:45:10

ESTD-AREA

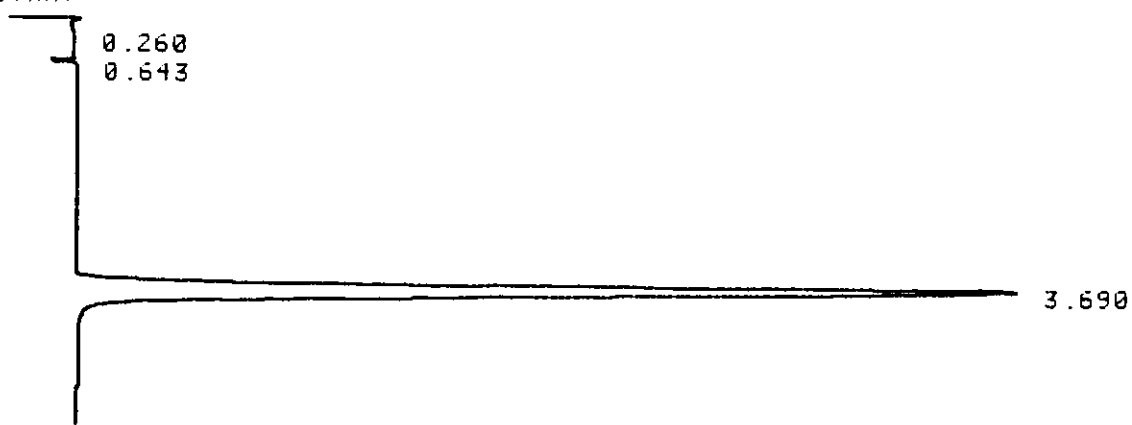
| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.682 | 4186493 | P8   | 1R   | 116.185 |

TOTAL AREA=4350954

MUL FACTOR=1.0000E+00

\* RUN # 329 APR 7, 1997 15:51:04

START



STOP

RUN# 329 APR 7, 1997 15:51:04

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.690 | 4312864 | PB   | 1R   | 119.692 |

TOTAL AREA=4416698

MUL FACTOR=1.0000E+00

\* RUN # 330 APR 7, 1997 15:59:21

START

0.289  
0.631

3.683

STOP

RUN# 330 APR 7, 1997 15:59:21

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.683 | 7650397 | PB   | 1R   | 212.316 |

TOTAL AREA=7760282

MUL FACTOR=1.0000E+00

\* RUN # 331 APR 7, 1997 16:06:30

START

0.317  
0.618

2.168

3.637

STOP

RUN# 331 APR 7, 1997 16:06:30

ESTD-AREA

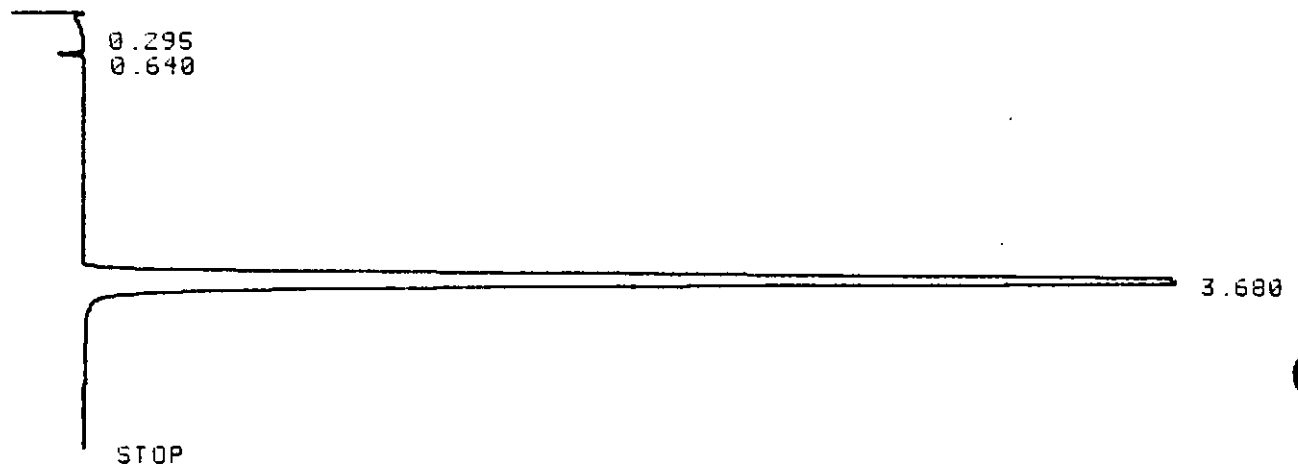
| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.637 | 8395085 | PB   | 1R   | 232.983 |

TOTAL AREA=8.5649E+06

MUL FACTOR=1.0000E+00

\* RUN # 332 APR 7, 1997 16:13:24

START



RUN# 332 APR 7, 1997 16:13:24

ESTD-AREA

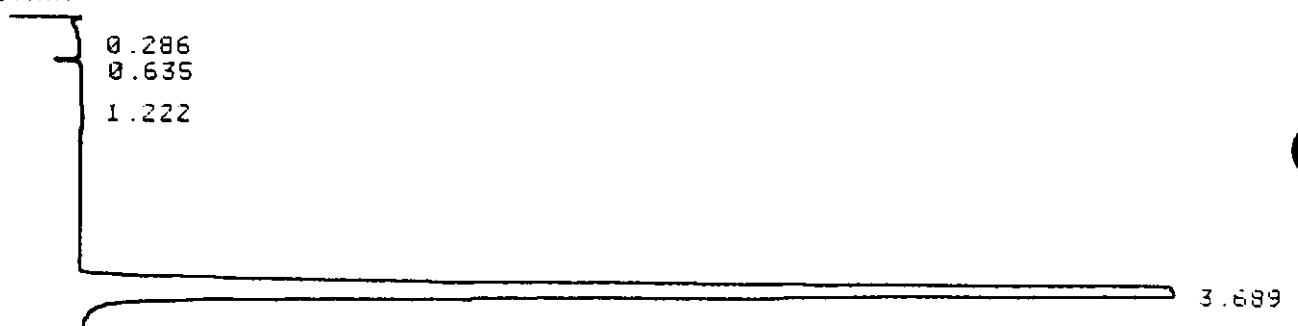
| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.680 | 6243392 | PB   | 1R   | 173.269 |

TOTAL AREA=6438304

MUL FACTOR=1.0000E+00

\* RUN # 333 APR 7, 1997 16:20:23

START



STOP

RUN# 333 APR 7, 1997 16:20:23

ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT  |
|-------|------------|------|---------|
| 3.689 | 9233408 PB | 1R   | 256.248 |

TOTAL AREA=9.3377E+06  
MUL FACTOR=1.0000E+00

\* RUN # 334 APR 7, 1997 16:39:08  
START

0.225  
0.645

3.710

STOP

RUN# 334 APR 7, 1997 16:39:08

ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT  |
|-------|------------|------|---------|
| 3.710 | 5387706 PB | 1R   | 149.521 |

TOTAL AREA=5423834  
MUL FACTOR=1.0000E+00



START

0.345  
0.639

3.692

STOP

RUN# 335 APR 7, 1997 16:45:26

ESTD-AREA

| RT    | AREA     | TYPE | CAL# | AMOUNT  |
|-------|----------|------|------|---------|
| 3.692 | 5461.389 | PB   | 1R   | 151.566 |

TOTAL AREA=5513213  
MUL FACTOR=1.0000E+00

\* RUN # 336 APR 7, 1997 16:52:55

START

0.354  
0.627

1.189

2.184

3.640

STOP

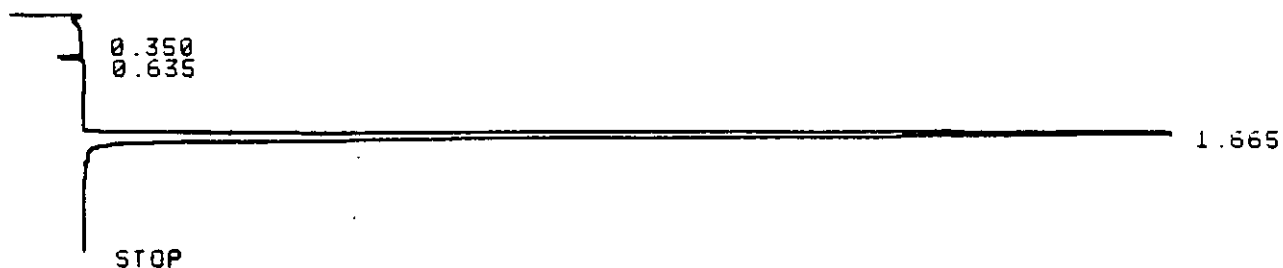
RUN# 336 APR 7, 1997 16:52:55

ESTD-AREA

| RT    | AREA     | TYPE | CAL# | AMOUNT  |
|-------|----------|------|------|---------|
| 3.640 | 12738776 | PB   | 1R   | 353.530 |

TOTAL AREA=1.2934E+07  
MUL FACTOR=1.0000E+00

• RUN # 337 APR 7, 1997 17:00:13  
START



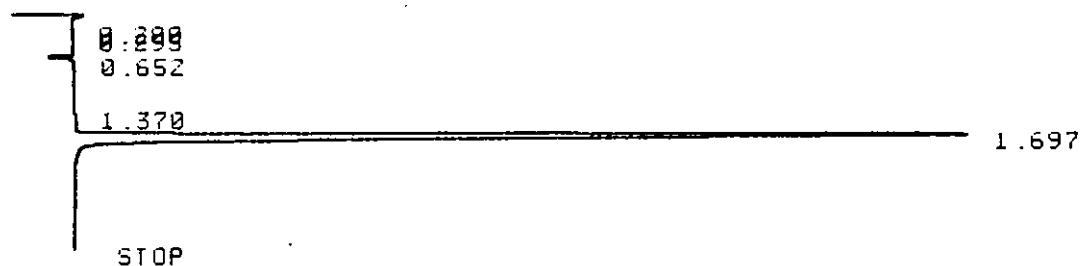
RUN# 337 APR 7, 1997 17:00:13

NO CALIB PEAKS FOUND  
AREA%

| RT    | AREA    | TYPE | WIDTH | AREA%    |
|-------|---------|------|-------|----------|
| .350  | 168697  | BU   | .277  | 5.83832  |
| .635  | 41772   | PB   | .098  | 1.44566  |
| 1.665 | 2679008 | PB   | .072  | 92.71600 |

TOTAL AREA=2889477  
MUL FACTOR=1.0000E+00

\* RUN # 338 APR 7, 1997 17:04:30  
START



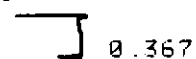
RUN# 338 APR 7, 1997 17:04:30

NO CALIB PEAKS FOUND  
AREA%

| RT    | AREA    | TYPE | WIDTH | AREA%    |
|-------|---------|------|-------|----------|
| .200  | 17064   | BU   | .080  | .89200   |
| .295  | 26164   | UU   | .073  | 1.36770  |
| .652  | 55706   | PV   | .102  | 2.91198  |
| 1.370 | 521     | PV   | .071  | .02723   |
| 1.697 | 1813540 | PB   | .072  | 94.80109 |

TOTAL AREA=1912995  
MUL FACTOR=1.0000E+00

\* RUN # 339 APR 7, 1997 17:09:25  
START



0.676

1.676

STOP

RUN# 339 APR 7, 1997 17:09:25

NO CALIB PEAKS FOUND

AREA%

| RT    | AREA    | TYPE | WIDTH | AREA%    |
|-------|---------|------|-------|----------|
| .367  | 128474  | BU   | .243  | 4.81748  |
| .648  | 143165  | PU   | .196  | 5.36836  |
| 1.676 | 2395190 | UB   | .072  | 89.81414 |

TOTAL AREA=2666829

MUL FACTOR=1.0000E+00

\* EDIT CALIB @

- 1 = CALIB PROCEDURE
- 2 = RETENTION TIME WINDOWS
- 3 = TABLE ENTRIES
- 4 = PEAK GROUPS
- 5 = CALIB OPTIONS

SECTION TO BE EDITED: 3

CAL#: 1  
RT: 1.676  
AMT: 136  
AMT/AREA: .0000568  
NAME: mma

CAL#: 2  
RT: 3.650  
AMT: 204  
AMT/AREA: .0000267  
NAME: STYRENE

CAL#:

SECTION TO BE EDITED:

\* RUN # 340 APR 7, 1997 17:17:43  
START

STOP

RUN# 340 APR 7, 1997 17:17:43

NO RUN PEAKS STORED

\*

\*  
\*LIST: METH @

RUN PARAMETERS

ZERO = 0  
ATT 2^ = 6  
CHT SP = 1.0  
AR REJ = 0  
THRSH = 0  
PK WD = 0.04

TIMETABLE EVENTS  
EMPTY

CALIBRATION

ESTD  
REF % RTW: 5.000 NON-REF % RTW: 5.000

LEVEL: 1 RECALIBRATIONS: 1

| CAL# | RT    | LU | AMT        | AMT/AREA   |
|------|-------|----|------------|------------|
| 1    | 1.676 | 1  | 1.3600E+02 | 5.6800E-05 |
| 2    | 3.650 | 1  | 2.0400E+02 | 2.6700E-05 |

| CAL# | NAME    |
|------|---------|
| 1    | mma     |
| 2    | STYRENE |

INTEGRATION PLOT TYPE ..... FILTERED  
Presentation plot ..... NO

RUN DATA STORAGE

Store signal data ..... NO  
Store processed peaks ..... NO

CALIBRATION OPTIONS

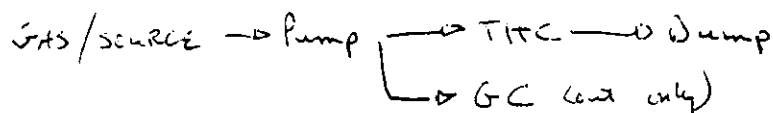
RF of uncalibrated peaks .... 0.0000E+00  
Calibration fit ..... P  
Disable post-run RT update .. NO  
SAMPLE AMT ..... 0.0000E+00  
MUL FACTOR ..... 1.0000E+00

#1.82

4/1/97 THC Log

- Poor Linearity in AM cals, @ 5% AGV @ out=600 @ 6.7% AGV @ in=15
- Cal file = 0407-1.CAL
- Replumbed system (has no impact on linearity)

Delivering gas under + pressure to simplify calibration procedures



Cal system was pressure sensitive

- TEST = 23 kcal 35% Resin (ammunition = 0407-1 / NMMMA-7-2
- on line @ 0934
- Lamination (skin) on @ 0938
- Initial Resin = 550.3 ±
- 0957-1/2 Skin done, rolling out
- Turning boat 1004
- Restart (second 1/2 skin) 1018
- Skin done @ 1041
- Flow @ 1106 DAS = 0.17 AP

|         |         |
|---------|---------|
| H 8 .20 | V 8 .16 |
| 7 .24   | 7 .19   |
| 6 .22   | 6 .19   |
| 5 .20   | 5 .20   |
| 4 .20   | 4 .21   |
| 3 .20   | 3 .21   |
| 2 .19   | 2 .21   |
| 1 .18   | 1 .19   |

Pb = 300

Ts = 67°F

AH = 44% @ 65°

ACFM = 3105.4

THC = 212.5

Θ = 0954 - 1439 = 305"

- 1115-1120 THCa went negative @ DAS, monitor was OK. Recovered @ 1123 appear to be okay, problem unresolved

4/7/97 THC Log, cont. (NHMA-7-2; 0407-1)

- Inlet concentrations rising since DAS glitch
- Zero check @ 1139 - OK
- Back on @ 1141

- Lamination on @ 1150

- Inlet monitor acting up again - Neg # @ DAS due to monitor (1155)

Appears to be zero pot problem (?)

Inlet #s pretty suspect

DAS OK, monitor not  
Smells like STYRENE in room

- ~1221 Lamination 1/2 done, curing for heat flip
- 1253 Lamination restarted
- ~1330 Lamination ended
- Final Resin = 200.55 #
- Net Resin = 349.8 gelsburg 122.4 # Styrene
- Post-test performed RF @ outlet to 204 sty

# CALIBRATION SUMMARY

04-07-1997 08:24:45

CALIBRATION FILE NAME = c:\cemdata\0407a.CAL

April 7, 1997

0407-1

NAMA-7-2

28' hull 35% resin

| Param. Name Units |       |       | Zero  |       | Span  |       | Slope  | Int.      |
|-------------------|-------|-------|-------|-------|-------|-------|--------|-----------|
|                   |       |       | Conc. | Resp. | Conc. | Resp. |        |           |
| 1                 | THC o | ppm   | 0     | 0     | 914   | 9.3   | 98.26  | -0.0901   |
| 2                 | THC i | ppm   | 0     | .04   | 45.5  | 4.6   | 10.04  | -1.386    |
| 3                 | Flow  | inH2O | 0     | 2.96  | .4    | 3.2   | 1.97   | -5.6      |
| 4                 | Temp  | F     | 32    | 1.98  | 212   | 3.3   | 111.51 | -240.4591 |
| 5                 | Resin | lb    | 0     | 1.46  | 600   | 4.3   | 212.27 | -310.8426 |

# RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for:

NMMA

Date Printed = 04-07-1997 Current Time = 08:37:48

File Name = c:\cemdata\040797.PRN Calibration File:c:\cemdata\0407a.CAL

Test #: Pre out 297 in 30.4

| 04-07-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 08:37:53           | 306.4        | 29.0         | 0.2           | 56.8      | -1146.8     |
| 08:37:55           | 306.4        | 29.0         | 0.2           | 56.8      | -1146.8     |
| 08:37:56           | 306.4        | 29.0         | 0.2           | 56.8      | -1146.8     |
| 08:38:05           | 305.8        | 29.7         | 0.2           | 56.7      | -1145.7     |
| 08:38:15           | 305.4        | 29.4         | 0.2           | 56.8      | -1142.6     |
| 08:38:25           | 305.5        | 29.2         | 0.2           | 56.8      | -1142.5     |
| Avg =              | 306.0        | 29.2         | 0.2           | 56.8      | -1145.2     |



RADIAN CORPORATION

Environmental Measurement and Analysis Department  
Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-07-1997 Current Time = 08:44:33

File Name = c:\cemdata\040797.PRN Calibration File:c:\cemdata\0407a.CAL

Test #: Pre out 600 in 15

| 04-07-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 08:44:38           | 630.3        | 13.4         | 0.2           | 56.8      | -1151.7     |
| 08:44:40           | 630.3        | 13.4         | 0.2           | 56.8      | -1151.7     |
| 08:44:41           | 630.3        | 13.4         | 0.2           | 56.8      | -1151.7     |
| 08:44:45           | 630.4        | 14.9         | 0.2           | 57.0      | -1159.9     |
| 08:44:55           | 630.6        | 14.3         | 0.2           | 57.0      | -1143.6     |
| 08:45:05           | 631.4        | 14.7         | 0.2           | 57.1      | -1144.4     |
| 08:45:15           | 632.7        | 13.3         | 0.2           | 57.2      | -1143.6     |
| 08:45:25           | 631.1        | 13.5         | 0.2           | 57.2      | -1144.4     |
| 08:45:35           | 629.6        | 14.2         | 0.2           | 57.2      | -1143.6     |
| 08:45:45           | 631.4        | 15.0         | 0.2           | 57.1      | -1143.8     |
| 08:45:55           | 632.2        | 14.6         | 0.2           | 57.1      | -1143.4     |
| Avg =              | 630.9        | 14.0         | 0.2           | 57.0      | -1147.4     |

RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-07-1997 Current Time = 09:34:11  
 File Name = c:\cemdata\040797.PRN Calibration File: c:\cemdata\0407a.CAL

Test #: 0407-01

| 04-07-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 09:34:35           | -0.0         | 2.1          | 0.2           | 62.4      | 556         |
| 09:35:35           | -0.0         | 2.1          | 0.2           | 62.8      | 550.2       |
| 09:36:35           | -0.0         | 2.3          | 0.2           | 63.2      | 550.3       |
| 09:37:35           | -0.0         | 2.3          | 0.2           | 63.4      | 550.3       |
| 09:38:35           | 21.6         | 2.4          | 0.2           | 63.8      | 549.7       |
| 09:39:35           | 105.8        | 2.2          | 0.2           | 64.0      | 542.9       |
| 09:40:35           | 285.8        | 2.3          | 0.2           | 63.6      | 536.1       |
| 09:41:35           | 339.4        | 2.2          | 0.2           | 63.6      | 531.4       |
| 09:42:35           | 219.9        | 2.4          | 0.2           | 63.9      | 528.6       |
| 09:43:35           | 273.9        | 2.4          | 0.2           | 63.8      | 523.0       |
| 09:44:35           | 416.7        | 2.4          | 0.2           | 63.7      | 517.0       |
| 09:45:35           | 353.7        | 2.5          | 0.2           | 63.9      | 516.1       |
| 09:46:35           | 306.3        | 2.5          | 0.2           | 64.0      | 516.1       |
| 09:47:35           | 317.9        | 2.4          | 0.2           | 64.0      | 512.7       |
| 09:48:35           | 346.3        | 2.5          | 0.2           | 64.0      | 505.9       |
| 09:49:35           | 417.3        | 2.5          | 0.2           | 64.0      | 502.7       |
| 09:50:35           | 426.6        | 2.5          | 0.2           | 64.1      | 498.7       |
| 09:51:35           | 474.8        | 2.4          | 0.2           | 64.1      | 492.2       |
| 09:52:35           | 456.5        | 2.6          | 0.2           | 64.1      | 491.3       |
| 09:53:35           | 311.3        | 2.6          | 0.2           | 64.4      | 490.3       |
| 09:54:35           | 277.9        | 2.6          | 0.2           | 64.4      | 487.9       |
| 09:55:35           | 390.8        | 2.6          | 0.2           | 64.1      | 481.1       |
| 09:56:35           | 490.0        | 2.6          | 0.2           | 63.8      | 474.2       |
| 09:57:35           | 451.6        | 2.6          | 0.2           | 63.6      | 469.2       |
| 09:58:35           | 432.6        | 2.5          | 0.2           | 63.7      | 468.9       |
| 09:59:35           | 405.0        | 2.5          | 0.2           | 63.9      | 469.0       |
| 10:00:35           | 371.4        | 2.4          | 0.2           | 64.0      | 469.0       |
| 10:01:35           | 300.4        | 2.4          | 0.2           | 64.2      | 469.0       |
| 10:02:35           | 265.9        | 2.5          | 0.2           | 64.3      | 470.7       |
| 10:03:35           | 244.6        | 2.6          | 0.2           | 64.4      | 471.3       |
| 10:04:35           | 265.1        | 2.7          | 0.2           | 64.5      | 470.6       |
| 10:05:35           | 190.4        | 2.9          | 0.2           | 64.8      | 469.4       |
| 10:06:35           | 159.9        | 2.9          | 0.2           | 64.8      | 469.5       |
| 10:07:35           | 171.3        | 3.0          | 0.2           | 64.9      | 470.7       |
| 10:08:35           | 198.7        | 2.9          | 0.2           | 64.9      | 469.4       |
| 10:09:35           | 179.4        | 3.3          | 0.2           | 64.9      | 469.4       |
| 10:10:35           | 166.1        | 3.1          | 0.2           | 65.0      | 469.4       |
| 10:11:35           | 171.6        | 3.1          | 0.2           | 65.0      | 469.5       |
| 10:12:35           | 167.3        | 3.2          | 0.2           | 65.1      | 469.5       |
| 10:13:35           | 165.2        | 3.6          | 0.2           | 65.1      | 469.5       |

Test #: 0407-01

| Time     | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|----------|--------------|--------------|---------------|-----------|-------------|
| 10:14:35 | 153.8        | 3.7          | 0.2           | 65.1      | 469.5       |
| 10:15:35 | 148.6        | 3.6          | 0.2           | 65.1      | 470.1       |
| 10:16:35 | 137.4        | 3.6          | 0.2           | 65.2      | 469.5       |
| 10:17:35 | 121.6        | 3.6          | 0.2           | 65.3      | 469.2       |
| 10:18:35 | 134.2        | 3.6          | 0.2           | 65.3      | 467.5       |
| 10:19:35 | 160.7        | 3.5          | 0.2           | 65.4      | 466.2       |
| 10:20:35 | 238.6        | 3.6          | 0.2           | 65.1      | 460.1       |
| 10:21:35 | 336.5        | 3.5          | 0.2           | 64.9      | 453.1       |
| 10:22:35 | 448.5        | 3.7          | 0.2           | 64.8      | 449.5       |
| 10:23:35 | 391.0        | 3.5          | 0.2           | 64.8      | 444.2       |
| 10:24:35 | 451.5        | 3.7          | 0.2           | 64.8      | 437.6       |
| 10:25:35 | 529.0        | 3.7          | 0.2           | 64.8      | 435.1       |
| 10:26:35 | 483.7        | 3.5          | 0.2           | 64.8      | 433.5       |
| 10:27:35 | 504.4        | 3.6          | 0.2           | 64.9      | 428.9       |
| 10:28:35 | 483.6        | 3.4          | 0.2           | 65.0      | 425.5       |
| 10:29:35 | 539.5        | 3.5          | 0.2           | 65.0      | 422.3       |
| 10:30:35 | 474.3        | 3.6          | 0.2           | 65.0      | 422.5       |
| 10:31:35 | 391.6        | 3.6          | 0.2           | 65.2      | 422.4       |
| 10:32:35 | 360.1        | 3.4          | 0.2           | 65.2      | 420.6       |
| 10:33:35 | 408.5        | 3.4          | 0.2           | 65.2      | 414.0       |
| 10:34:35 | 489.5        | 3.4          | 0.2           | 65.1      | 410.5       |
| 10:35:35 | 435.9        | 3.6          | 0.2           | 64.9      | 404.3       |
| 10:36:35 | 503.8        | 3.4          | 0.2           | 64.9      | 397.5       |
| 10:37:35 | 554.9        | 3.3          | 0.2           | 64.9      | 394.4       |
| 10:38:35 | 586.8        | 3.3          | 0.2           | 64.9      | 394.5       |
| 10:39:35 | 509.1        | 3.3          | 0.2           | 65.0      | 394.3       |
| 10:40:35 | 467.2        | 3.3          | 0.2           | 65.2      | 394.5       |
| 10:41:35 | 383.7        | 3.2          | 0.2           | 65.3      | 394.3       |
| 10:42:35 | 324.1        | 3.3          | 0.2           | 65.4      | 394.5       |
| 10:43:35 | 289.9        | 3.4          | 0.2           | 65.5      | 394.3       |
| 10:44:35 | 267.0        | 3.4          | 0.2           | 65.5      | 394.5       |
| 10:45:35 | 246.0        | 3.3          | 0.2           | 65.6      | 394.3       |
| 10:46:35 | 222.3        | 3.4          | 0.2           | 65.7      | 394.5       |
| 10:47:35 | 201.6        | 3.5          | 0.2           | 65.7      | 394.3       |
| 10:48:35 | 166.6        | 3.1          | 0.2           | 65.7      | 394.5       |
| 10:49:35 | 190.5        | 3.1          | 0.2           | 65.8      | 394.3       |
| 10:50:35 | 160.1        | 2.8          | 0.2           | 65.8      | 394.5       |
| 10:51:35 | 161.7        | 2.7          | 0.2           | 65.8      | 394.3       |
| 10:52:35 | 168.7        | 2.8          | 0.2           | 65.9      | 394.5       |
| 10:53:35 | 148.0        | 2.6          | 0.2           | 65.9      | 394.3       |
| 10:54:35 | 157.5        | 2.7          | 0.2           | 66.0      | 394.5       |
| 10:55:35 | 157.6        | 2.7          | 0.2           | 66.0      | 394.3       |
| 10:56:35 | 156.6        | 2.6          | 0.2           | 66.0      | 394.5       |
| 10:57:35 | 126.7        | 2.8          | 0.2           | 66.0      | 394.3       |
| 10:58:35 | 145.9        | 2.6          | 0.2           | 66.0      | 394.5       |
| 10:59:35 | 128.3        | 2.6          | 0.2           | 66.1      | 394.3       |
| 11:00:35 | 126.6        | 2.8          | 0.2           | 66.1      | 394.5       |
| 11:01:35 | 123.0        | 3.0          | 0.2           | 66.1      | 394.3       |
| 11:02:35 | 110.1        | 2.2          | 0.2           | 66.2      | 394.5       |
| 11:03:35 | 115.1        | 2.0          | 0.2           | 66.2      | 394.3       |
| 11:04:35 | 103.3        | 2.4          | 0.2           | 66.2      | 394.5       |
| 11:05:35 | 104.3        | 2.2          | 0.2           | 66.3      | 394.3       |
| 11:06:35 | 102.2        | 2.0          | 0.2           | 66.3      | 394.5       |
| 11:07:35 | 95.2         | 2.5          | 0.1           | 66.4      | 394.3       |
| 11:08:35 | 95.4         | 3.4          | 0.1           | 66.3      | 394.5       |
| 11:09:35 | 99.0         | 3.4          | 0.2           | 66.4      | 394.3       |

Test #: 0407-01

| 04-07-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 11:10:35           | 92.5         | 3.3          | 0.1           | 66.4      | 394.2       |
| 11:11:35           | 87.9         | 3.2          | 0.2           | 66.6      | 394.2       |
| 11:12:35           | 94.7         | 3.3          | 0.2           | 66.6      | 394.2       |
| 11:13:35           | 89.3         | 3.3          | 0.2           | 66.7      | 394.2       |
| 11:14:35           | 85.3         | 1.3          | 0.2           | 66.7      | 394.2       |
| 11:15:35           | 83.9         | -4.9         | 0.2           | 66.7      | 394.2       |
| 11:16:35           | 82.3         | -6.1         | 0.2           | 66.8      | 394.2       |
| 11:17:35           | 79.0         | -11.0        | 0.2           | 66.8      | 394.2       |
| 11:18:35           | 79.7         | -16.3        | 0.2           | 66.8      | 394.2       |
| 11:19:35           | 79.6         | -15.0        | 0.2           | 66.8      | 394.2       |
| 11:20:35           | 73.5         | -17.3        | 0.2           | 66.9      | 394.2       |
| 11:21:35           | 74.2         | 3.2          | 0.2           | 66.9      | 394.2       |
| 11:22:35           | 75.0         | 4.6          | 0.2           | 66.9      | 394.2       |
| 11:23:35           | 75.1         | 5.4          | 0.2           | 66.9      | 394.2       |
| 11:24:35           | 75.2         | 5.6          | 0.2           | 66.9      | 394.2       |
| 11:25:35           | 72.8         | 5.6          | 0.2           | 67.0      | 394.2       |
| 11:26:35           | 70.2         | 5.9          | 0.2           | 67.0      | 394.2       |
| 11:27:35           | 70.7         | 6.7          | 0.2           | 67.0      | 394.2       |
| 11:28:35           | 70.3         | 6.7          | 0.2           | 67.0      | 394.2       |
| 11:29:35           | 69.2         | 7.1          | 0.2           | 67.1      | 394.2       |
| 11:30:35           | 65.9         | 7.3          | 0.2           | 67.2      | 394.2       |
| 11:31:35           | 68.8         | 7.8          | 0.2           | 67.2      | 394.2       |
| 11:32:35           | 63.7         | 7.6          | 0.2           | 67.3      | 394.2       |
| 11:33:35           | 61.8         | 8.0          | 0.2           | 67.3      | 394.1       |
| 11:34:35           | 55.7         | 8.7          | 0.2           | 67.4      | 394.1       |
| 11:35:35           | 52.5         | 9.2          | 0.2           | 67.3      | 394.1       |
| 11:36:35           | 48.6         | 9.5          | 0.2           | 67.2      | 394.1       |
| 11:37:35           | 52.4         | 9.5          | 0.2           | 67.3      | 394.1       |
| 11:38:35           | 49.6         | 10.0         | 0.2           | 67.4      | 394.1       |
| 11:39:35           | 50.3         | 5.4          | 0.2           | 67.5      | 394.1       |
| 11:40:35           | 47.5         | -1.0         | 0.2           | 67.5      | 394.1       |
| 11:41:35           | 42.9         | 5.3          | 0.2           | 67.6      | 394.1       |
| 11:42:35           | 41.6         | 10.8         | 0.2           | 67.6      | 394.1       |
| 11:43:35           | 38.7         | 11.0         | 0.2           | 67.6      | 394.1       |
| 11:44:35           | 36.1         | 11.0         | 0.2           | 67.6      | 394.1       |
| 11:45:35           | 33.4         | 11.0         | 0.2           | 67.6      | 394.1       |
| 11:46:35           | 31.7         | 11.3         | 0.2           | 67.7      | 394.1       |
| 11:47:35           | 29.9         | 11.5         | 0.2           | 67.6      | 394.1       |
| 11:48:35           | 26.4         | 11.6         | 0.2           | 67.6      | 394.1       |
| 11:49:35           | 25.2         | 11.8         | 0.2           | 67.7      | 393.9       |
| 11:50:35           | 23.8         | 11.4         | 0.2           | 67.7      | 394.0       |
| 11:51:35           | 58.7         | 11.8         | 0.2           | 67.7      | 391.6       |
| 11:52:35           | 145.7        | 11.7         | 0.2           | 67.8      | 385.1       |
| 11:53:35           | 198.7        | 5.9          | 0.2           | 67.9      | 382.0       |
| 11:54:35           | 238.5        | -14.9        | 0.2           | 68.0      | 377.5       |
| 11:55:35           | 301.0        | -1.1         | 0.2           | 68.0      | 375.6       |
| 11:56:35           | 394.9        | 3.4          | 0.2           | 68.0      | 369.7       |
| 11:57:35           | 449.5        | 11.6         | 0.2           | 68.0      | 364.9       |
| 11:58:35           | 461.0        | 11.5         | 0.2           | 68.1      | 360.9       |
| 11:59:35           | 443.2        | 11.5         | 0.2           | 68.0      | 357.0       |
| 12:00:35           | 559.3        | 11.2         | 0.2           | 68.1      | 352.7       |
| 12:01:35           | 613.3        | 11.0         | 0.2           | 68.0      | 346.7       |
| 12:02:35           | 538.5        | 10.9         | 0.2           | 68.0      | 345.6       |
| 12:03:35           | 474.0        | 10.8         | 0.2           | 68.1      | 340.4       |
| 12:04:35           | 501.9        | 10.7         | 0.2           | 68.0      | 336.2       |
| 12:05:35           | 521.7        | 10.6         | 0.2           | 68.0      | 332.4       |

Test #: 0407-01

| Time     | THC a<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|----------|--------------|--------------|---------------|-----------|-------------|
| 12:06:35 | 568.6        | 10.4         | 0.2           | 68.1      | 330.4       |
| 12:07:35 | 507.4        | 10.2         | 0.2           | 68.0      | 326.7       |
| 12:08:35 | 510.3        | 9.9          | 0.2           | 68.1      | 325.3       |
| 12:09:35 | 424.8        | 9.8          | 0.2           | 68.1      | 323.5       |
| 12:10:35 | 425.6        | 9.6          | 0.2           | 68.1      | 317.9       |
| 12:11:35 | 522.8        | 9.5          | 0.2           | 68.1      | 313.6       |
| 12:12:35 | 569.0        | 9.3          | 0.2           | 68.2      | 310.6       |
| 12:13:35 | 553.8        | 9.1          | 0.2           | 68.2      | 307.6       |
| 12:14:35 | 523.7        | 9.0          | 0.2           | 68.2      | 301.7       |
| 12:15:35 | 526.3        | 8.8          | 0.2           | 68.2      | 299.3       |
| 12:16:35 | 535.6        | 8.7          | 0.2           | 68.2      | 297.1       |
| 12:17:35 | 441.4        | 8.5          | 0.2           | 68.0      | 296.2       |
| 12:18:35 | 403.6        | 8.4          | 0.2           | 68.1      | 296.7       |
| 12:19:35 | 394.9        | 8.2          | 0.2           | 68.1      | 296.3       |
| 12:20:35 | 328.6        | 8.1          | 0.2           | 68.3      | 296.3       |
| 12:21:35 | 293.1        | 8.0          | 0.2           | 68.3      | 296.3       |
| 12:22:35 | 262.2        | 7.8          | 0.2           | 68.3      | 296.3       |
| 12:23:35 | 238.9        | 7.7          | 0.2           | 68.3      | 296.3       |
| 12:24:35 | 234.9        | 7.7          | 0.2           | 68.3      | 296.3       |
| 12:25:35 | 218.9        | 7.7          | 0.2           | 68.3      | 296.3       |
| 12:26:35 | 197.6        | 7.5          | 0.2           | 68.3      | 296.3       |
| 12:27:35 | 180.9        | 7.4          | 0.2           | 68.4      | 296.3       |
| 12:28:35 | 179.3        | 7.3          | 0.2           | 68.3      | 296.3       |
| 12:29:35 | 168.2        | 7.1          | 0.2           | 68.4      | 296.3       |
| 12:30:35 | 155.8        | 7.0          | 0.2           | 68.4      | 296.3       |
| 12:31:35 | 138.5        | 6.9          | 0.2           | 68.4      | 296.3       |
| 12:32:35 | 136.6        | 6.8          | 0.2           | 68.4      | 296.3       |
| 12:33:35 | 132.9        | 6.6          | 0.2           | 68.5      | 296.3       |
| 12:34:35 | 128.2        | 6.5          | 0.2           | 68.5      | 296.3       |
| 12:35:35 | 125.2        | 6.4          | 0.2           | 68.5      | 296.3       |
| 12:36:35 | 124.0        | 6.3          | 0.2           | 68.6      | 296.3       |
| 12:37:35 | 115.8        | 6.2          | 0.2           | 68.6      | 296.3       |
| 12:38:35 | 108.9        | 6.0          | 0.2           | 68.6      | 296.3       |
| 12:39:35 | 107.4        | 6.0          | 0.2           | 68.6      | 296.3       |
| 12:40:35 | 105.1        | 5.8          | 0.2           | 68.7      | 296.3       |
| 12:41:35 | 102.1        | 5.7          | 0.2           | 68.7      | 296.3       |
| 12:42:35 | 99.1         | 5.6          | 0.2           | 68.7      | 296.3       |
| 12:43:35 | 94.9         | 5.5          | 0.2           | 68.7      | 296.3       |
| 12:44:35 | 89.0         | 5.5          | 0.2           | 68.7      | 296.4       |
| 12:45:35 | 91.8         | 5.4          | 0.2           | 68.8      | 296.4       |
| 12:46:35 | 91.7         | 5.3          | 0.2           | 68.9      | 296.7       |
| 12:47:35 | 83.2         | 5.2          | 0.2           | 68.9      | 296.4       |
| 12:48:35 | 88.2         | 5.0          | 0.2           | 69.0      | 296.4       |
| 12:49:35 | 88.2         | 5.0          | 0.2           | 69.1      | 296.2       |
| 12:50:35 | 73.7         | 4.9          | 0.2           | 69.0      | 296.7       |
| 12:51:35 | 70.3         | 4.8          | 0.2           | 69.1      | 296.3       |
| 12:52:35 | 62.8         | 4.7          | 0.2           | 69.1      | 296.3       |
| 12:53:35 | 58.8         | 4.8          | 0.2           | 69.1      | 295.8       |
| 12:54:35 | 133.1        | 4.6          | 0.2           | 69.1      | 290.7       |
| 12:55:35 | 221.0        | 4.6          | 0.2           | 69.1      | 286.2       |
| 12:56:35 | 217.5        | 4.6          | 0.2           | 69.2      | 283.4       |
| 12:57:35 | 297.1        | 4.5          | 0.2           | 69.3      | 279.6       |
| 12:58:35 | 338.9        | 4.5          | 0.2           | 69.1      | 276.1       |
| 12:59:35 | 456.0        | 4.4          | 0.2           | 69.1      | 269.4       |
| 13:00:35 | 440.9        | 4.3          | 0.2           | 69.1      | 267.4       |
| 13:01:35 | 310.1        | 4.3          | 0.2           | 69.3      | 267.4       |

Test #: 0407-01

| 04-07-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 13:02:35           | 284.4        | 4.3          | 0.2           | 69.3      | 267.5       |
| 13:03:35           | 266.6        | 4.2          | 0.2           | 69.3      | 266.4       |
| 13:04:35           | 416.4        | 4.1          | 0.2           | 69.3      | 261.0       |
| 13:05:35           | 405.6        | 4.1          | 0.2           | 69.3      | 258.6       |
| 13:06:35           | 450.9        | 4.0          | 0.2           | 69.2      | 253.0       |
| 13:07:35           | 488.5        | 3.9          | 0.2           | 69.2      | 249.0       |
| 13:08:35           | 434.4        | 3.9          | 0.2           | 69.2      | 248.0       |
| 13:09:35           | 474.6        | 3.8          | 0.2           | 69.2      | 243.1       |
| 13:10:35           | 475.2        | 3.8          | 0.2           | 69.2      | 241.0       |
| 13:11:35           | 440.4        | 3.7          | 0.2           | 69.3      | 194.1       |
| 13:12:35           | 438.6        | 3.6          | 0.2           | 69.3      | 235.4       |
| 13:13:35           | 435.1        | 3.6          | 0.2           | 69.4      | 234.5       |
| 13:14:35           | 365.8        | 3.5          | 0.2           | 69.5      | 233.1       |
| 13:15:35           | 428.3        | 3.5          | 0.2           | 69.4      | 229.1       |
| 13:16:35           | 400.9        | 3.5          | 0.2           | 69.4      | 228.7       |
| 13:17:35           | 397.0        | 3.5          | 0.2           | 69.5      | 225.9       |
| 13:18:35           | 491.6        | 3.5          | 0.2           | 69.4      | 220.7       |
| 13:19:35           | 455.1        | 3.5          | 0.2           | 69.4      | 219.3       |
| 13:20:35           | 451.7        | 3.5          | 0.2           | 69.5      | 216.5       |
| 13:21:35           | 519.9        | 3.5          | 0.2           | 69.4      | 210.6       |
| 13:22:35           | 646.3        | 3.5          | 0.2           | 69.5      | 206.7       |
| 13:23:35           | 522.6        | 3.6          | 0.2           | 69.5      | 204.0       |
| 13:24:35           | 462.4        | 3.6          | 0.2           | 69.4      | 202.7       |
| 13:25:35           | 372.9        | 3.6          | 0.2           | 69.5      | 202.2       |
| 13:26:35           | 386.4        | 3.6          | 0.2           | 69.5      | 200.6       |
| 13:27:35           | 336.5        | 3.5          | 0.2           | 69.6      | 200.6       |
| 13:28:35           | 298.7        | 3.6          | 0.2           | 69.6      | 200.6       |
| 13:29:35           | 276.7        | 3.7          | 0.2           | 69.5      | 200.6       |
| 13:30:35           | 241.3        | 3.7          | 0.2           | 69.5      | 200.6       |
| 13:31:35           | 217.4        | 3.8          | 0.2           | 69.5      | 200.6       |
| 13:32:35           | 199.2        | 4.0          | 0.2           | 69.6      | 200.6       |
| 13:33:35           | 187.5        | 4.0          | 0.2           | 69.6      | 200.6       |
| 13:34:35           | 157.6        | 4.1          | 0.2           | 69.6      | 200.6       |
| 13:35:35           | 134.5        | 4.1          | 0.2           | 69.6      | 200.6       |
| 13:36:35           | 137.5        | 4.0          | 0.2           | 69.6      | 200.6       |
| 13:37:35           | 128.2        | 4.0          | 0.2           | 69.6      | 200.6       |
| 13:38:35           | 120.9        | 4.0          | 0.2           | 69.6      | 200.6       |
| 13:39:35           | 111.4        | 4.1          | 0.2           | 69.6      | 200.6       |
| 13:40:35           | 107.6        | 4.0          | 0.2           | 69.6      | 200.6       |
| 13:41:35           | 100.4        | 4.0          | 0.2           | 69.7      | 200.6       |
| 13:42:35           | 94.8         | 4.1          | 0.2           | 69.7      | 200.6       |
| 13:43:35           | 102.2        | 4.1          | 0.2           | 69.8      | 200.6       |
| 13:44:35           | 106.1        | 4.3          | 0.2           | 69.8      | 200.6       |
| 13:45:35           | 100.0        | 4.6          | 0.2           | 69.8      | 200.6       |
| 13:46:35           | 98.4         | 4.6          | 0.2           | 69.7      | 200.6       |
| 13:47:35           | 98.8         | 4.8          | 0.2           | 69.7      | 200.6       |
| 13:48:35           | 98.6         | 4.6          | 0.2           | 69.8      | 200.6       |
| 13:49:35           | 95.6         | 4.6          | 0.2           | 69.8      | 200.5       |
| 13:50:35           | 89.9         | 4.6          | 0.2           | 69.7      | 200.6       |
| 13:51:35           | 102.4        | 4.6          | 0.2           | 69.8      | 200.6       |
| 13:52:35           | 103.8        | 4.5          | 0.2           | 69.8      | 200.6       |
| 13:53:35           | 99.4         | 4.6          | 0.2           | 69.9      | 200.6       |
| 13:54:35           | 93.4         | 4.7          | 0.2           | 69.9      | 200.6       |
| 13:55:35           | 94.0         | 4.7          | 0.2           | 69.9      | 200.5       |
| 13:56:35           | 87.7         | 4.6          | 0.2           | 69.8      | 200.5       |
| 13:57:35           | 85.4         | 4.6          | 0.2           | 69.8      | 200.5       |

Test #: 0407-01

07-1997  
Line

THC o  
ppm

THC i  
ppm

Flow  
inH2O

Temp  
F

Resin  
lb

|          |      |     |     |      |       |
|----------|------|-----|-----|------|-------|
| 13:58:35 | 84.7 | 4.5 | 0.2 | 69.8 | 200.5 |
| 13:59:35 | 84.1 | 4.5 | 0.2 | 69.9 | 200.5 |
| 14:00:35 | 78.0 | 4.5 | 0.2 | 69.9 | 200.5 |
| 14:01:35 | 73.7 | 4.6 | 0.2 | 69.7 | 200.5 |
| 14:02:35 | 68.6 | 4.3 | 0.2 | 69.5 | 200.5 |
| 14:03:35 | 64.5 | 4.0 | 0.2 | 69.4 | 200.5 |
| 14:04:35 | 60.8 | 4.0 | 0.2 | 69.3 | 200.5 |
| 14:05:35 | 58.3 | 4.0 | 0.2 | 69.3 | 200.6 |
| 14:06:35 | 56.1 | 3.9 | 0.2 | 69.2 | 200.5 |
| 14:07:35 | 52.6 | 3.7 | 0.2 | 69.2 | 200.6 |
| 14:08:35 | 48.5 | 3.6 | 0.2 | 69.0 | 200.5 |
| 14:09:35 | 47.1 | 3.5 | 0.2 | 69.0 | 200.6 |
| 14:10:35 | 43.1 | 3.4 | 0.2 | 69.0 | 200.5 |
| 14:11:35 | 40.1 | 3.4 | 0.2 | 69.0 | 200.6 |
| 14:12:35 | 36.5 | 3.3 | 0.2 | 68.9 | 200.5 |
| 14:13:35 | 34.5 | 3.2 | 0.2 | 68.8 | 200.6 |
| 14:14:35 | 31.8 | 3.1 | 0.2 | 68.8 | 200.5 |
| 14:15:35 | 29.8 | 3.1 | 0.2 | 68.9 | 200.6 |
| 14:16:35 | 27.9 | 3.0 | 0.2 | 68.9 | 200.5 |
| 14:17:35 | 26.3 | 2.9 | 0.2 | 69.0 | 200.6 |
| 14:18:35 | 24.5 | 2.9 | 0.2 | 69.0 | 200.5 |
| 14:19:35 | 23.3 | 2.8 | 0.2 | 69.1 | 200.6 |
| 14:20:35 | 21.4 | 2.7 | 0.2 | 69.1 | 200.5 |
| 14:21:35 | 20.1 | 2.6 | 0.2 | 69.0 | 200.6 |
| 14:22:35 | 19.4 | 2.6 | 0.2 | 69.0 | 200.5 |
| 14:23:35 | 18.0 | 2.6 | 0.2 | 69.0 | 200.5 |
| 14:24:35 | 17.1 | 2.5 | 0.2 | 68.9 | 200.5 |
| 14:25:35 | 15.9 | 2.4 | 0.2 | 68.9 | 200.5 |
| 14:26:35 | 15.3 | 2.4 | 0.2 | 68.9 | 200.5 |
| 14:27:35 | 14.2 | 2.4 | 0.2 | 68.8 | 200.5 |
| 14:28:35 | 13.5 | 2.3 | 0.2 | 68.8 | 200.5 |
| 14:29:35 | 13.1 | 2.4 | 0.2 | 68.8 | 200.5 |
| 14:30:35 | 12.7 | 2.3 | 0.2 | 68.8 | 200.5 |
| 14:31:35 | 12.6 | 2.2 | 0.2 | 68.9 | 200.5 |
| 14:32:35 | 11.7 | 2.2 | 0.2 | 68.9 | 200.5 |
| 14:33:35 | 11.5 | 2.2 | 0.2 | 68.9 | 200.5 |
| 14:34:35 | 10.9 | 2.1 | 0.2 | 68.9 | 200.5 |
| 14:35:35 | 10.6 | 2.1 | 0.2 | 68.9 | 200.5 |
| 14:36:35 | 9.7  | 2.0 | 0.2 | 68.8 | 200.5 |
| 14:37:35 | 9.7  | 2.0 | 0.2 | 68.7 | 200.5 |
| 14:38:35 | 9.6  | 1.9 | 0.2 | 68.7 | 200.5 |
| 14:39:35 | 8.9  | 1.8 | 0.2 | 68.7 | 200.5 |

Avg = 212.5 4.3 0.2 67.4 332.0

RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-07-1997 Current Time = 14:55:29  
 File Name = c:\cemdata\040797.PRN Calibration File:c:\cemdata\0407a.CAL

Test #: Post Out 0 In 0

| 04-07-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 14:55:33           | -0.0         | -1.1         | 0.2           | 68.9      | 200.5       |
| 14:55:34           | -0.0         | -1.1         | 0.2           | 68.9      | 200.5       |
| 14:55:35           | -0.0         | -1.1         | 0.2           | 68.9      | 200.5       |
| 14:55:38           | -0.0         | -1.2         | 0.2           | 68.9      | 200.6       |
| 14:55:48           | -0.0         | -1.2         | 0.2           | 68.9      | 200.5       |
| 14:55:58           | -0.0         | -1.2         | 0.2           | 68.9      | 200.5       |
| 14:56:08           | -0.0         | -1.2         | 0.2           | 68.8      | 200.5       |
| 14:56:18           | -0.0         | -1.2         | 0.1           | 68.9      | 200.5       |
| 14:56:28           | -0.0         | -1.2         | 0.0           | 68.9      | 200.5       |
| 14:56:38           | -0.0         | -1.2         | -0.0          | 68.9      | 200.5       |
| 14:56:48           | -0.0         | -1.2         | -0.0          | 68.8      | 200.5       |
| 14:56:58           | -0.0         | -1.2         | -0.0          | 68.9      | 200.5       |
| 14:57:08           | -0.0         | -1.2         | -0.0          | 68.8      | 200.5       |
| 14:57:18           | -0.0         | -1.2         | -0.0          | 68.8      | 200.5       |
| 14:57:28           | -0.0         | -1.2         | -0.0          | 68.8      | 200.5       |
| 14:57:38           | -0.0         | -1.2         | -0.0          | 68.8      | 200.5       |
| 14:57:48           | -0.0         | -1.2         | -0.0          | 68.8      | 200.5       |
| Avg =              | -0.0         | -1.2         | 0.1           | 68.9      | 200.5       |



RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-07-1997 Current Time = 15:02:53

File Name = c:\cemdata\040797.PRN Calibration File:c:\cemdata\0407a.CAL

Test #: Post Out 600 In 30.4

| 04-07-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 15:02:57           | 641.6        | 27.3         | -0.0          | 68.6      | 200.5       |
| 15:02:58           | 641.6        | 27.3         | -0.0          | 68.6      | 200.5       |
| 15:03:00           | 641.6        | 27.3         | -0.0          | 68.6      | 200.5       |
| 15:03:08           | 637.3        | 27.5         | -0.0          | 68.6      | 200.5       |
| 15:03:18           | 638.8        | 27.6         | -0.0          | 68.6      | 200.5       |
| 15:03:28           | 638.4        | 27.7         | -0.0          | 68.5      | 200.5       |
| 15:03:38           | 639.3        | 27.7         | -0.0          | 68.5      | 200.5       |
| 15:03:48           | 639.1        | 27.8         | -0.0          | 68.5      | 200.5       |
| 15:03:58           | 640.6        | 28.0         | -0.0          | 68.5      | 200.5       |
| Avg =              | 640.0        | 27.6         | -0.0          | 68.6      | 200.5       |

RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-07-1997 Current Time = 15:08:13  
 File Name = c:\cemdata\040797.PRN Calibration File: c:\cemdata\0407a.CAL

Test #: Post out 297 in 15.0

| 04-07-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 15:08:17           | 310.0        | 14.8         | -0.0          | 68.5      | 200.5       |
| 15:08:19           | 310.0        | 14.8         | -0.0          | 68.5      | 200.5       |
| 15:08:26           | 310.3        | 14.7         | -0.0          | 68.4      | 200.5       |
| 15:08:38           | 309.8        | 14.7         | -0.0          | 68.4      | 200.5       |
| 15:08:48           | 310.4        | 14.7         | -0.0          | 68.4      | 200.5       |
| 15:08:58           | 310.3        | 14.7         | -0.0          | 68.4      | 200.5       |
| 15:09:08           | 310.4        | 14.7         | -0.0          | 68.4      | 200.5       |
| 15:09:18           | 310.1        | 14.8         | -0.0          | 68.4      | 200.5       |
| 15:09:28           | 309.6        | 14.8         | -0.0          | 68.4      | 200.5       |
| 15:09:38           | 309.7        | 14.8         | -0.0          | 68.4      | 200.5       |
| 15:09:48           | 309.1        | 14.8         | -0.0          | 68.4      | 200.5       |
| 15:09:58           | 309.6        | 14.8         | -0.0          | 68.4      | 200.5       |
| Avg =              | 309.9        | 14.7         | -0.0          | 68.4      | 200.5       |

Outlet THC  
RF to 204 sty

RADIAN CORPORATION  
Environmental Measurement and Analysis Department  
Continuous Emissions Monitoring Data  
S Marine  
Arlington, MA  
Performed for: NEMA  
Date Printed = 04-07-1997 Current Time = 16:11:40  
File Name = c:\cemdata\040797.PRM Calibration File: c:\cemdata\0407a.CAL

Test #: Out RF 204 sty

| 04-07-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 16:11:44           | 507.4        | -1.5         | -5.8          | -240.5    | 200.5       |
| 16:11:46           | 507.4        | -1.5         | -5.8          | -240.5    | 200.5       |
| 16:11:52           | 507.4        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:12:02           | 507.2        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:12:12           | 507.4        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:12:22           | 507.4        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:12:32           | 508.3        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:12:42           | 508.1        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:12:52           | 506.7        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:13:02           | 507.2        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:13:12           | 507.4        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:13:22           | 507.4        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:13:32           | 507.4        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:13:42           | 507.5        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:13:52           | 507.4        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:14:02           | 507.4        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:14:12           | 508.1        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:14:22           | 508.3        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:14:32           | 507.4        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:14:42           | 508.7        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:14:52           | 510.3        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:15:02           | 507.7        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:15:12           | 507.8        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:15:22           | 510.1        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:15:32           | 508.4        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:15:42           | 507.7        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:15:52           | 509.9        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:16:02           | 508.6        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:16:12           | 508.6        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:16:22           | 509.1        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:16:32           | 508.2        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:16:42           | 507.6        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:16:52           | 508.4        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:17:02           | 509.1        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:17:12           | 509.4        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:17:22           | 507.5        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:17:32           | 509.3        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:17:42           | 508.2        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:17:52           | 507.6        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:18:02           | 509.1        | -1.4         | -5.8          | -240.5    | 200.4       |

Test #: Out RF 204 stv

| 04-07-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 16:18:12           | 508.4        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:18:22           | 507.4        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:18:32           | 508.2        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:18:42           | 508.9        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:18:52           | 507.8        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:19:02           | 507.4        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:19:12           | 507.4        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:19:22           | 507.4        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:19:32           | 507.4        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:19:42           | 507.4        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:19:52           | 508.0        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:20:02           | 507.4        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:20:12           | 507.4        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:20:22           | 507.4        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:20:32           | 507.4        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:20:42           | 507.3        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:20:52           | 507.3        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:21:02           | 507.5        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:21:12           | 506.7        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:21:22           | 506.8        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:21:32           | 507.4        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:21:42           | 506.6        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:21:52           | 506.3        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:22:02           | 507.4        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:22:12           | 507.3        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:22:22           | 507.3        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:22:32           | 506.5        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:22:42           | 506.7        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:22:52           | 507.7        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:23:02           | 507.9        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:23:12           | 506.9        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:23:22           | 506.4        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:23:32           | 507.3        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:23:42           | 507.4        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:23:52           | 506.9        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:24:02           | 507.4        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:24:12           | 508.4        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:24:22           | 507.7        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:24:32           | 507.4        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:24:42           | 507.3        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:24:52           | 507.3        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:25:02           | 508.3        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:25:12           | 507.6        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:25:22           | 507.2        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:25:32           | 507.4        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:25:42           | 508.1        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:25:52           | 507.0        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:26:02           | 507.2        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:26:12           | 507.4        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:26:22           | 507.4        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:26:32           | 507.4        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:26:42           | 507.4        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:26:52           | 507.2        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:27:02           | 507.4        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:27:12           | 506.6        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:27:22           | 506.6        | -1.4         | -5.8          | -240.5    | 200.4       |

Test #: Out RF 204 sty

| -07-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|------------------|--------------|--------------|---------------|-----------|-------------|
| 16:27:32         | 507.4        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:27:42         | 507.4        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:27:52         | 507.4        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:28:02         | 507.2        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:28:12         | 507.4        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:28:22         | 507.4        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:28:32         | 506.8        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:28:42         | 507.4        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:28:52         | 506.9        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:29:02         | 507.0        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:29:12         | 507.0        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:29:22         | 506.5        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:29:32         | 505.5        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:29:42         | 505.7        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:29:52         | 505.3        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:30:02         | 505.4        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:30:12         | 504.5        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:30:22         | 505.3        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:30:32         | 504.8        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:30:42         | 504.6        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:30:52         | 505.5        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:31:02         | 505.1        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:31:12         | 504.6        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:31:22         | 504.5        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:31:32         | 504.6        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:31:42         | 505.1        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:31:52         | 504.6        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:32:02         | 504.6        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:32:12         | 504.5        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:32:22         | 504.5        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:32:32         | 504.5        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:32:42         | 504.6        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:32:52         | 504.6        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:33:02         | 504.6        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:33:12         | 504.5        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:33:22         | 504.5        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:33:32         | 504.5        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:33:42         | 504.6        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:33:52         | 503.8        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:34:02         | 505.1        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:34:12         | 505.5        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:34:22         | 505.5        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:34:32         | 504.5        | -1.5         | -5.8          | -240.5    | 200.3       |
| 16:34:42         | 505.0        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:34:52         | 505.5        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:35:02         | 504.9        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:35:12         | 504.7        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:35:22         | 505.5        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:35:32         | 504.7        | -1.4         | -5.8          | -240.5    | 200.4       |
| 16:35:42         | 504.6        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:35:52         | 504.5        | -1.5         | -5.8          | -240.5    | 200.4       |
| 16:36:02         | 505.4        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:36:12         | 504.5        | -1.5         | -5.8          | -240.5    | 200.3       |
| 16:36:22         | 504.6        | -1.4         | -5.8          | -240.5    | 200.3       |
| 16:36:32         | 505.1        | -1.5         | -5.8          | -240.5    | 200.3       |
| 16:36:42         | 505.1        | -1.4         | -5.8          | -240.5    | 200.3       |

Test #: Out RF 204 sty

| 04-07-1997 | THC o | THC i | Flow  | Temp   | Resin |
|------------|-------|-------|-------|--------|-------|
| Time       | ppm   | ppm   | inH2O | F      | lb    |
| 16:36:52   | 504.5 | -1.4  | -5.8  | -240.5 | 200.3 |
| Avg =      | 506.8 | -1.4  | -5.8  | -240.5 | 200.4 |

**April 8, 1997**

**0408-01/NMMA-6-1: 18-ft Deck Gelcoat**

**0408-02/NMMA-3-2: 18-ft Hull Gelcoat**

**0408-03/NMMA-4-2: 18-ft Deck 35% Styrene Resin Spray Up Lamination**

**Balance QC Test and Audit**

Radian International LLC  
Stelling Engineering, P.A.  
Air Tech Environmental LLC

Date: 4-8

Initial: Ken W

Spray Gun: W/W

0408-01/02

NUMA-6-1

.. 3-2

Resin Flow Calibration (1<sup>60</sup><sub>0</sub>-second evaluation)

### Resin:Glass Ratio

| Material     | Drum No. | Gel Time (min) | Catalyst % Vol. | Setting |
|--------------|----------|----------------|-----------------|---------|
| Gelcoat      |          |                |                 |         |
| Resin (skin) |          |                |                 |         |
| Resin (lam)  |          |                |                 |         |

[illegible]



DAILY SPRAY EQUIPMENT CALIBRATION

Date: 4-8-97

Initial: Larry Dargitz

Spray Gun: \_\_\_\_\_

0408-03  
NMMMA-4-2

Resin Flow Calibration (15-second evaluation)

|                | Pre-Test | Post-Test |
|----------------|----------|-----------|
| Run 1 Mass (g) | 698      | 724       |
| Run 2 Mass (g) |          |           |
| Run 3 Mass (g) |          |           |
| Average        |          |           |

Resin:Glass Ratio

|                |      |  |
|----------------|------|--|
| Mass resin (g) | 301  |  |
| Mass glass (g) | 176  |  |
| TOTAL          | 477  |  |
| Percent glass  | 36.9 |  |

| Material     | Drum No. | Gel Time (min) | Catalyst % Vol. | Setting |
|--------------|----------|----------------|-----------------|---------|
| Gelcoat      |          |                |                 |         |
| Resin (skin) | 3        |                |                 |         |
| Resin (lam)  |          |                |                 |         |

Thickness Checks

| Run         | 1 | 2 | 3 | 4 | 5 |
|-------------|---|---|---|---|---|
| 60 mil skin |   |   |   |   |   |
| 150 mil     |   |   |   |   |   |
|             |   |   |   |   |   |
|             |   |   |   |   |   |
|             |   |   |   |   |   |
|             |   |   |   |   |   |

DAILY GAS CHROMATOGRAPHY LOG

Date: 4/8/97

0165

Initial: SLO

Run 080408-01

Test Nmma - 6-1 18' deck gelcoat  
Nmma - 3-2 18' hull gelcoat

| Run No. | Time | Comments          | THC | MMA Area | Styrene Area |
|---------|------|-------------------|-----|----------|--------------|
| 341     | 0717 | ✓ Air             |     | NO PEAKS | NO PEAKS     |
| 342     | 0723 | ✓ Air             |     |          |              |
| 343     | 0738 | BAG-4-130 MMA     |     | 2432546  |              |
| 344     | 0743 | BAG-4 144         |     | 2665533  |              |
| 345     | 0746 | BAG-4             |     | 2161471  |              |
| 346     | 0751 | BAG-4             |     | 2814342  |              |
| 347     | 0758 | BAG-4             |     | 3026870  |              |
| 348     | 0807 | 60% Bag 4         |     | 1542307  |              |
| 349     | 0811 | 60% Bag 4         |     | 1395949  |              |
| 350     | 0817 | 60% Bag 4         |     | 3078786* |              |
| 351     | 0821 | 60% Bag 4         |     | 1586065  |              |
| 352     | 0825 | 60% Bag 4         |     | 1283852  |              |
| 353     | 0828 | 60% Bag 4         |     | 1623835  |              |
| 354     | 0832 | 30% Bag 4         |     | 860340   |              |
| 355     | 0836 | 30% Bag 4         |     | 643010   |              |
| 356     | 0840 | 30% Bag 4         |     | 1011674  |              |
| 357     | 0844 | 59.2 Styrene      |     | 2009927  |              |
| 358     | 0853 | 59.2 Styrene      |     | 1905652  |              |
| 359     | 0901 | 122 Styrene (low) |     | 2735703  |              |
| 360     | 0907 | 122 Styrene       |     | 2905496  |              |
| 361     | 0913 | 122 Styrene       |     | 3588410  |              |
| 362     | 0922 | 122 Styrene       |     | 3106742  |              |
| 363     | 0928 | 122 Styrene       |     | 5244394  |              |
| 364     | 0933 | 122 Styrene       |     | 5346765  |              |
| 365     | 0940 | 1                 | 51  | 196430   | 839597       |
| 366     | 0945 | 2                 | 94  | 399552   | 2015273      |
| 367     | 0950 | 3                 | 239 | 776781   | 4292536      |
| 368     | 0957 | 4                 | 110 | 453842   | 2677293      |
| 369     | 1002 | 5                 | 265 | 565351   | 3290510      |
| 370     | 1008 | 6                 | 176 | 441704   | 2826437      |
| 371     | 1013 | 7                 | 130 | 347129   | 2448174      |
| 372     | 1019 | 8                 | 89  | 229255   | 1659935      |
| 373     | 1024 | 9                 | 89  | 213855   | 1499292      |
| 374     | 1030 | 10                | 79  | 179574   | 1314305      |

↑ CALS  
START Nmma-6-1  
0408-1

\* - Appears to be 100% BAG-4, not 60% as noted

DAILY GAS CHROMATOGRAPHY LOG

Date: 4/8/97

(2) of 5

Initial: DND

Run 0408-01

Test NMMA-6-1

| Run No. | Time   | Comments                    | THC | MMA Area | Styrene Area       |
|---------|--------|-----------------------------|-----|----------|--------------------|
| 375     | 1037   | 11                          | 54  | 184604   | 988357             |
| 376     | 1044   | 12                          | 45  | 112927   | 662633             |
| 377     | 1050   | 13                          | 36  | 93578    | 637437             |
| 378     | 1056   | 14                          | 31  | 83707    | 594457             |
| 379     | 1103   | 15                          | 28  | 48960    | 383613             |
| 380     | 1109   | 16                          | 24  | 74701    | 363945             |
| 381     | 1115   | 17                          | 21  | 82106    | 336867             |
| 382     | 1123   | 18                          | 20  | 75810    | 217950             |
| 383     | 1128   | 122 Sty                     |     |          | 3977982            |
| 384     | 1134   | 122 Sty                     |     |          | 5986944            |
| 385     | 1140   | 122 Sty                     |     |          | 3561422            |
| 386     | 1147   | 59.2 Sty                    |     |          | 2208619            |
| 387     | 1155   | Back 4                      |     | 1943838  | <del>1943838</del> |
| 388     | 1202   | 1                           | 129 | 456869   | 1752420            |
| 389     | 1207   | 2                           | 380 | 1047798  | 5012145            |
| 390     | 1213   | 3                           | 488 | 1282238  | 6699485            |
| 391     | 1219   | 4                           | 255 | 813083   | 4105082            |
| 392     | 1230   | 5                           | 167 | 351598   | 2135806            |
| 393     | 1235   | 6 (m.b. high, did not vent) | 130 | 388178   | 2434056            |
| 394     | 1241   | 7                           | 113 | 201650   | 1370466            |
| 395     | 1249   | 8 Late Start                | 103 | 197604   | 1838883            |
| 396     | 124956 | 9 - did not vent / latest   | 76  | 213578   | 2159629            |
| 397     | 12301  | 10 - did it right!          | 81  | 125305   | 973926             |
| 398     | 1306   | 11                          | 65  | 170693   | 1257564            |
| 399     | 1311   | 12                          | 57  | 197256   | 928055             |
| 400     | 1319   | 13                          | 43  | 56604    | 745968             |
| 401     | 1327   | 14                          | 34  | 48805    | 638651             |
| 402     | 1336   | 15                          | 19  | 53743    | 379303             |
| 403     | 1341   | 16                          | 14  | 12418    | 228759             |
| 404     | 1347   | 17                          | 10  | 76366    | 436729             |
| 405     | 1353   | 0 Air                       |     | 120 Peak | 120 Peak           |
| 406     | 1358   | 59.2 Sty low                |     |          | 1744087            |
| 407     | 131404 | 59.2 Sty                    |     |          | 1979082            |
| 408     | 1413   | 122 Sty                     |     |          | 3190493            |

NMMA-6-1  
CONT

END RUN  
POST QC

NMMA-3-2  
0408-02

POST QC

DAILY GAS CHROMATOGRAPHY LOG

Date: 4/8/97

Initial: ADL

3085

Run 0408-03

Test NMMA-4-2

Post  
0408-2  
NMMA-3-2  
  
NMMA-4-2  
0408-03

| Run No. | Time | Comments       | THC | MMA Area | Styrene Area           |
|---------|------|----------------|-----|----------|------------------------|
| 409     | 1419 | 122 STY        |     |          | 3722392                |
| 410     | 1428 | BAG 4          |     | 1870847  | <del>1870847</del>     |
| 411     | 1437 | BAG 4          |     | 2582950  |                        |
| 412     | 1446 | 1              | 160 |          | 2130403                |
| 413     | 1451 | 2              | 181 |          | 2912462                |
| 414     | 1455 | 3              | 260 |          | 3796434                |
| 415     | 1501 | 4              | 157 |          | 2991454                |
| 416     | 1506 | 5              | 113 |          | 2524680                |
| 417     | 1512 | 6              | 94  |          | 1465733                |
| 418     | 1516 | 7              | 71  |          | 1105396                |
| 419     | 1521 | 8              | 54  |          | 855882                 |
| 420     | 1527 | 9              | 55  |          | 951207                 |
| 421     | 1533 | 10             | 45  |          | 606729                 |
| 422     | 1542 | 11             | 100 |          | 1490351                |
| 423     | 1547 | 12             | 206 |          | 2454728                |
| 424     | 1552 | 13 -Late Start | 310 |          | 6096154                |
| 425     | 1558 | 14             | 185 |          | 2722650                |
| 426     | 1604 | 15             | 208 |          | 2845392                |
| 427     | 1613 | 16             | 120 |          | 1484244                |
| 428     | 1619 | 17             | 97  |          | 1453124                |
| 429     | 1624 | 18             | 78  |          | 1338082                |
| 430     | 1633 | 19             | 49  |          | 626620                 |
| 431     | 1640 | 20             | 30  |          | 229460                 |
| 432     | 1648 | 21             | 15  |          | 293845                 |
| 433     | 1653 | 22             | 10  |          | 134077                 |
| 434     | 1708 | 122 STY        |     |          | 3510616                |
| 435     | 1713 | 122 STY        |     |          | 3658904                |
| 436     | 1722 | 59.2 STY       |     |          | 1540804                |
| 437     | 1727 | 59.2 STY       |     |          | <del>1891859</del> 333 |
| 438     | 1737 | 204 STY        |     |          | 4631290                |
| 439     | 1743 | 204 STY        |     |          | 4745581                |
| 440     |      | 9AD INT        |     |          |                        |
| 441     | 1801 | BAG 4          |     | 1526752  | <del>1526752</del>     |
| 442     | 1807 | BAG 4          |     | 1901698  | <del>1901698</del>     |

END  
POST  
TEST

Radian International LLC  
Stelling Engineering, P.A.  
Air Tech Environmental LLC

Date: 4/8/97

Initial: ONE

Run Post 0408-03 MMA QC

**Test** \_\_\_\_\_

[illegible]

4/8/92

5/85

- Pre test ~~calc~~ very rough
- Replaced syringe tip @ Run 351 (60% Bag 4)
- 122 Styrene increases (pre test) due to poor regulator purge?
  - Was not purged prior to analyses 359-361
- Run 363, (122 Sty) revised syringe filling procedure to that previously used
  - had been using pressure ~~to~~ valve to fill, now using cylinder valve.
- Out of Cal time @ Run 364; Starting Numa-6-1 (0408-01)
- Only quick 1 luty post test work done @ 0408-01102 to expedite sampling
- ~~numa~~ Post-test performed 0408-03, applies to previous (01102) tests.

0408-01, 02, 03  
NMMAT-6-1  
-3-2  
-4-2

\* RUN # 341      APR 8, 1997 07:17:47  
START

0.238  
0.623  
1.020  
3.625  
STOP

RUN# 341      APR 8, 1997 07:17:47

| ESTD-AREA | RT    | AREA  | TYPE | CAL# | AMOUNT |
|-----------|-------|-------|------|------|--------|
|           | 1.635 | 25909 | UU   | 1    | 1.472  |
|           | 3.625 | 2916  | UU   | 2    | .078   |

TOTAL AREA= 278246  
MUL FACTOR=1.0000E+00

\* RUN # 342      APR 8, 1997 07:23:45  
START

0.315  
0.625  
1.730  
3.612

STOP

RUN# 342 APR 8, 1997 07:23:45

ESTD-AREA

| RT    | AREA | TYPE | CAL# | AMOUNT |
|-------|------|------|------|--------|
| 1.730 | 890  | UU   | 1    | .051   |
| 3.612 | 1043 | UU   | 2    | .028   |

TOTAL AREA= 196132  
MUL FACTOR=1.0000E+00

\* RUN # 343 APR 8, 1997 07:38:05

START

0.239  
0.626

1.460

1.669

STOP

RUN# 343 APR 8, 1997 07:38:05

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.669 | 2432546 | UB   | 1    | 138.169 |

TOTAL AREA=2586566  
MUL FACTOR=1.0000E+00

\* RUN # 344 APR 8, 1997 07:43:36

START

0.355



0.523

1.436

1.659

STOP

RUN# 344 APR 8, 1997 07:43:36

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.659 | 2665533 | PB   | 1    | 151.402 |

TOTAL AREA=2860237

MUL FACTOR=1.0000E+00

\* RUN # 345 APR 8, 1997 07:46:56  
START: not ready

0.276  
0.632

1.680

STOP

RUN# 345 APR 8, 1997 07:46:56

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.680 | 2161474 | BB   | 1    | 122.772 |

TOTAL AREA=2226042

MUL FACTOR=1.0000E+00

\* RUN # 346 APR 8, 1997 07:51:22  
START

0.399  
0.630

1.438

1.653

3.391  
3.625

STOP

RUN# 346

APR 8, 1997 07:51:22

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.653 | 2814342 | PB   | 1    | 159.855 |
| 3.625 | 4263    | UU   | 2    | .114    |

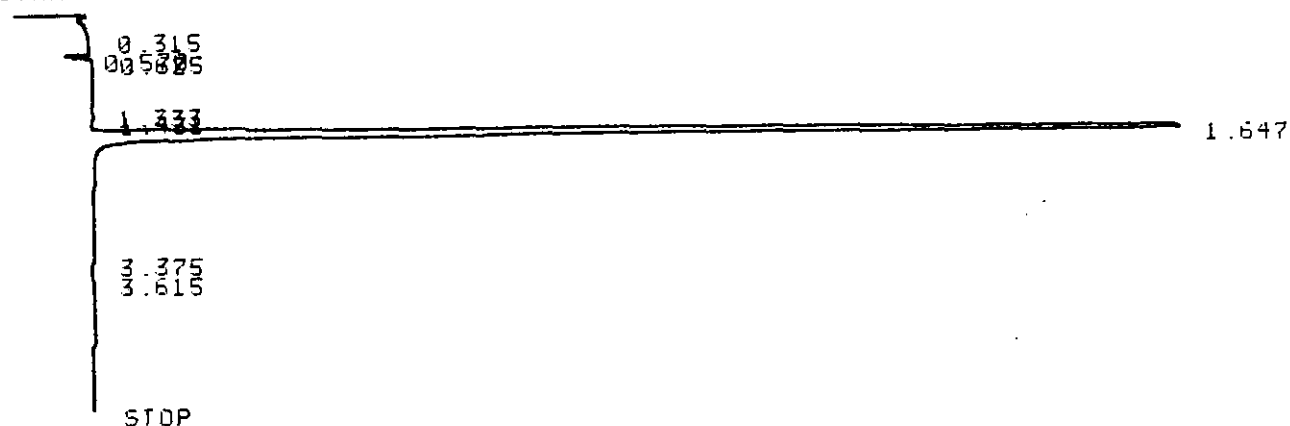
TOTAL AREA=3054914

MUL FACTOR=1.0000E+00

\* RUN # 347

APR 8, 1997 07:58:21

START



RUN# 347

APR 8, 1997 07:58:21

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.647 | 3026870 | UB   | 1    | 171.926 |
| 3.615 | 3182    | UU   | 2    | .085    |

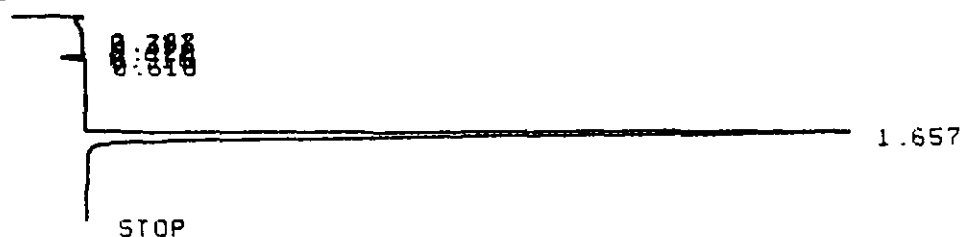
TOTAL AREA=3247346

MUL FACTOR=1.0000E+00

\* RUN # 348

APR 8, 1997 08:07:31

START



RUN# 348

APR 8, 1997 08:07:31

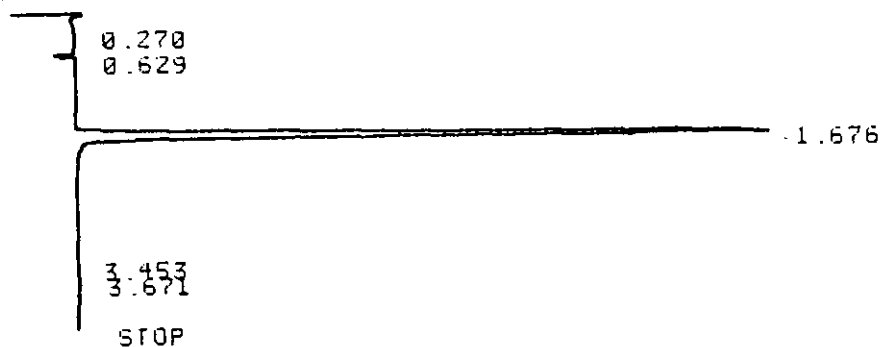
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.657 | 3026870 | UB   | 1    | 171.926 |
| 3.615 | 3182    | UU   | 2    | .085    |

TOTAL AREA=1764712  
MUL FACTOR=1.0000E+00

\* RUN # 349 APR 8, 1997 08:11:59

START



RUN# 349 APR 8, 1997 08:11:59

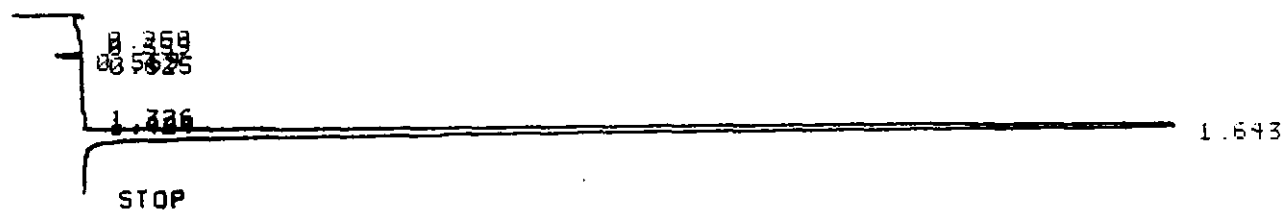
ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT |
|-------|------------|------|--------|
| 1.676 | 1395949 PB | 1    | 79.290 |
| 3.671 | 14392 I UB | 2    | .384   |

TOTAL AREA=1508459  
MUL FACTOR=1.0000E+00

\* RUN # 350 APR 8, 1997 08:17:59

START



RUN# 350 APR 8, 1997 08:17:59

ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT  |
|-------|------------|------|---------|
| 1.643 | 3078986 PB | 1    | 174.886 |

TOTAL AREA=3283850  
MUL FACTOR=1.0000E+00

START



RUN# 351 APR 8, 1997 08:21:13

ESTD-AREA

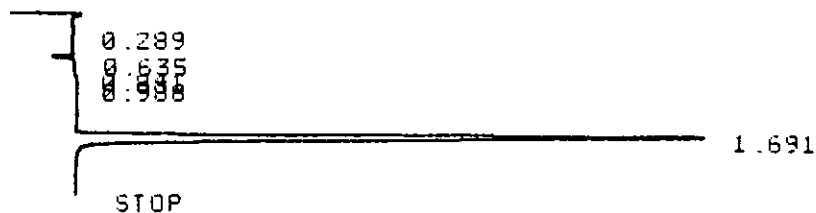
| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.657 | 1586068 | PB   | 1    | 90.089 |

TOTAL AREA=1821268

MUL FACTOR=1.0000E+00

\* RUN # 352 APR 8, 1997 08:25:14

START



RUN# 352 APR 8, 1997 08:25:14

ESTD-AREA

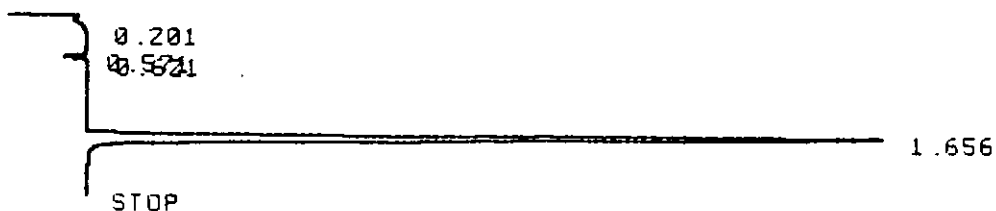
| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.691 | 1283152 | UB   | 1    | 72.883 |

TOTAL AREA=1496454

MUL FACTOR=1.0000E+00

\* RUN # 353 APR 8, 1997 08:28:48

START



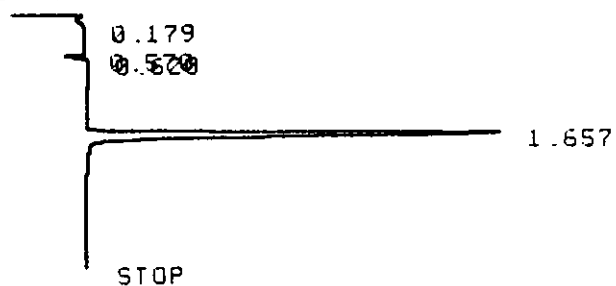
RUN# 353 APR 8, 1997 08:28:48

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.656 | 1623835 | UB   | 1    | 92.234 |

TOTAL AREA=1783180  
MUL FACTOR=1.0000E+00

\* RUN # 354 APR 8, 1997 08:32:21  
START



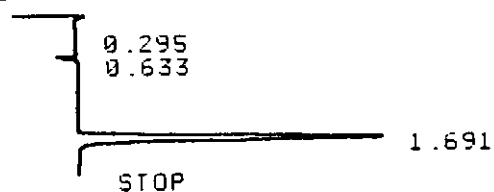
RUN# 354 APR 8, 1997 08:32:21

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.657 | 860340 | UB   | 1    | 49.867 |

TOTAL AREA=1058179  
MUL FACTOR=1.0000E+00

\* RUN # 355 APR 8, 1997 08:36:58  
START



RUN# 355 APR 8, 1997 08:36:58

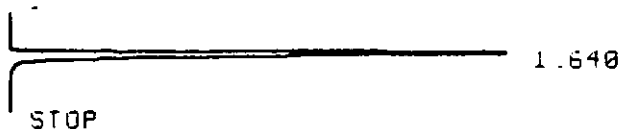
ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.691 | 643018 | UB   | 1    | 36.523 |

TOTAL AREA= 760262  
MUL FACTOR=1.0000E+00

\* RUN # 356 APR 8, 1997 08:40:37  
START





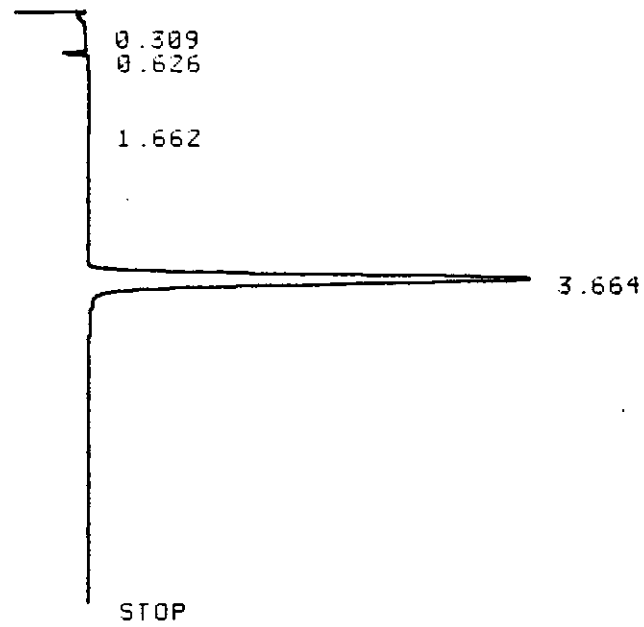
RUN# 356 APR 8, 1997 08:40:37

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.640 | 1011674 | PB   | 1    | 57.463 |

TOTAL AREA=1307524  
MUL FACTOR=1.0000E+00

\* RUN # 357 APR 8, 1997 08:44:39  
START



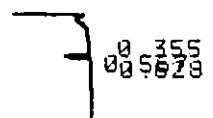
RUN# 357 APR 8, 1997 08:44:39

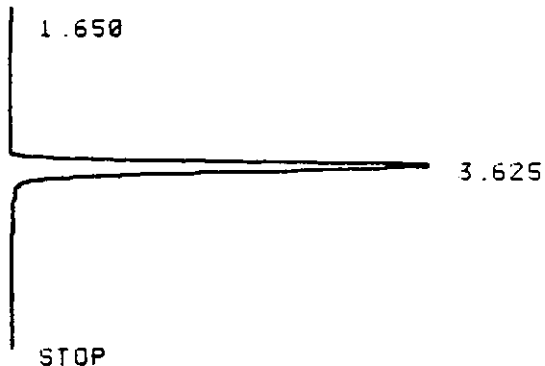
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.662 | 2143    | PV   | 1    | .122   |
| 3.664 | 2009927 | BB   | 2    | 53.665 |

TOTAL AREA=2134888  
MUL FACTOR=1.0000E+00

\* RUN # 358 APR 8, 1997 08:53:36  
START





RUN# 358 APR 8, 1997 08:53:36

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.650 | 3148    | UP   | 1    | .179   |
| 3.625 | 1905652 | BB   | 2    | 50.881 |

TOTAL AREA=2204141  
MUL FACTOR=1.0000E+00

\* RUN # 359 APR 8, 1997 09:01:53  
START



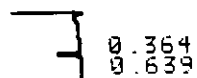
RUN# 359 APR 8, 1997 09:01:53

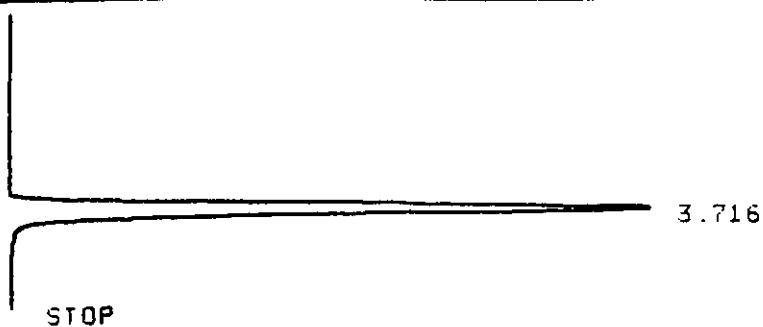
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.700 | 791     | UU   | 1    | .045   |
| 3.750 | 2735709 | PB   | 2    | 73.043 |

TOTAL AREA=2821898  
MUL FACTOR=1.0000E+00

\* RUN # 360 APR 8, 1997 09:07:24  
START





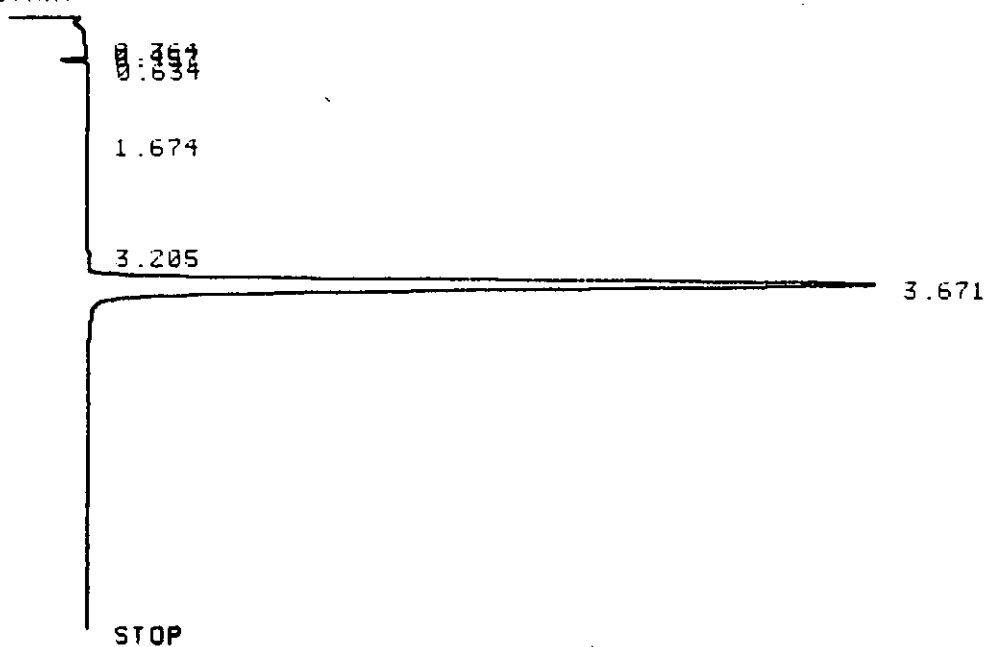
RUN# 360 APR 8, 1997 09:07:24

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 3.716 | 2905496 | BB   | 2    | 77.577 |

TOTAL AREA=3072278  
MUL FACTOR=1.0000E+00

\* RUN # 361 APR 8, 1997 09:13:11  
START



RUN# 361 APR 8, 1997 09:13:11

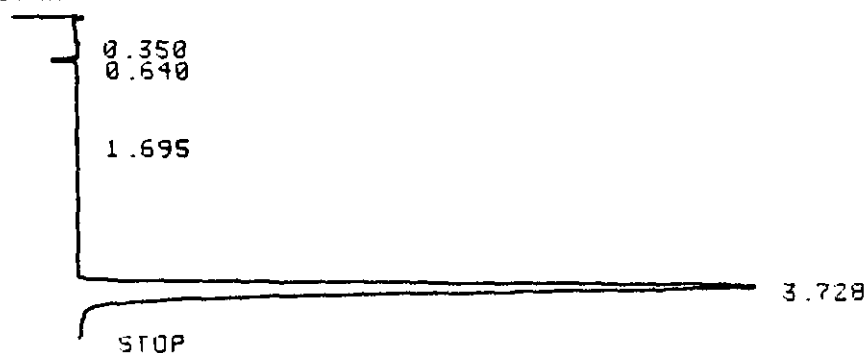
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.674 | 61638   | UU   | 1    | 3.501  |
| 3.671 | 3588410 | PB   | 2    | 95.811 |

TOTAL AREA=3952272  
MUL FACTOR=1.0000E+00



\* RUN # 362 APR 8, 1997 09:22:45  
START



RUN# 362 APR 8, 1997 09:22:45

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.695 | 1723    | UU   | 1    | .098   |
| 3.728 | 3106942 | PB   | 2    | 82.955 |

TOTAL AREA=3241094  
MUL FACTOR=1.0000E+00

\* RUN # 363 APR 8, 1997 09:28:35  
START



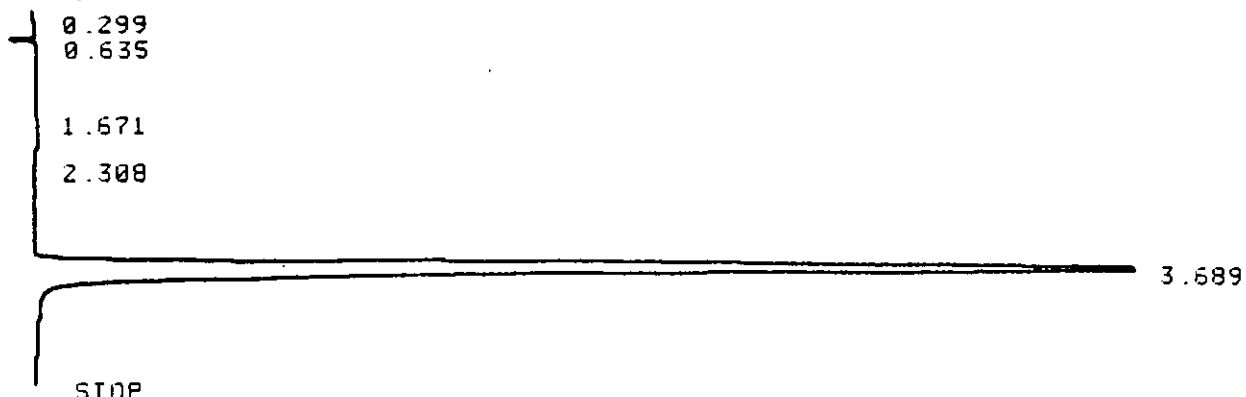
RUN# 363 APR 8, 1997 09:28:35

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.670 | 27841   | UU   | 1    | 1.581   |
| 3.662 | 5244394 | PB   | 2    | 140.025 |

TOTAL AREA=5568118  
MUL FACTOR=1.0000E+00

\* RUN # 364 APR 8, 1997 09:33:31  
START



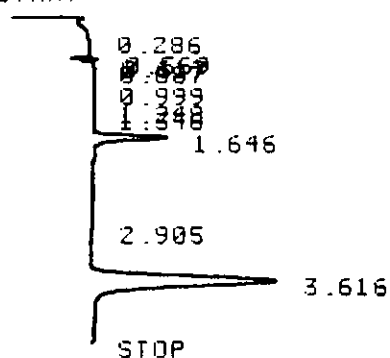
RUN# 364 APR 8, 1997 09:33:31

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.671 | 1883    | UU   | 1    | .107    |
| 3.689 | 5346765 | PB   | 2    | 142.759 |

TOTAL AREA=5463523  
MUL FACTOR=1.0000E+00

\* RUN # 365 APR 8, 1997 09:40:54  
START



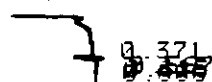
RUN# 365 APR 8, 1997 09:40:54

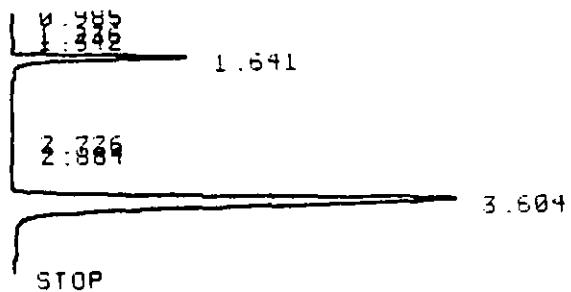
ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.646 | 196930 | UB   | 1    | 11.186 |
| 3.616 | 839597 | PB   | 2    | 22.417 |

TOTAL AREA=1378010  
MUL FACTOR=1.0000E+00

\* RUN # 366 APR 8, 1997 09:45:52  
START





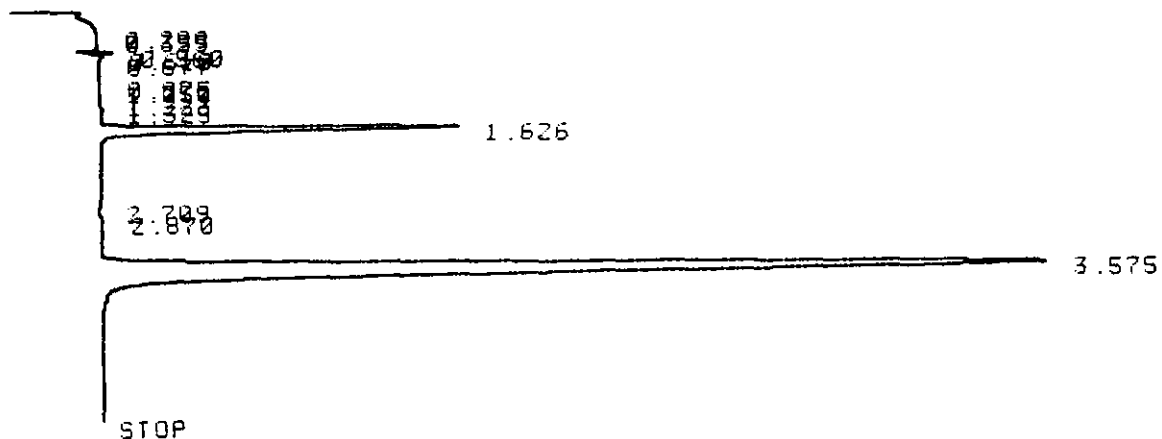
RUN# 366 APR 8, 1997 09:45:52

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.641 | 399552  | UB   | 1    | 22.695 |
| 3.604 | 2015273 | PB   | 2    | 53.808 |

TOTAL AREA=2937062  
MUL FACTOR=1.0000E+00

\* RUN # 367 APR 8, 1997 09:50:58  
START



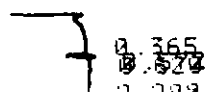
RUN# 367 APR 8, 1997 09:50:58

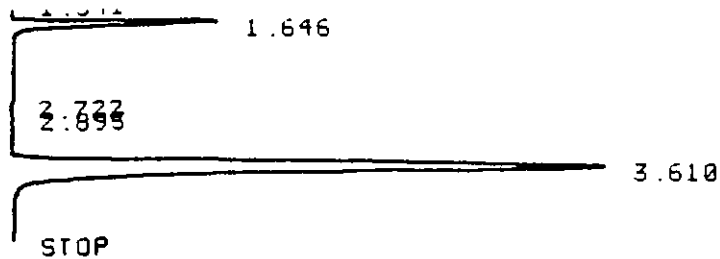
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.626 | 776781  | UB   | 1    | 44.121  |
| 3.575 | 4292563 | PB   | 2    | 114.611 |

TOTAL AREA=5607664  
MUL FACTOR=1.0000E+00

\* RUN # 368 APR 8, 1997 09:57:08  
START





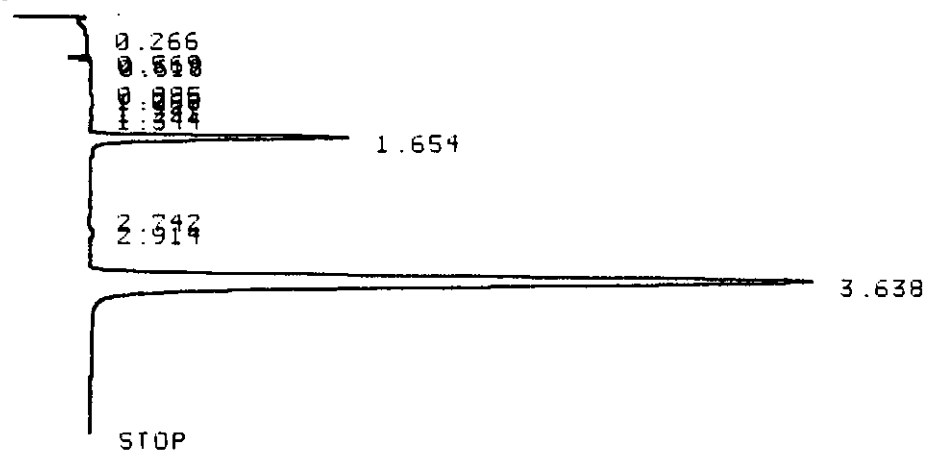
RUN# 368 APR 8, 1997 09:57:08

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.646 | 453842  | UB   | 1    | 25.778 |
| 3.610 | 2677293 | PB   | 2    | 71.484 |

TOTAL AREA=3485202  
MUL FACTOR=1.0000E+00

\* RUN # 369 APR 8, 1997 10:02:21  
START



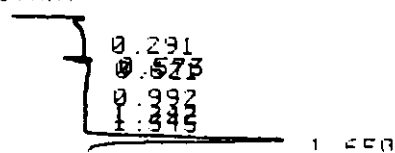
RUN# 369 APR 8, 1997 10:02:21

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.654 | 565351  | UB   | 1    | 32.112 |
| 3.638 | 3290510 | PB   | 2    | 87.857 |

TOTAL AREA=4152378  
MUL FACTOR=1.0000E+00

\* RUN # 370 APR 8, 1997 10:08:35  
START



2.303

3.620

STOP

RUN# 370 APR 8, 1997 10:08:35

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.650 | 441704  | UB   | 1    | 25.089 |
| 3.620 | 2826437 | BB   | 2    | 75.466 |

TOTAL AREA=3539250  
MUL FACTOR=1.0000E+00

\* RUN # 371 APR 8, 1997 10:13:58  
START

0.358  
0.6104  
0.975  
1.333

1.633

2.805

3.590

STOP

RUN# 371 APR 8, 1997 10:13:58

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.633 | 347129  | UB   | 1    | 19.717 |
| 3.590 | 2448174 | PB   | 2    | 65.366 |

TOTAL AREA=3171240  
MUL FACTOR=1.0000E+00

\* RUN # 372 APR 8, 1997 10:19:16  
START

0.352  
0.6000  
0.985  
1.330

1.629

2.862

3.584  
STOP

RUN# 372 APR 8, 1997 10:19:16

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.629 | 229255  | UB   | 1    | 13.022 |
| 3.584 | 1659935 | PB   | 2    | 44.320 |

TOTAL AREA=2258974  
MUL FACTOR=1.0000E+00

\* RUN # 373 APR 8, 1997 10:24:20  
START

0.354  
0.862  
0.985  
1.340  
1.643  
2.935  
3.620  
STOP

RUN# 373 APR 8, 1997 10:24:20

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.643 | 213855  | UB   | 1    | 12.147 |
| 3.620 | 1499292 | PB   | 2    | 40.031 |

TOTAL AREA=2072567  
MUL FACTOR=1.0000E+00

\* RUN # 374 APR 8, 1997 10:30:08  
START

0.332  
0.537  
0.943  
1.320  
1.620  
2.705  
3.606

STOP

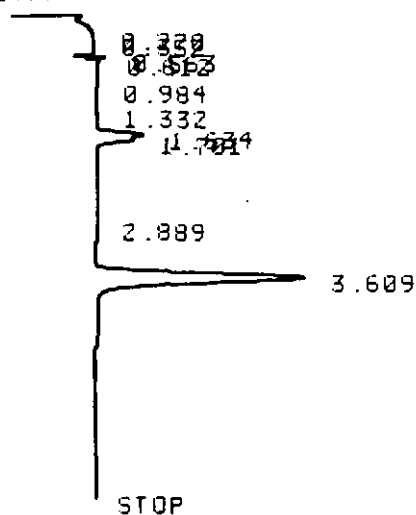
RUN# 374 APR 8, 1997 10:30:08

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.620 | 179574  | UP   | 1    | 10.200 |
| 3.606 | 1314305 | PB   | 2    | 35.092 |

TOTAL AREA=1661206  
MUL FACTOR=1.0000E+00

\* RUN # 375 APR 8, 1997 10:37:26  
START



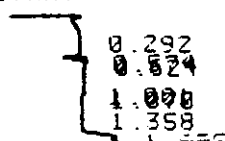
RUN# 375 APR 8, 1997 10:37:26

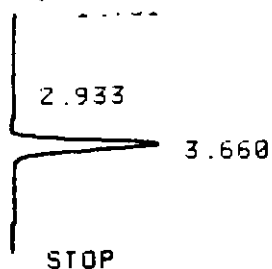
ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.634 | 184606 | UU   | 1    | 10.486 |
| 3.609 | 988357 | UB   | 2    | 26.389 |

TOTAL AREA=1791835  
MUL FACTOR=1.0000E+00

\* RUN # 376 APR 8, 1997 10:44:41  
START





RUN# 376 APR 8, 1997 10:44:41

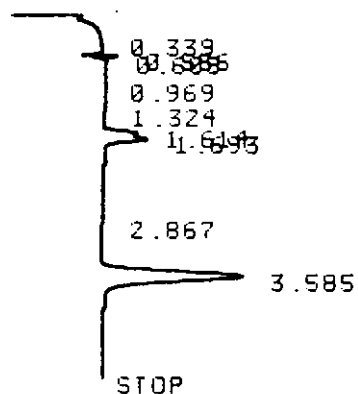
ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.655 | 112927 | UU   | 1    | 6.414  |
| 3.660 | 662633 | PB   | 2    | 17.692 |

TOTAL AREA=1234973

MUL FACTOR=1.0000E+00

\* RUN # 377 APR 8, 1997 10:50:28  
START



RUN# 377 APR 8, 1997 10:50:28

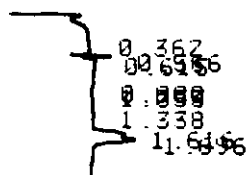
ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.614 | 93578  | UU   | 1    | 5.315  |
| 3.585 | 637437 | PB   | 2    | 17.020 |

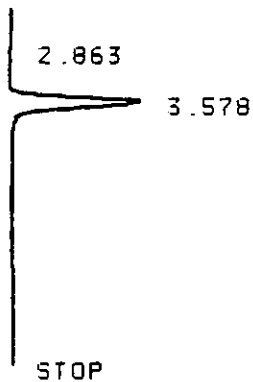
TOTAL AREA=1246685

MUL FACTOR=1.0000E+00

\* RUN # 378 APR 8, 1997 10:56:07  
START







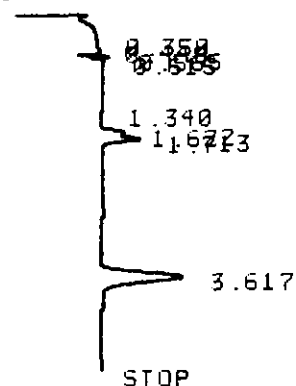
RUN# 378 APR 8, 1997 10:56:07

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.616 | 88707  | UU   | 1    | 5.039  |
| 3.578 | 594957 | PB   | 2    | 15.885 |

TOTAL AREA=1216051  
MUL FACTOR=1.0000E+00

\* RUN # 379 APR 8, 1997 11:03:51  
START



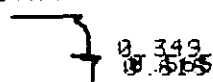
RUN# 379 APR 8, 1997 11:03:51

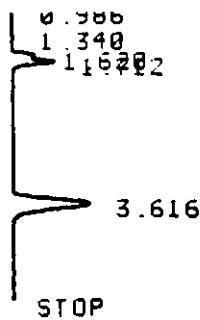
ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.622 | 48960  | PV   | 1    | 2.781  |
| 3.617 | 383613 | BB   | 2    | 10.242 |

TOTAL AREA= 774830  
MUL FACTOR=1.0000E+00

\* RUN # 380 APR 8, 1997 11:09:32  
START





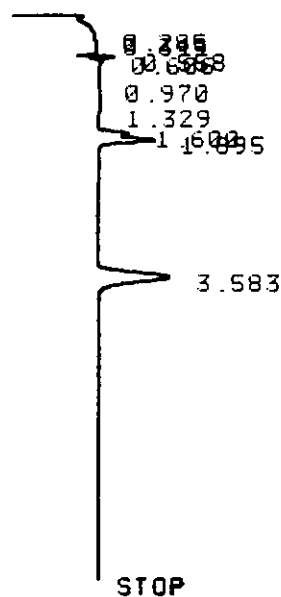
RUN# 380 APR 8, 1997 11:09:32

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.620 | 74701  | UU   | 1    | 4.243  |
| 3.616 | 363945 | PV   | 2    | 9.717  |

TOTAL AREA= 846382  
MUL FACTOR=1.0000E+00

\* RUN # 381 APR 8, 1997 11:15:04  
START



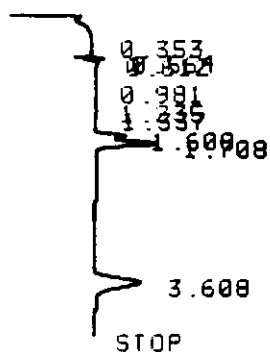
RUN# 381 APR 8, 1997 11:15:04

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.600 | 82106  | UU   | 1    | 4.664  |
| 3.583 | 336867 | PB   | 2    | 8.994  |

TOTAL AREA= 946546  
MUL FACTOR=1.0000E+00

\* RUN # 382      APR 8, 1997 11:23:05  
START

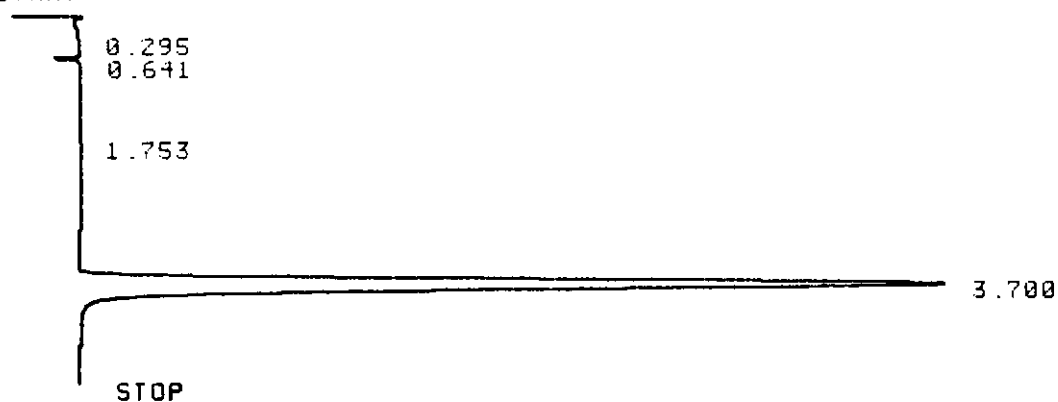


RUN# 382      APR 8, 1997 11:23:05

| ESTD-AREA | RT    | AREA   | TYPE | CAL# | AMOUNT |
|-----------|-------|--------|------|------|--------|
|           | 1.608 | 79818  | UU   | 1    | 4.534  |
|           | 3.608 | 217950 | UU   | 2    | 5.819  |

TOTAL AREA= 833897  
MUL FACTOR=1.0000E+00

\* RUN # 383      APR 8, 1997 11:28:34  
START



RUN# 383      APR 8, 1997 11:28:34

| ESTD-AREA | RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-----------|-------|---------|------|------|---------|
|           | 3.700 | 3977982 | PB   | 2    | 106.212 |

TOTAL AREA=4258570  
MUL FACTOR=1.0000E+00

\* RUN # 384      APR 8, 1997 11:34:26  
START



627

3.608

STOP

RUN# 384 APR 8, 1997 11:34:26

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.608 | 5986944 | PB   | 2    | 159.851 |

TOTAL AREA=6271862  
MUL FACTOR=1.0000E+00

\* RUN # 385 APR 8, 1997 11:40:03  
START

0.291  
0.654

3.738

STOP

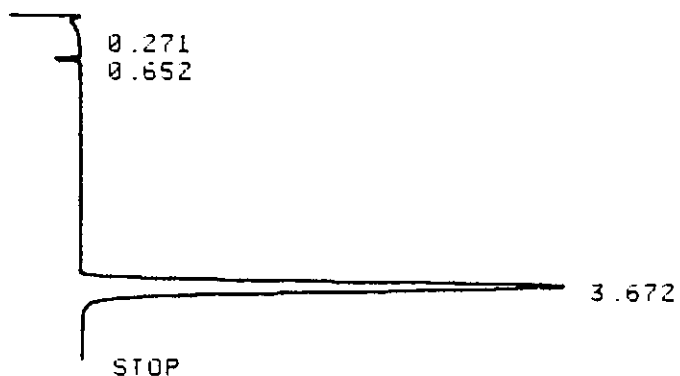
RUN# 385 APR 8, 1997 11:40:03

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 3.738 | 3561422 | PB   | 2    | 95.090 |

TOTAL AREA=3646309  
MUL FACTOR=1.0000E+00

• RUN # 386 APR 8, 1997 11:49:48  
START



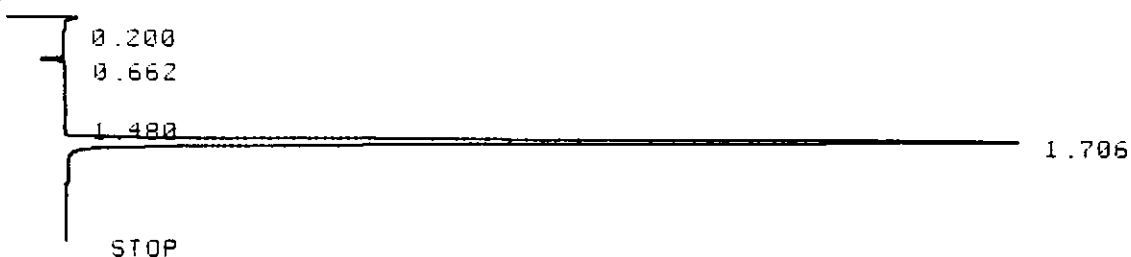
RUN# 386 APR 8, 1997 11:49:48

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 3.672 | 2208619 | PB   | 2    | 58.970 |

TOTAL AREA=2383430  
MUL FACTOR=1.0000E+00

\* RUN # 387 APR 8, 1997 11:55:33  
START



RUN# 387 APR 8, 1997 11:55:33

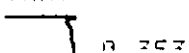
NO CALIB PEAKS FOUND

AREAX

| RT    | AREA    | TYPE | WIDTH | AREAX    |
|-------|---------|------|-------|----------|
| .200  | 14161   | BU   | .072  | .69221   |
| .662  | 70513   | PU   | .100  | 3.44679  |
| 1.480 | 17248   | UU   | .130  | .84311   |
| 1.706 | 1943838 | UB   | .072  | 95.01789 |

TOTAL AREA=2045760  
MUL FACTOR=1.0000E+00

\* RUN # 388 APR 8, 1997 12:02:56  
START



0408-02  
NMMA-3-2  
18' Hwy Geocut

0.029  
1.003  
1.358

1.659

2.378

3.645

STOP

RUN# 388 APR 8, 1997 12:02:56

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.659 | 456869  | UB   | 1    | 25.950 |
| 3.645 | 1752420 | PB   | 2    | 46.790 |

TOTAL AREA=2572077  
MUL FACTOR=1.0000E+00

\* RUN # 389 APR 8, 1997 12:07:49  
START

0.300  
0.568  
0.800  
1.040

1.650

2.355

3.629

STOP

RUN# 389 APR 8, 1997 12:07:49

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.650 | 1047798 | PB   | 1    | 59.515  |
| 3.629 | 5012445 | PB   | 2    | 133.832 |

TOTAL AREA=6204867  
MUL FACTOR=1.0000E+00

\* RUN # 390 APR 8, 1997 12:13:04  
START

0.299  
0.570  
0.800  
1.040

1.651

2.425  
2.748  
2.988

3.628

STOP

RUN# 390 APR 8, 1997 12:13:04

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.651 | 1282238 | PB   | 1    | 72.831  |
| 3.628 | 6699485 | PB   | 2    | 178.876 |

TOTAL AREA=8132650  
MUL FACTOR=1.0000E+00

\* RUN # 391 APR 8, 1997 12:19:11  
START

0.310  
0.520  
0.803  
1.047

1.650

2.736  
2.899

3.620

STOP

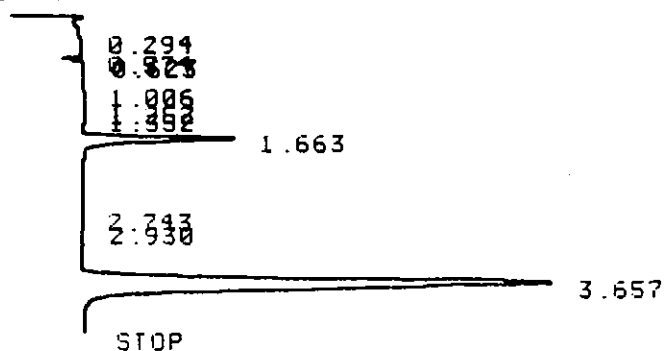
RUN# 391 APR 8, 1997 12:19:11

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.650 | 813083  | UB   | 1    | 46.183  |
| 3.620 | 4105082 | PB   | 2    | 109.606 |

TOTAL AREA=5336822  
MUL FACTOR=1.0000E+00

\* RUN # 392      APR 8, 1997 12:30:20  
START



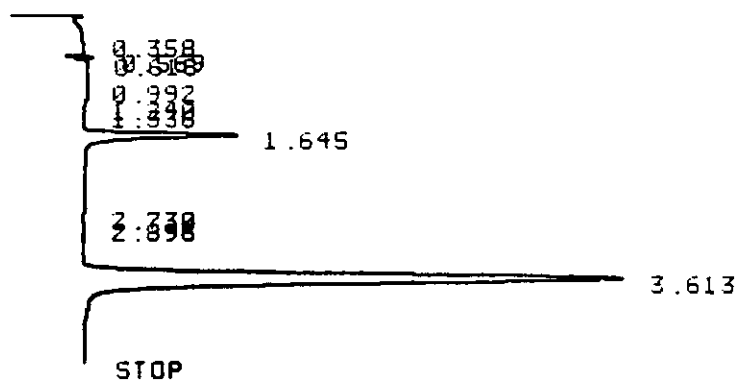
RUN# 392      APR 8, 1997 12:30:20

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.663 | 351598  | PB   | 1    | 19.971 |
| 3.657 | 2135806 | PB   | 2    | 57.026 |

TOTAL AREA=2596288  
MUL FACTOR=1.0000E+00

\* RUN # 393      APR 8, 1997 12:35:51  
START



RUN# 393      APR 8, 1997 12:35:51

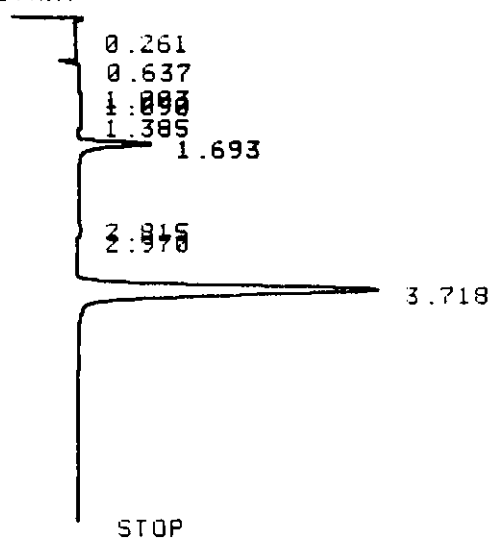
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.645 | 388178  | UB   | 1    | 22.049 |
| 3.613 | 2434056 | BB   | 2    | 64.989 |

TOTAL AREA=3158419  
MUL FACTOR=1.0000E+00



\* RUN # 394      APR 8, 1997 12:41:45  
START



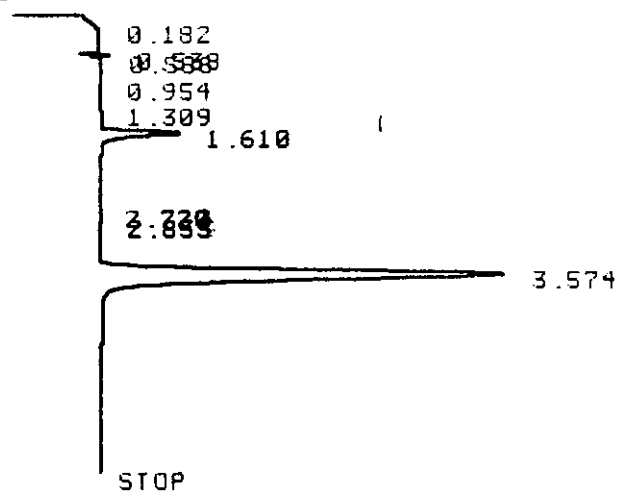
RUN# 394      APR 8, 1997 12:41:45

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.693 | 201650  | UB   | 1    | 11.454 |
| 3.718 | 1370966 | PB   | 2    | 36.605 |

TOTAL AREA=1812213  
MUL FACTOR=1.0000E+00

\* RUN # 395      APR 8, 1997 12:49:35  
START



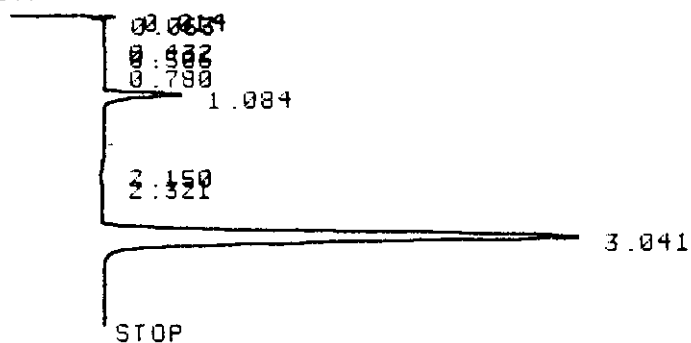
RUN# 395      APR 8, 1997 12:49:35

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.610 | 197604  | PB   | 1    | 11.224 |
| 3.574 | 1838883 | PB   | 2    | 49.098 |

TOTAL AREA=2144405  
MUL FACTOR=1.0000E+00

\* RUN # 396 APR 8, 1997 12:56:44  
START



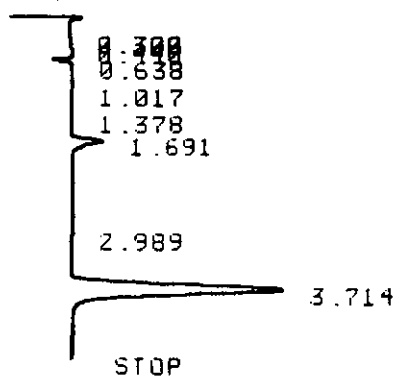
RUN# 396 APR 8, 1997 12:56:44

NO CALIB PEAKS FOUND  
AREA%

| RT    | AREA    | TYPE | WIDTH | AREA%    |
|-------|---------|------|-------|----------|
| .014  | 3672    | BB   | .008  | .14526   |
| .063  | 68832   | BU   | .185  | 2.72297  |
| .432  | 25086   | UU   | .103  | .99240   |
| .506  | 22131   | UU   | .098  | .87550   |
| .780  | 25614   | UU   | .162  | 1.01328  |
| 1.084 | 213578  | UB   | .093  | 8.44909  |
| 2.150 | 1113    | PV   | .068  | .04403   |
| 2.321 | 8170    | UU   | .150  | .32320   |
| 3.041 | 2159629 | PB   | .161  | 85.43427 |

TOTAL AREA=2527824  
MUL FACTOR=1.0000E+00

\* RUN # 397 APR 8, 1997 13:01:28  
START



RUN# 397 APR 8, 1997 13:01:28

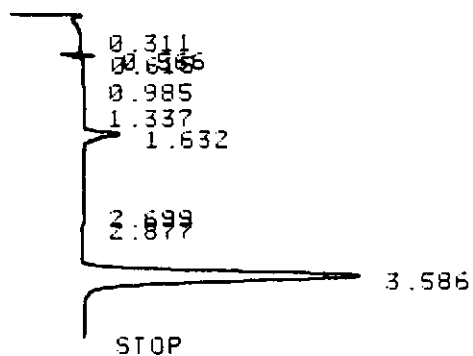
## ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.691 | 125305 | UB   | 1    | 7.117  |
| 3.714 | 973926 | PB   | 2    | 26.004 |

TOTAL AREA=1287759

MUL FACTOR=1.0000E+00

\* RUN # 338      APR 8, 1997 13:06:41  
START



RUN# 338      APR 8, 1997 13:06:41

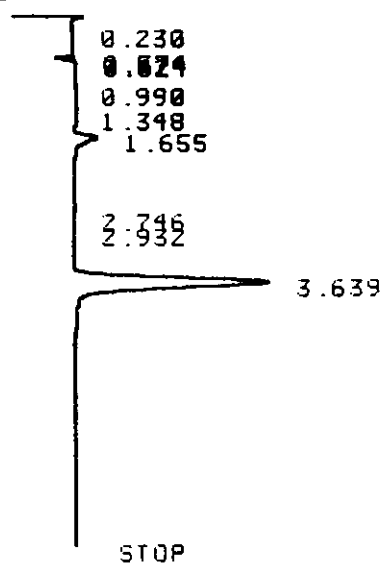
## ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.632 | 170693  | UU   | 1    | 9.695  |
| 3.586 | 1257564 | BB   | 2    | 33.577 |

TOTAL AREA=1742251

MUL FACTOR=1.0000E+00

\* RUN # 399      APR 8, 1997 13:11:26  
START



RUN# 399 APR 8, 1997 13:11:26

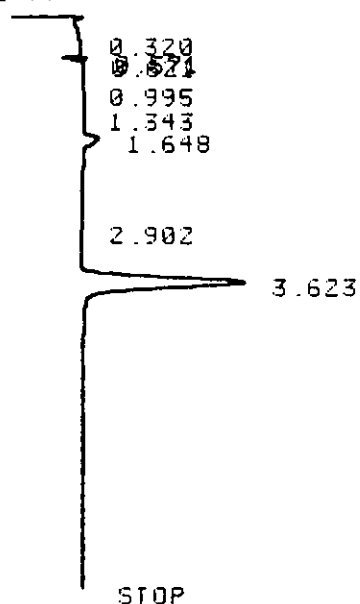
ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.655 | 197256 | UV   | 1    | 11.204 |
| 3.639 | 928055 | UB   | 2    | 24.779 |

TOTAL AREA=1449672  
MUL FACTOR=1.0000E+00

\* RUN # 400 APR 8, 1997 13:19:32

START



RUN# 400 APR 8, 1997 13:19:32

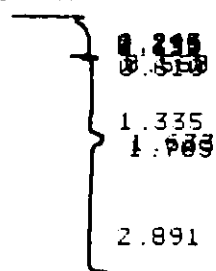
ESTD-AREA

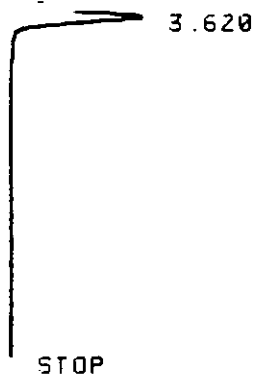
| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.648 | 56604  | PV   | 1    | 3.215  |
| 3.623 | 745968 | PB   | 2    | 19.917 |

TOTAL AREA= 964415  
MUL FACTOR=1.0000E+00

\* RUN # 401 APR 8, 1997 13:27:52

START





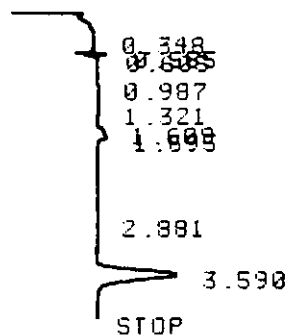
RUN# 401 APR 8, 1997 13:27:52

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.633 | 98805  | UU   | 1    | 5.612  |
| 3.620 | 638651 | UB   | 2    | 17.052 |

TOTAL AREA=1165148  
MUL FACTOR=1.0000E+00

\* RUN # 402 APR 8, 1997 13:36:47  
START



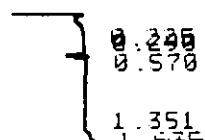
RUN# 402 APR 8, 1997 13:36:47

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.609 | 53743  | UU   | 1    | 3.053  |
| 3.590 | 379383 | PU   | 2    | 10.130 |

TOTAL AREA= 867250  
MUL FACTOR=1.0000E+00

\* RUN # 403 APR 8, 1997 13:41:37  
START



3.640  
STOP

RUN# 403 APR 8, 1997 13:41:37

| ESTD-AREA | RT    | AREA TYPE | CAL# | AMOUNT |
|-----------|-------|-----------|------|--------|
|           | 1.635 | 12418 UU  | 1    | .705   |
|           | 3.640 | 228759 PU | 2    | 6.108  |

TOTAL AREA= 358464  
MUL FACTOR=1.0000E+00

\* RUN # 404 APR 8, 1997 13:47:17  
START

0.366  
0.622  
1.355  
1.728  
3.639  
STOP

RUN# 404 APR 8, 1997 13:47:17

| ESTD-AREA | RT    | AREA TYPE | CAL# | AMOUNT |
|-----------|-------|-----------|------|--------|
|           | 1.630 | 76366 UU  | 1    | 4.338  |
|           | 3.639 | 436729 UU | 2    | 11.661 |

TOTAL AREA=1017266  
MUL FACTOR=1.0000E+00

\* RUN # 405 APR 8, 1997 13:53:15  
START

0.645  
1.778

3.735

STOP

RUN# 405 APR 8, 1997 13:53:15

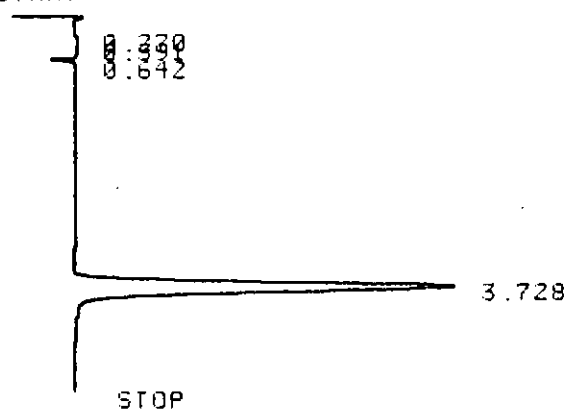
ESTD-AREA

| RT    | AREA | TYPE | CAL# | AMOUNT |
|-------|------|------|------|--------|
| 3.735 | 3924 | UU   | 2    | .105   |

TOTAL AREA= 34155  
MUL FACTOR=1.0000E+00

\* RUN # 406 APR 8, 1997 13:58:15

START



RUN# 406 APR 8, 1997 13:58:15

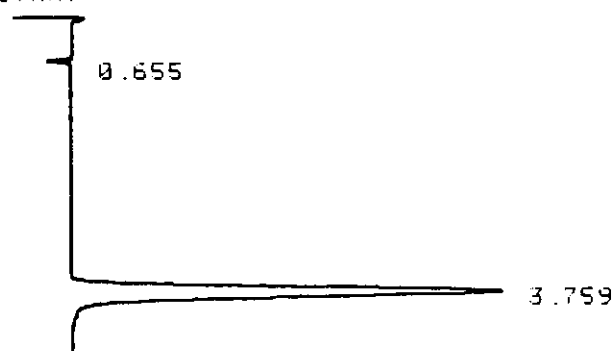
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 3.728 | 1744087 | PB   | 2    | 46.567 |

TOTAL AREA=1886347  
MUL FACTOR=1.0000E+00

\* RUN # 407 APR 8, 1997 14:04:18

START



STOP

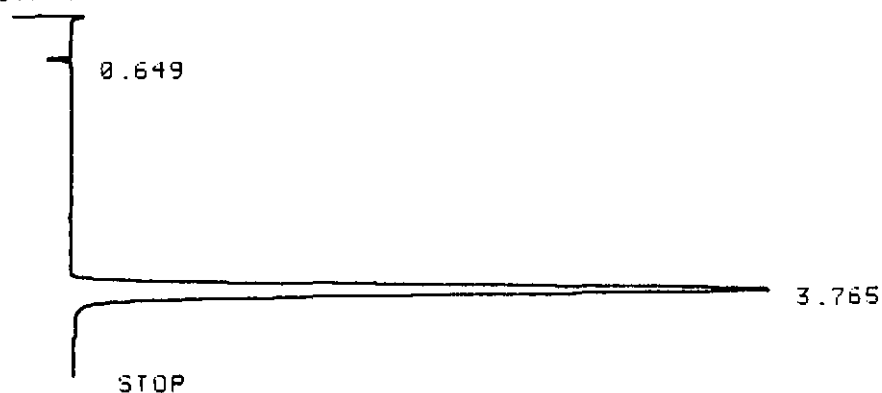
RUN# 407 APR 8, 1997 14:04:18

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 3.759 | 1979082 | PB   | 2    | 52.841 |

TOTAL AREA=2064564  
MUL FACTOR=1.0000E+00

\* RUN # 408 APR 8, 1997 14:13:05  
START



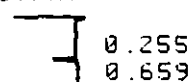
RUN# 408 APR 8, 1997 14:13:05

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 3.765 | 3190493 | PB   | 2    | 85.186 |

TOTAL AREA=3214808  
MUL FACTOR=1.0000E+00

\* RUN # 409 APR 8, 1997 14:19:16  
START





3.725

STOP

RUN# 409 APR 8, 1997 14:19:16

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 3.725 | 3722392 | PB   | 2    | 99.388 |

TOTAL AREA=3821686  
MUL FACTOR=1.0000E+00

\* RUN # 410 APR 8, 1997 14:28:40  
START

0.274  
0.641

1.491

1.706

3.491  
3.752

STOP

RUN# 410 APR 8, 1997 14:28:40

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.706 | 1870847 | PB   | 1    | 106.264 |
| 3.752 | 15030   | UU   | 2    | .401    |

TOTAL AREA=1973834  
MUL FACTOR=1.0000E+00

\* RUN # 411 APR 8, 1997 14:37:50  
START



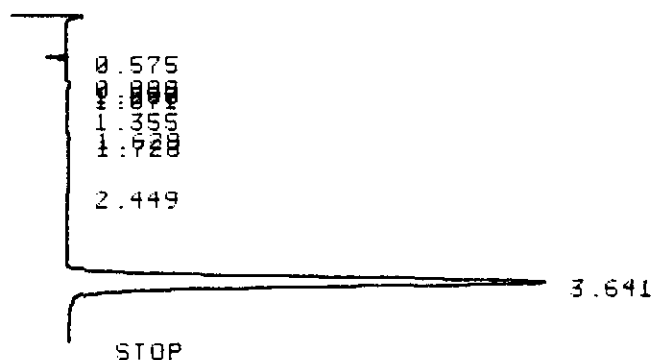
RUN# 411 APR 8, 1997 14:37:50

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.669 | 2582950 | PB   | 1    | 146.712 |

TOTAL AREA=2736485  
MUL FACTOR=1.0000E+00

\* RUN # 412 APR 8, 1997 14:46:32  
START



0408-03  
NMAA-4-2  
18' Dec 35% Styrene

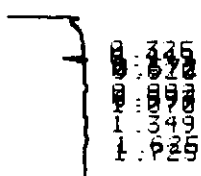
RUN# 412 APR 8, 1997 14:46:32

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.629 | 7332    | UU   | 1    | .416   |
| 3.641 | 2130403 | BB   | 2    | 56.882 |

TOTAL AREA=2176846  
MUL FACTOR=1.0000E+00

\* RUN # 413 APR 8, 1997 14:51:17  
START



2.448

3.646

STOP

RUN# 413 APR 8, 1997 14:51:17

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.625 | 62785   | UU   | 1    | 3.566  |
| 3.646 | 2912462 | BB   | 2    | 77.763 |

TOTAL AREA=3541282  
MUL FACTOR=1.0000E+00

\* RUN # 414 APR 8, 1997 14:55:55

START

0.225  
0.370  
0.002  
1.020  
0.433  
2.438

3.636

STOP

RUN# 414 APR 8, 1997 14:55:55

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.620 | 9925    | BU   | 1    | .564    |
| 3.636 | 3796434 | PB   | 2    | 101.365 |

TOTAL AREA=4020509  
MUL FACTOR=1.0000E+00

\* RUN # 415 APR 8, 1997 15:01:12

START

0.315  
0.571  
0.000  
1.350  
1.022  
2.434

3.635

STOP

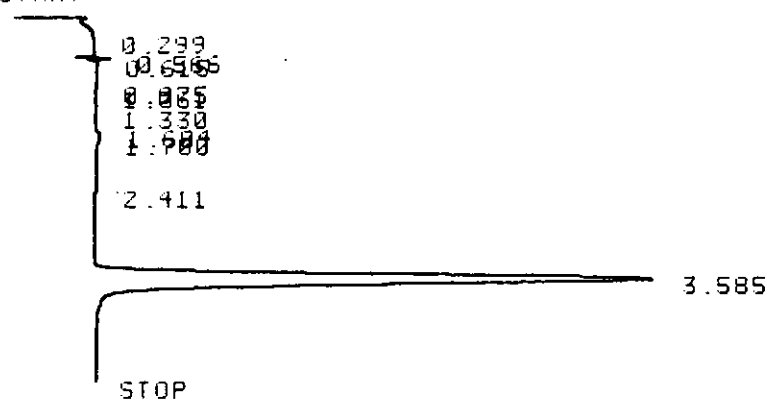
RUN# 415 APR 8, 1997 15:01:12

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.621 | 9740    | UU   | 1    | .553   |
| 3.635 | 2991454 | BB   | 2    | 79.872 |

TOTAL AREA=3119923  
MUL FACTOR=1.0000E+00

\* RUN # 416 APR 8, 1997 15:06:42  
START



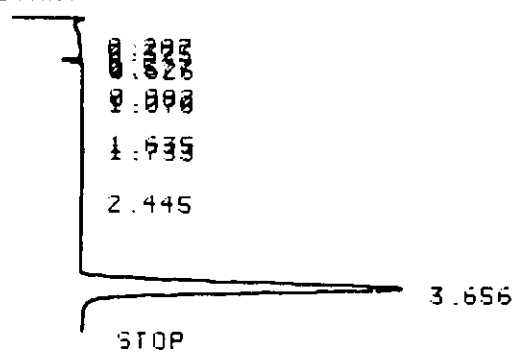
RUN# 416 APR 8, 1997 15:06:42

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.604 | 70765   | UU   | 1    | 4.019  |
| 3.585 | 2524680 | UB   | 2    | 67.409 |

TOTAL AREA=3219842  
MUL FACTOR=1.0000E+00

\* RUN # 417 APR 8, 1997 15:12:00  
START



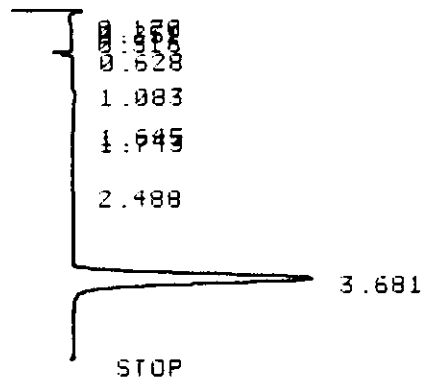
RUN# 417 APR 8, 1997 15:12:00

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.635 | 40202   | UU   | 1    | 2.283  |
| 3.656 | 1455733 | PB   | 2    | 38.868 |

TOTAL AREA=1787877  
MUL FACTOR=1.0000E+00

\* RUN # 418 APR 8, 1997 15:16:41  
START



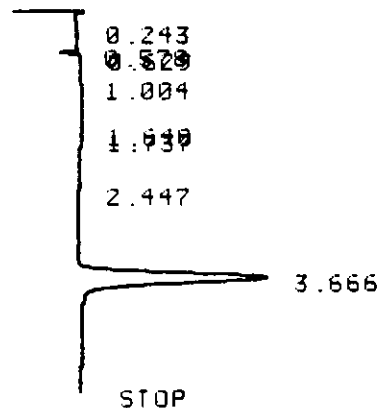
RUN# 418 APR 8, 1997 15:16:41

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.645 | 59508   | UU   | 1    | 3.380  |
| 3.681 | 1105396 | PB   | 2    | 29.514 |

TOTAL AREA=1410942  
MUL FACTOR=1.0000E+00

\* RUN # 419 APR 8, 1997 15:21:59  
START



RUN# 419

APR 8, 1997 15:21:53

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.640 | 52095  | UU   | 1    | 2.959  |
| 3.666 | 855882 | BB   | 2    | 22.852 |

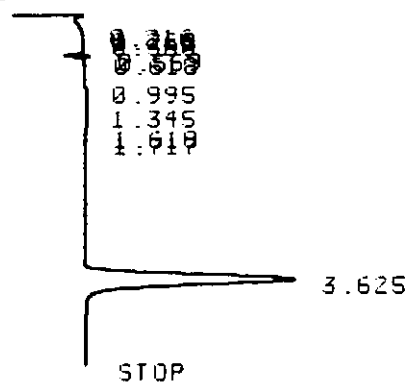
TOTAL AREA=1166652

MUL FACTOR=1.0000E+00

\* RUN # 420

APR 8, 1997 15:27:43

START



RUN# 420

APR 8, 1997 15:27:43

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.618 | 24427  | UU   | 1    | 1.387  |
| 3.625 | 957207 | PB   | 2    | 25.557 |

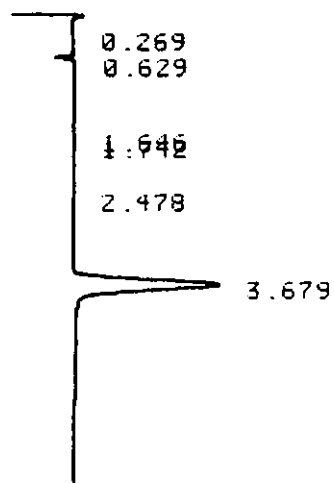
TOTAL AREA=1245126

MUL FACTOR=1.0000E+00

\* RUN # 421

APR 8, 1997 15:33:05

START



STOP

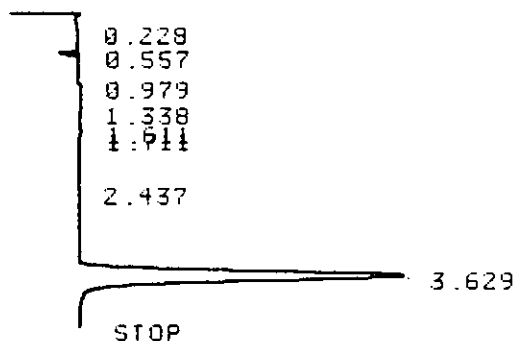
RUN# 421 APR 8, 1997 15:33:05

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.646 | 3743   | BU   | 1    | .213   |
| 3.679 | 666299 | PB   | 2    | 17.790 |

TOTAL AREA= 757634  
MUL FACTOR=1.0000E+00

\* RUN # 422 APR 8, 1997 15:42:31  
START



RUN# 422 APR 8, 1997 15:42:31

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.611 | 7024    | PV   | 1    | .399   |
| 3.629 | 1490351 | BB   | 2    | 39.792 |

TOTAL AREA=1534033  
MUL FACTOR=1.0000E+00

\* RUN # 423 APR 8, 1997 15:47:21  
START



RUN# 423 APR 8, 1997 15:47:21

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.639 | 65919   | UU   | 1    | 3.744  |
| 3.673 | 2954728 | PB   | 2    | 78.891 |

TOTAL AREA=3534253

MUL FACTOR=1.0000E+00

\* RUN # 424 APR 8, 1997 15:52:50

START



RUN# 424 APR 8, 1997 15:52:50

NO CALIB PEAKS FOUND

AREA%

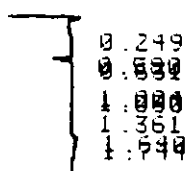
| RT    | AREA    | TYPE | WIDTH | AREA%    |
|-------|---------|------|-------|----------|
| .265  | 15154   | PV   | .016  | .23482   |
| .314  | 78525   | UU   | .125  | 1.21678  |
| .579  | 49155   | UU   | .100  | .76168   |
| .685  | 56142   | UU   | .116  | .86995   |
| .760  | 34774   | UU   | .075  | .53884   |
| 1.035 | 45139   | UU   | .137  | .69945   |
| 1.309 | 39738   | UU   | .098  | .61576   |
| 1.409 | 26783   | UU   | .107  | .41502   |
| 1.966 | 2071    | UU   | .102  | .03209   |
| 2.130 | 9859    | UU   | .119  | .15277   |
| 3.310 | 6096154 | PB   | .162  | 94.46285 |

TOTAL AREA=6453491

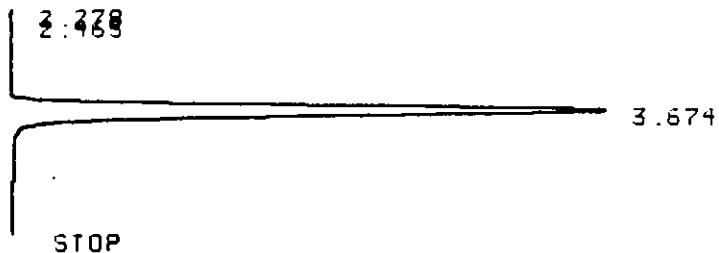
MUL FACTOR=1.0000E+00

\* RUN # 425 APR 8, 1997 15:58:15

START







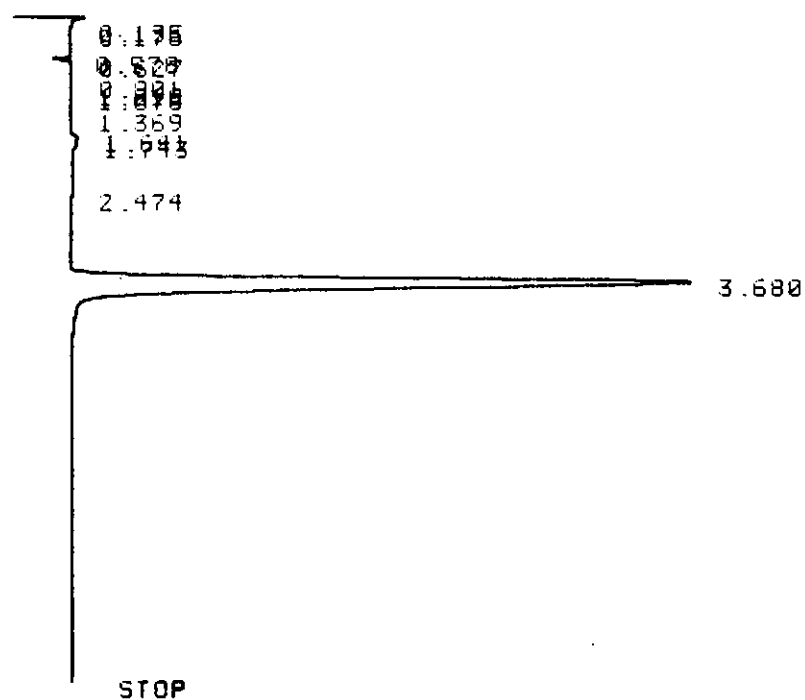
RUN# 425 APR 8, 1997 15:58:15

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.640 | 70947   | UU   | 1    | 4.030  |
| 3.674 | 2722650 | UB   | 2    | 72.695 |

TOTAL AREA=3327666  
MUL FACTOR=1.0000E+00

\* RUN # 426 APR 8, 1997 16:04:07  
START



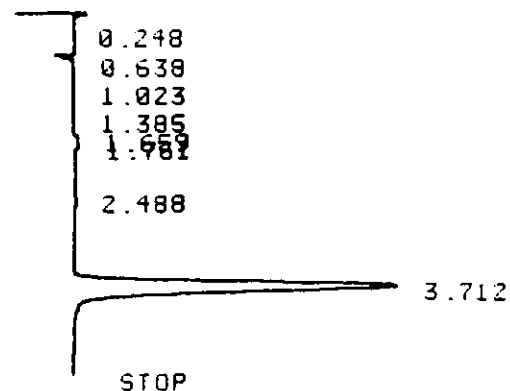
RUN# 426 APR 8, 1997 16:04:07

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.641 | 63157   | UU   | 1    | 3.587  |
| 3.680 | 2846392 | PB   | 2    | 75.972 |

TOTAL AREA=3328376  
MUL FACTOR=1.0000E+00

\* RUN # 427      APR 8, 1997 16:13:44  
START



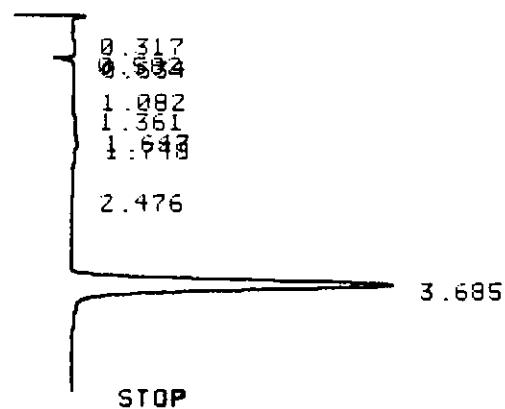
RUN# 427      APR 8, 1997 16:13:44

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.659 | 34547   | UU   | 1    | 1.962  |
| 3.712 | 1484244 | PB   | 2    | 39.629 |

TOTAL AREA=1774527  
MUL FACTOR=1.0000E+00

\* RUN # 428      APR 8, 1997 16:19:03  
START



RUN# 428      APR 8, 1997 16:19:03

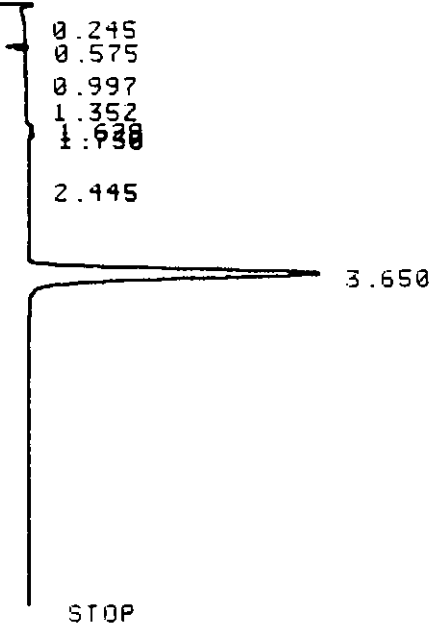
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.647 | 10583   | BU   | 1    | .601   |
| 3.685 | 1453124 | PB   | 2    | 38.798 |

TOTAL AREA=1514753  
MUL FACTOR=1.0000E+00

\* RUN # 429 APR 8, 1997 16:24:46

START



RUN# 429 APR 8, 1997 16:24:46

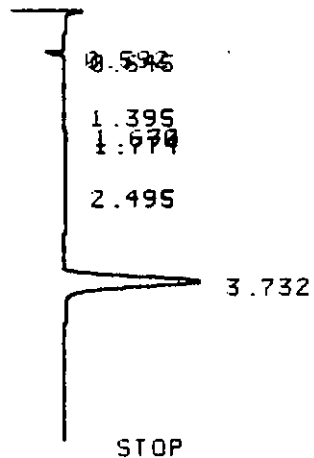
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.628 | 11842   | UU   | 1    | .673   |
| 3.650 | 1338082 | PB   | 2    | 35.727 |

TOTAL AREA=1401696  
MUL FACTOR=1.0000E+00

\* RUN # 430 APR 8, 1997 16:33:31

START



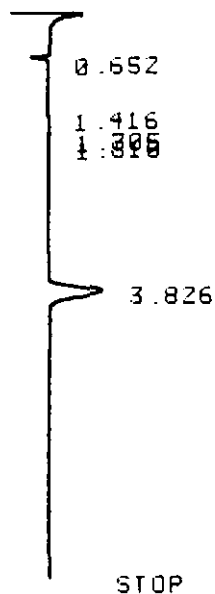
RUN# 430 APR 8, 1997 16:33:31

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.670 | 24975  | UU   | 1    | 1.419  |
| 3.732 | 626620 | BB   | 2    | 16.731 |

TOTAL AREA= 818305  
MUL FACTOR=1.0000E+00

\* RUN # 431      APR 8, 1997 16:40:15  
START

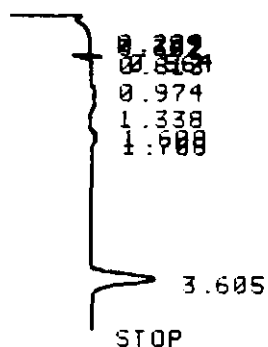


RUN# 431      APR 8, 1997 16:40:15

| ESTD-AREA | RT    | AREA   | TYPE | CAL# | AMOUNT |
|-----------|-------|--------|------|------|--------|
|           | 1.705 | 47496  | UU   | 1    | 2.698  |
|           | 3.826 | 229460 | BP   | 2    | 6.127  |

TOTAL AREA= 440654  
MUL FACTOR=1.0000E+00

\* RUN # 432      APR 8, 1997 16:48:45  
START



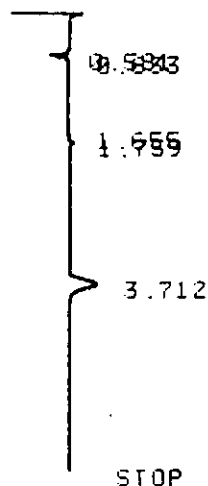
RUN# 432      APR 8, 1997 16:48:45

0.000 0.000

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.708 | 64689  | UU   | 1    | 3.674  |
| 3.605 | 293845 | PU   | 2    | 7.846  |

TOTAL AREA= 806146  
MUL FACTOR=1.0000E+00

\* RUN # 433      APR 8, 1997 16:53:41  
START



RUN# 433      APR 8, 1997 16:53:41

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.655 | 30066  | UU   | 1    | 1.708  |
| 3.712 | 134077 | PU   | 2    | 3.580  |

TOTAL AREA= 299821  
MUL FACTOR=1.0000E+00

\* RUN # 434      APR 8, 1997 17:08:50  
START



RUN# 434      APR 8, 1997 17:08:50

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 3.749 | 3510616 | PB   | 2    | 93.733 |

TOTAL AREA=3539986  
MUL FACTOR=1.0000E+00

\* RUN # 435 APR 8, 1997 17:13:31  
START



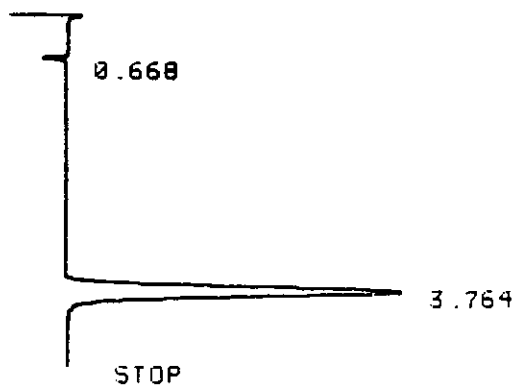
RUN# 435 APR 8, 1997 17:13:31

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 3.751 | 3658906 | BB   | 2    | 97.693 |

TOTAL AREA=3758253  
MUL FACTOR=1.0000E+00

\* RUN # 436 APR 8, 1997 17:22:03  
START



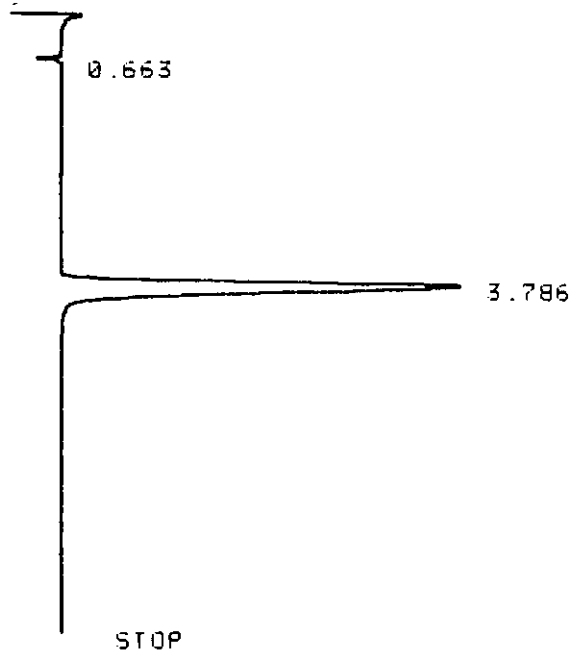
RUN# 436 APR 8, 1997 17:22:03

ESTD-AREA

| RT | AREA | TYPE | CAL# | AMOUNT |
|----|------|------|------|--------|
|----|------|------|------|--------|

TOTAL AREA=1625102  
MUL FACTOR=1.0000E+00

\* RUN # 437      APR 8, 1997 17:27:33  
START



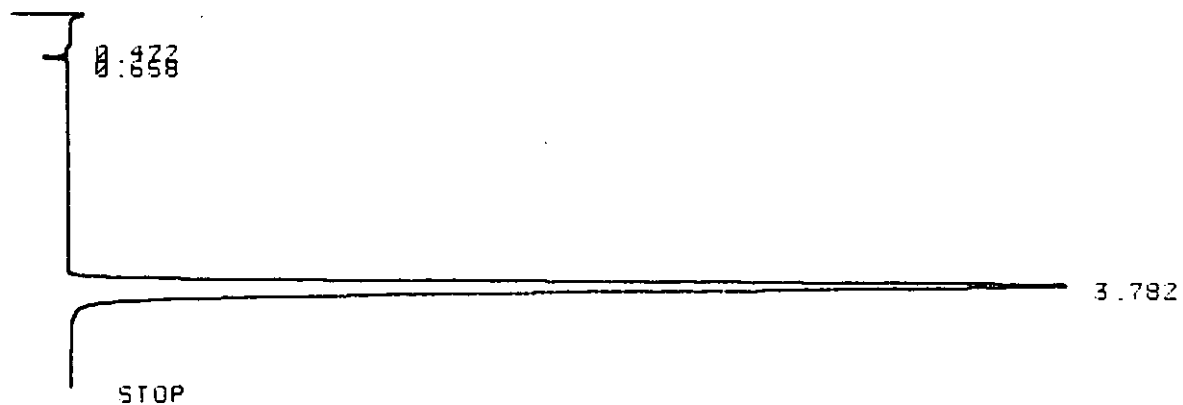
RUN# 437      APR 8, 1997 17:27:33

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 3.786 | 1859333 | PB   | 2    | 49.644 |

TOTAL AREA=1905209  
MUL FACTOR=1.0000E+00

\* RUN # 438      APR 8, 1997 17:37:58  
START



RUN# 438 APR 8, 1997 17:37:58

ESTD-AREA

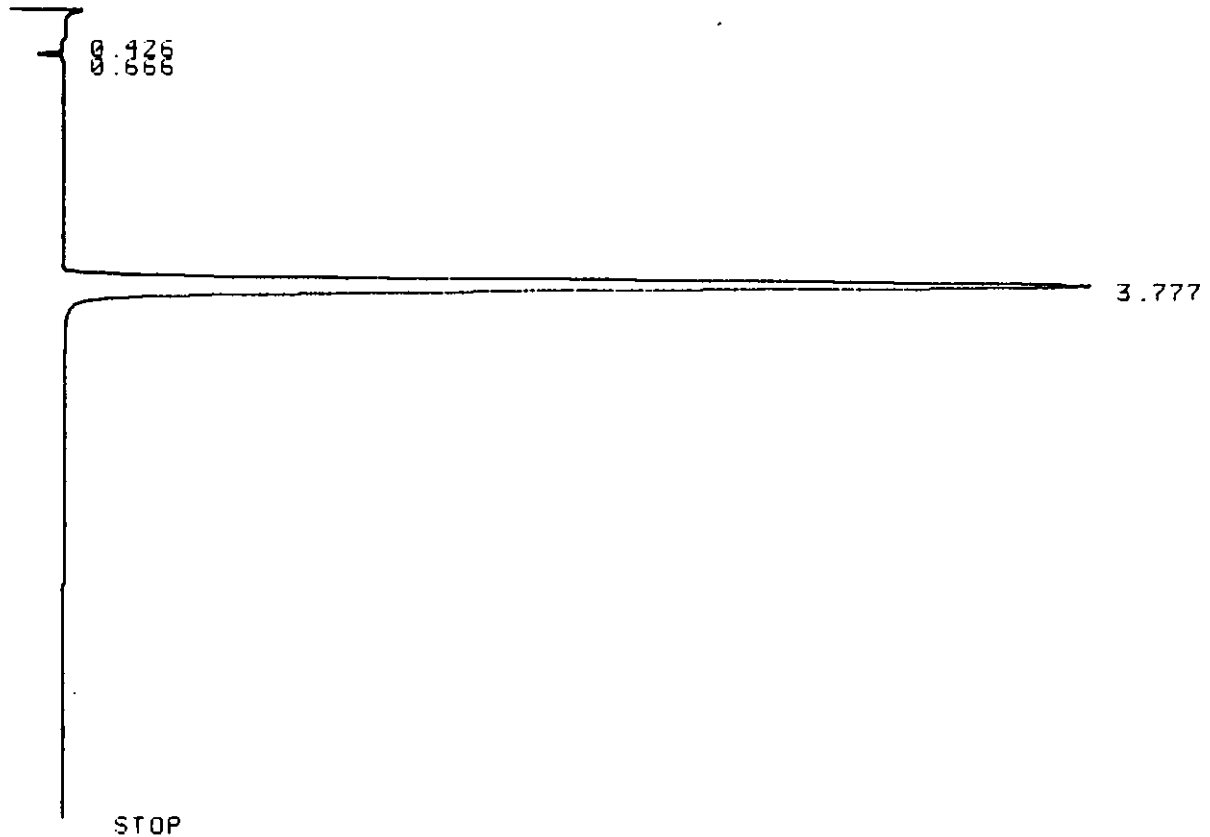
| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.782 | 4631290 | BB   | 2    | 123.655 |

TOTAL AREA=4700982

MUL FACTOR=1.0000E+00

\* RUN # 439 APR 8, 1997 17:43:48

START



RUN# 439 APR 8, 1997 17:43:48

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.777 | 4745581 | PB   | 2    | 126.707 |

TOTAL AREA=4829520

MUL FACTOR=1.0000E+00

\* RUN # 440 APR 8, 1997 17:56:52

START





1.610  
2.265  
STOP 3.656

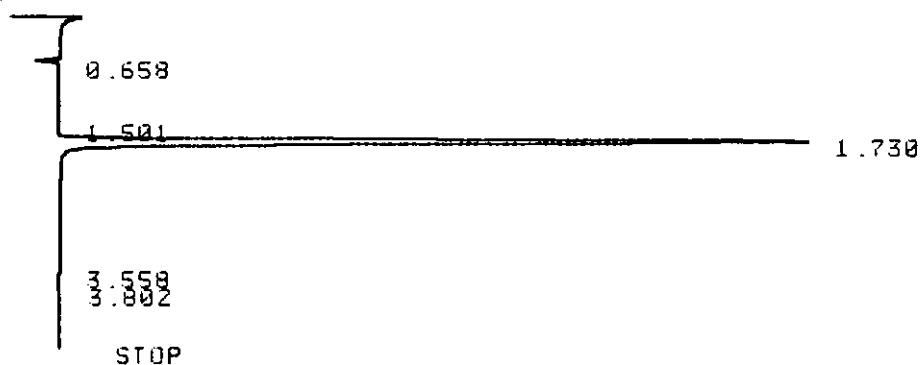
RUN# 440 APR 8, 1997 17:56:52

ESTD-AREA

| RT    | AREA  | TYPE | CAL# | AMOUNT |
|-------|-------|------|------|--------|
| 1.610 | 49974 | PU   | 1    | 2.839  |
| 3.656 | 1615  | I PH | 2    | .043   |

TOTAL AREA=1202333  
MUL FACTOR=1.0000E+00

\* RUN # 441 APR 8, 1997 18:01:29  
START



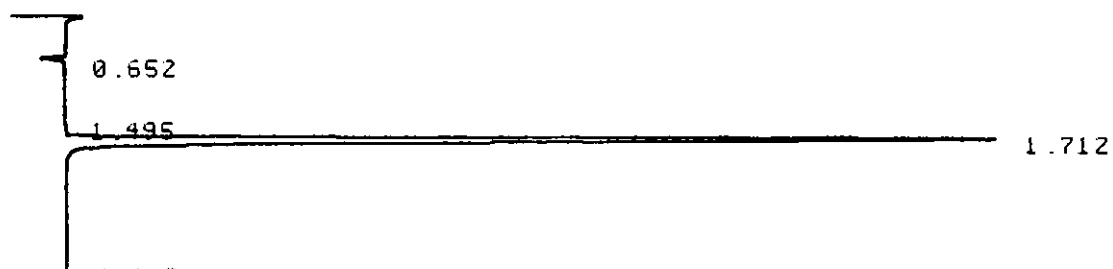
RUN# 441 APR 8, 1997 18:01:29

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.730 | 1526752 | PH   | 1    | 86.720 |
| 3.802 | 11954   | UU   | 2    | .319   |

TOTAL AREA=1565574  
MUL FACTOR=1.0000E+00

\* RUN # 442 APR 8, 1997 18:07:11  
START



STOP

RUN# 442 APR 8, 1997 18:07:11

ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT  |
|-------|------------|------|---------|
| 1.712 | 1901698 PB | 1    | 108.016 |

TOTAL AREA=1961796  
MUL FACTOR=1.0000E+00

\* RUN # 443 APR 8, 1997 18:12:26  
START



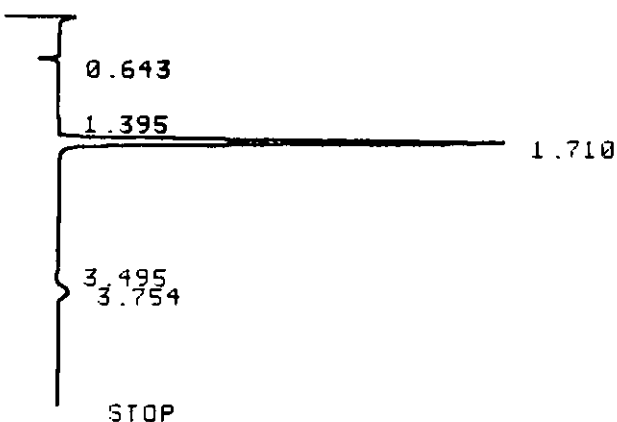
RUN# 443 APR 8, 1997 18:12:26

ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT  |
|-------|------------|------|---------|
| 1.710 | 1932713 PB | 1    | 109.778 |

TOTAL AREA=2005455  
MUL FACTOR=1.0000E+00

\* RUN # 444 APR 8, 1997 18:18:07  
START



RUN# 444 APR 8, 1997 18:18:07

ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT  |
|-------|------------|------|---------|
| 1.710 | 1932713 PB | 1    | 109.778 |

3.754

58916

UU

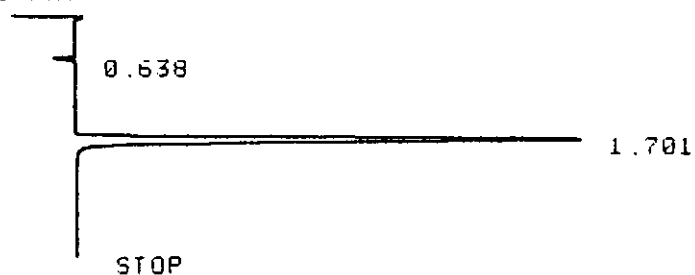
2

1.573

TOTAL AREA=1024670  
MUL FACTOR=1.0000E+00

\* RUN # 445 APR 8, 1997 18:24:40

START



RUN# 445 APR 8, 1997 18:24:40

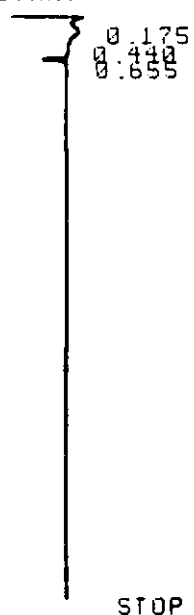
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.701 | 1053910 | UB   | 1    | 59.862 |

TOTAL AREA=1152809  
MUL FACTOR=1.0000E+00

\* RUN # 446 APR 8, 1997 18:28:13

START



RUN# 446 APR 8, 1997 18:28:13

NO CALIB PEAKS FOUND  
AREA%

|      |        |    |      |          |
|------|--------|----|------|----------|
| .175 | 114344 | BU | .285 | 63.54773 |
| .440 | 15069  | UU | .031 | 8.37474  |
| .655 | 50521  | PU | .082 | 28.07751 |

TOTAL AREA= 179934  
MUL FACTOR=1.0000E+00

\*

\*

4/8/97

- New cal = 0408A. Cal
- Wserved up instruments full 1/2 hour after relighting in AM prior to cal. Cals look much improved. Also-enriched Out THC, Hz from 15 → 20 psi. Much <sup>more</sup> ~~most~~ Linear
- Inlet range (50) using full scale (prior FS=100)
- Run On line @ 0934 - Run 0408-01, Test NMMH-6-1, 13' deck gel coat Scale - backwards voltage, no resin shot prior to good data
- Gel start @ 0939
- Initial scale = 244.1
- Spray down 1005
- final resin 222.9 Net: 21.2# 7.42#/STYRENE @ 35%
- Flow varies according to RTI damper
- Hz drifted down → 19, post 0401 GC done "as is"

Run ended 1124, High background

Up Post Test AP = 0.22 @ DAS

|     |     |     |     |
|-----|-----|-----|-----|
| H 8 | .23 | 4 8 | .21 |
| 7   | .24 | 7   | .24 |
| 6   | .24 | 6   | .24 |
| 5   | .24 | 5   | .24 |
| 4   | .24 | 4   | .24 |
| 3   | .24 | 3   | .24 |
| 2   | .22 | 2   | .24 |
| 1   | .20 | 1   | .20 |

TS=68

Static = -3.1

P<sub>0</sub> = 30.1

RH = 43% @ 67°

- Post test 0 may be a bit soon @ inlet

4/8/97 cont...

- Run 0408-02 on line 1200 = NMMMA-3-2 18' Hull gel coat
- Gel start 1201
- Resin Initial = 311.5
- Boat flipped @ ~1210 (1/2 done)
- Spray line ~ 1215 Final Resin = 287.5
- Temp & background falling due to open garage door to plug shop

13:21 str 0408-02 Vp AP = 0.2 @ CAS

|           |     |     |     |     |
|-----------|-----|-----|-----|-----|
| 13:27 STP | H 8 | .21 | V 8 | .17 |
|           | 7   | .22 | 7   | .19 |
|           | 6   | .23 | 6   | .20 |
|           | 5   | .23 | 5   | .20 |
|           | 4   | .21 | 4   | .21 |
|           | 3   | .21 | 3   | .22 |
|           | 2   | .20 | 2   | .22 |
|           | 1   | .19 | 1   | .20 |

$T_s = 65^\circ$

$P_b = 30.1$

$RH = 50\% @ 67^\circ$

$Acum = 3167$

- Net Resin: 24#

- Net STYRENE: 8.4#

$\overline{TAC} = 124 \text{ ppm} = 49.9 \text{ ppm Styrene}$

$\Theta = 113''$

Styrene loss = 4.82#  
 $= 57.4\%$   
 $= 200\%$

- 0408-03 on line @ 1442 = NMMMA-4-2 : 18' DECK Lamination, 35% Resin
- Skin Start @ 1445
- Skin done 1454
- Restarted w/ lamination 1540
- ~~RTA done at 1543~~

4/8/97 0408-03 cont

- Lamination done 1602

- Final resin ~145.05 Initial = 262.5

Net Resin = 117.4 #

Net Styrene = 41.1 #

- Flow 0408-03 ΔP @ 1654 = .19 @ 1654 done @ 1659

|     |     |     |     |
|-----|-----|-----|-----|
| 4.8 | .20 | 4.8 | .17 |
| 7   | .21 | 7   | .18 |
| 6   | .22 | 6   | .20 |
| 5   | .22 | 5   | .21 |
| 4   | .20 | 4   | .22 |
| 3   | .19 | 3   | .21 |
| 2   | .19 | 2   | .21 |
| 1   | .18 | 1   | .19 |

TS = 68

FB = 30.1

RH = 46% @ 67°

ACFM = 3128

THC = 11.3 = 44.8 ppm Styrene

Q = 137 148

~ 5.3 # Styrene = 12.6% Avail  
13.9

- End of run 1658

- Performed scale GC's & Audit

Resin Audit = 3000 g added to pre audit wt

Audit 2 = 5000 g " " " " "

Audit 3 = 6000 g " " " " "

Audit 4 = 6500 g " " " " "

4064

4/8/97

9408-01

Nmma-6-1 18' deck gel coat

ACFM = 3364.

$\overline{THC}_0 = 92.4$

$\overline{THC}_2 = 8.3$

# Resin = 21.2  $\rightarrow$  7.42# STYRENE USED

92.4  $\overline{THC} \rightarrow$  37.2  $\overline{STYRENE}$

Test time = 114 min

Total styrene emitted = 3.95#

= 51.9% Available (w/o subtracting inlet)



CALIBRATION SUMMARY

04-08-1997 07:42:13

CALIBRATION FILE NAME = c:\cemd\0408a.CAL

| Chan. | Name  | Units | Zero  |       | Span  |       | Slope  | Int.      |
|-------|-------|-------|-------|-------|-------|-------|--------|-----------|
|       |       |       | Conc. | Resp. | Conc. | Resp. |        |           |
| 1     | THC a | ppm   | 0     | 0     | 914   | 8.9   | 102.73 | -1.0975   |
| 2     | THC i | ppm   | 0     | .07   | 45.5  | 9.1   | 5.02   | -.3507    |
| 3     | Flow  | inH2O | 0     | 2.96  | .4    | 3.2   | 1.97   | -5.8162   |
| 4     | Temp  | F     | 32    | 1.98  | 212   | 3.3   | 137.51 | -240.4591 |
| 5     | Resin | lb    | 0     | 1.46  | 500   | 4.3   | 212.27 | -310.8426 |

4/8/97

AM Cals 0408A.CAL

0408-01 = NMMA-6-1

18' Deck gel

ADIAN CORPORATION

Environmental Measurement and Analysis Department  
Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-08-1997 Current Time = 07:53:07

File Name = c:\ceadata\040897.PRN Calibration File: c:\ceadata\0408a.CAL

Test #: Pre out 600 in 30.4

| 04-08-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 07:53:11           | 614.6        | 30.5         | 0.2           | 57.2      | -1161.3     |
| 07:53:13           | 614.6        | 30.5         | 0.2           | 57.2      | -1161.3     |
| 07:53:20           | 614.3        | 30.4         | 0.2           | 57.1      | -1148.7     |
| 07:53:30           | 613.8        | 30.4         | 0.2           | 57.1      | -1142.9     |
| 07:53:40           | 613.8        | 30.4         | 0.2           | 57.1      | -1143.5     |
| 07:53:50           | 614.5        | 30.3         | 0.2           | 57.1      | -1142.7     |
| 07:54:00           | 613.5        | 30.4         | 0.2           | 57.0      | -1143.6     |
| 07:54:10           | 614.3        | 30.3         | 0.2           | 56.9      | -1142.6     |
| 07:54:20           | 613.5        | 30.3         | 0.2           | 56.9      | -1143.4     |
| 07:54:30           | 614.3        | 30.3         | 0.2           | 57.0      | -1143.2     |
| 07:54:40           | 613.5        | 30.4         | 0.2           | 57.0      | -1142.9     |
| 07:54:50           | 613.7        | 30.4         | 0.2           | 57.0      | -1142.7     |
| 07:55:00           | 613.5        | 30.4         | 0.2           | 57.1      | -1143.3     |
| 07:55:10           | 613.6        | 30.4         | 0.2           | 57.1      | -1142.8     |
| 07:55:20           | 613.1        | 30.3         | 0.2           | 57.2      | -1143.1     |
| 07:55:30           | 613.2        | 30.3         | 0.2           | 57.2      | -1142.6     |
| Avg =              | 613.9        | 30.4         | 0.2           | 57.1      | -1145.6     |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-08-1997 Current Time = 08:10:50

File Name = c:\cemdata\040897.PRM Calibration File:c:\cemdata\0408a.CAL

Test #: Pre out 297 in 15

| 04-08-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
|--------------------|--------------|--------------|---------------|-----------|-------------|

|          |       |      |     |      |         |
|----------|-------|------|-----|------|---------|
| 08:10:56 | 299.7 | 14.7 | 0.2 | 56.5 | -1171.7 |
| 08:10:57 | 299.7 | 14.7 | 0.2 | 56.5 | -1171.7 |
| 08:11:00 | 299.7 | 14.8 | 0.2 | 56.4 | -1176.1 |
| 08:11:10 | 299.6 | 14.9 | 0.2 | 56.4 | -1142.2 |
| 08:11:20 | 299.6 | 14.9 | 0.2 | 56.3 | -1142.3 |
| 08:11:30 | 298.8 | 14.9 | 0.2 | 56.3 | -1139.0 |
| 08:11:40 | 299.0 | 14.9 | 0.2 | 56.3 | -1143.0 |
| 08:11:50 | 298.8 | 14.8 | 0.2 | 56.3 | -1142.1 |
| 08:12:00 | 298.8 | 14.9 | 0.2 | 56.2 | -1139.4 |
| 08:12:10 | 298.8 | 14.8 | 0.2 | 56.2 | -1142.1 |
| 08:12:20 | 298.9 | 14.8 | 0.2 | 56.2 | -1142.4 |

|       |       |      |     |      |         |
|-------|-------|------|-----|------|---------|
| Avg = | 299.2 | 14.8 | 0.2 | 56.3 | -1150.2 |
|-------|-------|------|-----|------|---------|

RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-08-1997 Current Time = 09:34:18  
 File Name = c:\cemdata\040897.PRN Calibration File: c:\cemdata\0408a.CAL

Test #: 0408-01

| 04-08-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 09:34:30           | 2.0          | 4.9          | 0.2           | 61.7      | -114.0      |
| 09:35:30           | 2.8          | 4.9          | 0.2           | 61.7      | -873.3      |
| 09:36:30           | 4.6          | 4.8          | 0.2           | 61.8      | -865.5      |
| 09:37:30           | 4.1          | 4.7          | 0.2           | 62.7      | -14.7       |
| 09:38:30           | 3.8          | 4.7          | 0.2           | 64.4      | 244.0       |
| 09:39:30           | 3.0          | 4.8          | 0.2           | 65.8      | 244.1       |
| 09:40:30           | 18.8         | 4.9          | 0.2           | 66.1      | 243.0       |
| 09:41:30           | 58.0         | 4.9          | 0.2           | 66.3      | 241.9       |
| 09:42:30           | 67.0         | 4.9          | 0.2           | 66.4      | 241.5       |
| 09:43:30           | 67.5         | 4.9          | 0.2           | 66.5      | 241.5       |
| 09:44:30           | 62.8         | 4.9          | 0.2           | 66.6      | 241.5       |
| 09:45:30           | 79.3         | 4.8          | 0.2           | 66.6      | 240.5       |
| 09:46:30           | 120.5        | 4.8          | 0.2           | 66.6      | 239.4       |
| 09:47:30           | 141.3        | 4.8          | 0.2           | 66.8      | 238.7       |
| 09:48:30           | 159.6        | 4.7          | 0.2           | 66.7      | 237.5       |
| 09:49:30           | 173.8        | 4.7          | 0.2           | 66.7      | 236.4       |
| 09:50:30           | 245.5        | 4.7          | 0.2           | 66.8      | 235.5       |
| 09:51:30           | 248.2        | 4.7          | 0.2           | 66.9      | 234.0       |
| 09:52:30           | 251.5        | 4.6          | 0.2           | 66.9      | 233.5       |
| 09:54:14           | 250.7        | 4.6          | 0.2           | 66.8      | 232.3       |
| 09:54:30           | 234.1        | 4.6          | 0.2           | 66.7      | 231.5       |
| 09:55:30           | 232.5        | 4.6          | 0.2           | 66.7      | 231.2       |
| 09:56:30           | 189.9        | 4.5          | 0.2           | 66.7      | 231.2       |
| 09:57:30           | 176.6        | 4.5          | 0.2           | 66.7      | 231.1       |
| 09:58:30           | 216.2        | 4.5          | 0.2           | 66.8      | 230.0       |
| 09:59:30           | 273.5        | 4.5          | 0.2           | 66.8      | 228.4       |
| 10:00:30           | 269.7        | 4.6          | 0.2           | 66.9      | 227.6       |
| 10:01:30           | 292.5        | 4.6          | 0.2           | 66.9      | 226.5       |
| 10:02:30           | 276.9        | 4.7          | 0.2           | 67.0      | 225.6       |
| 10:03:30           | 300.0        | 4.8          | 0.2           | 66.9      | 224.1       |
| 10:04:30           | 317.4        | 4.9          | 0.2           | 66.9      | 223.5       |
| 10:05:30           | 300.1        | 5.0          | 0.2           | 67.1      | 222.8       |
| 10:06:30           | 261.8        | 5.1          | 0.2           | 67.2      | 222.6       |
| 10:07:30           | 228.5        | 5.3          | 0.2           | 67.2      | 222.9       |
| 10:08:30           | 192.1        | 5.4          | 0.2           | 67.0      | 222.5       |
| 10:09:30           | 185.7        | 5.9          | 0.2           | 67.1      | 222.9       |
| 10:10:30           | 178.5        | 6.0          | 0.2           | 67.1      | 222.5       |
| 10:11:30           | 165.2        | 5.8          | 0.2           | 67.2      | 222.9       |
| 10:12:30           | 167.3        | 5.5          | 0.2           | 67.3      | 222.5       |
| 10:13:30           | 154.5        | 5.4          | 0.2           | 67.4      | 222.9       |

- not valid data

Test #: 0408-01

| 08-1997<br>Date | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|-----------------|--------------|--------------|---------------|-----------|-------------|
| 10:14:30        | 131.1        | 5.2          | 0.2           | 67.4      | 222.5       |
| 10:15:30        | 128.7        | 5.0          | 0.2           | 67.4      | 222.9       |
| 10:16:30        | 129.7        | 4.8          | 0.2           | 67.5      | 222.7       |
| 10:17:30        | 112.2        | 4.8          | 0.2           | 67.5      | 222.8       |
| 10:18:30        | 113.3        | 4.8          | 0.2           | 67.6      | 222.8       |
| 10:19:30        | 95.4         | 4.7          | 0.2           | 67.5      | 222.8       |
| 10:20:30        | 95.3         | 4.7          | 0.2           | 67.5      | 222.8       |
| 10:21:30        | 99.5         | 4.6          | 0.2           | 67.7      | 222.8       |
| 10:22:30        | 97.2         | 4.5          | 0.2           | 67.8      | 222.8       |
| 10:23:30        | 97.8         | 4.7          | 0.2           | 67.9      | 222.7       |
| 10:24:30        | 94.5         | 5.4          | 0.2           | 68.0      | 222.7       |
| 10:25:30        | 95.9         | 6.1          | 0.2           | 68.1      | 222.7       |
| 10:26:30        | 100.3        | 6.8          | 0.2           | 68.3      | 222.7       |
| 10:27:30        | 83.1         | 7.2          | 0.2           | 68.3      | 222.7       |
| 10:28:30        | 80.8         | 7.6          | 0.2           | 68.4      | 222.7       |
| 10:29:30        | 80.0         | 7.9          | 0.2           | 68.5      | 222.7       |
| 10:30:30        | 80.8         | 8.3          | 0.2           | 68.6      | 222.7       |
| 10:31:30        | 67.1         | 9.1          | 0.2           | 68.6      | 222.7       |
| 10:32:30        | 66.9         | 9.6          | 0.2           | 68.7      | 222.7       |
| 10:33:30        | 70.8         | 10.2         | 0.2           | 68.8      | 222.6       |
| 10:34:30        | 64.2         | 10.5         | 0.2           | 68.9      | 222.6       |
| 10:35:30        | 70.2         | 10.7         | 0.2           | 68.9      | 222.6       |
| 10:36:30        | 54.4         | 10.9         | 0.2           | 68.9      | 222.6       |
| 10:37:30        | 57.6         | 11.2         | 0.2           | 69.0      | 222.5       |
| 10:38:30        | 55.9         | 11.5         | 0.2           | 69.0      | 222.5       |
| 10:39:30        | 56.1         | 11.6         | 0.2           | 69.1      | 222.3       |
| 10:40:30        | 53.7         | 11.4         | 0.2           | 69.3      | 222.5       |
| 10:41:30        | 50.2         | 11.5         | 0.2           | 69.2      | 222.3       |
| 10:42:30        | 46.0         | 11.5         | 0.2           | 69.2      | 222.5       |
| 10:43:30        | 47.8         | 11.7         | 0.2           | 69.3      | 222.2       |
| 10:44:30        | 44.9         | 11.5         | 0.2           | 69.3      | 222.2       |
| 10:45:30        | 48.7         | 11.2         | 0.2           | 69.4      | 222.2       |
| 10:46:30        | 42.7         | 11.3         | 0.2           | 69.4      | 222.7       |
| 10:47:30        | 45.2         | 11.4         | 0.2           | 69.5      | 222.1       |
| 10:48:30        | 43.3         | 11.5         | 0.2           | 69.6      | 222.1       |
| 10:49:30        | 35.8         | 11.3         | 0.2           | 69.5      | 222.1       |
| 10:50:30        | 37.5         | 11.4         | 0.2           | 69.6      | 222.1       |
| 10:51:30        | 36.9         | 11.4         | 0.2           | 69.5      | 222.1       |
| 10:52:30        | 36.3         | 11.1         | 0.2           | 69.5      | 222.1       |
| 10:53:30        | 36.5         | 10.8         | 0.2           | 69.6      | 222.1       |
| 10:54:30        | 31.0         | 10.6         | 0.2           | 69.4      | 222.0       |
| 10:55:30        | 32.4         | 10.4         | 0.2           | 69.2      | 222.0       |
| 10:56:30        | 32.1         | 10.3         | 0.2           | 69.0      | 222.0       |
| 10:57:30        | 29.8         | 10.1         | 0.2           | 68.9      | 222.0       |
| 10:58:30        | 28.9         | 9.8          | 0.2           | 68.8      | 222.0       |
| 10:59:30        | 29.9         | 9.6          | 0.2           | 68.7      | 222.0       |
| 11:00:30        | 30.2         | 9.6          | 0.2           | 68.7      | 222.0       |
| 11:01:30        | 29.4         | 9.9          | 0.2           | 68.8      | 222.0       |
| 11:02:30        | 29.0         | 10.1         | 0.2           | 68.6      | 222.0       |
| 11:03:30        | 27.6         | 10.3         | 0.2           | 68.7      | 221.9       |
| 11:04:30        | 27.7         | 10.4         | 0.2           | 68.8      | 221.9       |
| 11:05:30        | 26.6         | 10.6         | 0.2           | 68.8      | 221.9       |
| 11:06:30        | 25.4         | 10.9         | 0.2           | 68.8      | 221.9       |
| 11:07:30        | 26.7         | 11.0         | 0.2           | 68.9      | 221.9       |
| 11:08:30        | 25.4         | 11.2         | 0.2           | 68.9      | 221.9       |
| 11:09:30        | 24.1         | 11.4         | 0.2           | 68.9      | 221.8       |

Test #: 0408-01

| 04-08-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 11:10:30           | 25.2         | 11.5         | 0.2           | 68.9      | 221.5       |
| 11:11:30           | 24.9         | 11.7         | 0.2           | 68.9      | 221.8       |
| 11:12:30           | 23.0         | 12.1         | 0.2           | 68.9      | 221.6       |
| 11:13:30           | 22.2         | 12.5         | 0.2           | 68.8      | 221.8       |
| 11:14:30           | 22.4         | 13.0         | 0.2           | 68.7      | 221.6       |
| 11:15:30           | 21.7         | 13.5         | 0.2           | 68.7      | 221.7       |
| 11:16:43           | 21.1         | 13.7         | 0.2           | 68.6      | 221.7       |
| 11:17:30           | 20.8         | 13.8         | 0.2           | 68.5      | 221.7       |
| 11:18:30           | 21.8         | 13.6         | 0.2           | 68.6      | 221.7       |
| 11:19:30           | 20.9         | 13.5         | 0.2           | 68.5      | 221.7       |
| 11:20:30           | 20.4         | 13.5         | 0.2           | 68.6      | 221.7       |
| 11:21:30           | 20.0         | 14.2         | 0.2           | 68.6      | 221.7       |
| 11:22:30           | 19.4         | 15.5         | 0.2           | 68.6      | 221.7       |
| 11:23:30           | 19.4         | 16.2         | 0.2           | 68.6      | 221.7       |
| 11:24:30           | 19.3         | 16.5         | 0.2           | 68.6      | 221.7       |
| Avg =              | 92.4         | 8.3          | 0.2           | 67.8      | 191.2       |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-08-1997 Current Time = 11:27:18

File Name = c:\cemdata\040897.PRN Calibration File:c:\cemdata\0408a.CAL

Test #: Post out 297 in 15

| 04-08-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 11:27:21           | 300.6        | 15.2         | 0.2           | 68.4      | 221.7       |
| 11:27:22           | 300.6        | 15.2         | 0.2           | 68.4      | 221.7       |
| 11:27:30           | 300.2        | 15.0         | 0.2           | 68.3      | 221.6       |
| 11:27:40           | 300.7        | 15.0         | 0.2           | 68.3      | 221.6       |
| 11:27:50           | 301.6        | 15.0         | 0.2           | 68.2      | 221.6       |
| 11:28:00           | 301.6        | 15.0         | 0.2           | 68.2      | 221.6       |
| 11:28:10           | 301.2        | 15.0         | 0.2           | 68.1      | 221.6       |
| 11:28:20           | 301.2        | 15.0         | 0.2           | 68.1      | 221.6       |
| 11:28:30           | 301.6        | 15.0         | 0.2           | 68.0      | 221.6       |
| Avg =              | 301.1        | 15.0         | 0.2           | 68.2      | 221.6       |

RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-08-1997 Current Time = 11:31:24  
 File Name = c:\cemdata\040897.PRN Calibration File:c:\cemdata\0408a.CAL

Test #: Post out 600 in 30.4

| 04-08-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 11:31:28           | 623.0        | 29.3         | 0.2           | 68.0      | -1145.0     |
| 11:31:29           | 623.0        | 29.3         | 0.2           | 68.0      | -1145.0     |
| 11:31:30           | 623.0        | 29.3         | 0.2           | 68.0      | -1145.0     |
| 11:31:40           | 621.1        | 29.3         | 0.2           | 68.0      | -1146.4     |
| 11:31:50           | 622.2        | 29.3         | 0.2           | 68.0      | -1146.4     |
| 11:32:00           | 622.7        | 29.3         | 0.2           | 68.0      | -1144.5     |
| 11:32:10           | 620.4        | 29.3         | 0.2           | 68.0      | -1144.1     |
| 11:32:20           | 621.5        | 29.3         | 0.2           | 67.9      | -1144.2     |
| 11:32:30           | 623.3        | 29.2         | 0.2           | 67.9      | -1143.6     |
| 11:32:40           | 621.4        | 29.2         | 0.2           | 67.8      | -1144.2     |
| 11:32:50           | 620.2        | 29.2         | 0.2           | 67.8      | -1144.5     |
| 11:33:00           | 622.0        | 29.2         | 0.2           | 67.8      | -1144.3     |
| 11:33:10           | 622.3        | 29.2         | 0.2           | 67.8      | -1144.1     |
| 11:33:20           | 621.0        | 29.2         | 0.2           | 67.7      | -1144.1     |
| =====              |              |              |               |           |             |
| Avg =              | 621.9        | 29.3         | 0.2           | 67.9      | -1144.2     |
| =====              |              |              |               |           |             |



RADIAN CORPORATION

Environmental Measurement and Analysis Department  
Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-08-1997 Current Time = 11:36:46

File Name = c:\cemdata\040897.PRN Calibration File: c:\cemdata\0408a.CAL

Test #: Post out 0 in 0

| 04-08-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
|--------------------|--------------|--------------|---------------|-----------|-------------|

|          |      |     |     |      |         |
|----------|------|-----|-----|------|---------|
| 11:36:50 | -0.0 | 0.3 | 0.2 | 67.5 | -1196.0 |
| 11:36:51 | -0.0 | 0.3 | 0.2 | 67.5 | -1196.0 |
| 11:37:00 | -0.0 | 0.2 | 0.2 | 67.5 | -1147.6 |
| 11:37:10 | -0.0 | 0.2 | 0.2 | 67.5 | -1145.3 |
| 11:37:20 | -0.0 | 0.1 | 0.2 | 67.5 | -1145.1 |
| 11:37:30 | -0.0 | 0.1 | 0.2 | 67.5 | -1145.1 |
| 11:37:40 | -0.0 | 0.1 | 0.2 | 67.5 | -1145.6 |
| 11:37:50 | -0.0 | 0.1 | 0.2 | 67.6 | -1145.4 |
| 11:38:00 | -0.0 | 0.0 | 0.2 | 67.5 | -1141.4 |
| 11:38:10 | -0.0 | 0.0 | 0.2 | 67.6 | -1145.2 |
| 11:38:20 | -0.0 | 0.0 | 0.2 | 67.5 | -1144.9 |
| 11:38:30 | -0.0 | 0.0 | 0.2 | 67.5 | -1144.8 |
| 11:38:40 | -0.0 | 0.0 | 0.2 | 67.5 | -1144.9 |

|       |      |     |     |      |         |
|-------|------|-----|-----|------|---------|
| Avg = | -0.0 | 0.1 | 0.2 | 67.5 | -1152.9 |
|-------|------|-----|-----|------|---------|

0408-02

NMMA-3-2

18' 4ml Gelcoat

## RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for:

NMMA

Date Printed = 04-08-1997 Current Time = 12:00:02

File Name = c:\cemdata\040897.PRN Calibration File:c:\cemdata\0408a.CAL

Test #: 0408-02

| 04-08-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 12:00:20           | 10.1         | 11.6         | 0.2           | 67.6      | 311.1       |
| 12:01:20           | 10.1         | 11.4         | 0.2           | 67.7      | 311.3       |
| 12:02:20           | 56.5         | 11.2         | 0.2           | 67.7      | 309.8       |
| 12:03:20           | 144.3        | 11.1         | 0.2           | 67.4      | 307.9       |
| 12:04:20           | 165.9        | 10.9         | 0.2           | 67.0      | 306.1       |
| 12:05:20           | 250.6        | 11.1         | 0.2           | 66.7      | 304.0       |
| 12:06:20           | 307.2        | 11.6         | 0.2           | 66.5      | 302.1       |
| 12:07:20           | 333.7        | 11.7         | 0.2           | 66.3      | 300.3       |
| 12:08:20           | 381.7        | 11.6         | 0.2           | 66.1      | 298.6       |
| 12:09:20           | 373.6        | 11.1         | 0.2           | 66.0      | 297.3       |
| 12:10:20           | 364.3        | 10.7         | 0.2           | 65.7      | 296.7       |
| 12:11:20           | 407.1        | 10.3         | 0.2           | 65.6      | 295.1       |
| 12:12:20           | 514.0        | 10.0         | 0.2           | 65.4      | 293.1       |
| 12:13:20           | 506.1        | 9.6          | 0.2           | 65.3      | 291.6       |
| 12:14:20           | 534.9        | 9.2          | 0.2           | 65.3      | 289.1       |
| 12:15:20           | 547.1        | 9.0          | 0.2           | 65.4      | 287.5       |
| 12:16:20           | 507.3        | 8.8          | 0.2           | 65.3      | 286.7       |
| 12:17:20           | 382.0        | 8.6          | 0.2           | 65.3      | 286.7       |
| 12:18:20           | 312.5        | 8.4          | 0.2           | 65.1      | 286.1       |
| 12:19:20           | 271.2        | 8.2          | 0.2           | 65.1      | 286.7       |
| 12:20:20           | 264.1        | 8.0          | 0.2           | 65.0      | 286.7       |
| 12:21:20           | 247.0        | 7.9          | 0.2           | 64.9      | 286.8       |
| 12:22:20           | 235.2        | 7.6          | 0.2           | 64.9      | 286.5       |
| 12:23:20           | 223.8        | 7.4          | 0.2           | 64.9      | 286.8       |
| 12:24:20           | 210.8        | 7.2          | 0.2           | 65.1      | 286.8       |
| 12:25:20           | 191.9        | 7.1          | 0.2           | 65.0      | 286.9       |
| 12:26:20           | 177.1        | 6.9          | 0.2           | 64.9      | 286.5       |
| 12:27:20           | 168.5        | 6.7          | 0.2           | 64.8      | 286.9       |
| 12:28:20           | 172.6        | 6.6          | 0.2           | 64.8      | 286.5       |
| 12:29:20           | 162.4        | 6.5          | 0.2           | 64.8      | 286.9       |
| 12:30:20           | 168.3        | 6.3          | 0.2           | 64.9      | 286.5       |
| 12:31:20           | 168.3        | 6.3          | 0.2           | 65.0      | 286.9       |
| 12:32:20           | 148.3        | 6.2          | 0.2           | 64.9      | 286.5       |
| 12:33:20           | 134.6        | 6.1          | 0.2           | 64.6      | 286.9       |
| 12:34:20           | 145.5        | 5.9          | 0.2           | 64.6      | 287.0       |
| 12:35:20           | 146.1        | 5.8          | 0.2           | 64.5      | 287.0       |
| 12:36:20           | 143.7        | 5.7          | 0.2           | 64.6      | 287.0       |
| 12:37:20           | 145.9        | 5.6          | 0.2           | 64.7      | 287.0       |
| 12:38:20           | 143.2        | 5.6          | 0.2           | 64.7      | 287.0       |
| 12:39:20           | 129.3        | 5.6          | 0.2           | 64.8      | 287.0       |

Test #: 0408-02

| 04-08-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 12:40:20           | 125.5        | 5.6          | 0.2           | 64.7      | 287.0       |
| 12:41:20           | 116.9        | 5.6          | 0.2           | 64.5      | 287.0       |
| 12:42:20           | 114.2        | 5.4          | 0.2           | 64.4      | 287.0       |
| 12:43:20           | 139.8        | 5.3          | 0.2           | 64.5      | 287.0       |
| 12:44:20           | 127.1        | 5.1          | 0.2           | 64.7      | 287.0       |
| 12:45:20           | 130.0        | 5.1          | 0.2           | 64.7      | 287.1       |
| 12:46:20           | 108.1        | 5.0          | 0.2           | 64.6      | 287.7       |
| 12:47:20           | 101.2        | 5.0          | 0.2           | 64.6      | 287.2       |
| 12:48:20           | 107.6        | 4.9          | 0.2           | 64.6      | 287.7       |
| 12:49:20           | 103.2        | 4.8          | 0.2           | 64.5      | 287.2       |
| 12:50:20           | 103.9        | 4.7          | 0.2           | 64.3      | 287.7       |
| 12:51:20           | 97.9         | 4.6          | 0.2           | 64.3      | 287.1       |
| 12:52:20           | 110.2        | 4.6          | 0.2           | 64.5      | 287.1       |
| 12:53:20           | 98.4         | 4.5          | 0.2           | 64.5      | 287.2       |
| 12:54:20           | 100.9        | 4.5          | 0.2           | 64.6      | 287.7       |
| 12:55:20           | 89.6         | 4.4          | 0.2           | 64.5      | 287.2       |
| 12:56:20           | 92.8         | 4.4          | 0.2           | 64.5      | 287.2       |
| 12:57:20           | 84.2         | 4.4          | 0.2           | 64.5      | 287.2       |
| 12:58:20           | 89.7         | 4.4          | 0.2           | 64.4      | 287.7       |
| 12:59:20           | 91.2         | 4.3          | 0.2           | 64.4      | 287.2       |
| 13:00:20           | 91.6         | 4.3          | 0.2           | 64.4      | 287.7       |
| 13:01:20           | 87.7         | 4.3          | 0.2           | 64.5      | 287.2       |
| 13:02:20           | 84.3         | 4.3          | 0.2           | 64.6      | 287.7       |
| 13:03:20           | 79.0         | 4.3          | 0.2           | 64.6      | 287.2       |
| 13:04:20           | 74.8         | 4.2          | 0.2           | 64.6      | 287.7       |
| 13:05:20           | 74.4         | 4.2          | 0.2           | 64.7      | 287.2       |
| 13:06:20           | 75.8         | 4.2          | 0.2           | 64.9      | 287.7       |
| 13:07:20           | 64.3         | 4.2          | 0.2           | 64.8      | 287.2       |
| 13:08:20           | 64.7         | 4.2          | 0.2           | 64.7      | 287.7       |
| 13:09:20           | 64.5         | 4.2          | 0.2           | 64.8      | 287.2       |
| 13:10:20           | 63.6         | 4.2          | 0.2           | 64.7      | 287.7       |
| 13:11:20           | 39.0         | 4.2          | 0.2           | 64.6      | 287.3       |
| 13:12:20           | 61.9         | 4.2          | 0.2           | 64.7      | 287.3       |
| 13:13:20           | 60.5         | 4.2          | 0.2           | 64.8      | 287.3       |
| 13:14:20           | 52.0         | 4.2          | 0.2           | 64.7      | 287.3       |
| 13:15:20           | 53.2         | 4.1          | 0.2           | 64.7      | 287.3       |
| 13:16:20           | 55.2         | 4.1          | 0.2           | 64.7      | 287.3       |
| 13:17:20           | 50.3         | 4.1          | 0.2           | 64.7      | 287.3       |
| 13:18:20           | 50.0         | 4.1          | 0.2           | 64.9      | 287.3       |
| 13:19:20           | 50.8         | 4.1          | 0.2           | 65.0      | 287.3       |
| 13:20:20           | 41.3         | 4.2          | 0.2           | 65.0      | 287.3       |
| 13:21:20           | 38.4         | 4.4          | 0.2           | 64.8      | 287.3       |
| 13:22:20           | 36.6         | 4.6          | 0.2           | 64.8      | 287.3       |
| 13:23:20           | 35.3         | 4.6          | 0.1           | 64.9      | 287.3       |
| 13:24:20           | 35.7         | 4.7          | 0.2           | 64.8      | 287.3       |
| 13:25:20           | 34.8         | 4.5          | 0.2           | 64.8      | 287.3       |
| 13:26:20           | 33.4         | 4.4          | 0.1           | 65.0      | 287.3       |
| 13:27:20           | 33.7         | 4.4          | 0.2           | 64.9      | 287.3       |
| 13:28:20           | 33.6         | 4.3          | 0.2           | 65.0      | 287.3       |
| 13:29:20           | 27.9         | 4.3          | 0.2           | 65.0      | 287.4       |
| 13:30:20           | 26.0         | 4.4          | 0.2           | 64.9      | 287.4       |
| 13:31:20           | 25.4         | 4.5          | 0.2           | 64.8      | 287.4       |
| 13:32:20           | 25.1         | 4.6          | 0.2           | 64.8      | 287.4       |
| 13:33:20           | 22.9         | 4.5          | 0.2           | 64.7      | 287.4       |
| 13:34:20           | 22.5         | 4.4          | 0.2           | 64.6      | 287.4       |
| 13:35:20           | 20.9         | 4.4          | 0.2           | 64.7      | 287.3       |

Test #: 0408-02

| 04-08-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 13:36:20           | 20.9         | 4.3          | 0.2           | 64.8      | 287.4       |
| 13:37:20           | 18.6         | 4.2          | 0.2           | 64.8      | 287.4       |
| 13:38:20           | 18.2         | 4.2          | 0.2           | 64.8      | 287.4       |
| 13:39:20           | 17.3         | 4.2          | 0.2           | 64.8      | 287.4       |
| 13:40:20           | 15.7         | 4.1          | 0.2           | 64.8      | 287.4       |
| 13:41:20           | 14.8         | 4.2          | 0.2           | 64.8      | 287.4       |
| 13:42:20           | 13.8         | 4.1          | 0.2           | 64.7      | 287.4       |
| 13:43:20           | 13.5         | 4.2          | 0.2           | 64.7      | 287.4       |
| 13:44:20           | 12.8         | 4.1          | 0.2           | 64.7      | 287.4       |
| 13:45:20           | 12.1         | 4.1          | 0.2           | 64.6      | 287.4       |
| 13:46:20           | 11.5         | 4.1          | 0.2           | 64.6      | 287.4       |
| 13:47:20           | 10.8         | 4.1          | 0.2           | 64.5      | 287.4       |
| 13:48:20           | 8.4          | 4.1          | 0.2           | 64.0      | 287.4       |
| 13:49:20           | 10.0         | 4.1          | 0.2           | 64.3      | 287.4       |
| 13:50:20           | 10.4         | 4.0          | 0.2           | 64.6      | 287.4       |
| 13:51:20           | 9.4          | 4.0          | 0.2           | 64.7      | 287.4       |
| 13:52:20           | 8.5          | 4.0          | 0.2           | 64.6      | 287.4       |
| 13:53:20           | 8.1          | 4.0          | 0.2           | 64.6      | 287.4       |
| Avg =              | 124.0        | 5.8          | 0.2           | 65.0      | 289.0       |

RADIAN CORPORATION  
Environmental Measurement and Analysis Department  
Continuous Emissions Monitoring Data

Marine

ington, WA

Performed for: NMMA

Date Printed = 04-08-1997 Current Time = 13:57:13

File Name = c:\ceedata\040897.PRN Calibration File: c:\ceedata\0408a.CAL

Test #: Post out 0 in 0

| 04-08-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 13:57:16           | -0.0         | 0.0          | 0.2           | 64.7      | -1164.7     |
| 13:57:20           | -0.0         | 0.0          | 0.2           | 64.9      | -1166.1     |
| 13:57:30           | -0.0         | 0.0          | 0.2           | 64.8      | -1143.0     |
| 13:57:40           | -0.0         | -0.0         | 0.2           | 64.7      | -1143.6     |
| 13:57:50           | -0.0         | -0.0         | 0.2           | 64.7      | -1143.0     |
| 13:58:00           | 0.0          | -0.0         | 0.2           | 64.6      | -1140.8     |
| 13:58:10           | 0.0          | -0.0         | 0.2           | 64.5      | -1141.0     |
| 13:58:20           | 0.0          | -0.0         | 0.2           | 64.3      | -1144.2     |
| 13:58:30           | 0.0          | -0.0         | 0.2           | 64.1      | -1143.0     |
| 13:58:40           | 0.0          | -0.0         | 0.2           | 64.1      | -1140.8     |
| 13:58:50           | 0.0          | -0.0         | 0.2           | 64.2      | -1143.0     |
| Avg =              | -0.0         | -0.0         | 0.2           | 64.5      | -1146.8     |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-08-1997 Current Time = 14:04:29

File Name = c:\cemdata\040897.PRN Calibration File: c:\cemdata\0408a.CAL

Test #: Post out 600 in 30.4

| 04-08-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 14:04:31           | 610.3        | 29.7         | 0.2           | 63.5      | -1165.1     |
| 14:04:37           | 611.2        | 29.7         | 0.2           | 63.9      | -1142.7     |
| 14:04:47           | 612.2        | 29.7         | 0.2           | 64.0      | -1142.7     |
| 14:04:57           | 609.9        | 29.7         | 0.2           | 64.2      | -1140.7     |
| 14:05:07           | 609.4        | 29.7         | 0.2           | 64.3      | -1142.6     |
| 14:05:17           | 611.0        | 29.7         | 0.2           | 64.4      | -1143.0     |
| 14:05:27           | 610.5        | 29.7         | 0.2           | 64.5      | -1141.9     |
| 14:05:37           | 610.6        | 29.7         | 0.2           | 64.4      | -1140.3     |
| 14:05:47           | 611.0        | 29.7         | 0.2           | 64.4      | -1142.7     |
| 14:05:57           | 609.6        | 29.8         | 0.2           | 64.2      | -1142.7     |
| 14:06:07           | 610.6        | 29.7         | 0.2           | 64.3      | -1143.6     |
| Avg =              | 610.6        | 29.7         | 0.2           | 64.2      | -1144.4     |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-08-1997 Current Time = 14:09:20

File Name = c:\cemdata\040897.PRN Calibration File:c:\cemdata\0408a.CAL

Test #: Post out 297 in 15

| 04-08-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 14:09:22           | 295.6        | 14.7         | 0.2           | 61.7      | -1147.8     |
| 14:09:24           | 295.6        | 14.7         | 0.2           | 61.7      | -1147.8     |
| 14:09:27           | 294.6        | 14.6         | 0.2           | 62.0      | -1155.4     |
| 14:09:37           | 296.3        | 14.6         | 0.2           | 62.0      | -1141.5     |
| 14:09:47           | 295.2        | 14.7         | 0.2           | 62.1      | -1140.0     |
| 14:09:57           | 294.6        | 14.7         | 0.2           | 62.2      | -1142.5     |
| 14:10:07           | 295.6        | 14.7         | 0.2           | 62.2      | -1137.4     |
| 14:10:17           | 295.6        | 14.7         | 0.2           | 62.1      | -1138.4     |
| 14:10:27           | 295.1        | 14.7         | 0.2           | 62.0      | -1139.4     |
| 14:10:37           | 295.4        | 14.6         | 0.2           | 61.9      | -1139.7     |
| 14:10:47           | 294.9        | 14.6         | 0.2           | 61.7      | -1141.6     |
| Avg =              | 295.3        | 14.7         | 0.2           | 62.0      | -1143.7     |

## RADIAM CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for:

NMMA

Date Printed = 04-08-1997 Current Time = 14:41:41

File Name = c:\ce\data\040897.PRM Calibration File: c:\ce\data\0408a.CAL

0408-3

NMMA-4-2

18' Deck 35% styrene

Test #: 0408-03

| 04-08-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 14:41:58           | 1.9          | 3.0          | 0.2           | 64.5      | 262.5       |
| 14:43:03           | 2.0          | 3.0          | 0.2           | 64.6      | 262.5       |
| 14:43:58           | 42.4         | 3.0          | 0.2           | 64.6      | 258.5       |
| 14:44:58           | 44.2         | 3.1          | 0.2           | 64.6      | 255.5       |
| 14:45:58           | 109.1        | 3.0          | 0.2           | 64.6      | 250.5       |
| 14:46:58           | 140.6        | 3.0          | 0.2           | 64.7      | 247.0       |
| 14:47:58           | 162.4        | 3.0          | 0.2           | 64.8      | 243.6       |
| 14:48:58           | 158.3        | 2.9          | 0.2           | 64.9      | 241.6       |
| 14:49:58           | 156.9        | 2.9          | 0.2           | 64.9      | 237.0       |
| 14:50:58           | 203.9        | 2.9          | 0.2           | 64.9      | 234.6       |
| 14:51:58           | 187.6        | 2.9          | 0.2           | 64.9      | 231.7       |
| 14:52:58           | 246.1        | 2.9          | 0.2           | 64.9      | 226.1       |
| 14:53:58           | 272.9        | 2.8          | 0.2           | 65.0      | 221.6       |
| 14:54:58           | 304.4        | 2.7          | 0.2           | 64.9      | 218.7       |
| 14:55:58           | 275.7        | 2.8          | 0.2           | 65.0      | 218.7       |
| 14:56:58           | 237.2        | 2.6          | 0.2           | 65.1      | 218.7       |
| 14:57:58           | 215.7        | 2.6          | 0.2           | 65.1      | 218.7       |
| 14:58:58           | 191.6        | 2.7          | 0.2           | 65.1      | 218.7       |
| 14:59:58           | 176.0        | 2.7          | 0.2           | 65.2      | 218.7       |
| 15:00:58           | 157.6        | 2.7          | 0.2           | 65.2      | 218.7       |
| 15:01:58           | 165.0        | 2.7          | 0.2           | 65.2      | 218.7       |
| 15:02:58           | 153.6        | 2.6          | 0.2           | 65.2      | 218.7       |
| 15:03:58           | 141.7        | 2.6          | 0.2           | 65.1      | 218.7       |
| 15:04:58           | 133.4        | 2.6          | 0.2           | 65.2      | 218.8       |
| 15:05:58           | 120.8        | 2.6          | 0.2           | 65.2      | 218.7       |
| 15:06:58           | 114.3        | 2.6          | 0.2           | 65.2      | 218.7       |
| 15:07:58           | 112.2        | 2.7          | 0.2           | 65.2      | 218.6       |
| 15:08:58           | 104.8        | 2.7          | 0.2           | 65.1      | 218.7       |
| 15:09:58           | 98.8         | 2.7          | 0.2           | 65.1      | 218.6       |
| 15:10:58           | 96.1         | 2.7          | 0.2           | 65.1      | 218.7       |
| 15:11:58           | 92.5         | 2.7          | 0.2           | 65.2      | 218.7       |
| 15:12:58           | 87.5         | 2.7          | 0.2           | 65.3      | 218.7       |
| 15:13:58           | 84.8         | 2.7          | 0.2           | 65.3      | 218.7       |
| 15:14:58           | 77.3         | 2.6          | 0.2           | 65.3      | 218.7       |
| 15:15:58           | 77.4         | 2.6          | 0.2           | 65.3      | 218.7       |
| 15:16:58           | 72.3         | 2.6          | 0.2           | 65.3      | 218.7       |
| 15:17:58           | 69.1         | 2.6          | 0.2           | 65.3      | 218.7       |
| 15:18:58           | 66.5         | 2.6          | 0.2           | 65.3      | 218.7       |
| 15:19:58           | 66.3         | 2.6          | 0.2           | 65.3      | 218.7       |
| 15:20:58           | 60.9         | 2.6          | 0.2           | 65.3      | 218.7       |



Test #: 0408-03

| 04-08-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 15:21:58           | 57.2         | 2.6          | 0.2           | 65.3      | 218.7       |
| 15:22:58           | 58.9         | 2.6          | 0.2           | 65.3      | 218.7       |
| 15:23:58           | 59.0         | 2.5          | 0.2           | 65.3      | 218.7       |
| 15:24:58           | 58.1         | 2.5          | 0.2           | 65.4      | 218.7       |
| 15:25:58           | 57.0         | 2.5          | 0.2           | 65.3      | 218.7       |
| 15:26:58           | 53.0         | 2.5          | 0.2           | 65.3      | 218.7       |
| 15:27:58           | 54.8         | 2.5          | 0.2           | 65.3      | 218.7       |
| 15:28:58           | 55.7         | 2.5          | 0.2           | 65.4      | 218.7       |
| 15:29:58           | 51.7         | 2.5          | 0.2           | 65.4      | 218.7       |
| 15:30:58           | 52.4         | 2.4          | 0.2           | 65.5      | 218.7       |
| 15:31:58           | 47.2         | 2.4          | 0.2           | 65.3      | 218.7       |
| 15:32:58           | 46.0         | 2.5          | 0.2           | 65.3      | 218.7       |
| 15:33:58           | 46.0         | 2.5          | 0.2           | 65.2      | 218.7       |
| 15:34:58           | 46.6         | 2.5          | 0.2           | 65.1      | 218.7       |
| 15:35:58           | 48.4         | 2.6          | 0.2           | 65.3      | 218.7       |
| 15:36:58           | 50.6         | 2.6          | 0.2           | 65.5      | 218.7       |
| 15:37:58           | 47.6         | 2.6          | 0.2           | 65.6      | 218.7       |
| 15:38:58           | 47.0         | 2.6          | 0.2           | 65.6      | 218.7       |
| 15:39:58           | 44.9         | 2.6          | 0.2           | 65.6      | 218.7       |
| 15:40:58           | 45.4         | 2.7          | 0.2           | 65.6      | 218.7       |
| 15:41:58           | 49.8         | 2.7          | 0.2           | 65.7      | 218.7       |
| 15:42:58           | 109.6        | 2.7          | 0.2           | 65.9      | 212.6       |
| 15:43:58           | 127.8        | 2.8          | 0.2           | 65.9      | 207.3       |
| 15:44:58           | 166.8        | 2.7          | 0.2           | 66.0      | 201.8       |
| 15:45:58           | 209.7        | 2.7          | 0.2           | 65.9      | 196.6       |
| 15:46:58           | 240.4        | 2.8          | 0.2           | 65.9      | 191.0       |
| 15:47:58           | 216.1        | 2.9          | 0.2           | 66.1      | 188.7       |
| 15:48:58           | 275.6        | 2.9          | 0.2           | 66.1      | 184.0       |
| 15:49:58           | 244.6        | 3.0          | 0.2           | 66.0      | 178.8       |
| 15:50:58           | 270.5        | 3.0          | 0.2           | 65.9      | 173.1       |
| 15:51:58           | 296.3        | 3.0          | 0.2           | 65.8      | 169.2       |
| 15:52:58           | 316.1        | 3.2          | 0.2           | 65.8      | 164.2       |
| 15:53:58           | 305.2        | 3.3          | 0.2           | 65.8      | 160.3       |
| 15:54:58           | 309.6        | 3.6          | 0.2           | 65.8      | 156.5       |
| 15:55:58           | 227.2        | 3.6          | 0.2           | 65.1      | 156.5       |
| 15:56:58           | 194.7        | 3.8          | 0.2           | 64.8      | 156.5       |
| 15:57:58           | 193.5        | 4.0          | 0.2           | 64.6      | 156.4       |
| 15:58:58           | 207.1        | 4.3          | 0.2           | 64.7      | 155.6       |
| 15:59:58           | 253.4        | 4.5          | 0.2           | 65.3      | 150.6       |
| 16:00:58           | 300.2        | 4.3          | 0.2           | 65.7      | 146.9       |
| 16:01:58           | 273.5        | 4.2          | 0.2           | 65.8      | 146.6       |
| 16:02:58           | 246.4        | 4.1          | 0.2           | 66.1      | 146.5       |
| 16:03:58           | 225.4        | 4.3          | 0.2           | 66.1      | 145.1       |
| 16:04:58           | 208.5        | 4.1          | 0.2           | 66.1      | 145.1       |
| 16:05:58           | 148.4        | 4.3          | 0.2           | 65.4      | 145.1       |
| 16:06:58           | 165.3        | 4.4          | 0.2           | 65.2      | 145.1       |
| 16:07:58           | 174.0        | 4.5          | 0.2           | 65.7      | 145.1       |
| 16:08:58           | 171.9        | 4.4          | 0.2           | 66.0      | 145.1       |
| 16:09:58           | 155.1        | 4.4          | 0.2           | 66.1      | 145.1       |
| 16:10:58           | 148.4        | 4.3          | 0.2           | 66.1      | 145.1       |
| 16:11:58           | 137.8        | 4.3          | 0.2           | 66.2      | 145.1       |
| 16:12:58           | 123.1        | 4.2          | 0.2           | 66.1      | 145.1       |
| 16:13:58           | 120.3        | 4.2          | 0.2           | 66.0      | 145.1       |
| 16:14:58           | 120.3        | 4.1          | 0.2           | 66.1      | 145.1       |
| 16:15:58           | 116.3        | 4.1          | 0.2           | 66.2      | 145.1       |
| 16:16:58           | 113.3        | 4.0          | 0.2           | 66.3      | 145.1       |

Test #: 0408-03

| 04-08-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 16:17:58           | 105.8        | 4.0          | 0.2           | 66.4      | 145.1       |
| 16:18:58           | 100.5        | 4.0          | 0.2           | 66.4      | 145.1       |
| 16:19:58           | 92.3         | 3.9          | 0.2           | 66.3      | 145.1       |
| 16:20:58           | 93.5         | 3.8          | 0.2           | 66.2      | 145.1       |
| 16:21:58           | 90.6         | 3.8          | 0.2           | 66.3      | 145.1       |
| 16:22:58           | 88.3         | 3.7          | 0.2           | 66.3      | 145.1       |
| 16:23:58           | 82.5         | 3.7          | 0.2           | 66.3      | 145.1       |
| 16:24:58           | 77.9         | 3.7          | 0.2           | 66.3      | 145.1       |
| 16:25:58           | 75.2         | 3.7          | 0.2           | 66.4      | 145.1       |
| 16:26:58           | 75.2         | 3.6          | 0.2           | 66.4      | 145.1       |
| 16:27:58           | 71.4         | 3.6          | 0.2           | 66.5      | 145.1       |
| 16:28:58           | 68.7         | 3.5          | 0.2           | 66.5      | 145.1       |
| 16:29:58           | 63.4         | 3.5          | 0.2           | 66.5      | 145.0       |
| 16:30:58           | 60.0         | 3.5          | 0.2           | 66.5      | 145.1       |
| 16:31:58           | 56.4         | 3.5          | 0.2           | 66.5      | 145.1       |
| 16:32:58           | 53.3         | 3.4          | 0.2           | 66.6      | 145.0       |
| 16:33:58           | 49.3         | 3.4          | 0.2           | 66.6      | 145.0       |
| 16:34:58           | 46.4         | 3.4          | 0.2           | 66.6      | 145.0       |
| 16:35:58           | 43.1         | 3.3          | 0.2           | 66.6      | 145.0       |
| 16:36:58           | 39.4         | 3.3          | 0.2           | 66.5      | 145.0       |
| 16:37:58           | 37.1         | 3.3          | 0.2           | 66.6      | 145.0       |
| 16:38:58           | 33.6         | 3.3          | 0.2           | 66.5      | 145.0       |
| 16:39:58           | 31.2         | 3.3          | 0.2           | 66.5      | 145.0       |
| 16:40:58           | 29.2         | 3.2          | 0.2           | 66.6      | 145.0       |
| 16:41:58           | 26.5         | 3.2          | 0.2           | 66.7      | 145.0       |
| 16:42:58           | 24.1         | 3.2          | 0.2           | 66.6      | 145.0       |
| 16:43:58           | 22.1         | 3.2          | 0.2           | 66.6      | 145.0       |
| 16:44:58           | 20.3         | 3.1          | 0.2           | 66.6      | 145.0       |
| 16:45:58           | 18.6         | 3.1          | 0.2           | 66.7      | 145.0       |
| 16:46:58           | 19.2         | 3.1          | 0.2           | 66.9      | 145.0       |
| 16:47:58           | 17.1         | 3.1          | 0.2           | 67.1      | 145.0       |
| 16:48:58           | 15.1         | 3.1          | 0.2           | 67.3      | 145.0       |
| 16:49:58           | 13.9         | 3.1          | 0.2           | 67.4      | 145.1       |
| 16:50:58           | 12.9         | 3.1          | 0.2           | 67.5      | 145.1       |
| 16:51:58           | 11.5         | 3.1          | 0.2           | 67.6      | 145.0       |
| 16:52:58           | 10.7         | 3.1          | 0.2           | 67.6      | 145.0       |
| 16:53:58           | 10.1         | 3.1          | 0.2           | 67.7      | 145.1       |
| 16:54:58           | 9.1          | 3.2          | 0.2           | 67.7      | 145.0       |
| 16:55:58           | 8.5          | 3.2          | 0.2           | 67.8      | 145.0       |
| 16:56:58           | 7.6          | 3.2          | 0.1           | 67.8      | 145.0       |
| 16:57:58           | 6.9          | 3.2          | 0.2           | 67.8      | 145.0       |
| 16:58:58           | 6.8          | 3.2          | 0.2           | 68.0      | 145.0       |
| =====              |              |              |               |           |             |
| Avg =              | 111.3        | 3.2          | 0.2           | 65.8      | 184.0       |
| =====              |              |              |               |           |             |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-08-1997 Current Time = 17:07:56

File Name = c:\cemdata\040897.PRN Calibration File:c:\cemdata\0408a.CAL

Test #: Post out 297 in 15.0

| 04-08-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 17:07:59           | 298.4        | 14.6         | 0.2           | 67.9      | 145.0       |
| 17:08:01           | 298.4        | 14.6         | 0.2           | 67.9      | 145.0       |
| 17:08:08           | 296.8        | 14.6         | 0.2           | 67.8      | 145.0       |
| 17:08:13           | 297.5        | 14.6         | 0.2           | 67.9      | 145.0       |
| 17:08:28           | 297.3        | 14.6         | 0.2           | 67.9      | 145.0       |
| 17:08:38           | 296.5        | 14.6         | 0.2           | 67.9      | 145.0       |
| 17:08:48           | 296.5        | 14.6         | 0.2           | 67.9      | 145.0       |
| 17:08:58           | 296.5        | 14.6         | 0.2           | 67.9      | 145.0       |
| 17:09:03           | 296.5        | 14.6         | 0.2           | 68.0      | 145.0       |
| Avg =              | 297.2        | 14.6         | 0.2           | 67.9      | 145.0       |

RADIAM CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-08-1997 Current Time = 17:12:01

File Name = c:\ceedata\040897.PRM Calibration File: c:\ceedata\0408a.CAL

Test #: Fast out 600 in 30.4

| 04-08-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 17:12:04           | 614.4        | 29.5         | 0.2           | 68.0      | 145.1       |
| 17:12:05           | 614.4        | 29.5         | 0.2           | 68.0      | 145.1       |
| 17:12:08           | 614.4        | 29.4         | 0.0           | 68.1      | 145.0       |
| 17:12:13           | 613.7        | 29.4         | 0.0           | 68.0      | 145.1       |
| 17:12:22           | 612.7        | 29.4         | 0.0           | 68.0      | 145.1       |
| 17:12:38           | 612.5        | 29.5         | 0.0           | 68.0      | 145.1       |
| 17:12:48           | 614.3        | 29.5         | 0.0           | 67.9      | 145.1       |
| 17:12:58           | 614.0        | 29.6         | 0.0           | 67.9      | 145.1       |
| 17:13:08           | 613.3        | 29.6         | 0.0           | 67.9      | 145.1       |
| 17:13:18           | 614.5        | 29.6         | 0.0           | 67.9      | 145.1       |
| 17:13:28           | 614.3        | 29.6         | 0.0           | 67.9      | 145.1       |
| 17:13:38           | 612.0        | 29.6         | 0.0           | 67.9      | 145.1       |
| Avg =              | 613.7        | 29.5         | 0.0           | 68.0      | 145.1       |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

to Marine

Arlington, MA

Performed for: NMMA

Date Printed = 04-08-1997 Current Time = 17:17:07

File Name = c:\ceadata\040897.PRM Calibration File: c:\ceadata\0408a.CAL

Test #: Post out 914 in 45.5

| 04-08-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 17:17:11           | 935.8        | 43.9         | 0.0           | 67.7      | 145.2       |
| 17:17:12           | 935.8        | 43.9         | 0.0           | 67.7      | 145.2       |
| 17:17:16           | 935.3        | 43.9         | 0.0           | 67.6      | 145.2       |
| 17:17:28           | 936.3        | 43.9         | 0.0           | 67.6      | 145.2       |
| 17:17:38           | 934.3        | 43.9         | 0.0           | 67.6      | 145.2       |
| 17:17:48           | 933.8        | 43.9         | 0.0           | 67.6      | 145.2       |
| 17:17:58           | 936.1        | 43.9         | 0.0           | 67.6      | 145.2       |
| 17:18:08           | 935.4        | 43.9         | 0.0           | 67.6      | 145.2       |
| 17:18:19           | 935.5        | 44.0         | 0.0           | 67.5      | 145.2       |
| 17:18:26           | 934.9        | 44.0         | 0.0           | 67.5      | 145.2       |
| 17:18:36           | 933.8        | 44.2         | 0.0           | 67.5      | 145.2       |
| 17:18:48           | 934.2        | 44.2         | 0.0           | 67.6      | 145.4       |
| 17:18:58           | 934.2        | 44.2         | 0.0           | 67.5      | 145.4       |
| 17:19:08           | 934.0        | 44.2         | 0.0           | 67.4      | 145.3       |
| Avg =              | 935.0        | 44.0         | 0.0           | 67.6      | 145.3       |

# RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for:

NMMA

Date Printed = 04-09-1997 Current Time = 17:24:51

File Name = c:\cemdata\040897.PRN Calibration File: c:\cemdata\0408a.CAL

Test #: Post out 0 in 0

| 04-09-1997<br>Time | THC 0<br>ppm | THC 1<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 17:24:55           | -0.0         | -0.0         | 0.0           | 66.8      | 145.0       |
| 17:24:58           | 0.0          | -0.0         | 0.0           | 66.8      | 145.0       |
| 17:25:03           | 0.2          | 0.1          | -4.3          | -136.7    | 145.0       |
| 17:25:13           | -0.0         | -0.0         | -5.8          | -240.5    | 145.0       |
| 17:25:23           | -0.0         | -0.0         | -5.8          | -240.5    | 145.0       |
| 17:25:33           | -0.0         | -0.0         | -5.8          | -240.5    | 145.0       |
| 17:25:43           | -0.0         | -0.0         | -5.8          | -240.5    | 145.0       |
| 17:25:53           | -0.0         | -0.0         | -5.8          | -240.5    | 145.0       |
| 17:26:03           | -0.1         | -0.0         | -5.8          | -240.5    | 145.0       |
| Avg =              | 0.8          | -0.0         | -4.4          | -166.2    | 145.5       |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-08-1997 Current Time = 17:30:42

File Name = c:\ce\data\040897.PRM Calibration File: c:\ce\data\0408a.CAL

Test #: Resin 0

| 04-08-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 17:30:47           | 1.9          | 3.1          | -5.8          | -240.5    | -1.9        |
| 17:30:48           | 1.9          | 3.1          | -5.8          | -240.5    | -1.9        |
| 17:30:49           | 1.9          | 3.1          | -5.8          | -240.5    | -1.9        |
| 17:30:50           | 1.9          | 3.1          | -5.8          | -240.5    | -1.9        |
| 17:30:51           | 1.9          | 3.2          | -5.8          | -240.5    | -1.9        |
| 17:31:18           | 1.9          | 3.2          | -5.8          | -240.5    | -1.9        |
| 17:31:28           | 1.9          | 3.2          | -5.8          | -240.5    | -1.9        |
| 17:31:38           | 3.2          | 3.7          | -5.8          | -240.5    | -1.9        |
| Avg =              | 2.1          | 3.2          | -5.8          | -240.5    | -1.9        |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-08-1997 Current Time = 17:33:09

File Name = c:\cemdata\040897.PRN Calibration File:c:\cemdata\0408a.CAL

Test #: Resin 1001b

| 04-08-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 17:33:14           | 2.0          | 3.6          | -5.8          | -240.5    | 98.1        |
| 17:33:18           | 2.0          | 3.4          | -5.8          | -240.5    | 98.2        |
| 17:33:28           | 1.9          | 3.3          | -5.8          | -240.5    | 98.1        |
| 17:33:38           | 3.0          | 3.8          | -5.8          | -240.5    | 98.1        |
| 17:33:48           | 3.0          | 3.7          | -5.8          | -240.5    | 98.1        |
| 17:33:58           | 3.0          | 3.9          | -5.8          | -240.5    | 98.1        |
| 17:34:08           | 3.0          | 3.9          | -5.8          | -240.5    | 98.1        |
| 17:34:18           | 2.6          | 3.5          | -5.8          | -240.5    | 98.2        |
| 17:34:28           | 2.2          | 3.4          | -5.8          | -240.5    | 98.1        |
| 17:34:38           | 2.7          | 3.6          | -5.8          | -240.5    | 98.1        |
| Avg =              | 2.5          | 3.6          | -5.8          | -240.5    | 98.1        |



RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-08-1997 Current Time = 17:35:58

File Name = c:\cemdata\040897.PRM Calibration File: c:\cemdata\0408a.CAL

Test #: Resin 2001b

| 04-08-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 17:36:03           | 3.0          | 3.9          | -5.8          | -240.5    | 197.9       |
| 17:36:08           | 2.9          | 3.7          | -5.8          | -240.5    | 197.9       |
| 17:36:18           | 3.0          | 3.6          | -5.8          | -240.5    | 197.9       |
| 17:36:28           | 3.0          | 3.8          | -5.8          | -240.5    | 197.9       |
| 17:36:38           | 3.0          | 3.8          | -5.8          | -240.5    | 197.9       |
| 17:36:48           | 2.5          | 3.4          | -5.8          | -240.5    | 197.9       |
| 17:36:58           | 1.9          | 3.3          | -5.8          | -240.5    | 197.9       |
| 17:37:08           | 2.4          | 3.5          | -5.8          | -240.5    | 197.9       |
| 17:37:18           | 2.4          | 3.5          | -5.8          | -240.5    | 198.0       |
| 17:37:28           | 3.0          | 4.0          | -5.8          | -240.5    | 197.9       |
| 17:37:38           | 3.0          | 4.0          | -5.8          | -240.5    | 197.9       |
| 17:37:48           | 2.8          | 3.7          | -5.8          | -240.5    | 198.0       |
| 17:37:58           | 2.5          | 3.5          | -5.8          | -240.5    | 197.9       |
| 17:38:08           | 2.7          | 3.4          | -5.8          | -240.5    | 197.9       |
| Avg =              | 2.7          | 3.7          | -5.8          | -240.5    | 197.9       |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-08-1997 Current Time = 17:39:30

File Name = c:\ce\data\040897.PRM Calibration File: c:\ce\data\0408a.CAL

Test #: Resin 3001b

| 04-08-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 17:39:35           | 2.9          | -0.3         | -5.8          | -240.5    | 297.8       |
| 17:39:38           | 2.1          | -0.3         | -5.8          | -240.5    | 297.8       |
| 17:39:48           | 2.1          | -0.3         | -5.8          | -240.5    | 297.6       |
| 17:39:58           | 2.9          | -0.3         | -5.8          | -240.5    | 297.8       |
| 17:40:08           | 2.3          | -0.3         | -5.8          | -240.5    | 297.6       |
| 17:40:13           | 2.5          | -0.3         | -5.8          | -240.5    | 297.8       |
| 17:40:28           | 2.5          | -0.3         | -5.8          | -240.5    | 297.6       |
| Avg =              | 2.5          | -0.3         | -5.8          | -240.5    | 297.8       |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-08-1997 Current Time = 17:42:56

File Name = c:\cemdata\040897.PRN Calibration File:c:\cemdata\0408a.CAL

Test #: Resin 4001b

| 04-08-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 17:43:02           | 2.5          | -0.3         | -5.8          | -240.5    | 397.6       |
| 17:43:03           | 2.5          | -0.3         | -5.8          | -240.5    | 397.6       |
| 17:43:08           | 1.9          | -0.3         | -5.8          | -240.5    | 397.6       |
| 17:43:18           | 2.5          | -0.3         | -5.8          | -240.5    | 397.6       |
| 17:43:28           | 2.5          | -0.3         | -5.8          | -240.5    | 397.6       |
| 17:43:38           | 1.9          | -0.3         | -5.8          | -240.5    | 397.6       |
| 17:43:48           | 1.9          | -0.3         | -5.8          | -240.5    | 397.6       |
| 17:43:58           | 1.9          | -0.3         | -5.8          | -240.5    | 397.6       |
| 17:44:08           | 1.9          | -0.3         | -5.8          | -240.5    | 397.6       |
| 17:44:18           | 1.9          | -0.3         | -5.8          | -240.5    | 397.6       |
| 17:44:28           | 1.9          | -0.3         | -5.8          | -240.5    | 397.6       |
| Avg =              | 2.1          | -0.3         | -5.8          | -240.5    | 397.6       |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-08-1997 Current Time = 17:45:39

File Name = c:\cemdata\040897.PRN Calibration File:c:\cemdata\0408a.CAL

Test #: Resin 5001b

| 04-08-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 17:45:44           | 2.9          | -0.3         | -5.8          | -240.5    | 497.5       |
| 17:45:48           | 1.9          | -0.3         | -5.8          | -240.5    | 497.5       |
| 17:45:58           | 1.9          | -0.3         | -5.8          | -240.5    | 497.5       |
| 17:46:08           | 1.9          | -0.3         | -5.8          | -240.5    | 497.5       |
| 17:46:18           | 1.9          | -0.3         | -5.8          | -240.5    | 497.5       |
| 17:46:28           | 1.9          | -0.3         | -5.8          | -240.5    | 497.5       |
| 17:46:38           | 1.9          | -0.3         | -5.8          | -240.5    | 497.5       |
| 17:46:48           | 1.9          | -0.3         | -5.8          | -240.5    | 497.5       |
| Avg =              | 2.0          | -0.3         | -5.8          | -240.5    | 497.5       |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-08-1997 Current Time = 17:50:01

File Name = c:\cemdata\040897.PRM Calibration File: c:\cemdata\0408a.CAL

Test #: Resin ore audit

| 04-08-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 17:50:09           | 2.0          | -0.3         | -5.8          | -240.5    | 497.6       |
| 17:50:09           | 2.0          | -0.3         | -5.8          | -240.5    | 497.6       |
| 17:50:10           | 2.0          | -0.3         | -5.8          | -240.5    | 497.6       |
| 17:50:18           | 2.7          | -0.3         | -5.8          | -240.5    | 497.6       |
| 17:50:28           | 2.7          | -0.3         | -5.8          | -240.5    | 497.6       |
| 17:50:38           | 1.9          | -0.3         | -5.8          | -240.5    | 497.6       |
| 17:50:48           | 1.9          | -0.3         | -5.8          | -240.5    | 497.6       |
| 17:50:58           | 2.1          | -0.3         | -5.8          | -240.5    | 497.6       |
| 17:51:08           | 2.6          | -0.3         | -5.8          | -240.5    | 497.6       |
| Avg =              | 2.2          | -0.3         | -5.8          | -240.5    | 497.6       |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-08-1997 Current Time = 17:52:29

File Name = c:\ceadata\040897.PRN Calibration File: c:\ceadata\0408a.CAL

Test #: Resin audit

| 04-08-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 17:52:36           | 1.9          | -0.3         | -5.8          | -240.5    | 504.3       |
| 17:52:37           | 1.9          | -0.3         | -5.8          | -240.5    | 504.3       |
| 17:52:38           | 1.9          | -0.3         | -5.8          | -240.5    | 504.3       |
| 17:52:48           | 2.2          | -0.3         | -5.3          | -240.5    | 504.2       |
| 17:52:58           | 2.9          | -0.3         | -5.8          | -240.5    | 504.3       |
| 17:53:08           | 2.1          | -0.3         | -5.8          | -240.5    | 504.3       |
| 17:53:18           | 2.6          | -0.3         | -5.8          | -240.5    | 504.2       |
| 17:53:28           | 2.9          | -0.3         | -5.8          | -240.5    | 504.3       |
| 17:53:38           | 2.6          | -0.3         | -5.8          | -240.5    | 504.3       |
| 17:53:49           | 2.7          | -0.3         | -5.8          | -240.5    | 504.3       |
| 17:53:58           | 1.9          | -0.3         | -5.8          | -240.5    | 504.3       |
| Avg =              | 2.3          | -0.3         | -5.8          | -240.5    | 504.3       |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-08-1997 Current Time = 17:55:09

File Name = c:\ceadata\040897.PRM Calibration File: c:\ceadata\0408a.CAL

Test #: resin audit 2

| 04-08-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 17:55:16           | 1.9          | -0.3         | -5.8          | -240.5    | 508.6       |
| 17:55:18           | 2.0          | -0.3         | -5.8          | -240.5    | 508.8       |
| 17:55:20           | 1.9          | -0.3         | -5.8          | -240.5    | 508.7       |
| 17:55:22           | 2.7          | -0.3         | -5.8          | -240.5    | 508.7       |
| 17:55:24           | 2.1          | -0.3         | -5.8          | -240.5    | 508.7       |
| 17:55:26           | 2.2          | -0.3         | -5.8          | -240.5    | 508.7       |
| 17:55:28           | 1.9          | -0.3         | -5.8          | -240.5    | 508.7       |
| 17:55:30           | 1.9          | -0.3         | -5.8          | -240.5    | 508.7       |
| Avg =              | 2.1          | -0.3         | -5.8          | -240.5    | 508.7       |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-08-1997 Current Time = 17:58:33

File Name = c:\cemdata\040897.PRN Calibration File: c:\cemdata\0408a.CAL

Test #: Resin audit 3

| 04-08-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 17:58:40           | 1.9          | -0.3         | -5.8          | -240.5    | 510.9       |
| 17:58:41           | 1.9          | -0.3         | -5.8          | -240.5    | 510.9       |
| 17:58:48           | 2.9          | -0.3         | -5.8          | -240.5    | 510.5       |
| 17:58:58           | 1.9          | -0.3         | -5.8          | -240.5    | 510.9       |
| 17:59:08           | 1.9          | -0.3         | -5.8          | -240.5    | 510.9       |
| 17:59:18           | 2.2          | -0.3         | -5.8          | -240.5    | 510.9       |
| Avg =              | 2.1          | -0.3         | -5.8          | -240.5    | 510.9       |



RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-08-1997 Current Time = 18:01:39

File Name = c:\ceadata\040897.PRN Calibration File:c:\ceadata\0408a.CAL

Test #: Resin audit 4

| 04-08-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 18:01:46           | 2.0          | -0.3         | -5.8          | -240.5    | 511.9       |
| 18:01:48           | 2.0          | -0.3         | -5.8          | -240.5    | 512.0       |
| 18:01:50           | 2.3          | -0.3         | -5.8          | -240.5    | 511.5       |
| 18:02:00           | 2.3          | -0.3         | -5.8          | -240.5    | 512.0       |
| 18:02:10           | 2.0          | -0.3         | -5.8          | -240.5    | 512.0       |
| 18:02:20           | 1.9          | -0.3         | -5.8          | -240.5    | 512.0       |
| 18:02:30           | 1.9          | -0.3         | -5.8          | -240.5    | 512.0       |
| 18:02:40           | 2.9          | -0.3         | -5.8          | -240.5    | 511.9       |
| Avg =              | 2.2          | -0.3         | -5.8          | -240.5    | 512.0       |

**April 9, 1997**

**Styrene Audit**

**0409-01/NMMA-01-02: 18-ft Hull 35% Styrene Resin Spray Up Lamination**

**Propane Audit**

**Styrene Audit (2)**

**0409-02/NMMA-11-1: CFA Mold Gelcoat**

**0409-03/NMMA-11-1R: CFA Mold 35% Styrene Resin Spray Up Lamination**

Radian International LLC  
Stelling Engineering, P.A.  
Air Tech Environmental LLC

Date: 4-9

Initial: Ken W

### Resin Flow Calibration (15-second evaluation)

|                | Pre-Test | Post-Test |
|----------------|----------|-----------|
| Run 1 Mass (g) | 1272     | 1276      |
| Run 2 Mass (g) |          |           |
| Run 3 Mass (g) |          |           |
| Average        |          |           |

### Resin:Glass Ratio

|                |  |
|----------------|--|
| Mass resin (g) |  |
| Mass glass (g) |  |
| TOTAL          |  |
| Percent glass  |  |

| Material     | Drum No. | Gel Time (min) | Catalyst % Vol. | Setting |
|--------------|----------|----------------|-----------------|---------|
| Gelcoat      |          |                | 2               |         |
| Resin (skin) |          |                | 2               |         |
| Resin (lam)  |          |                | 1-1/4           |         |

## Thickness Checks

[illegible]

DAILY SPRAY EQUIPMENT CALIBRATION

Date: 4-9-97

Initial: Larry Darsitz

Spray Gun: \_\_\_\_\_

Resin Flow Calibration (15-second evaluation)

|                | Pre-Test | Post-Test |
|----------------|----------|-----------|
| Run 1 Mass (g) | 709      | 694       |
| Run 2 Mass (g) |          |           |
| Run 3 Mass (g) |          |           |
| Average        |          |           |

Resin:Glass Ratio

|                |      |  |
|----------------|------|--|
| Mass resin (g) | 242  |  |
| Mass glass (g) | 127  |  |
| TOTAL          | 369  |  |
| Percent glass  | 34.4 |  |

| Material     | Drum No. | Gel Time (min) | Catalyst % Vol. | Setting |
|--------------|----------|----------------|-----------------|---------|
| Gelcoat      |          |                |                 |         |
| Resin (skin) | 3        |                |                 |         |
| Resin (lam)  |          |                |                 |         |

Thickness Checks

| Run               | 1 | 2 | 3 | 4 | 5 |
|-------------------|---|---|---|---|---|
| 90mil skin        |   |   |   |   |   |
| Bottom 60mil Rev  |   |   |   |   |   |
| Bottom 30mil Rev  |   |   |   |   |   |
| side 60mil Rev    |   |   |   |   |   |
| Transom 60mil Rev |   |   |   |   |   |
|                   |   |   |   |   |   |

DAILY GAS CHROMATOGRAPHY LOG

1083

Date: 4/9/97

Initial: DeWitt

Run 0409-1

Test NMMA-1-2

| Run No. | Time   | Comments      | THC | MMA Area          | Styrene Area |
|---------|--------|---------------|-----|-------------------|--------------|
| 447     | 0723   | Ø Air         |     | 0                 | 0            |
| 448     | 0729   | Ø Air         |     | 0                 | 0            |
| 449     | 0738   | Bag 4         |     | 1792969           |              |
| 450     | 0744   | Bag 4 -high   |     | 2116642           |              |
| 451     | 0749   | Bag 4         |     | 1770000           |              |
| 452     | 0756   | 59.2 Sty -Low |     | <del>200310</del> | 1200310      |
| 453     | 0802   | 59.2 Sty      |     |                   | 1977894      |
| 454     | 0807   | 59.2 Sty      |     |                   | 1852749      |
| 455     | 0815   | 122 Sty       |     |                   | 3120594      |
| 456     | 0821   | 122 Sty       |     |                   | 2989200      |
| 457     | 0829   | 122 Sty       |     |                   | 4716233      |
| 458     | 0838   | 122 Sty       |     |                   | 3923266      |
| 459     | 0839   | 122 Sty       |     |                   | 3073312      |
| 460     | 0846   | 204 Sty       |     |                   | 5126154      |
| 461     | 0851   | 204 Sty       |     |                   | 5370304      |
| 462     | 0955   | 1             | 238 |                   | 3133270      |
| 463     | 091002 | 2             | 156 |                   | 1811931      |
| 464     | 1006   | 3             | 219 |                   | 3613541      |
| 465     | 1012   | 4             | 286 |                   | 5067021      |
| 466     | 1017   | 5             | 178 |                   | 3731293      |
| 467     | 1021   | 6             | 132 |                   | 2352324694   |
| 468     | 1027   | 7             | 88  |                   | 1920083      |
| 469     | 1032   | 8             | 79  |                   | 1362342      |
| 470     | 1037   | 9             | 65  |                   | 865232       |
| 471     | 1043   | 10            | 53  |                   | 713419       |
| 472     | 1049   | 11            | 7   |                   | 4253606      |
| 473     | 1058   | 12            | 233 |                   | 3344534      |
| 474     | 1104   | 13            | 125 |                   | 1685221      |
| 475     | 1110   | 14            | 88  |                   | 1752483      |
| 476     | 1116   | 15            | 70  |                   | 1273704      |
| 477     | 1123   | 16            | 297 |                   | 3737442      |
| 478     | 1129   | 17            | 253 |                   | 3368774      |
| 479     | 1135   | 18            | 152 |                   | 2435699      |
| 480     | 1142   | 19            | 84  |                   | 1323075      |

CALL 7  
0409-01  
NMMA-1-2

DAILY GAS CHROMATOGRAPHY LOG

② 1/3

Date: 4/9/97

Initial: DD

Run 0409-01

Test NMMA-1-2

0409-01  
NMMA-1-2  
cont.

End run

cal  
Post  
0409-1

NMMA-11-1  
0409-02

end run

↓

0409-03  
NMMA-11-1R

END

| Run No. | Time  | Comments     | THC   | MMA Area | Styrene Area |
|---------|-------|--------------|-------|----------|--------------|
| 481     | 11:50 | 20           | 52    |          | 855991       |
| 482     | 12:03 | 21           | 24    |          | 36772376746  |
| 483     | 12:08 | 22           | 17    |          | 290008       |
| 484     | 12:14 | 23           | 12    |          | 190411       |
| 485     | 12:20 | 204 sty      |       |          | 6047834      |
| 486     | 12:30 | 204 sty      |       |          | 7178914      |
| 487     | 12:49 | 122 sty 204  |       |          | 5592954      |
| 488     | 12:49 | 122 sty      |       |          | 3594598      |
| 489     | 12:56 | 122 sty      |       |          | 5007738      |
| 490     | 13:07 | Bag 4        |       |          | 1590112      |
| 491     | 13:12 | Bag 4        |       |          | 1901657      |
| 492     | 13:21 | 1            | 110   | 2466655  | 1224537      |
| 493     | 13:27 | 2            | 70    | 127716   | 802141       |
| 4934    | 13:34 | 3            | 368PM | 39620    | 484481       |
| 4945    | 13:43 | 4            | 20    | 106130   | 251206       |
| 4956    | 13:45 | Bag 13:44 #5 | ?     | 91916    | 120633       |
| 497     | 14:05 | Bag 4        |       | 1396787  |              |
| 498     | 14:22 | 1            | 86    |          | 963478       |
| 499     | 14:28 | 2            | 54    |          | 812727       |
| 500     | 14:36 | 3            | 29    |          | 271581       |
| 501     | 14:43 | 4 late start | 20    |          | 315504       |
| 502     | 14:51 |              | 14    |          | 186096       |
| 503     | 14:59 | 6            | 8     |          | 125022       |
| 504     | 15:31 | 59.2 sty     |       |          | 1685064      |
| 505     | 15:43 | 59.2 sty     |       |          | 1747079      |
| 506     | 15:53 | 122 sty      |       |          | 4422576      |
| 507     | 16:01 | 122 sty      |       |          | 3689314      |
| 508     | 16:10 | 122 sty      |       |          | 5092468      |
| 509     | 16:19 | 122 sty      |       |          | 3326622      |
| 510     | 16:27 | 122 sty      |       |          | 3280230      |
| 511     | 16:35 | 122 sty      |       |          | 4567085      |
| 512     | 16:40 | 122 sty      |       |          | 3334922      |
| 513     | 16:50 | 122 sty      |       |          | 4775210      |
| 514     | 17:01 | 204 sty      |       |          | 7759981      |

Radian International LLC  
Stelling Engineering, P.A.  
Air Tech Environmental LLC

Date: 4/9/77

3183

Initial: DL

Run Post 0409-03

Test \_\_\_\_\_

[illegible]

Morning Calibration  
4/9/97

\*PUN # 447 APR 9, 1997 07:23:26  
START

0.075

3.234

STOP

RUN# 447 APR 9, 1997 07:23:26

NO CALIB PEAKS FOUND  
AREAX



| RT    | AREA  | TYPE | WIDTH | AREA%    |
|-------|-------|------|-------|----------|
| .075  | 16361 | PB   | .029  | 75.18496 |
| 3.234 | 5400  | PP   | .162  | 24.81503 |

TOTAL AREA= 21761  
MUL FACTOR=1.0000E+00

\* RUN # 448 APR 9, 1997 07:29:50  
START



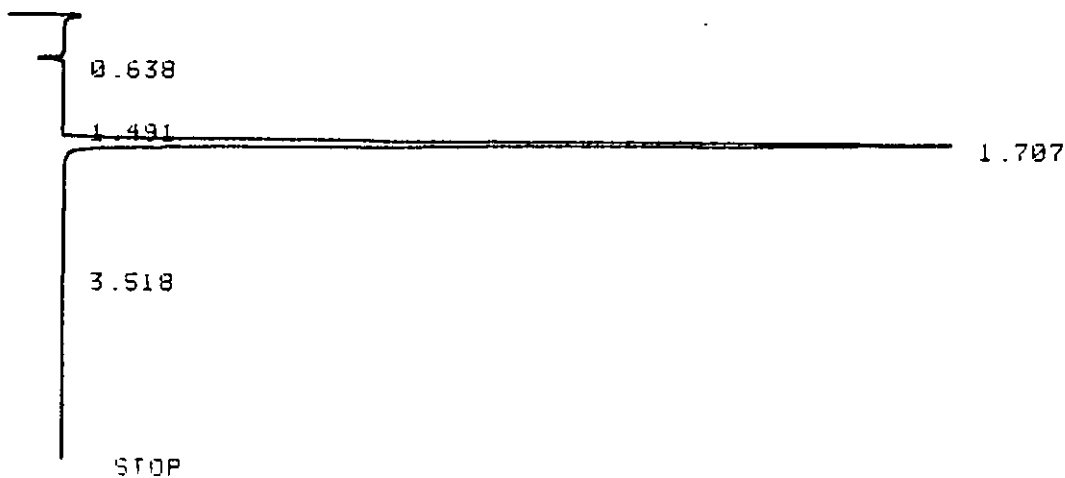
RUN# 448 APR 9, 1997 07:29:50

NO CALIB PEAKS FOUND  
AREA%

| RT   | AREA  | TYPE | WIDTH | AREA%     |
|------|-------|------|-------|-----------|
| .638 | 27529 | BB   | .068  | 100.00000 |

TOTAL AREA= 27529  
MUL FACTOR=1.0000E+00

\* RUN # 449 APR 9, 1997 07:38:04  
START



RUN# 449 APR 9, 1997 07:38:04

ESTD-AREA

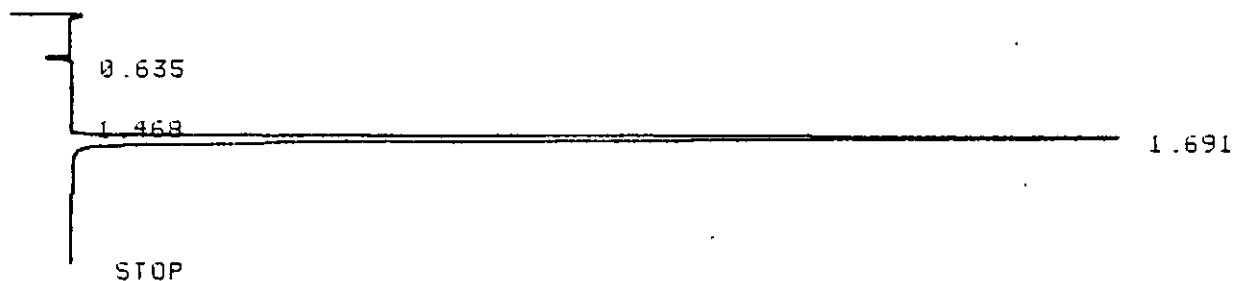
| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.707 | 1792969 | PB   | 1    | 101.841 |

TOTAL AREA=1839579

MUL FACTOR=1.0000E+00

\* RUN # 450 APR 9, 1997 07:44:57

START



RUN# 450 APR 9, 1997 07:44:57

ESTD-AREA

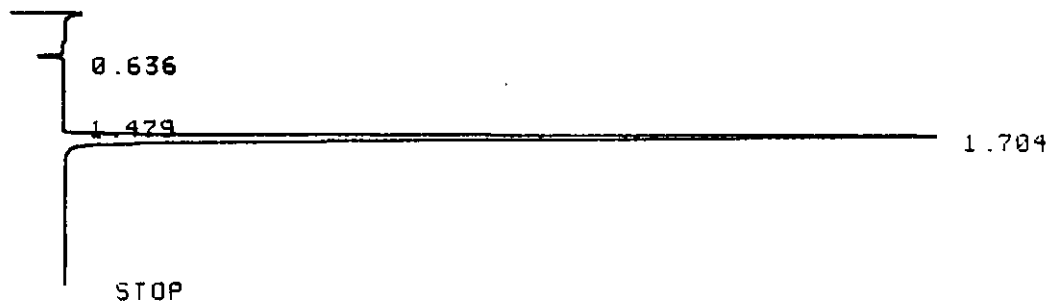
| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.691 | 2116642 | PB   | 1    | 120.225 |

TOTAL AREA=2140974

MUL FACTOR=1.0000E+00

\* RUN # 451 APR 9, 1997 07:49:24

START



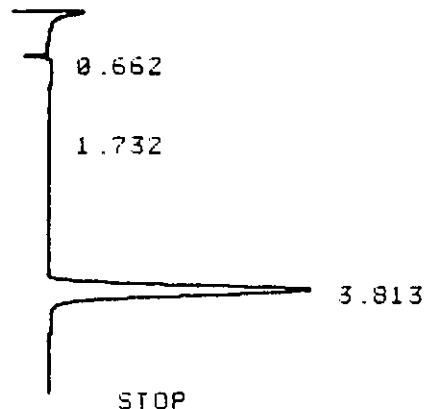
RUN# 451 APR 9, 1997 07:49:24

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.704 | 1770000 | PB   | 1    | 100.536 |

MUL FACTOR=1.0000E+00

\* RUN # 452      APR 9, 1997 07:56:19  
START



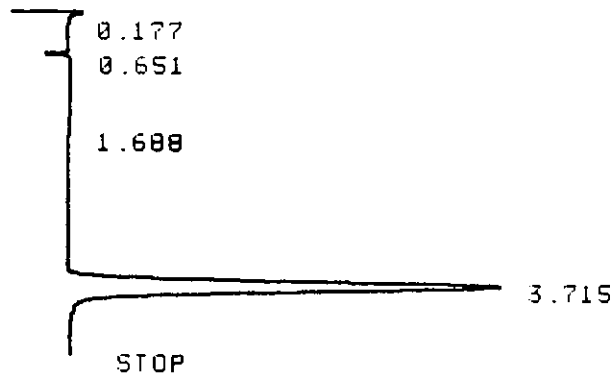
RUN# 452      APR 9, 1997 07:56:19

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.732 | 1321    | BU   | 1    | .075   |
| 3.813 | 1200810 | PB   | 2    | 32.062 |

TOTAL AREA=1274249  
MUL FACTOR=1.0000E+00

\* RUN # 453      APR 9, 1997 08:02:11  
START



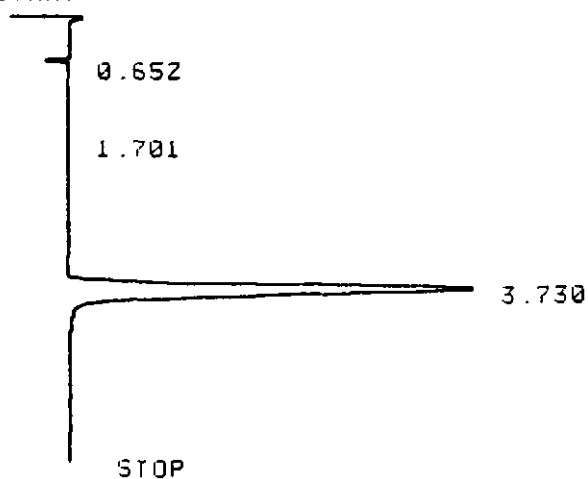
RUN# 453      APR 9, 1997 08:02:11

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.688 | 2526    | UU   | 1    | .143   |
| 3.715 | 1967847 | PB   | 2    | 52.542 |

TOTAL AREA=2046013

\* RUN # 454      APR 9, 1997 08:07:31  
START



RUN# 454      APR 9, 1997 08:07:31

| ESTD-AREA | RT    | AREA    | TYPE | CAL# | AMOUNT |
|-----------|-------|---------|------|------|--------|
|           | 1.701 | 93427   | UU   | 1    | 5.307  |
|           | 3.730 | 1852249 | PB   | 2    | 49.455 |

TOTAL AREA=2019386  
MUL FACTOR=1.0000E+00

\* RUN # 455      APR 9, 1997 08:15:29  
START

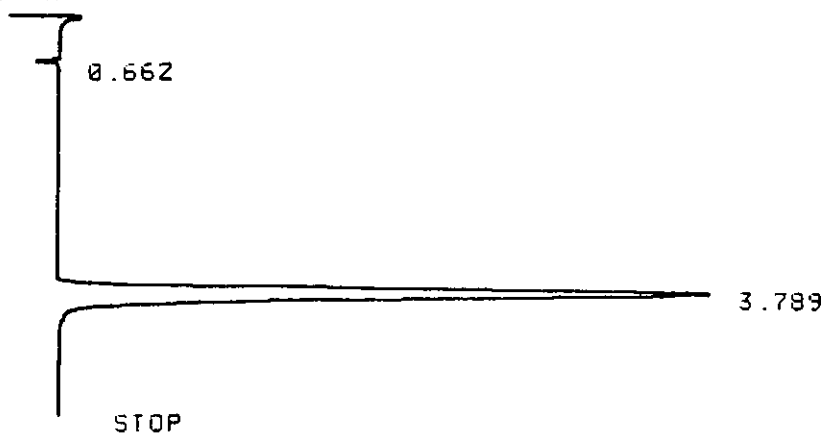


RUN# 455      APR 9, 1997 08:15:29

| ESTD-AREA | RT    | AREA    | TYPE | CAL# | AMOUNT |
|-----------|-------|---------|------|------|--------|
|           | 3.783 | 3120594 | BB   | 2    | 83.320 |

TOTAL AREA=3174253

\* RUN # 456      APR 9, 1997 08:21:02  
START



RUN# 456      APR 9, 1997 08:21:02

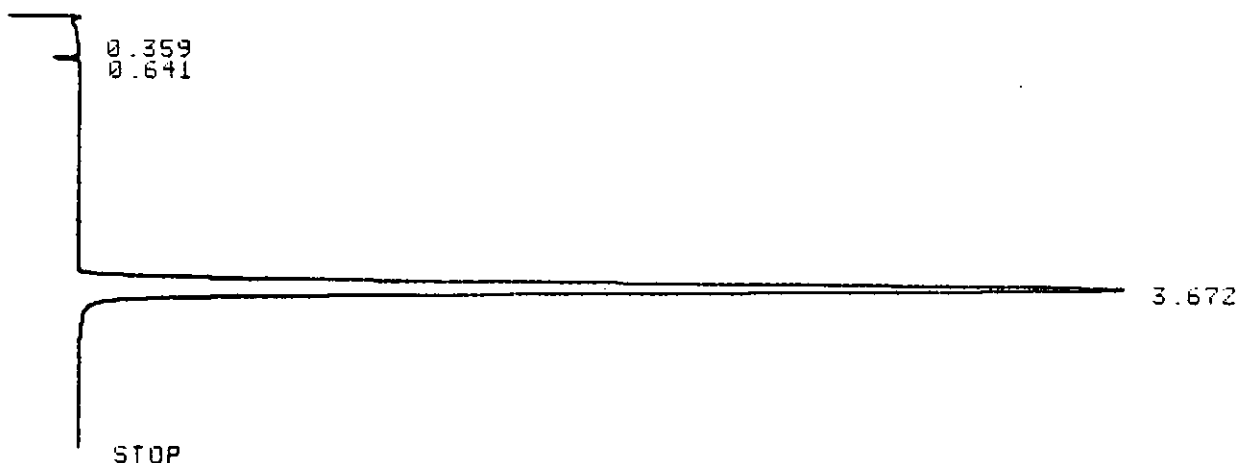
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 3.789 | 2989200 | PB   | 2    | 79.812 |

TOTAL AREA=3085811

MUL FACTOR=1.0000E+00

\* RUN # 457      APR 9, 1997 08:27:43  
START



RUN# 457      APR 9, 1997 08:27:43

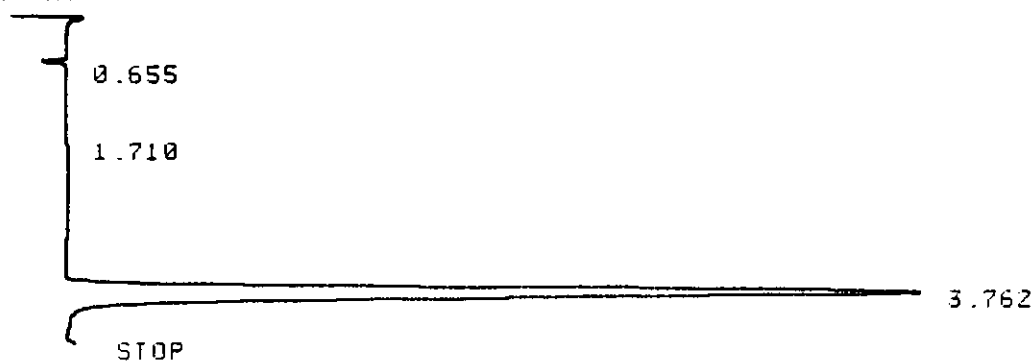
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.672 | 4716733 | PB   | 2    | 125.937 |

TOTAL AREA=4889574

MUL FACTOR=1.0000E+00

\* RUN # 458      APR 9, 1997 08:34:14  
START

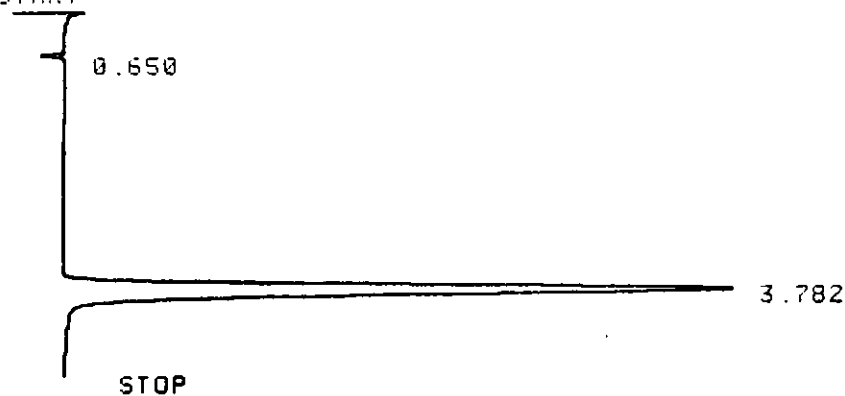


RUN# 458      APR 9, 1997 08:34:14

| ESTD-AREA |         |      |      |         |
|-----------|---------|------|------|---------|
| RT        | AREA    | TYPE | CAL# | AMOUNT  |
| 1.710     | 498     | PU   | 1    | .028    |
| 3.762     | 3923266 | PB   | 2    | 104.751 |

TOTAL AREA=3983829  
MUL FACTOR=1.0000E+00

\* RUN # 459      APR 9, 1997 08:39:17  
START

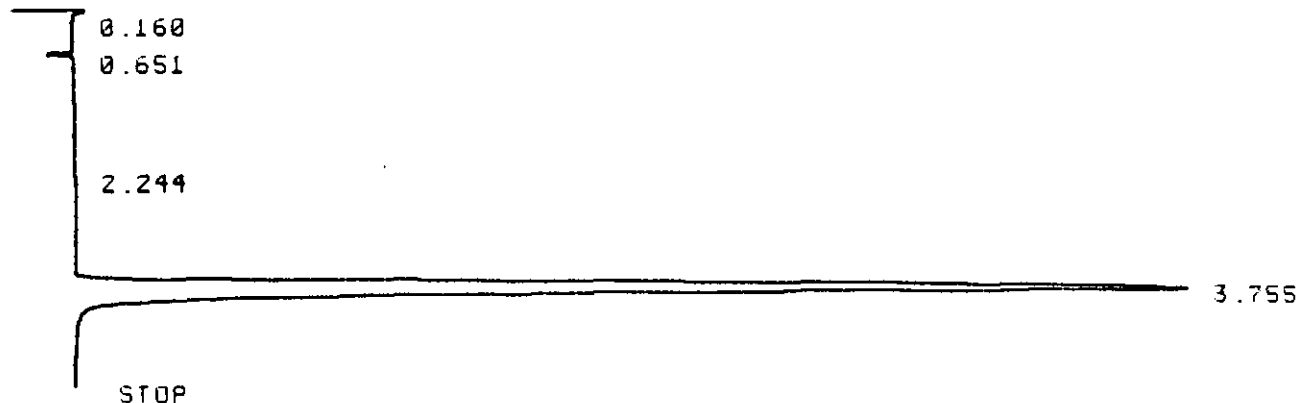


RUN# 459      APR 9, 1997 08:39:17

| ESTD-AREA |         |      |      |        |
|-----------|---------|------|------|--------|
| RT        | AREA    | TYPE | CAL# | AMOUNT |
| 3.782     | 3073312 | BB   | 2    | 82.057 |

TOTAL AREA=3127568  
MUL FACTOR=1.0000E+00

\* RUN # 460 APR 9, 1997 08:46:26  
START



RUN# 460 APR 9, 1997 08:46:26

| ESTD-AREA | RT    | AREA TYPE  | CAL# | AMOUNT  |
|-----------|-------|------------|------|---------|
|           | 3.755 | 5126154 PB | 2    | 136.868 |

TOTAL AREA=5169286  
MUL FACTOR=1.0000E+00

\* RUN # 461 APR 9, 1997 08:51:47  
START



RUN# 461 APR 9, 1997 08:51:47

| ESTD-AREA | RT    | AREA TYPE  | CAL# | AMOUNT  |
|-----------|-------|------------|------|---------|
|           | 3.772 | 5370304 PB | 2    | 143.387 |

TOTAL AREA=5461101  
MUL FACTOR=1.0000E+00

\* RUN # 462 APR 9, 1997 09:55:39  
START

0409-01  
NMMA-1-2

0.176  
0.302  
0.638  
1.000  
1.305  
1.658  
2.468

3.699

STOP

RUN# 462 APR 9, 1997 09:55:39

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.655 | 52648   | UU   | 1    | 2.990  |
| 3.699 | 3133270 | PB   | 2    | 83.658 |

TOTAL AREA=3655400  
MUL FACTOR=1.0000E+00

\* RUN # 463 APR 9, 1997 10:02:06  
START

0.345  
0.644  
1.000  
1.305  
1.652  
2.499

3.720

STOP

RUN# 463 APR 9, 1997 10:02:06

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.663 | 61251   | UU   | 1    | 3.479  |
| 3.720 | 1811931 | UB   | 2    | 48.379 |

TOTAL AREA=2282646  
MUL FACTOR=1.0000E+00

\* RUN # 464 APR 9, 1997 10:06:48  
START



0:265  
0:637  
1:005  
1:369  
1:646

2.475

3.681

STOP

RUN# 464 APR 9, 1997 10:06:48

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.646 | 7839    | UU   | 1    | .445   |
| 3.681 | 3613541 | PB   | 2    | 96.482 |

TOTAL AREA=3772613

MUL FACTOR=1.0000E+00

\* RUN # 465 APR 9, 1997 10:12:00

START

0:265  
0:637  
1:005  
1:369  
1:646  
2.442

3.638

STOP

RUN# 465 APR 9, 1997 10:12:00

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.625 | 73035   | UU   | 1    | 4.148   |
| 3.638 | 5067021 | PB   | 2    | 135.289 |

TOTAL AREA=5737658

MUL FACTOR=1.0000E+00

\* RUN # 466 APR 9, 1997 10:17:06

START

0:258  
0:621  
0:872

1.370  
1.705  
2.428  
2.714

3.605

STOP

RUN# 466 APR 9, 1997 10:17:06

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.705 | 43465   | UU   | 1    | 2.469  |
| 3.605 | 3731293 | PB   | 2    | 99.626 |

TOTAL AREA=4338797  
MUL FACTOR=1.0000E+00

\* RUN # 467 APR 9, 1997 10:21:52  
START

0.305  
0.574  
1.074  
1.350  
1.920  
2.431

3.635

STOP

RUN# 467 APR 9, 1997 10:21:52

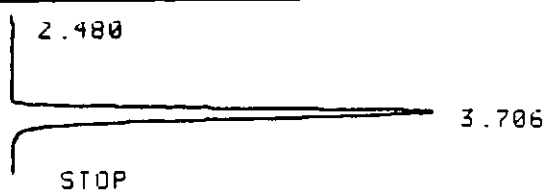
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.722 | 3260    | UU   | 1    | .185   |
| 3.635 | 2324694 | PB   | 2    | 62.069 |

TOTAL AREA=2463749  
MUL FACTOR=1.0000E+00

\* RUN # 468 APR 9, 1997 10:27:25  
START

0.305  
0.620  
1.000  
1.372  
1.650



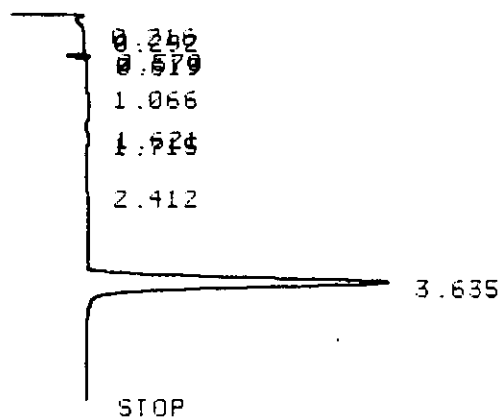
RUN# 468 APR 9, 1997 10:27:25

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.650 | 73696   | UU   | 1    | 4.186  |
| 3.706 | 1920083 | PB   | 2    | 51.266 |

TOTAL AREA=2417445  
MUL FACTOR=1.0000E+00

\* RUN # 469 APR 9, 1997 10:32:20  
START



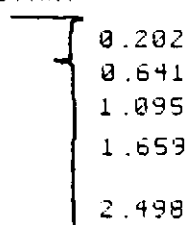
RUN# 469 APR 9, 1997 10:32:20

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.715 | 31284   | UU   | 1    | 1.777  |
| 3.635 | 1362342 | PB   | 2    | 36.375 |

TOTAL AREA=1715017  
MUL FACTOR=1.0000E+00

\* RUN # 470 APR 9, 1997 10:37:57  
START



3.716

STOP

RUN# 470 APR 9, 1997 10:37:57

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.659 | 3302   | BU   | 1    | .188   |
| 3.716 | 865232 | PB   | 2    | 23.102 |

TOTAL AREA= 932735  
MUL FACTOR=1.0000E+00

\* RUN # 471 APR 9, 1997 10:43:50  
START

0.170  
0.637  
1.658  
2.487  
3.719  
STOP

RUN# 471 APR 9, 1997 10:43:50

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.658 | 3545   | UU   | 1    | .201   |
| 3.719 | 713493 | BB   | 2    | 19.050 |

TOTAL AREA= 701040  
MUL FACTOR=1.0000E+00

\* RUN # 472 APR 9, 1997 10:49:36  
START

0.295  
0.620  
0.804  
1.350  
1.628  
2.450

STOP

RUN# 472 APR 9, 1997 10:49:36

## ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.628 | 106537  | UU   | 1    | 6.051   |
| 3.644 | 4253606 | UB   | 2    | 113.571 |

TOTAL AREA=4864838

MUL FACTOR=1.0000E+00

\* RUN # 473 APR 9, 1997 10:58:23

START

0.180  
~~0.588~~  
~~0.800~~  
~~1.000~~  
 1.370  
 1.646

2.491

3.700

STOP

RUN# 473 APR 9, 1997 10:58:23

## ESTD-AREA

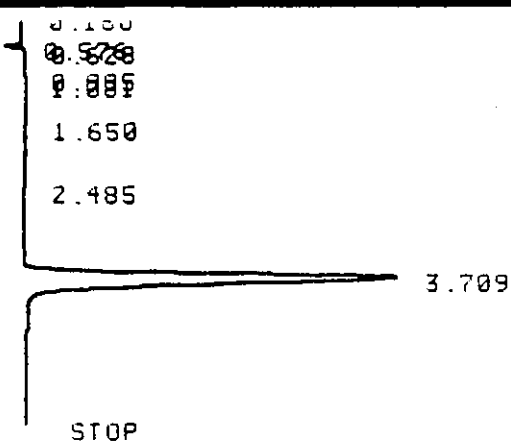
| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.646 | 39929   | UU   | 1    | 2.268  |
| 3.700 | 3344534 | PB   | 2    | 89.299 |

TOTAL AREA=3706738

MUL FACTOR=1.0000E+00

\* RUN # 474 APR 9, 1997 11:04:49

START

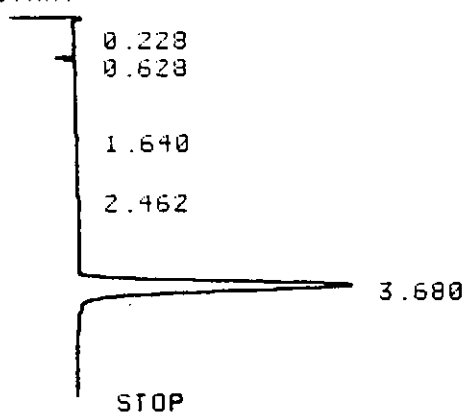


RUN# 474 APR 9, 1997 11:04:49

| ESTD-AREA | RT    | AREA    | TYPE | CAL# | AMOUNT |
|-----------|-------|---------|------|------|--------|
|           | 1.650 | 4505    | BU   | 1    | .256   |
|           | 3.709 | 1685221 | BB   | 2    | 44.995 |

TOTAL AREA=1832763  
MUL FACTOR=1.0000E+00

\* RUN # 475 APR 9, 1997 11:10:55  
START



RUN# 475 APR 9, 1997 11:10:55

| ESTD-AREA | RT    | AREA    | TYPE | CAL# | AMOUNT |
|-----------|-------|---------|------|------|--------|
|           | 1.640 | 4354    | PU   | 1    | .247   |
|           | 3.680 | 1252483 | PB   | 2    | 33.441 |

TOTAL AREA=1310245  
MUL FACTOR=1.0000E+00

\* RUN # 476 APR 9, 1997 11:16:32

0.385  
0.578  
0.996  
1.619

3.623

STOP

RUN# 476 APR 9, 1997 11:16:32

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.619 | 5375    | UU   | 1    | .305   |
| 3.623 | 1273704 | PB   | 2    | 34.008 |

TOTAL AREA=1442406  
MUL FACTOR=1.0000E+00

\* RUN # 477 APR 9, 1997 11:23:03  
START

0.179  
0.535  
0.996  
1.374  
1.651  
2.236  
2.486

3.705

STOP

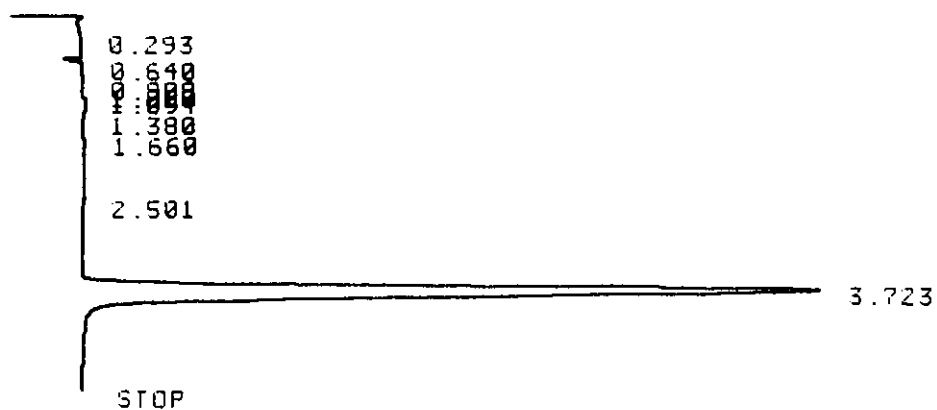
RUN# 477 APR 9, 1997 11:23:03

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.651 | 7345    | UU   | 1    | .417   |
| 3.705 | 3737442 | PB   | 2    | 99.790 |

TOTAL AREA=3787386  
MUL FACTOR=1.0000E+00

\* RUN # 478 APR 9, 1997 11:29:52  
START



STOP

RUN# 478 APR 9, 1997 11:29:52

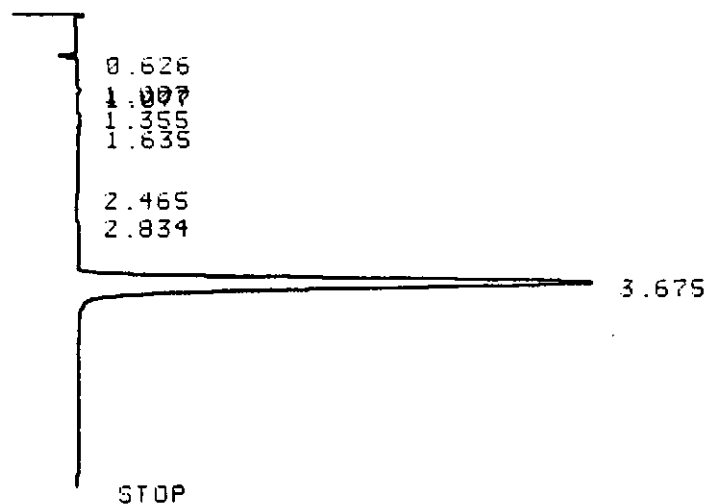
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.660 | 85974   | UU   | 1    | 4.983  |
| 3.723 | 3360774 | BB   | 2    | 89.733 |

TOTAL AREA=3803634

MUL FACTOR=1.0000E+00

\* RUN # 479 APR 9, 1997 11:35:44  
START



STOP

RUN# 479 APR 9, 1997 11:35:44

ESTD-AREA

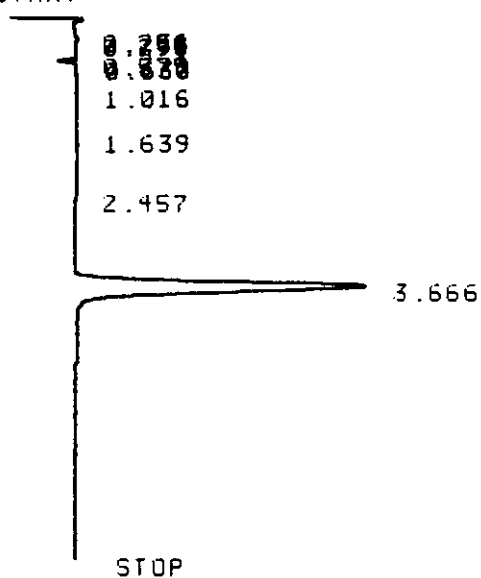
| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.635 | 38257   | UU   | 1    | 2.173  |
| 3.675 | 2345669 | PB   | 2    | 62.629 |

TOTAL AREA=2565902

MUL FACTOR=1.0000E+00



\* RUN # 480      APR 9, 1997 11:42:38  
START



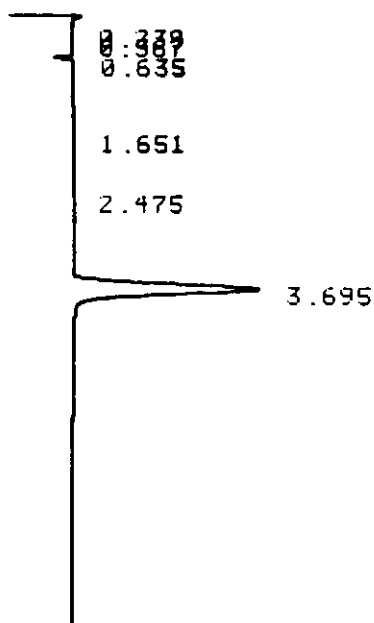
RUN# 480      APR 9, 1997 11:42:38

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.639 | 90740   | UU   | 1    | 5.154  |
| 3.666 | 1323075 | PA   | 2    | 35.326 |

TOTAL AREA=1683497  
MUL FACTOR=1.0000E+00

\* RUN # 481      APR 9, 1997 11:50:19  
START



STOP

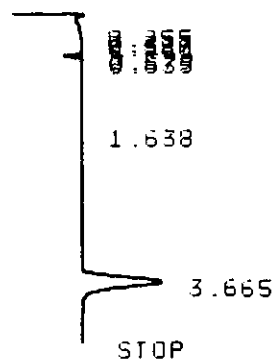
RUN# 481 APR 9, 1997 11:50:19

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.651 | 4015   | PV   | 1    | .228   |
| 3.695 | 855991 | PB   | 2    | 22.855 |

TOTAL AREA= 950237  
MUL FACTOR=1.0000E+00

\* RUN # 482 APR 9, 1997 12:03:45  
START



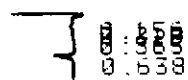
RUN# 482 APR 9, 1997 12:03:45

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.638 | 68068  | UU   | 1    | 3.866  |
| 3.665 | 376746 | UU   | 2    | 10.059 |

TOTAL AREA= 610281  
MUL FACTOR=1.0000E+00

\* RUN # 483 APR 9, 1997 12:08:38  
START



1.650  
 3.690  
 STOP

RUN# 483 APR 9, 1997 12:08:38

| ESTD-AREA |        |      |      |        |
|-----------|--------|------|------|--------|
| RT        | AREA   | TYPE | CAL# | AMOUNT |
| 1.650     | 3537   | PU   | 1    | .201   |
| 3.690     | 290008 | PU   | 2    | 7.743  |

TOTAL AREA= 417216  
 MUL FACTOR=1.0000E+00

\* RUN # 484 APR 9, 1997 12:14:07  
 START

0.255  
 0.690  
 1.649  
 3.672  
 STOP

RUN# 484 APR 9, 1997 12:14:07

| ESTD-AREA |        |      |      |        |
|-----------|--------|------|------|--------|
| RT        | AREA   | TYPE | CAL# | AMOUNT |
| 1.649     | 77615  | UU   | 1    | 4.409  |
| 3.672     | 190411 | UU   | 2    | 5.084  |

TOTAL AREA= 485373  
 MUL FACTOR=1.0000E+00

\* RUN # 485 APR 9, 1997 12:20:24  
 START

0.649

3.772

STOP

RUN# 485 APR 9, 1997 12:20:24

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.772 | 6047834 | PB   | 2    | 161.477 |

TOTAL AREA=6123453

MUL FACTOR=1.0000E+00

\* RUN # 486 APR 9, 1997 12:30:40

START

0.655

3.706

STOP

RUN# 486 APR 9, 1997 12:30:40

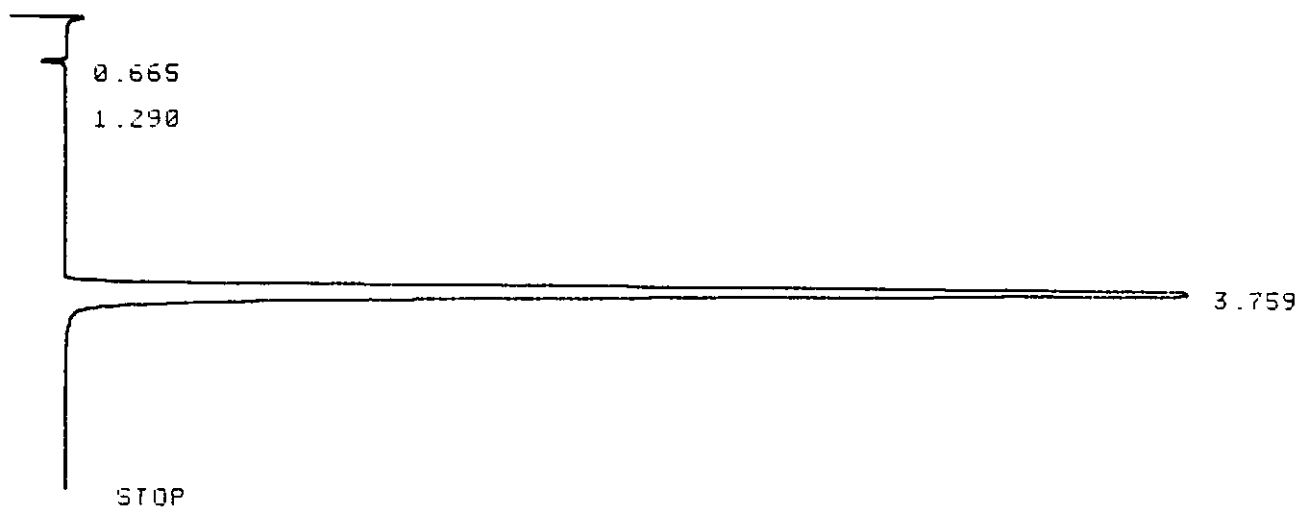
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.706 | 7178941 | PB   | 2    | 191.678 |

TOTAL AREA=7247571

MUL FACTOR=1.0000E+00

\* RUN # 487      APR 9, 1997 12:41:58  
START



RUN# 487      APR 9, 1997 12:41:58

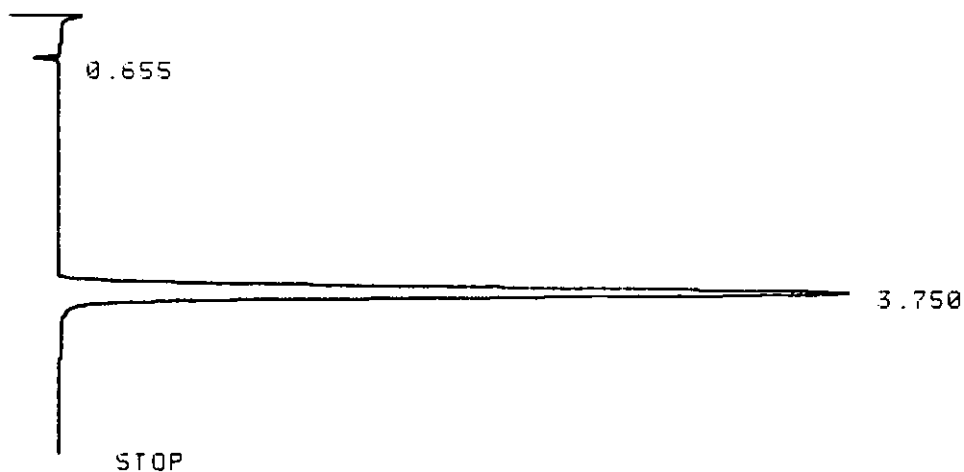
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.759 | 5592954 | PB   | 2    | 149.332 |

TOTAL AREA=5675523

MUL FACTOR=1.0000E+00

\* RUN # 488      APR 9, 1997 12:49:59  
START



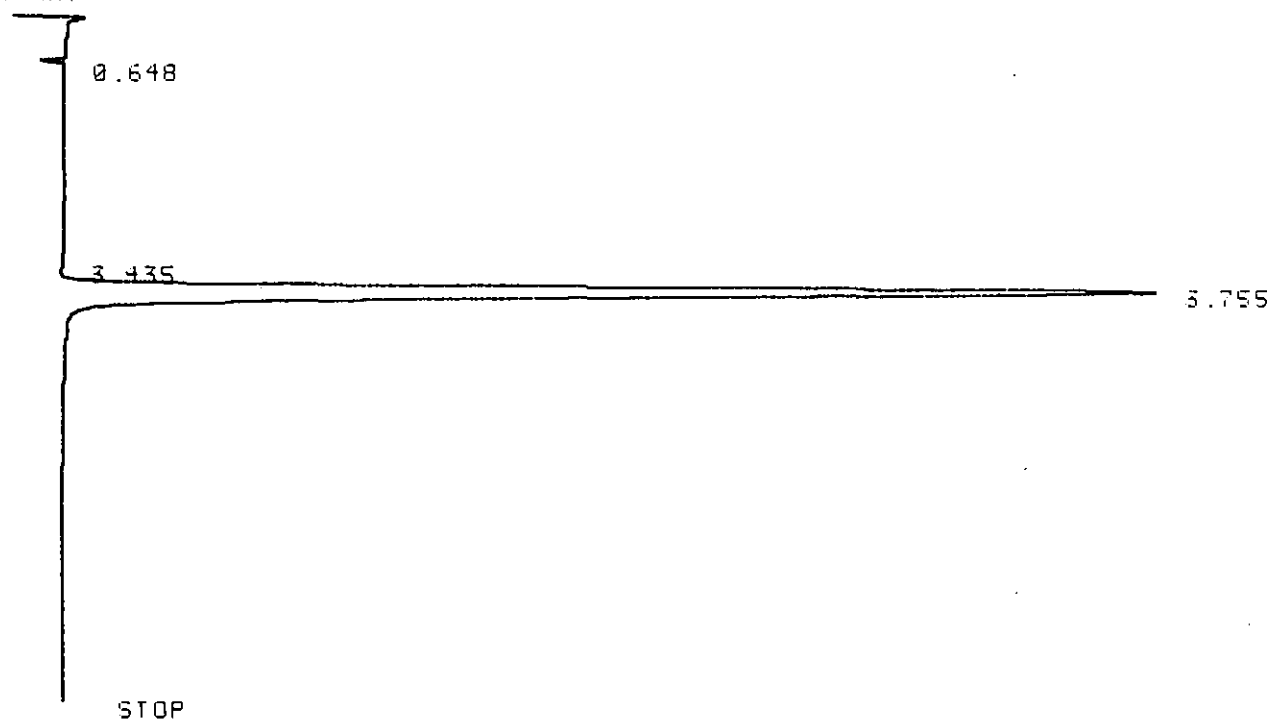
RUN# 488      APR 9, 1997 12:49:59

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 3.750 | 5599598 | PB   | 2    | 96.109 |

TOTAL AREA=3627675  
MUL FACTOR=1.0000E+00

\* RUN # 489      APR 9, 1997 12:56:44  
START



RUN# 489      APR 9, 1997 12:56:44

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.755 | 5009738 | PB   | 2    | 133.760 |

TOTAL AREA=5060669  
MUL FACTOR=1.0000E+00

\* RUN # 490      APR 9, 1997 13:07:21  
START

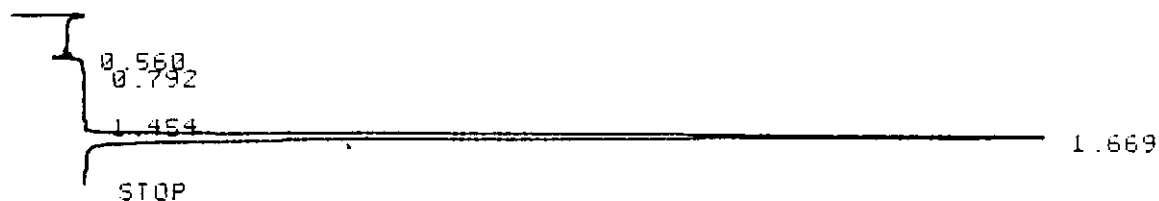


RUN# 490      APR 9, 1997 13:07:21

| ESTD-AREA | RT    | AREA    | TYPE | CAL# | AMOUNT |
|-----------|-------|---------|------|------|--------|
|           | 1.720 | 1590112 | UB   | 1    | 90.318 |

TOTAL AREA=1672227  
MUL FACTOR=1.0000E+00

\* RUN # 491 APR 9, 1997 13:12:04  
START

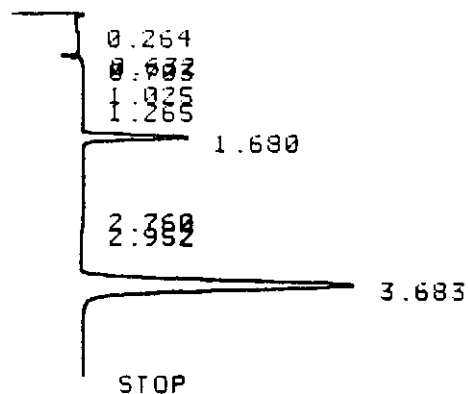


RUN# 491 APR 9, 1997 13:12:04

| ESTD-AREA | RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-----------|-------|---------|------|------|---------|
|           | 1.669 | 1901657 | UB   | 1    | 108.014 |

TOTAL AREA=2133915  
MUL FACTOR=1.0000E+00

\* RUN # 492 APR 9, 1997 13:21:43  
START



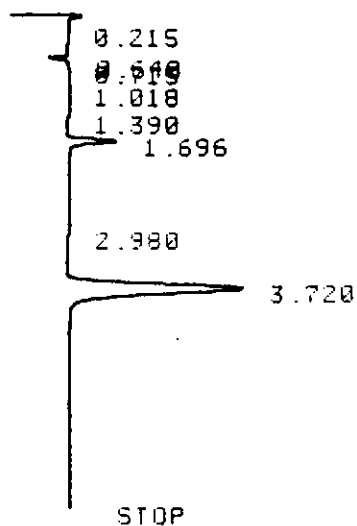
0409-02  
NMMMA-11-1

RUN# 492 APR 9, 1997 13:21:43

| ESTD-AREA | RT    | AREA    | TYPE | CAL# | AMOUNT |
|-----------|-------|---------|------|------|--------|
|           | 1.680 | 219655  | PB   | 1    | 12.476 |
|           | 3.683 | 1229537 | PB   | 2    | 32.829 |

TOTAL AREA=1621269  
MUL FACTOR=1.0000E+00

\* RUN # 493      APR 9, 1997 13:27:06  
START



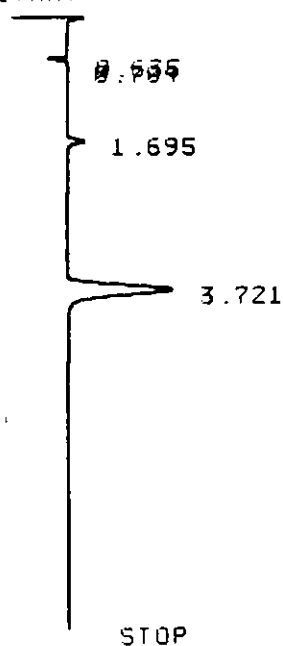
RUN# 493      APR 9, 1997 13:27:06

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.696 | 120716 | UB   | 1    | 6.857  |
| 3.720 | 802141 | PB   | 2    | 21.417 |

TOTAL AREA=1118223  
MUL FACTOR=1.0000E+00

\* RUN # 494      APR 9, 1997 13:34:30  
START





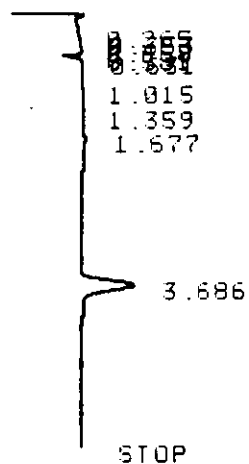
## ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.695 | 39620  | BB   | 1    | 2.250  |
| 3.721 | 484481 | PB   | 2    | 12.936 |

TOTAL AREA= 628627

MUL FACTOR=1.0000E+00

\* RUN # 495      APR 9, 1997 13:43:05  
START



RUN# 495      APR 9, 1997 13:43:05

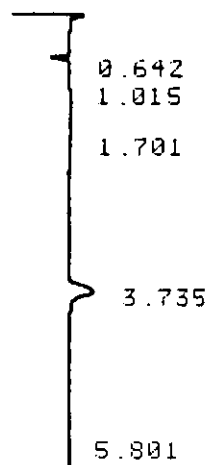
## ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.677 | 106130 | UU   | 1    | 6.028  |
| 3.686 | 251206 | UU   | 2    | 6.707  |

TOTAL AREA= 656523

MUL FACTOR=1.0000E+00

\* RUN # 496      APR 9, 1997 13:49:37  
START



STOP

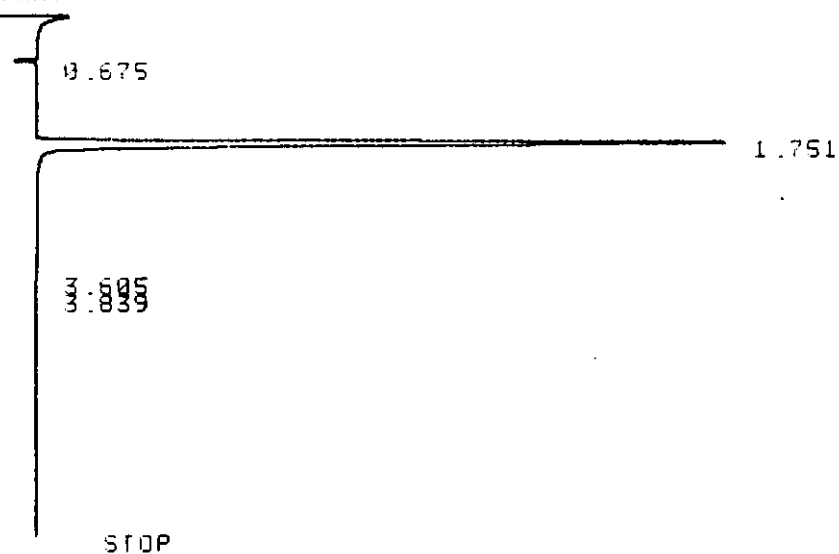
RUN# 496 APR 9, 1997 13:49:37

ESTO-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.701 | 91619  | UU   | 1    | 5.204  |
| 3.735 | 120633 | PU   | 2    | 3.221  |

TOTAL AREA= 305732  
MUL FACTOR=1.0000E+00

\* RUN # 497 APR 9, 1997 14:05:51  
START



RUN# 497 APR 9, 1997 14:05:51

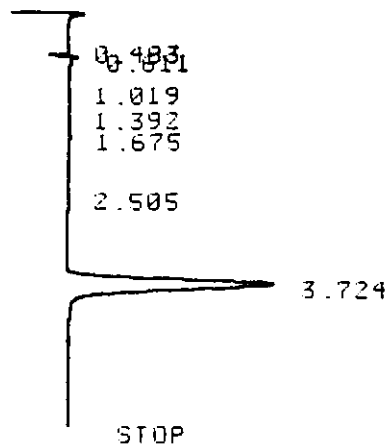
ESTO-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.751 | 1397687 | PB   | 1    | 79.389 |
| 3.605 | 4197    | UU   | 2    | .112   |

MUL FACTOR=1.0000E+00

\* RUN # 498 APR 9, 1997 14:22:08  
START

0409-03  
NMMA-K-IR



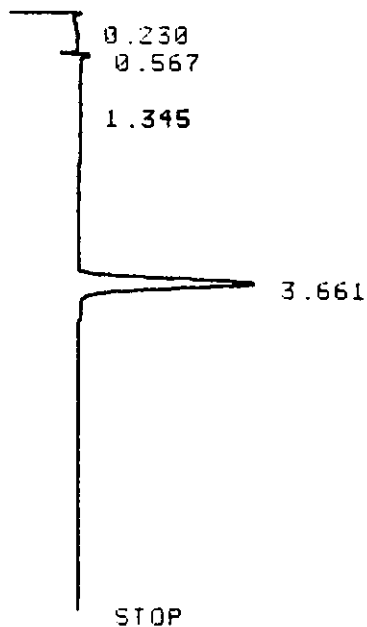
RUN# 498 APR 9, 1997 14:22:08

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.675 | 70687  | UU   | 1    | 4.015  |
| 3.724 | 963478 | UB   | 2    | 25.725 |

TOTAL AREA=1312030  
MUL FACTOR=1.0000E+00

\* RUN # 499 APR 9, 1997 14:28:18  
START



RUN# 499 APR 9, 1997 14:28:18

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 3.661 | 812727 | PU   | 2    | 21.700 |

TOTAL AREA= 936018  
MUL FACTOR=1.0000E+00

\* RUN # 500 APR 9, 1997 14:36:42  
START

0.378  
0.623  
1.691  
3.785  
STOP

RUN# 500 APR 9, 1997 14:36:42

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.691 | 34278  | UU   | 1    | 1.947  |
| 3.785 | 271584 | PU   | 2    | 7.251  |

TOTAL AREA= 369180  
MUL FACTOR=1.0000E+00

\* RUN # 501 APR 9, 1997 14:43:06  
START

0.218  
0.543  
1.585  
3.595

STOP

RUN# S01 APR 9, 1997 14:43:06

ESTD-AREA

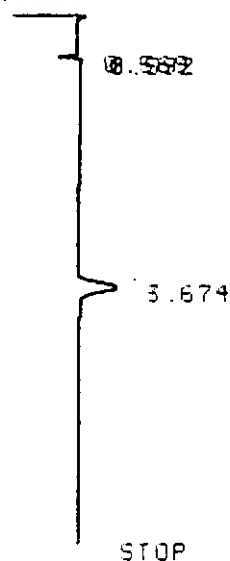
| RT    | AREA TYPE | CAL# | AMOUNT |
|-------|-----------|------|--------|
| 3.595 | 315506 PU | 2    | 8.424  |

TOTAL AREA= 434825

MUL FACTOR=1.0000E+00

\* RUN # S02 APR 9, 1997 14:51:34

START



RUN# S02 APR 9, 1997 14:51:34

ESTD-AREA

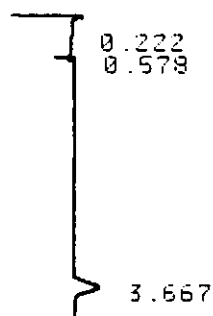
| RT    | AREA TYPE | CAL# | AMOUNT |
|-------|-----------|------|--------|
| 3.674 | 186096 PU | 2    | 4.969  |

TOTAL AREA= 235185

MUL FACTOR=1.0000E+00

\* RUN # S03 APR 9, 1997 14:59:43

START



28.110  
28.341

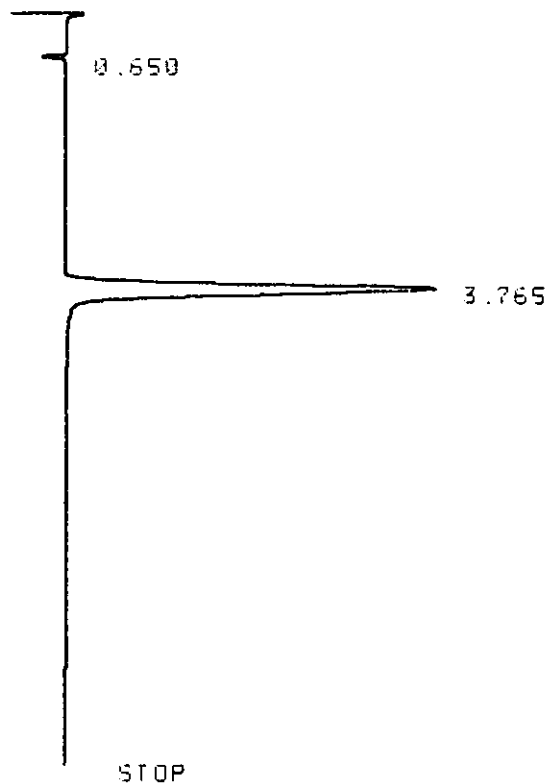
29.005

STOP

| ESTD-AREA |        |      |      |        |
|-----------|--------|------|------|--------|
| RT        | AREA   | TYPE | CAL# | AMOUNT |
| 3.667     | 125022 | PP   | 2    | 3.338  |

TOTAL AREA= 180827  
MUL FACTOR=1.0000E+00

\* RUN # 504      APR 9, 1997 15:31:21  
START

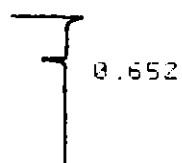


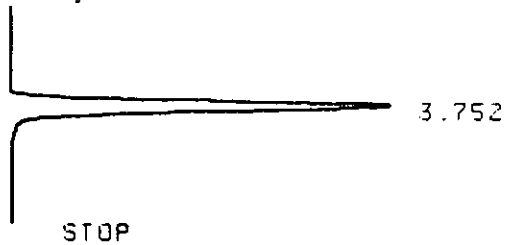
RUN# 504      APR 9, 1997 15:31:21

| ESTD-AREA |         |      |      |        |
|-----------|---------|------|------|--------|
| RT        | AREA    | TYPE | CAL# | AMOUNT |
| 3.765     | 1685064 | BB   | 2    | 44.991 |

TOTAL AREA=1775905  
MUL FACTOR=1.0000E+00

\* RUN # 505      APR 9, 1997 15:43:48  
START



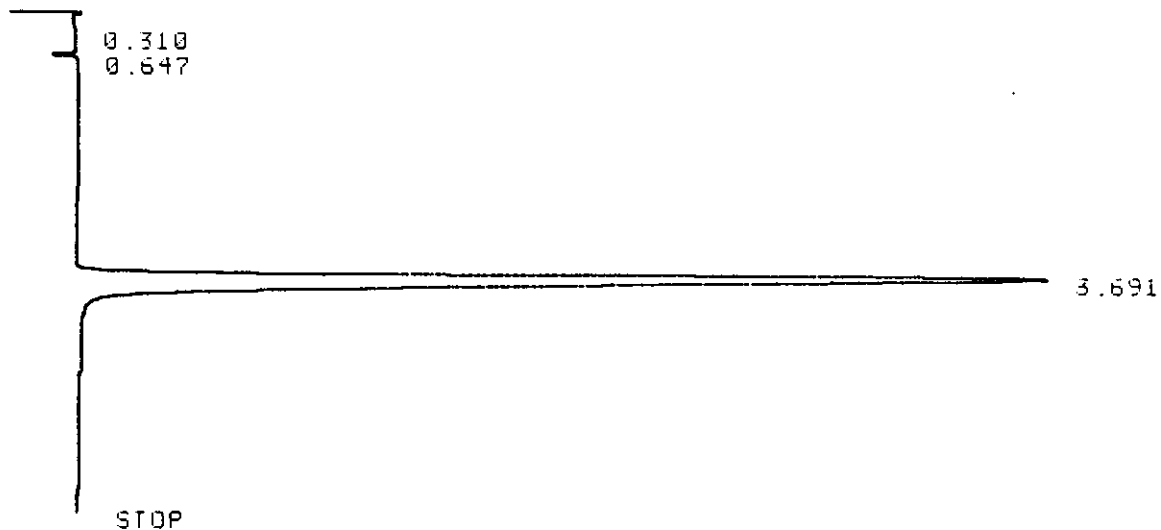


RUN# 505 APR 9, 1997 15:43:48

| ESTD-AREA | RT    | AREA    | TYPE | CAL# | AMOUNT |
|-----------|-------|---------|------|------|--------|
|           | 3.752 | 1747079 | PB   | 2    | 46.647 |

TOTAL AREA=1771284  
MUL FACTOR=1.0000E+00

\* RUN # 506 APR 9, 1997 15:53:07  
START

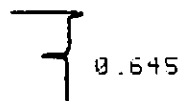


RUN# 506 APR 9, 1997 15:53:07

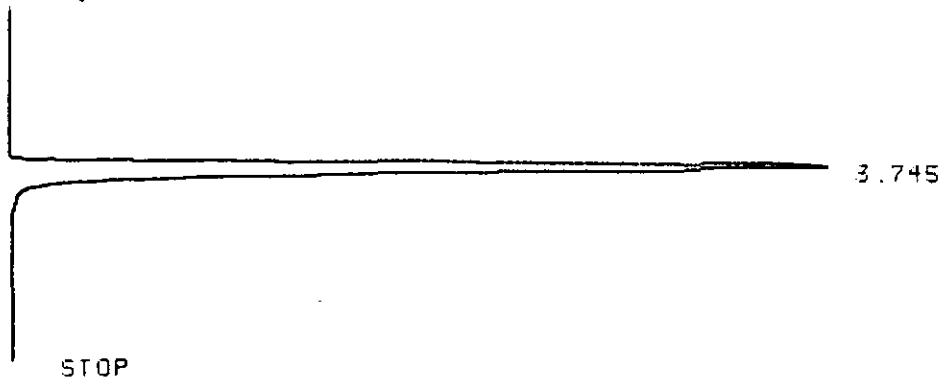
| ESTD-AREA | RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-----------|-------|---------|------|------|---------|
|           | 3.691 | 4422576 | PB   | 2    | 118.083 |

TOTAL AREA=4507885  
MUL FACTOR=1.0000E+00

\* RUN # 507 APR 9, 1997 16:01:22  
START







RUN# 507 APR 9, 1997 16:01:22

| ESTD-AREA | RT    | AREA TYPE  | CAL# | AMOUNT |
|-----------|-------|------------|------|--------|
|           | 3.745 | 3689314 PB | 2    | 98.505 |

TOTAL AREA=3734578  
MUL FACTOR=1.0000E+00

\* RUN # 508 APR 9, 1997 16:10:00  
START

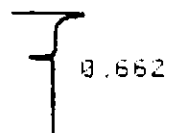


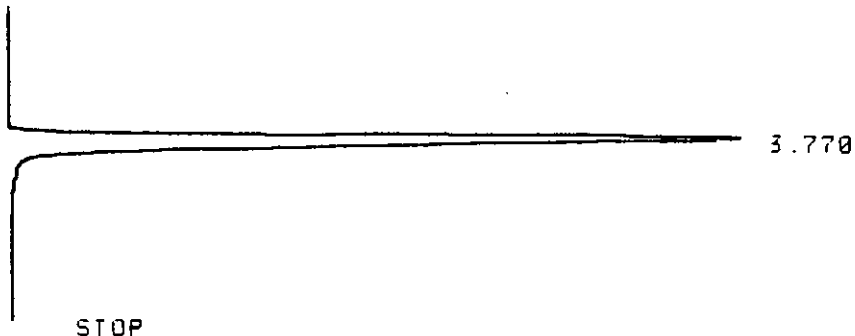
RUN# 508 APR 9, 1997 16:10:00

| ESTD-AREA | RT    | AREA TYPE  | CAL# | AMOUNT  |
|-----------|-------|------------|------|---------|
|           | 3.662 | 5092669 PB | 2    | 135.974 |

TOTAL AREA=5198032  
MUL FACTOR=1.0000E+00

\* RUN # 509 APR 9, 1997 16:19:53  
START



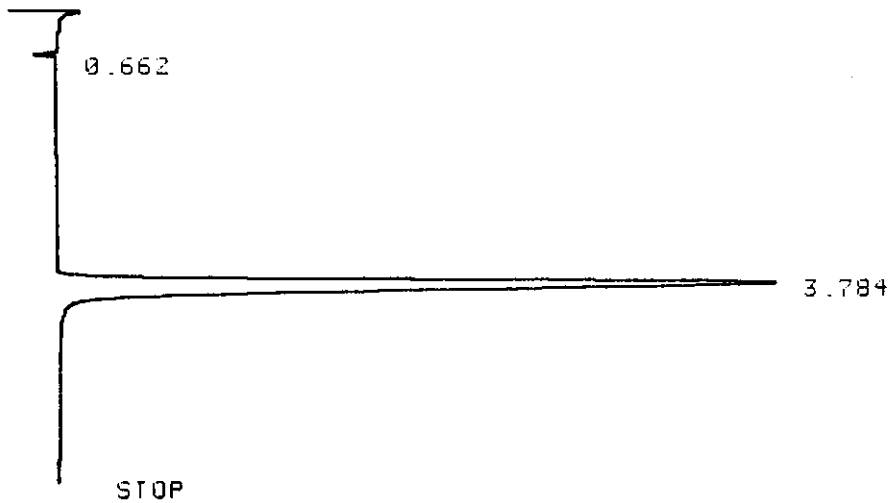


RUN# 509 APR 9, 1997 16:19:53

| ESTD-AREA |         |      |      |        |
|-----------|---------|------|------|--------|
| RT        | AREA    | TYPE | CAL# | AMOUNT |
| 3.770     | 3326622 | PB   | 2    | 88.821 |

TOTAL AREA=3359630  
MUL FACTOR=1.0000E+00

\* RUN # 510 APR 9, 1997 16:27:16  
START

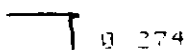


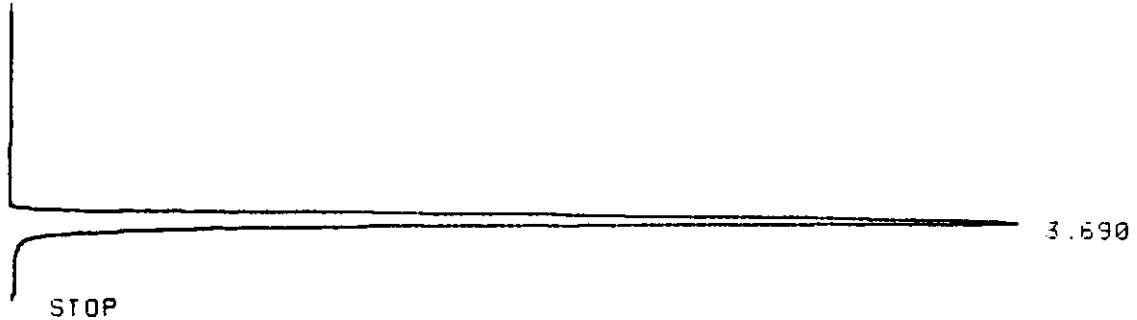
RUN# 510 APR 9, 1997 16:27:16

| ESTD-AREA |         |      |      |        |
|-----------|---------|------|------|--------|
| RT        | AREA    | TYPE | CAL# | AMOUNT |
| 3.784     | 3280230 | PB   | 2    | 87.582 |

TOTAL AREA=3337773  
MUL FACTOR=1.0000E+00

\* RUN # 511 APR 9, 1997 16:35:08  
START





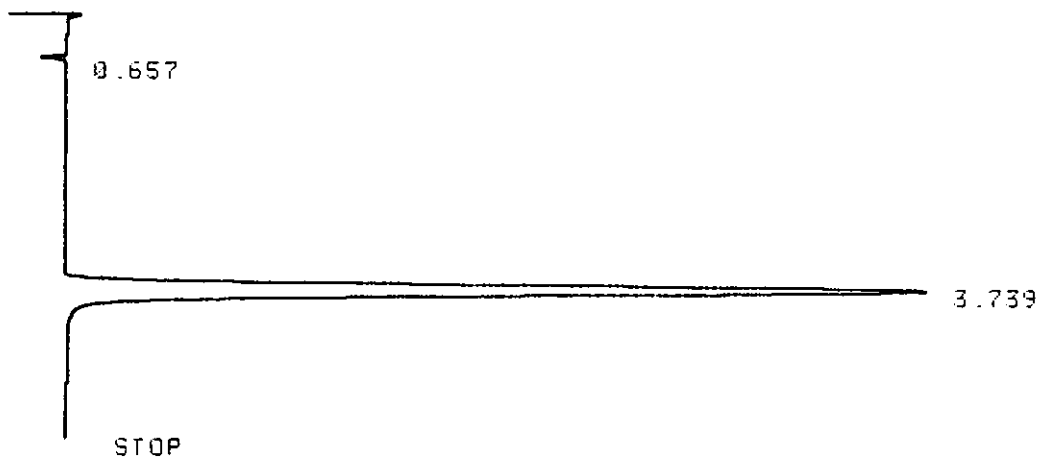
RUN# 511 APR 9, 1997 16:35:08

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.690 | 4567085 | BB   | 2    | 121.941 |

TOTAL AREA=4678758  
MUL FACTOR=1.0000E+00

\* RUN # 512 APR 9, 1997 16:40:47  
START



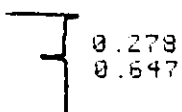
RUN# 512 APR 9, 1997 16:40:47

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 3.739 | 3934922 | PB   | 2    | 105.062 |

TOTAL AREA=3993888  
MUL FACTOR=1.0000E+00

\* RUN # 513 APR 9, 1997 16:50:48  
START



2.216

3.386

3.683

STOP

RUN# 513 APR 9, 1997 16:50:48

ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT  |
|-------|------------|------|---------|
| 3.683 | 4775210 PB | 2    | 127.498 |

TOTAL AREA=4907293

MUL FACTOR=1.0000E+00

\* RUN # 514 APR 9, 1997 17:01:01  
START

0.645

1.587

1.791

2.245

3.771

STOP

RUN# 514 APR 9, 1997 17:01:01

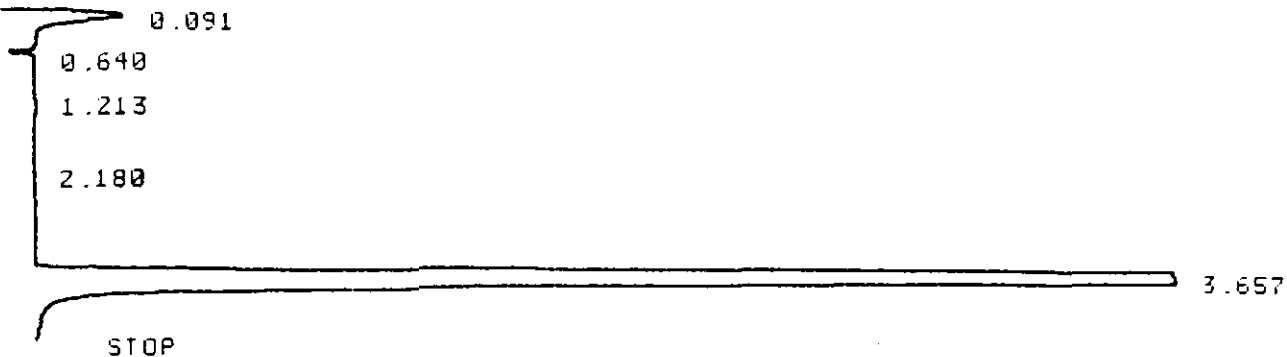
ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT  |
|-------|------------|------|---------|
| 3.771 | 7759987 PB | 2    | 207.192 |

TOTAL AREA=7948659

MUL FACTOR=1.0000E+00

• RUN # 515 APR 9, 1997 17:06:17  
START

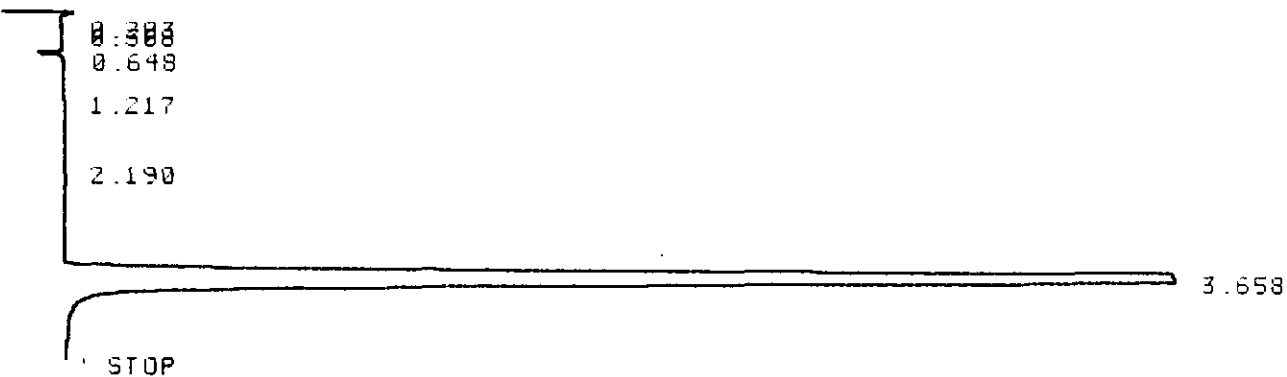


RUN# 515 APR 9, 1997 17:06:17

ESTD-AREA  
RT AREA TYPE CAL# AMOUNT  
3.657 11547248 PB 2 308.312

TOTAL AREA=1.1864E+07  
MUL FACTOR=1.0000E+00

\* RUN # 516 APR 9, 1997 17:12:17  
START



RUN# 516 APR 9, 1997 17:12:17

ESTD-AREA  
RT AREA TYPE CAL# AMOUNT  
3.658 8444429 PB 2 225.466

TOTAL AREA=8.5556E+06  
MUL FACTOR=1.0000E+00

\* RUN # 517 APR 9, 1997 17:18:46  
START

T

2.210

3.714

STOP

RUN# 517 APR 9, 1997 17:18:46

ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT  |
|-------|------------|------|---------|
| 3.714 | 6681344 PB | 2    | 178.392 |

TOTAL AREA=6748573

MUL FACTOR=1.0000E+00

\* RUN # 518 APR 9, 1997 17:24:20

START

0.222

0.638

1.339

3.638

STOP

RUN# 518 APR 9, 1997 17:24:20

ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT  |
|-------|------------|------|---------|
| 3.638 | 9284096 PB | 2    | 247.885 |

TOTAL AREA=9.4546E+06

MUL FACTOR=1.0000E+00

\* RUN # 519 APR 9, 1997 17:33:09

START

1.491

1.704

2.506  
STOP

RUN# 519 APR 9, 1997 17:33:09

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.704 | 1943851 | PB   | 1    | 110.411 |

TOTAL AREA=2241490  
MUL FACTOR=1.0000E+00

\* RUN # 520 APR 9, 1997 17:43:34  
START

0.659

1.713

3.385  
STOP

RUN# 520 APR 9, 1997 17:43:34

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.713 | 1918447 | PB   | 1    | 108.968 |
| 3.767 | 5583    | I UH | 2    | .149    |

TOTAL AREA=1994896  
MUL FACTOR=1.0000E+00

\*

4/9/97

Cal = 0409A.CAL - Outlet looks bad

Recal outlet = 0409B.CAL

- Outlet THC reads (output) slightly lower @ cal mode vs run causing a bias (high @ DAS) in span. (beg cal @ 9.14, check in run 9.14 = 930)
- Pretest run "Old 204 Styrene" = 3 day old bag through entire system
  - 1<sup>st</sup> time analysed through system
  - Ran gas out, bad data @ end of run
- 122 Styrene bias/RF - Pretest RF = 2.45
- 204 Styrene bias/RF - Pretest RF = 2.40

$$\left. \begin{array}{l} \text{RF} = 2.45 \\ \text{RF} = 2.40 \end{array} \right\} = 2.43$$

Styrene audit performed

THC = 85.6 ppm

Styrene = 35.2 ppm  $\pm 1.03\%$ 

Actual = 42.8 ppm

-16%

$$85.6 / 2.43 = C_{\text{styrene}}$$

Start 0409-01 @ 0951 = NIMM-1-2

18' hull, 35% resin

Lamination started 0953 (skin coat)

Initial resin = 300.8

Boat flipped @ 1000

Skin done @ 1012 except for roll out

Lamination on @ 1045, 1/2 done ~ 1055

Lamination restart 1115

Lam. done ~ 1130 - 1137

Final resin = 164.5

Net Resin = 136.3 = 47.7# Styrene

End run 1219

THC = 129.8

 $\Theta = 144^\circ$



(2) 83

4/9/97 0409-1 cont

Flows @ 1156 DAS: 0.22  $\Delta P$  done 1202

H8 .20

V8 .17

Ts = 67

7 .24

7 .21

Pb = 30.26

RH = 53 @ 61

6 .24

6 .21

Static = -3.1

5 .24

5 .21

ACFM = 3194

4 .21

4 .24

THC = 129.8  $\approx$  6.6 # STYRENE = 13.9% Total

3 .21

3 .24

 $\Theta = 144''$  147

2 .19

2 .23

# Styrene avail = 47.7

1 .17

1 .14

- Propane Audit THC = 1004.4 ppm

999 actual

- Styrene Audit 2 = Styrene introduced as sample (vented cylinder)

STYRENE = 36.4 (THC = 88.4)

\* 0409-02 on line 1314 = MMA-11-1 CFA gel coat

Initial Resin = 281.9

Gel on @ 1317, done 1322

Flow @ 1338 DAS: 0.20  $\Delta P$  Done 1343

#8 .20

.17

Ts = 73

7 .22

.19

Pb = 30.26

RH = 41 @ 71

6 .23

.20

Static = -3.2

5 .22

.21

ACFM = 3158

4 .20

.22

THC = 38.4 = .56 # styrene = 48% loss

3 .20

.22

 $\Theta = 42''$ 

2 .20

.21

1 .18

.18

Final resin 278.5 Net = 3.4 #  $\Rightarrow$  1.19 # STY. Avail.

(3) 163

4/9/97 cont.

- Online 0409-3 @ 1410 = NMMA-11-1R 35% Resin CFA mold
- Initial resin = 24.7 173.98
- Skin on @ 1420 off ~1424
- Final resin = 170.7
- Run ended 1530

$$\overline{\text{THC}} : 25.7 = .41 \# \text{ Styrene} = 12.3\% \quad \begin{array}{l} \text{with of CFA} \\ \# \text{ Styrene} \\ \rightarrow = \# \text{ Room} \end{array}$$

$$Q = 31.58$$

$$\text{Resin} = 3.3$$

$$\Theta = 45^\circ$$

- Both CFA <sup>test</sup> runs were done w/ <sup>un</sup>controlled spray. The CFA study used uncontrolled spray making NMMA-11-1R suspect



### DECLARATION SUMMARY

04-09-1997 07:52:52

CALIBRATION FILE NAME = c:\ceadata\0409b.CAL

| Chan. | Name  | Units | Zero  | Span  | Slope | Int.   |
|-------|-------|-------|-------|-------|-------|--------|
|       |       |       | Conc. | Conc. |       |        |
|       |       |       | Reso. | Reso. |       |        |
| 1     | THC o | ppm   | 0     | 914   | 9.1   | 100.5  |
| 2     | THC i | ppm   | 0     | 45.5  | 9.2   | 4.96   |
| 3     | Flow  | inH2O | 0     | .4    | 3.2   | 1.97   |
| 4     | Temp  | F     | 32    | 212   | 3.3   | 137.51 |
| 5     | Resin | lb    | 0     | 600   | 4.3   | 212.27 |

## RADIANT CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-09-1997 Current Time = 07:58:32

File Name = c:\cemdata\040997.PRN Calibration File: c:\cemdata\0409b.CAL

Test #: Pre out 600 in 30.4

| 04-09-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 07:58:34           | 601.9        | 30.6         | 0.0           | 61.8      | -1172.8     |
| 07:58:35           | 601.9        | 30.6         | 0.0           | 61.8      | -1172.8     |
| 07:58:45           | 600.5        | 30.6         | 0.0           | 61.6      | -1146.5     |
| 07:58:55           | 600.6        | 30.5         | 0.0           | 61.5      | -1144.6     |
| 07:59:05           | 599.1        | 30.5         | 0.0           | 61.5      | -1145.1     |
| 07:59:15           | 599.3        | 30.5         | 0.0           | 61.5      | -1144.5     |
| 07:59:25           | 601.8        | 30.5         | 0.0           | 61.7      | -1144.5     |
| 07:59:35           | 601.4        | 30.5         | 0.0           | 61.7      | -1144.7     |
| 07:59:45           | 601.8        | 30.5         | 0.0           | 61.6      | -1145.2     |
| 07:59:55           | 600.9        | 30.5         | 0.0           | 61.4      | -1144.8     |
| 08:00:05           | 601.9        | 30.4         | 0.0           | 61.5      | -1144.5     |
| 08:00:15           | 601.3        | 30.4         | 0.0           | 61.5      | -1144.4     |
| 08:00:25           | 601.0        | 30.5         | 0.0           | 61.4      | -1145.2     |
| 08:00:35           | 601.5        | 30.4         | 0.0           | 61.4      | -1144.8     |
| 08:00:45           | 600.8        | 30.4         | 0.0           | 61.4      | -1145.1     |
| 08:00:55           | 601.5        | 30.5         | 0.0           | 61.4      | -1145.0     |
| 08:01:05           | 602.1        | 30.4         | 0.0           | 61.4      | -1145.1     |
| Avg =              | 601.1        | 30.5         | 0.0           | 61.5      | -1148.3     |

## RADIANT CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-09-1997 Current Time = 08:06:36

File Name = c:\ce\data\040997.PRN Calibration File: c:\ce\data\0409b.CAL

Test #: Pre out 297 in 15.0

| 04-09-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 08:06:39           | 295.1        | 15.2         | 0.0           | 61.3      | -1145.3     |
| 08:06:41           | 295.1        | 15.2         | 0.0           | 61.3      | -1145.3     |
| 08:06:45           | 295.1        | 15.1         | 0.0           | 61.2      | -1156.4     |
| 08:06:55           | 295.1        | 15.1         | 0.0           | 61.2      | -1142.4     |
| 08:07:05           | 294.2        | 15.1         | 0.0           | 61.4      | -1143.7     |
| 08:07:15           | 294.6        | 15.0         | 0.0           | 61.4      | -1143.0     |
| 08:07:25           | 295.1        | 15.1         | 0.0           | 61.4      | -1143.3     |
| 08:07:35           | 294.3        | 15.1         | 0.0           | 61.4      | -1143.3     |
| 08:07:45           | 294.1        | 15.0         | 0.0           | 61.2      | -1143.7     |
| 08:07:55           | 294.1        | 15.0         | 0.0           | 61.2      | -1142.7     |
| 08:08:05           | 294.1        | 15.0         | 0.0           | 61.1      | -1143.0     |
| 08:08:15           | 294.6        | 15.0         | 0.0           | 61.1      | -1142.7     |
| 08:08:25           | 294.6        | 15.0         | 0.0           | 61.1      | -1143.1     |
| Avg =              | 294.6        | 15.1         | 0.0           | 61.2      | -1144.5     |

## RADIANT CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-09-1997 Current Time = 08:17:35

File Name = c:\cemdata\040997.PRW Calibration File:c:\cemdata\0409b.CAL

Test #: Old 204 styrene

| 04-09-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
|--------------------|--------------|--------------|---------------|-----------|-------------|

|          |       |     |     |      |         |
|----------|-------|-----|-----|------|---------|
| 08:17:39 | 343.8 | 7.3 | 0.2 | 53.7 | -1143.6 |
| 08:17:41 | 343.8 | 7.3 | 0.2 | 53.7 | -1143.6 |
| 08:17:45 | 344.3 | 7.5 | 0.2 | 53.4 | -1157.1 |
| 08:17:55 | 344.7 | 7.5 | 0.2 | 53.3 | -1142.8 |
| 08:18:05 | 344.8 | 7.5 | 0.2 | 53.3 | -1142.8 |
| 08:18:15 | 344.8 | 7.4 | 0.2 | 53.4 | -1138.1 |
| 08:18:25 | 345.3 | 7.4 | 0.2 | 53.4 | -1142.5 |
| 08:18:35 | 345.3 | 7.4 | 0.2 | 53.4 | -1142.8 |
| 08:18:45 | 335.9 | 7.4 | 0.2 | 53.5 | -1143.7 |
| 08:18:55 | 244.9 | 7.4 | 0.2 | 53.5 | -1144.6 |
| 08:19:05 | 75.1  | 7.3 | 0.2 | 53.6 | -1143.7 |
| 08:19:15 | 67.8  | 7.2 | 0.2 | 53.7 | -1146.3 |
| 08:19:25 | 63.9  | 7.1 | 0.2 | 53.9 | -1146.6 |
| 08:19:35 | 61.1  | 7.2 | 0.2 | 53.9 | -1146.9 |
| 08:19:45 | 58.9  | 7.2 | 0.2 | 54.1 | -1146.5 |

|       |       |     |     |      |         |
|-------|-------|-----|-----|------|---------|
| Avg = | 244.3 | 7.3 | 0.2 | 53.6 | -1144.7 |
|-------|-------|-----|-----|------|---------|

## RADIANT CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-09-1997 Current Time = 08:24:06

File Name = c:\cemdata\040997.PRM Calibration File: c:\cemdata\0409b.CAL

Test #: 122 styrene

| 04-09-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 08:24:10           | 299.0        | 7.3          | 0.2           | 56.0      | -1149.6     |
| 08:24:12           | 299.0        | 7.3          | 0.2           | 56.0      | -1149.6     |
| 08:24:15           | 300.2        | 7.1          | 0.2           | 56.0      | -1145.9     |
| 08:24:25           | 300.2        | 7.3          | 0.2           | 56.0      | -1143.5     |
| 08:24:35           | 300.2        | 7.4          | 0.2           | 56.1      | -1143.7     |
| 08:24:45           | 300.2        | 7.3          | 0.2           | 56.2      | -1143.7     |
| 08:24:55           | 300.1        | 7.3          | 0.2           | 56.2      | -1140.3     |
| 08:25:05           | 300.2        | 7.3          | 0.2           | 56.2      | -1144.3     |
| 08:25:15           | 299.8        | 7.2          | 0.2           | 56.1      | -1143.7     |
| 08:25:25           | 300.2        | 7.3          | 0.2           | 56.0      | -1143.5     |
| 08:25:35           | 300.2        | 7.3          | 0.2           | 56.2      | -1143.4     |
| 08:25:45           | 300.2        | 7.3          | 0.2           | 56.1      | -1143.9     |
| 08:25:55           | 300.2        | 7.3          | 0.2           | 56.2      | -1143.4     |
| 08:26:05           | 300.2        | 7.3          | 0.2           | 56.1      | -1143.1     |
| 08:26:15           | 300.2        | 7.2          | 0.2           | 56.0      | -1144.0     |
| 08:26:25           | 299.2        | 7.2          | 0.2           | 55.9      | -1143.7     |
| 08:26:35           | 300.6        | 7.2          | 0.2           | 55.9      | -1143.9     |
| 08:26:45           | 300.5        | 7.2          | 0.2           | 55.8      | -1144.1     |
| 08:26:55           | 300.2        | 7.3          | 0.2           | 55.6      | -1144.4     |
| 08:27:05           | 300.2        | 7.3          | 0.2           | 55.6      | -1143.4     |
| 08:27:15           | 300.2        | 7.2          | 0.2           | 55.5      | -1144.1     |
| 08:27:25           | 300.2        | 7.2          | 0.2           | 55.5      | -1143.9     |
| 08:27:35           | 300.1        | 7.1          | 0.2           | 55.5      | -1144.0     |
| 08:27:45           | 300.2        | 7.2          | 0.2           | 55.5      | -1144.4     |
| 08:27:55           | 300.2        | 7.2          | 0.2           | 55.6      | -1144.0     |
| 08:28:05           | 299.6        | 7.1          | 0.2           | 55.7      | -1143.8     |
| 08:28:15           | 300.2        | 7.2          | 0.2           | 55.8      | -1144.0     |
| 08:28:25           | 300.2        | 7.2          | 0.2           | 55.8      | -1144.4     |
| 08:28:35           | 300.2        | 7.2          | 0.2           | 55.7      | -1144.1     |
| 08:28:45           | 300.2        | 7.2          | 0.2           | 55.6      | -1144.3     |
| Avg =              | 300.1        | 7.2          | 0.2           | 55.9      | -1144.9     |



## RADIANT CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-09-1997 Current Time = 08:54:00

File Name = c:\cemdata\040997.PRM Calibration File: c:\cemdata\0409b.CAL

Test #: 204 styrene

| 04-09-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 08:54:07           | 488.3        | 4.7          | 0.2           | 62.5      | -1151.6     |
| 08:54:09           | 488.3        | 4.7          | 0.2           | 62.5      | -1151.6     |
| 08:54:15           | 490.4        | 4.7          | 0.2           | 62.6      | -1149.4     |
| 08:54:25           | 490.4        | 4.7          | 0.2           | 62.6      | -1143.5     |
| 08:54:35           | 490.4        | 4.7          | 0.2           | 62.7      | -1144.6     |
| 08:54:45           | 490.4        | 4.7          | 0.2           | 62.7      | -1139.5     |
| 08:54:55           | 490.4        | 4.6          | 0.2           | 62.7      | -1139.5     |
| 08:55:05           | 490.5        | 4.6          | 0.2           | 62.8      | -1143.5     |
| 08:55:15           | 490.4        | 4.6          | 0.2           | 62.8      | -1141.2     |
| 08:55:25           | 490.5        | 4.5          | 0.2           | 62.8      | -1145.4     |
| 08:55:35           | 490.4        | 4.6          | 0.2           | 62.8      | -1145.1     |
| 08:55:45           | 490.4        | 4.6          | 0.2           | 62.8      | -1144.1     |
| 08:55:55           | 491.1        | 4.6          | 0.2           | 62.8      | -1144.5     |
| 08:56:05           | 490.7        | 4.4          | 0.2           | 62.8      | -1145.1     |
| 08:56:15           | 490.4        | 4.4          | 0.2           | 62.8      | -1146.2     |
| 08:56:25           | 490.7        | 4.5          | 0.2           | 62.7      | -1146.1     |
| 08:56:35           | 491.4        | 4.5          | 0.2           | 62.7      | -1145.6     |
| 08:56:45           | 490.5        | 4.5          | 0.2           | 62.7      | -1140.7     |
| 08:56:55           | 490.4        | 4.5          | 0.2           | 62.7      | -1146.1     |
| 08:57:05           | 490.3        | 4.6          | 0.2           | 62.8      | -1138.7     |
| 08:57:15           | 490.4        | 4.6          | 0.2           | 62.8      | -1145.4     |
| Avg =              | 490.3        | 4.6          | 0.2           | 62.7      | -1144.6     |

## RADIANT CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, MA

Performed for: NMMA

Date Printed = 04-09-1997 Current Time = 09:28:42

File Name = c:\cemdata\040997.PRM Calibration File: c:\cemdata\0409b.CAL

Test #: Styrene audit

| 04-09-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 09:28:45           | 85.6         | 4.6          | 0.2           | 64.9      | -1154.4     |
| 09:28:47           | 85.6         | 4.6          | 0.2           | 64.9      | -1154.4     |
| 09:28:55           | 85.6         | 4.5          | 0.2           | 65.1      | -1149.7     |
| 09:29:05           | 85.6         | 4.5          | 0.2           | 65.1      | -1146.4     |
| 09:29:15           | 85.6         | 4.5          | 0.2           | 65.0      | -1146.5     |
| 09:29:25           | 85.7         | 4.5          | 0.2           | 65.0      | -1146.2     |
| 09:29:35           | 85.6         | 4.5          | 0.2           | 65.2      | -1146.6     |
| 09:29:45           | 85.7         | 4.5          | 0.2           | 65.2      | -1146.4     |
| 09:29:55           | 85.7         | 4.5          | 0.2           | 65.3      | -1146.4     |
| 09:30:05           | 85.6         | 4.5          | 0.2           | 65.3      | -1146.8     |
| 09:30:15           | 85.7         | 4.5          | 0.2           | 65.4      | -1146.6     |
| 09:30:25           | 85.6         | 4.5          | 0.2           | 65.4      | -1146.4     |
| 09:30:35           | 85.7         | 4.5          | 0.2           | 65.5      | -1146.6     |
| 09:30:45           | 85.6         | 4.5          | 0.2           | 65.6      | -1146.7     |
| 09:30:55           | 85.7         | 4.5          | 0.2           | 65.6      | -1146.4     |
| 09:31:05           | 85.6         | 4.5          | 0.2           | 65.6      | -1146.9     |
| 09:31:15           | 85.7         | 4.5          | 0.2           | 65.6      | -1146.7     |
| 09:31:25           | 85.6         | 4.5          | 0.2           | 65.6      | -1147.1     |
| 09:31:35           | 85.7         | 4.6          | 0.2           | 65.6      | -1146.7     |
| 09:31:45           | 85.7         | 4.5          | 0.2           | 65.7      | -1146.7     |
| 09:31:55           | 85.6         | 4.5          | 0.2           | 65.7      | -1146.5     |
| 09:32:05           | 85.7         | 4.5          | 0.2           | 65.7      | -1146.7     |
| 09:32:15           | 85.6         | 4.5          | 0.2           | 65.7      | -1142.7     |
| 09:32:25           | 85.6         | 4.6          | 0.2           | 65.7      | -1146.7     |
| 09:32:35           | 85.7         | 4.6          | 0.2           | 65.7      | -1146.6     |
| 09:32:45           | 85.6         | 4.6          | 0.2           | 65.8      | -1146.3     |
| Avg =              | 85.6         | 4.5          | 0.2           | 65.4      | -1147.2     |

RADIAN CORPORATION  
Environmental Measurement and Analysis Department  
Continuous Emissions Monitoring Data  
US Marine  
Arlington, WA  
Performed for: NMMA  
Date Printed = 04-09-1997 Current Time = 09:51:44  
File Name = c:\cemdata\040997.PRM Calibration File: c:\cemdata\0409b.CAL

0409-1  
NMMA-1-2

Test #: 0409-1

| 04-09-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 09:51:56           | 1.7          | 3.8          | 0.2           | 65.5      | 300.7       |
| 09:52:56           | 1.9          | 3.6          | 0.2           | 65.7      | 300.7       |
| 09:53:56           | 41.1         | 3.5          | 0.2           | 65.8      | 297.7       |
| 09:54:56           | 138.4        | 3.3          | 0.2           | 65.8      | 291.5       |
| 09:55:56           | 215.6        | 3.2          | 0.2           | 65.6      | 286.4       |
| 09:56:56           | 181.3        | 3.1          | 0.2           | 65.7      | 282.9       |
| 09:57:56           | 201.4        | 3.0          | 0.2           | 65.7      | 279.7       |
| 09:58:56           | 259.7        | 3.0          | 0.2           | 65.7      | 273.6       |
| 09:59:56           | 261.3        | 2.9          | 0.2           | 65.7      | 270.7       |
| 10:00:56           | 180.2        | 2.9          | 0.2           | 65.5      | 271.0       |
| 10:01:56           | 165.3        | 2.8          | 0.2           | 65.6      | 271.7       |
| 10:02:56           | 149.6        | 2.7          | 0.2           | 65.6      | 272.7       |
| 10:03:56           | 144.7        | 2.7          | 0.2           | 65.8      | 272.7       |
| 10:04:56           | 155.0        | 2.6          | 0.2           | 65.7      | 269.7       |
| 10:05:56           | 172.6        | 2.6          | 0.2           | 65.8      | 268.7       |
| 10:06:56           | 218.5        | 2.6          | 0.2           | 65.9      | 262.9       |
| 10:07:56           | 291.9        | 2.6          | 0.2           | 66.0      | 258.7       |
| 10:08:56           | 335.7        | 2.6          | 0.2           | 66.2      | 251.2       |
| 10:09:56           | 373.5        | 2.6          | 0.2           | 66.3      | 245.8       |
| 10:10:56           | 392.8        | 2.5          | 0.2           | 66.4      | 242.8       |
| 10:11:56           | 308.3        | 2.5          | 0.2           | 66.6      | 242.7       |
| 10:12:56           | 259.0        | 2.4          | 0.2           | 66.6      | 242.7       |
| 10:13:56           | 230.2        | 2.4          | 0.2           | 66.4      | 242.7       |
| 10:14:56           | 199.9        | 2.4          | 0.2           | 66.3      | 242.7       |
| 10:15:56           | 191.9        | 2.4          | 0.2           | 66.2      | 242.7       |
| 10:16:56           | 187.9        | 2.4          | 0.2           | 66.5      | 242.7       |
| 10:17:56           | 184.4        | 2.4          | 0.2           | 66.7      | 242.7       |
| 10:18:56           | 161.8        | 2.4          | 0.2           | 66.8      | 242.7       |
| 10:19:56           | 146.8        | 2.4          | 0.2           | 66.7      | 242.7       |
| 10:20:56           | 136.8        | 2.5          | 0.2           | 66.8      | 242.7       |
| 10:21:56           | 126.5        | 2.5          | 0.2           | 66.9      | 242.7       |
| 10:22:56           | 121.8        | 2.5          | 0.2           | 67.0      | 242.7       |
| 10:23:56           | 110.7        | 2.5          | 0.2           | 66.9      | 242.7       |
| 10:24:56           | 103.0        | 2.5          | 0.2           | 66.8      | 242.7       |
| 10:25:56           | 94.2         | 2.5          | 0.2           | 66.7      | 242.7       |
| 10:26:56           | 66.7         | 2.5          | 0.2           | 66.5      | 242.7       |
| 10:27:56           | 89.3         | 2.4          | 0.2           | 66.5      | 242.7       |
| 10:28:56           | 81.5         | 2.4          | 0.2           | 66.3      | 242.7       |
| 10:29:56           | 80.0         | 2.3          | 0.2           | 66.1      | 242.7       |
| 10:30:56           | 61.3         | 2.3          | 0.2           | 66.0      | 242.7       |

Test #: 0409-1

| 04-09-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 10:31:56           | 79.2         | 2.2          | 0.2           | 66.1      | 242.        |
| 10:32:56           | 76.7         | 2.2          | 0.2           | 66.1      | 242.7       |
| 10:33:56           | 73.8         | 2.1          | 0.2           | 66.0      | 242.6       |
| 10:34:56           | 68.3         | 2.1          | 0.2           | 65.8      | 242.8       |
| 10:35:56           | 72.0         | 2.1          | 0.2           | 65.9      | 242.8       |
| 10:36:56           | 73.1         | 2.0          | 0.2           | 66.1      | 242.8       |
| 10:37:56           | 67.9         | 2.0          | 0.2           | 66.2      | 242.8       |
| 10:38:56           | 67.5         | 2.0          | 0.2           | 66.2      | 242.8       |
| 10:39:56           | 66.9         | 2.0          | 0.2           | 66.3      | 242.8       |
| 10:40:56           | 65.5         | 1.9          | 0.2           | 66.3      | 242.8       |
| 10:41:56           | 62.4         | 2.0          | 0.2           | 66.1      | 242.8       |
| 10:42:56           | 39.3         | 2.0          | 0.2           | 64.3      | 242.7       |
| 10:43:56           | 47.6         | 1.9          | 0.2           | 63.5      | 243.8       |
| 10:44:56           | 64.9         | 1.9          | 0.2           | 64.5      | 243.9       |
| 10:45:56           | 70.1         | 1.8          | 0.2           | 65.1      | 243.9       |
| 10:46:56           | 112.2        | 1.8          | 0.2           | 65.8      | 239.7       |
| 10:47:56           | 165.6        | 1.8          | 0.2           | 65.9      | 235.0       |
| 10:48:56           | 192.0        | 1.7          | 0.2           | 65.6      | 230.4       |
| 10:49:56           | 256.6        | 1.7          | 0.2           | 65.7      | 225.0       |
| 10:50:56           | 246.1        | 1.7          | 0.2           | 65.6      | 222.5       |
| 10:51:56           | 228.9        | 1.7          | 0.2           | 65.5      | 221.0       |
| 10:52:56           | 239.6        | 1.7          | 0.2           | 65.7      | 216.8       |
| 10:53:56           | 301.9        | 1.7          | 0.2           | 65.7      | 211.7       |
| 10:54:56           | 275.7        | 1.6          | 0.2           | 65.7      | 211.3       |
| 10:55:56           | 258.3        | 1.6          | 0.2           | 65.7      | 210.0       |
| 10:56:56           | 269.7        | 1.6          | 0.2           | 65.7      | 208.6       |
| 10:57:56           | 249.5        | 1.6          | 0.2           | 65.7      | 208.0       |
| 10:58:56           | 229.3        | 1.6          | 0.2           | 65.6      | 208.6       |
| 10:59:56           | 198.7        | 1.6          | 0.2           | 65.8      | 208.0       |
| 11:00:56           | 176.4        | 1.6          | 0.2           | 65.7      | 208.5       |
| 11:01:56           | 165.3        | 1.7          | 0.2           | 65.7      | 208.5       |
| 11:02:56           | 150.2        | 1.8          | 0.2           | 65.5      | 208.5       |
| 11:03:56           | 137.1        | 1.8          | 0.2           | 65.4      | 208.5       |
| 11:04:56           | 128.4        | 1.8          | 0.2           | 65.4      | 208.5       |
| 11:05:56           | 125.5        | 1.8          | 0.2           | 65.7      | 208.5       |
| 11:06:56           | 113.1        | 1.7          | 0.2           | 65.9      | 208.5       |
| 11:07:56           | 108.0        | 1.7          | 0.2           | 66.1      | 208.4       |
| 11:09:22           | 99.1         | 1.7          | 0.2           | 66.1      | 208.4       |
| 11:09:56           | 91.0         | 1.7          | 0.2           | 65.9      | 207.2       |
| 11:10:56           | 91.6         | 1.6          | 0.2           | 66.0      | 207.0       |
| 11:11:56           | 83.9         | 1.5          | 0.2           | 65.8      | 207.5       |
| 11:12:56           | 74.6         | 1.5          | 0.2           | 65.7      | 207.1       |
| 11:13:56           | 70.7         | 1.5          | 0.2           | 65.9      | 207.0       |
| 11:14:56           | 64.3         | 1.5          | 0.2           | 65.8      | 206.9       |
| 11:15:56           | 68.3         | 1.5          | 0.2           | 65.7      | 206.5       |
| 11:16:56           | 67.9         | 1.4          | 0.2           | 65.8      | 206.4       |
| 11:17:56           | 68.1         | 1.5          | 0.2           | 65.9      | 204.4       |
| 11:18:56           | 119.1        | 1.5          | 0.2           | 66.0      | 198.3       |
| 11:19:56           | 166.6        | 1.5          | 0.2           | 66.3      | 195.5       |
| 11:20:56           | 180.5        | 1.5          | 0.2           | 66.3      | 191.2       |
| 11:21:56           | 242.9        | 1.5          | 0.2           | 66.6      | 185.6       |
| 11:22:56           | 282.8        | 1.5          | 0.2           | 66.6      | 180.9       |
| 11:23:56           | 291.1        | 1.4          | 0.2           | 66.7      | 179.0       |
| 11:24:56           | 296.3        | 1.4          | 0.2           | 66.8      | 177.3       |
| 11:25:56           | 271.2        | 1.4          | 0.2           | 66.8      | 175.0       |
| 11:26:56           | 297.6        | 1.4          | 0.2           | 67.0      | 169.5       |

Test #: 0409-1

| 04-09-1997<br>line | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 11:27:56           | 331.3        | 1.4          | 0.2           | 67.1      | 167.7       |
| 11:28:56           | 277.4        | 1.4          | 0.2           | 67.0      | 166.5       |
| 11:29:56           | 266.4        | 1.4          | 0.2           | 66.9      | 164.5       |
| 11:30:56           | 241.3        | 1.4          | 0.2           | 66.7      | 164.5       |
| 11:31:56           | 230.4        | 1.4          | 0.2           | 66.7      | 164.5       |
| 11:32:56           | 208.5        | 1.5          | 0.2           | 66.8      | 164.5       |
| 11:33:56           | 191.6        | 1.5          | 0.2           | 66.5      | 164.5       |
| 11:34:56           | 171.0        | 1.5          | 0.2           | 66.8      | 164.5       |
| 11:35:56           | 154.1        | 1.5          | 0.2           | 66.6      | 164.5       |
| 11:36:56           | 143.6        | 1.5          | 0.2           | 66.8      | 164.5       |
| 11:37:56           | 129.2        | 1.5          | 0.2           | 66.7      | 164.5       |
| 11:38:56           | 121.4        | 1.5          | 0.2           | 66.7      | 164.5       |
| 11:39:56           | 108.7        | 1.5          | 0.2           | 66.6      | 164.5       |
| 11:40:56           | 105.4        | 1.5          | 0.2           | 66.8      | 164.5       |
| 11:41:56           | 95.9         | 1.5          | 0.2           | 66.7      | 164.5       |
| 11:42:56           | 97.4         | 1.4          | 0.2           | 66.7      | 164.5       |
| 11:43:56           | 85.3         | 1.4          | 0.2           | 66.8      | 164.5       |
| 11:44:56           | 77.9         | 1.4          | 0.2           | 66.9      | 164.5       |
| 11:45:56           | 73.0         | 1.4          | 0.2           | 67.0      | 164.5       |
| 11:46:56           | 66.6         | 1.4          | 0.2           | 67.0      | 164.5       |
| 11:47:56           | 63.3         | 1.4          | 0.2           | 67.1      | 164.5       |
| 11:48:56           | 60.7         | 1.4          | 0.2           | 67.1      | 164.5       |
| 11:49:56           | 56.1         | 1.3          | 0.2           | 67.0      | 164.5       |
| 11:50:56           | 52.3         | 1.4          | 0.2           | 66.9      | 164.5       |
| 11:51:56           | 50.3         | 1.3          | 0.2           | 66.9      | 164.4       |
| 11:52:56           | 48.3         | 1.3          | 0.2           | 67.0      | 164.4       |
| 11:53:56           | 44.0         | 1.3          | 0.2           | 66.9      | 164.4       |
| 11:54:56           | 43.5         | 1.3          | 0.2           | 67.2      | 164.4       |
| 11:55:56           | 39.9         | 1.3          | 0.2           | 67.2      | 164.4       |
| 11:56:56           | 39.2         | 1.3          | 0.2           | 67.2      | 164.4       |
| 11:57:56           | 35.3         | 1.3          | 0.2           | 67.0      | 164.4       |
| 11:58:56           | 31.3         | 1.3          | 0.1           | 67.0      | 164.4       |
| 11:59:56           | 31.6         | 1.3          | 0.2           | 67.1      | 164.4       |
| 12:00:56           | 28.4         | 1.3          | 0.1           | 67.2      | 164.4       |
| 12:01:56           | 26.9         | 1.3          | 0.2           | 66.9      | 164.4       |
| 12:02:56           | 25.0         | 1.3          | 0.2           | 66.8      | 164.4       |
| 12:03:56           | 24.0         | 1.3          | 0.2           | 66.9      | 164.4       |
| 12:04:56           | 21.7         | 1.3          | 0.2           | 66.9      | 164.4       |
| 12:05:56           | 20.4         | 1.3          | 0.2           | 66.9      | 164.4       |
| 12:06:56           | 18.6         | 1.3          | 0.2           | 66.8      | 164.4       |
| 12:07:56           | 16.9         | 1.3          | 0.2           | 66.7      | 164.4       |
| 12:08:56           | 16.1         | 1.3          | 0.2           | 66.7      | 164.4       |
| 12:09:56           | 14.7         | 1.3          | 0.2           | 66.7      | 164.4       |
| 12:10:56           | 13.8         | 1.2          | 0.2           | 66.7      | 164.4       |
| 12:11:56           | 13.1         | 1.2          | 0.2           | 66.8      | 164.4       |
| 12:12:56           | 12.8         | 1.2          | 0.2           | 67.1      | 164.4       |
| 12:13:56           | 11.7         | 1.2          | 0.2           | 67.3      | 164.4       |
| 12:14:56           | 10.8         | 1.2          | 0.2           | 67.5      | 164.4       |
| 12:15:56           | 9.6          | 1.2          | 0.2           | 67.5      | 164.4       |
| 12:16:56           | 9.0          | 1.2          | 0.2           | 67.6      | 164.4       |
| 12:17:56           | 9.5          | 1.2          | 0.2           | 67.8      | 164.4       |
| 12:18:56           | 7.9          | 1.2          | 0.2           | 67.9      | 164.4       |
| Avg =              | 129.8        | 1.8          | 0.2           | 66.3      | 209.3       |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-09-1997 Current Time = 12:24:25

File Name = c:\ceadata\040997.PRN Calibration File:c:\ceadata\0409b.CAL

Test #: cost out 297 in 15.0

| 04-09-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 12:24:28           | 292.2        | 14.8         | 0.2           | 67.4      | 164.4       |
| 12:24:30           | 292.2        | 14.8         | 0.2           | 67.4      | 164.4       |
| 12:24:36           | 292.2        | 14.7         | 0.2           | 67.5      | 164.4       |
| 12:24:46           | 292.1        | 14.8         | 0.2           | 67.5      | 164.4       |
| 12:24:56           | 292.9        | 14.8         | 0.2           | 67.6      | 164.4       |
| 12:25:06           | 292.4        | 14.8         | 0.2           | 67.6      | 164.4       |
| 12:25:16           | 292.7        | 14.8         | 0.2           | 67.6      | 164.4       |
| 12:25:26           | 293.2        | 14.8         | 0.2           | 67.6      | 164.4       |
| 12:25:36           | 293.2        | 14.8         | 0.2           | 67.6      | 164.4       |
| 12:25:46           | 292.5        | 14.8         | 0.2           | 67.6      | 164.4       |
| 12:25:56           | 292.1        | 14.8         | 0.2           | 67.6      | 164.4       |
| 12:26:06           | 293.1        | 14.8         | 0.2           | 67.5      | 164.4       |
| 12:26:16           | 292.2        | 14.8         | 0.2           | 67.4      | 164.4       |
| 12:26:26           | 292.9        | 14.9         | 0.2           | 67.4      | 164.4       |
| 12:26:36           | 292.3        | 14.9         | 0.2           | 67.3      | 164.4       |
| 12:26:46           | 293.0        | 14.8         | 0.2           | 67.3      | 164.4       |
| Avg =              | 292.6        | 14.8         | 0.2           | 67.5      | 164.4       |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-09-1997 Current Time = 12:29:37

File Name = c:\ceadata\040997.PRN Calibration File:c:\ceadata\0409b.CAL

Test #: post out 600 in 30.4

| 04-09-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 12:29:41           | 601.7        | 30.1         | 0.2           | 67.4      | 164.5       |
| 12:29:43           | 601.7        | 30.1         | 0.2           | 67.4      | 164.5       |
| 12:29:46           | 601.0        | 30.2         | 0.2           | 67.4      | 164.5       |
| 12:29:56           | 600.2        | 30.2         | 0.2           | 67.3      | 164.5       |
| 12:30:06           | 601.7        | 30.2         | 0.2           | 67.3      | 164.5       |
| 12:30:16           | 601.8        | 30.2         | 0.2           | 67.3      | 164.5       |
| 12:30:26           | 601.1        | 30.2         | 0.2           | 67.2      | 164.5       |
| 12:30:36           | 601.9        | 30.2         | 0.2           | 67.2      | 164.5       |
| 12:30:46           | 601.5        | 30.2         | 0.2           | 67.3      | 164.5       |
| 12:30:56           | 601.7        | 30.1         | 0.2           | 67.3      | 164.5       |
| Avg =              | 601.4        | 30.2         | 0.2           | 67.3      | 164.5       |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-09-1997 Current Time = 12:34:37

File Name = c:\ceadata\040997.PRM Calibration File: c:\ceadata\0409b.CAL

Test #: east out 0 in 0

| 04-09-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 12:34:41           | -0.0         | -0.3         | 0.2           | 64.5      | -1146.9     |
| 12:34:43           | -0.0         | -0.3         | 0.2           | 64.5      | -1146.9     |
| 12:34:46           | -0.0         | -0.3         | 0.2           | 62.5      | -1146.6     |
| 12:34:56           | -0.0         | -0.3         | 0.2           | 62.3      | -1145.2     |
| 12:35:06           | -0.0         | -0.3         | 0.2           | 62.1      | -1144.3     |
| 12:35:16           | -0.0         | -0.3         | 0.2           | 62.0      | -1145.3     |
| 12:35:26           | -0.0         | -0.3         | 0.2           | 61.8      | -1144.6     |
| 12:35:36           | -0.0         | -0.3         | 0.2           | 61.5      | -1141.2     |
| 12:35:46           | -0.0         | -0.3         | 0.2           | 61.4      | -1140.7     |
| 12:35:56           | -0.0         | -0.3         | 0.2           | 61.4      | -1144.5     |
| 12:36:06           | -0.0         | -0.3         | 0.2           | 61.4      | -1140.6     |
| 12:36:16           | -0.0         | -0.3         | 0.2           | 61.5      | -1144.0     |
| 12:36:26           | -0.0         | -0.3         | 0.2           | 61.7      | -1144.5     |
| 12:36:36           | -0.0         | -0.3         | 0.2           | 61.8      | -1144.1     |
| 12:36:46           | -0.0         | -0.3         | 0.2           | 61.8      | -1144.4     |
| 12:36:56           | -0.0         | -0.3         | 0.2           | 61.8      | -1144.4     |
| Avg =              | -0.0         | -0.3         | 0.2           | 62.1      | -1145.6     |



RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-09-1997 Current Time = 12:45:51

File Name = c:\ceadata\040997.PRM Calibration File: c:\ceadata\0409b.CAL

Test #: propane audit

| 04-09-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 12:45:56           | 1004.4       | 1.1          | 0.2           | 56.7      | -1143.4     |
| 12:45:58           | 1004.4       | 1.1          | 0.2           | 56.7      | -1143.4     |
| 12:45:59           | 1004.4       | 1.1          | 0.2           | 56.7      | -1143.4     |
| 12:46:06           | 1004.4       | 1.3          | 0.2           | 56.6      | -1148.0     |
| 12:46:16           | 1004.7       | 1.3          | 0.2           | 56.5      | -1142.5     |
| 12:46:26           | 1003.7       | 1.2          | 0.2           | 56.3      | -1142.8     |
| Avg =              | 1004.4       | 1.2          | 0.2           | 56.6      | -1143.9     |

RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-09-1997 Current Time = 13:04:47  
 File Name = c:\ceadata\040997.PRM Calibration File: c:\ceadata\0409b.CAL

Test #: Styrene audiot 2

| 04-09-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 13:04:49           | 88.1         | 2.1          | 0.2           | 69.0      | -903.4      |
| 13:04:50           | 88.1         | 2.1          | 0.2           | 69.0      | -903.4      |
| 13:04:59           | 87.7         | 2.1          | 0.2           | 69.0      | -903.4      |
| 13:05:09           | 88.2         | 2.1          | 0.2           | 69.0      | -903.4      |
| 13:05:19           | 88.6         | 2.1          | 0.2           | 69.1      | -903.4      |
| 13:05:29           | 88.6         | 2.2          | 0.2           | 69.1      | -903.4      |
| 13:05:39           | 88.6         | 2.2          | 0.2           | 69.2      | -903.4      |
| 13:05:47           | 88.6         | 2.2          | 0.2           | 69.3      | -903.4      |
| 13:05:59           | 88.2         | 2.1          | 0.2           | 69.3      | -903.4      |
| 13:06:09           | 88.6         | 2.1          | 0.2           | 69.4      | -903.4      |
| 13:06:19           | 88.6         | 2.1          | 0.2           | 69.4      | -903.4      |
| 13:06:29           | 88.1         | 2.1          | 0.2           | 69.4      | -903.4      |
| 13:06:39           | 88.6         | 2.1          | 0.2           | 69.4      | -903.4      |
| 13:06:49           | 88.6         | 2.2          | 0.2           | 69.4      | -903.4      |
| 13:06:59           | 88.6         | 2.2          | 0.2           | 69.5      | -903.4      |
| 13:07:09           | 88.6         | 2.2          | 0.2           | 69.5      | -903.4      |
| 13:07:19           | 88.0         | 2.2          | 0.2           | 69.6      | -903.4      |
| 13:07:29           | 88.6         | 2.2          | 0.2           | 69.6      | -903.4      |
| 13:07:39           | 88.6         | 2.1          | 0.2           | 69.6      | -903.4      |
| 13:07:49           | 88.6         | 2.1          | 0.2           | 69.7      | -903.4      |
| 13:07:59           | 88.6         | 2.2          | 0.2           | 69.8      | -903.4      |
| 13:08:09           | 88.6         | 2.2          | 0.2           | 69.8      | -903.4      |
| Avg =              | 88.4         | 2.1          | 0.2           | 69.4      | -903.4      |

## RADIAM CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-09-1997 Current Time = 13:14:09

File Name = c:\ceadata\040997.PRM Calibration File: c:\ceadata\0409b.CAL

Test #: 0409-02

| 04-09-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 13:14:49           | 1.0          | 2.3          | 0.2           | 70.9      | 281.5       |
| 13:15:49           | 1.0          | 2.3          | 0.2           | 71.0      | 281.9       |
| 13:16:49           | 1.0          | 2.4          | 0.2           | 71.0      | 281.5       |
| 13:17:49           | 18.8         | 2.4          | 0.2           | 71.1      | 281.5       |
| 13:18:49           | 71.7         | 2.5          | 0.2           | 71.2      | 280.1       |
| 13:19:49           | 101.8        | 2.6          | 0.2           | 71.4      | 279.6       |
| 13:20:49           | 110.2        | 2.6          | 0.2           | 71.4      | 279.0       |
| 13:21:49           | 109.5        | 2.6          | 0.2           | 71.5      | 278.6       |
| 13:22:49           | 79.6         | 2.6          | 0.2           | 71.7      | 278.3       |
| 13:23:49           | 77.8         | 2.6          | 0.2           | 71.8      | 278.3       |
| 13:24:49           | 91.0         | 2.5          | 0.2           | 71.9      | 278.3       |
| 13:25:49           | 62.7         | 2.5          | 0.2           | 72.0      | 278.3       |
| 13:26:49           | 74.6         | 2.6          | 0.2           | 72.0      | 278.3       |
| 13:27:49           | 66.2         | 2.6          | 0.2           | 72.1      | 278.3       |
| 13:28:49           | 64.0         | 2.5          | 0.2           | 72.2      | 278.3       |
| 13:29:49           | 60.7         | 2.5          | 0.2           | 72.3      | 278.3       |
| 13:30:49           | 53.4         | 2.5          | 0.2           | 72.3      | 278.3       |
| 13:31:49           | 49.3         | 2.5          | 0.2           | 72.4      | 278.6       |
| 13:32:49           | 45.3         | 2.5          | 0.2           | 72.4      | 278.6       |
| 13:33:49           | 40.6         | 2.5          | 0.2           | 72.5      | 278.6       |
| 13:34:49           | 37.9         | 2.5          | 0.2           | 72.5      | 278.6       |
| 13:35:49           | 34.5         | 2.5          | 0.2           | 72.5      | 278.6       |
| 13:36:49           | 32.5         | 2.5          | 0.2           | 72.6      | 278.6       |
| 13:37:49           | 29.9         | 2.4          | 0.2           | 72.6      | 278.5       |
| 13:38:49           | 27.4         | 2.4          | 0.2           | 72.6      | 278.5       |
| 13:39:49           | 25.9         | 2.4          | 0.2           | 72.6      | 278.5       |
| 13:40:49           | 22.3         | 2.4          | 0.2           | 72.4      | 278.5       |
| 13:41:49           | 21.9         | 2.4          | 0.2           | 72.8      | 278.5       |
| 13:42:49           | 18.9         | 2.4          | 0.2           | 73.0      | 278.5       |
| 13:43:49           | 18.7         | 2.4          | 0.2           | 72.8      | 278.5       |
| 13:44:49           | 17.4         | 2.4          | 0.2           | 72.9      | 278.5       |
| 13:45:49           | 16.0         | 2.3          | 0.2           | 73.0      | 278.5       |
| 13:46:49           | 14.9         | 2.3          | 0.2           | 73.1      | 278.5       |
| 13:47:49           | 13.6         | 2.3          | 0.2           | 73.1      | 278.5       |
| 13:48:49           | 13.0         | 2.3          | 0.2           | 73.1      | 278.5       |
| 13:49:49           | 10.0         | 2.3          | 0.2           | 72.3      | 278.5       |
| 13:50:49           | 9.2          | 2.2          | 0.2           | 71.6      | 278.5       |
| 13:51:49           | 8.5          | 2.2          | 0.2           | 71.0      | 278.5       |
| 13:52:49           | 7.7          | 2.1          | 0.2           | 70.5      | 278.6       |
| 13:53:49           | 7.9          | 2.0          | 0.2           | 70.5      | 278.5       |

Test #: 0409-02

| 04-09-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 13:54:49           | 7.2          | 2.0          | 0.2           | 70.6      | 278.3       |
| 13:55:49           | 7.1          | 2.0          | 0.2           | 70.8      | 278.4       |
| 13:56:49           | 7.0          | 2.0          | 0.2           | 71.0      | 278.3       |
| Avg =              | 38.4         | 2.4          | 0.2           | 72.0      | 278.9       |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-09-1997 Current Time = 13:58:52

File Name = c:\cemdata\040997.PRN Calibration File: c:\cemdata\0409b.CAL

Test #: Post out 0 in 0

| 04-09-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 13:58:56           | -0.1         | -0.2         | 0.2           | 71.0      | 278.3       |
| 13:58:57           | -0.0         | -0.2         | 0.2           | 70.9      | 278.3       |
| 13:59:07           | -0.1         | -0.2         | 0.2           | 70.9      | 276.3       |
| 13:59:17           | -0.1         | -0.2         | 0.2           | 70.9      | 278.3       |
| 13:59:29           | -0.1         | -0.2         | 0.2           | 70.9      | 201.5       |
| 13:59:39           | -0.0         | -0.2         | 0.2           | 70.9      | 321.8       |
| 13:59:49           | -0.1         | -0.2         | 0.2           | 70.9      | -870.5      |
| 13:59:59           | -0.0         | -0.2         | 0.2           | 70.9      | -1144.4     |
| 14:00:09           | -0.0         | -0.2         | 0.2           | 70.9      | -1144.6     |
| Avg =              | -0.0         | -0.2         | 0.2           | 70.9      | -169.2      |

RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-09-1997 Current Time = 14:03:48  
 File Name = c:\ceadata\040997.PRM Calibration File: c:\ceadata\0409b.CAL

Test #: Post out 297 in 15

| 04-09-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 14:03:52           | 295.1        | 14.7         | 0.2           | 70.9      | -1155.9     |
| 14:03:53           | 295.1        | 14.7         | 0.2           | 70.9      | -1155.9     |
| 14:03:59           | 295.0        | 14.8         | 0.2           | 70.9      | -1151.0     |
| 14:04:09           | 294.6        | 14.8         | 0.2           | 70.8      | -1142.0     |
| 14:04:19           | 295.0        | 14.8         | 0.2           | 70.9      | -1141.6     |
| 14:04:29           | 294.4        | 14.7         | 0.2           | 70.9      | -1141.6     |
| 14:04:39           | 294.2        | 14.8         | 0.2           | 70.9      | -1142.7     |
| 14:04:49           | 295.0        | 14.7         | 0.2           | 71.0      | -1141.8     |
| 14:04:59           | 294.3        | 14.7         | 0.2           | 71.0      | -1141.5     |
| 14:05:09           | 294.5        | 14.7         | 0.2           | 71.0      | -1142.4     |
| 14:05:19           | 294.6        | 14.7         | 0.2           | 71.0      | -1142.6     |
| 14:05:29           | 294.0        | 14.7         | 0.2           | 71.0      | -1141.3     |
| 14:05:39           | 295.3        | 14.8         | 0.2           | 71.0      | -1141.6     |
| 14:05:49           | 295.0        | 14.8         | 0.2           | 71.0      | -1142.0     |
| 14:05:59           | 295.0        | 14.8         | 0.2           | 71.1      | -1142.4     |
| 14:06:09           | 295.0        | 14.7         | 0.2           | 71.1      | -1138.4     |
| 14:06:19           | 295.6        | 14.8         | 0.2           | 71.1      | -1142.2     |
| 14:06:29           | 295.1        | 14.7         | 0.2           | 71.1      | -1141.7     |
| 14:06:39           | 295.1        | 14.7         | 0.2           | 71.2      | -1142.2     |
| 14:06:49           | 295.0        | 14.7         | 0.2           | 71.2      | -1137.8     |
| 14:06:59           | 295.1        | 14.7         | 0.2           | 71.1      | -1142.6     |
| =====              |              |              |               |           |             |
| Avg =              | 294.9        | 14.7         | 0.2           | 71.0      | -1143.4     |
| =====              |              |              |               |           |             |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-09-1997 Current Time = 14:09:36

File Name = c:\cendata\040997.PRN Calibration File:c:\cendata\0409b.CAL

Test #: Post out 600 in 30.4

| 04-09-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 14:09:41           | 606.6        | 30.0         | 0.2           | 71.5      | -1151.3     |
| 14:09:42           | 606.6        | 30.0         | 0.2           | 71.5      | -1151.3     |
| 14:09:49           | 606.9        | 30.0         | 0.2           | 71.6      | -1149.2     |
| 14:09:59           | 606.5        | 30.0         | 0.2           | 71.6      | -1143.0     |
| 14:10:09           | 605.5        | 30.0         | 0.2           | 71.6      | -1143.4     |
| 14:10:19           | 606.5        | 30.0         | 0.2           | 71.7      | -1143.0     |
| 14:10:29           | 606.1        | 30.0         | 0.2           | 71.7      | -1143.6     |
| 14:10:39           | 607.0        | 30.0         | 0.2           | 71.7      | -1142.8     |
| 14:10:49           | 606.2        | 30.0         | 0.2           | 71.7      | -1142.0     |
| 14:10:59           | 606.1        | 30.1         | 0.2           | 71.6      | -1142.9     |
| 14:11:09           | 606.6        | 30.1         | 0.2           | 71.6      | -1143.3     |
| 14:11:19           | 605.6        | 30.1         | 0.2           | 71.4      | -1142.6     |
| 14:11:29           | 605.9        | 30.1         | 0.2           | 71.4      | -1143.4     |
| 14:11:39           | 607.4        | 30.1         | 0.2           | 71.4      | -1142.9     |
| Avg =              | 606.5        | 30.0         | 0.2           | 71.6      | -1144.6     |

## RADIANT CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-09-1997 Current Time = 14:14:28

File Name = c:\cemdata\040997.PRN Calibration File: c:\cemdata\0409b.CAL

Test #: 0409-3

| 04-09-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 14:15:09           | 2.9          | 2.7          | 0.2           | 71.5      | -1143.6     |
| 14:16:09           | 2.9          | 2.7          | 0.2           | 71.4      | -1138.6     |
| 14:17:09           | 2.9          | 2.7          | 0.2           | 71.4      | 84.7        |
| 14:18:09           | 2.9          | 2.6          | 0.2           | 71.3      | 173.6       |
| 14:19:09           | 2.9          | 2.8          | 0.2           | 71.4      | 174.0       |
| 14:20:09           | 2.8          | 2.8          | 0.2           | 71.4      | 173.0       |
| 14:21:09           | 19.3         | 2.8          | 0.2           | 71.5      | 172.1       |
| 14:22:09           | 65.6         | 2.8          | 0.2           | 71.4      | 168.0       |
| 14:23:09           | 69.5         | 2.8          | 0.2           | 71.3      | 171.0       |
| 14:24:09           | 61.8         | 2.8          | 0.2           | 71.3      | 171.0       |
| 14:25:09           | 68.2         | 2.8          | 0.2           | 71.1      | 170.9       |
| 14:26:09           | 62.4         | 2.7          | 0.2           | 71.1      | 170.9       |
| 14:27:09           | 60.9         | 2.7          | 0.2           | 71.0      | 170.9       |
| 14:28:09           | 58.3         | 2.8          | 0.2           | 71.0      | 170.9       |
| 14:29:09           | 52.8         | 2.9          | 0.2           | 71.0      | 170.9       |
| 14:30:09           | 49.8         | 2.8          | 0.2           | 71.0      | 170.9       |
| 14:31:09           | 43.9         | 2.8          | 0.2           | 70.9      | 170.6       |
| 14:32:09           | 40.7         | 2.9          | 0.2           | 70.9      | 170.8       |
| 14:33:09           | 37.5         | 2.9          | 0.2           | 70.9      | 170.6       |
| 14:34:09           | 34.1         | 2.9          | 0.2           | 70.8      | 170.8       |
| 14:35:09           | 33.1         | 2.8          | 0.2           | 70.8      | 170.6       |
| 14:36:09           | 30.8         | 2.8          | 0.2           | 70.8      | 170.8       |
| 14:37:09           | 27.4         | 2.7          | 0.2           | 70.8      | 170.7       |
| 14:38:09           | 27.0         | 2.7          | 0.2           | 70.8      | 170.7       |
| 14:39:09           | 25.3         | 2.7          | 0.2           | 70.8      | 170.7       |
| 14:40:09           | 23.5         | 2.7          | 0.2           | 70.8      | 170.7       |
| 14:41:09           | 21.6         | 2.7          | 0.2           | 70.8      | 170.7       |
| 14:42:09           | 20.8         | 2.7          | 0.2           | 70.8      | 170.7       |
| 14:43:09           | 19.8         | 2.6          | 0.2           | 70.7      | 170.7       |
| 14:44:09           | 18.1         | 2.6          | 0.2           | 70.7      | 170.6       |
| 14:45:09           | 17.4         | 2.6          | 0.2           | 70.7      | 170.6       |
| 14:46:09           | 16.5         | 2.5          | 0.2           | 70.7      | 170.6       |
| 14:47:09           | 16.1         | 2.5          | 0.2           | 70.6      | 170.6       |
| 14:48:09           | 14.5         | 2.5          | 0.2           | 70.3      | 170.6       |
| 14:49:09           | 13.5         | 2.4          | 0.2           | 69.9      | 170.5       |
| 14:50:09           | 13.5         | 2.4          | 0.2           | 69.9      | 170.5       |
| 14:51:09           | 12.9         | 2.4          | 0.2           | 69.9      | 170.5       |
| 14:52:09           | 12.2         | 2.4          | 0.2           | 70.0      | 170.5       |
| 14:53:09           | 11.8         | 2.4          | 0.2           | 70.0      | 170.5       |
| 14:54:09           | 11.6         | 2.3          | 0.2           | 70.0      | 170.5       |



Test #: 0409-3

04-09-1997  
Time      THC o    THC i    Flow    Temp    Resin  
         ppm    ppm    inH2O    F       lb

|          |      |     |     |      |       |
|----------|------|-----|-----|------|-------|
| 14:55:09 | 10.3 | 2.3 | 0.2 | 70.0 | 170.5 |
| 14:56:09 | 9.6  | 2.3 | 0.2 | 70.1 | 170.5 |
| 14:57:09 | 8.8  | 2.2 | 0.2 | 70.1 | 170.4 |
| 14:58:09 | 8.2  | 2.2 | 0.2 | 70.1 | 170.4 |
| 14:59:09 | 7.9  | 2.2 | 0.2 | 70.1 | 170.4 |
| 15:00:09 | 7.0  | 2.2 | 0.2 | 70.2 | 170.4 |

Avg =            25.7    2.6    0.2    70.7    111.9

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, MA

Performed for: NMMA

Date Printed = 04-09-1997 Current Time = 15:25:52

File Name = c:\cendata\040997.PRN Calibration File: c:\cendata\0409b.CAL

Test #: post out 297 in 30.4

| 04-09-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 15:25:58           | 295.0        | 30.1         | 0.2           | 63.4      | 164.2       |
| 15:25:59           | 295.0        | 30.1         | 0.2           | 63.4      | 164.2       |
| 15:26:01           | 295.0        | 30.1         | 0.2           | 63.4      | 164.2       |
| 15:26:09           | 295.0        | 30.1         | 0.2           | 63.3      | 164.3       |
| 15:26:19           | 294.5        | 30.1         | 0.2           | 63.2      | 164.3       |
| 15:26:29           | 294.7        | 30.1         | 0.2           | 63.2      | 164.3       |
| 15:26:39           | 295.1        | 30.1         | 0.2           | 63.2      | 164.2       |
| 15:26:49           | 295.0        | 30.2         | 0.2           | 63.2      | 164.2       |
| 15:26:59           | 295.1        | 30.2         | 0.2           | 63.0      | 164.3       |
| 15:27:09           | 295.1        | 30.2         | 0.2           | 63.0      | 164.2       |
| 15:27:19           | 295.1        | 30.2         | 0.2           | 63.0      | 164.2       |
| 15:27:29           | 294.7        | 30.2         | 0.2           | 62.9      | 164.3       |
| 15:27:39           | 294.2        | 30.2         | 0.2           | 63.0      | 164.2       |
| 15:27:49           | 295.0        | 30.1         | 0.2           | 62.9      | 164.3       |
| 15:27:59           | 294.8        | 30.1         | 0.2           | 62.9      | 164.3       |
| 15:28:09           | 294.7        | 30.1         | 0.2           | 62.8      | 164.2       |
| 15:28:19           | 295.1        | 30.1         | 0.2           | 62.8      | 164.2       |
| 15:28:29           | 294.4        | 30.1         | 0.2           | 62.8      | 164.2       |
| 15:28:39           | 294.8        | 30.1         | 0.2           | 62.7      | 164.2       |
| =====              |              |              |               |           |             |
| Avg =              | 294.9        | 30.1         | 0.2           | 63.1      | 164.3       |
| =====              |              |              |               |           |             |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

S Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-09-1997 Current Time = 15:33:13

File Name = c:\cemd\040997.PRM Calibration File: c:\cemd\0409b.CAL

Test #: Post out 600 in 15.0

| 04-09-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
|--------------------|--------------|--------------|---------------|-----------|-------------|

|          |       |      |     |      |       |
|----------|-------|------|-----|------|-------|
| 15:33:20 | 605.6 | 14.5 | 0.0 | 63.0 | 164.2 |
| 15:33:21 | 605.6 | 14.5 | 0.0 | 63.0 | 164.2 |
| 15:33:23 | 605.6 | 14.5 | 0.0 | 63.0 | 164.2 |
| 15:33:29 | 605.1 | 14.4 | 0.0 | 63.1 | 164.2 |
| 15:33:39 | 605.8 | 14.4 | 0.0 | 63.1 | 164.2 |
| 15:33:49 | 605.9 | 14.5 | 0.0 | 63.1 | 164.2 |
| 15:33:59 | 604.8 | 14.5 | 0.0 | 63.2 | 164.1 |
| 15:34:09 | 605.9 | 14.5 | 0.0 | 63.2 | 164.2 |
| 15:34:19 | 605.6 | 14.5 | 0.0 | 63.2 | 164.2 |

|       |       |      |     |      |       |
|-------|-------|------|-----|------|-------|
| Avg = | 605.5 | 14.5 | 0.0 | 63.1 | 164.2 |
|-------|-------|------|-----|------|-------|

## RADIANT CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-09-1997 Current Time = 15:36:50

File Name = c:\ce\data\040997.PRN Calibration File: c:\ce\data\0409b.CAL

Test #: Post out 0 in 0

| 04-09-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 15:36:57           | -0.1         | -0.0         | 0.0           | 63.6      | 164.1       |
| 15:36:59           | -0.0         | -0.1         | 0.0           | 63.6      | 164.2       |
| 15:37:09           | -0.1         | -0.1         | 0.0           | 63.6      | 164.2       |
| 15:37:19           | -0.0         | -0.1         | 0.0           | 63.6      | 164.2       |
| 15:37:29           | -0.1         | -0.1         | 0.0           | 63.7      | 164.2       |
| 15:37:39           | -0.0         | -0.1         | 0.0           | 63.7      | 164.2       |
| 15:37:49           | -0.1         | -0.1         | 0.0           | 63.8      | 164.1       |
| 15:37:59           | -0.0         | -0.1         | 0.0           | 63.8      | 164.2       |
| 15:38:09           | -0.0         | -0.1         | 0.0           | 63.8      | 164.2       |
| 15:38:19           | -0.1         | -0.1         | 0.0           | 63.8      | 164.2       |
| 15:38:29           | -0.1         | -0.1         | 0.0           | 63.9      | 164.2       |
| 15:38:39           | -0.0         | -0.1         | 0.0           | 63.9      | 164.2       |
| 15:38:49           | -0.1         | -0.1         | 0.0           | 63.9      | 164.2       |
| 15:38:59           | -0.1         | -0.1         | 0.0           | 63.9      | 164.2       |
| 15:39:09           | -0.1         | -0.1         | 0.0           | 63.9      | 164.2       |
| 15:39:19           | -0.0         | -0.1         | 0.0           | 63.9      | 164.2       |
| 15:39:29           | -0.0         | -0.1         | 0.0           | 64.0      | 164.2       |
| 15:39:39           | -0.1         | -0.1         | 0.0           | 64.0      | 164.2       |
| 15:39:49           | -0.0         | -0.1         | 0.0           | 64.0      | 164.2       |
| 15:39:59           | -0.0         | -0.1         | 0.0           | 64.0      | 164.2       |
| 15:40:09           | -0.0         | -0.1         | 0.0           | 64.0      | 164.2       |
| 15:40:19           | -0.1         | -0.1         | 0.0           | 64.0      | 164.2       |
| 15:40:29           | -0.1         | -0.1         | 0.0           | 64.1      | 164.2       |
| 15:40:39           | -0.1         | -0.1         | 0.0           | 64.1      | 164.2       |
| 15:40:49           | -0.1         | -0.1         | 0.0           | 64.1      | 164.2       |
| 15:40:59           | -0.1         | -0.1         | 0.0           | 64.1      | 164.2       |
| 15:41:09           | -0.0         | -0.1         | 0.0           | 64.1      | 164.2       |
| Avg =              | -0.0         | -0.1         | 0.0           | 63.9      | 164.2       |

RADIANT CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-09-1997 Current Time = 15:48:55  
 File Name = c:\ce\data\040997.PRN Calibration File: c:\ce\data\0409b.CAL

Test #: Post out 914 in 45.5

| 04-09-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb |
|--------------------|--------------|--------------|---------------|-----------|-------------|
| 15:49:03           | 913.0        | 44.1         | 0.0           | 65.2      | 165.0       |
| 15:49:05           | 913.0        | 44.1         | 0.0           | 65.2      | 165.0       |
| 15:49:10           | 912.8        | 44.1         | 0.0           | 65.2      | 164.9       |
| 15:49:20           | 912.3        | 44.1         | 0.0           | 65.3      | 164.9       |
| 15:49:30           | 912.6        | 44.1         | 0.0           | 65.3      | 164.9       |
| 15:49:40           | 912.7        | 44.1         | 0.0           | 65.2      | 164.9       |
| 15:49:50           | 913.1        | 44.1         | 0.0           | 65.2      | 164.9       |
| 15:50:00           | 912.5        | 44.1         | 0.0           | 65.2      | 164.9       |
| 15:50:35           | 912.5        | 44.1         | 0.0           | 65.2      | 164.9       |
| 15:51:08           | 912.5        | 44.1         | 0.0           | 65.2      | 164.9       |
| 15:51:16           | 912.5        | 44.1         | 0.0           | 65.2      | 164.9       |
| 15:51:18           | 912.5        | 44.1         | 0.0           | 65.2      | 164.9       |
| 15:51:19           | 912.5        | 44.1         | 0.0           | 65.2      | 164.9       |
| 15:51:21           | 912.5        | 44.1         | 0.0           | 65.2      | 164.9       |
| 15:51:22           | 912.5        | 44.1         | 0.0           | 65.2      | 164.9       |
| 15:51:24           | 912.5        | 44.1         | 0.0           | 65.2      | 164.9       |
| 15:51:30           | 917.6        | 43.8         | 0.0           | 65.2      | 164.8       |
| Avg =              | 912.9        | 44.1         | 0.0           | 65.2      | 164.9       |

**April 10, 1997**

**0410-01/NMMA-14-1: 18-ft Deck 35% Styrene Resin Flow Coat**

**0410-02/NMMA-13-1: 18-ft Hull 35% Styrene Resin Flow Coat**

**0410-03/NMMA-11-2: CFA Mold 35% Styrene Resin Spray Up Lamination**

**Resin Scale QC Test**

DAILY SPRAY EQUIPMENT CALIBRATION

Date: 4-10-97

Initial: Larry Dargitz

Spray Gun: \_\_\_\_\_

Resin Flow Calibration (15-second evaluation)

|                | Pre-Test | Post-Test |
|----------------|----------|-----------|
| Run 1 Mass (g) | 739      | 696       |
| Run 2 Mass (g) |          |           |
| Run 3 Mass (g) |          |           |
| Average        |          |           |

Resin:Glass Ratio

|                |      |  |
|----------------|------|--|
| Mass resin (g) | 222  |  |
| Mass glass (g) | 114  |  |
| TOTAL          | 336  |  |
| Percent glass  | 33.9 |  |

| Material     | Drum No. | Gel Time (min) | Catalyst % Vol. | Setting |
|--------------|----------|----------------|-----------------|---------|
| Gelcoat      |          |                |                 |         |
| Resin (skin) | 4        |                |                 |         |
| Resin (lam)  |          |                |                 |         |

Thickness Checks

| Run               | 1 | 2 | 3 | 4 | 5 |
|-------------------|---|---|---|---|---|
| Deck 60 mil/skin  |   |   |   |   |   |
| 150 mil           |   |   |   |   |   |
| Hull 90 mil/skin  |   |   |   |   |   |
| 60 mil/Rev        |   |   |   |   |   |
| Bottom 30 mil/Rev |   |   |   |   |   |
| 60 mil/Rev        |   |   |   |   |   |

Deck  
Hull  
Bottom  
Side  
and  
Transom

DAILY GAS CHROMATOGRAPHY LOG

Date: 4/18/97

Initial: RR

Run 0410-01

Test PMMA-14-1 18' Leak 35% 2-FC

| Run No. | Time   | Comments                | THC   | MMA Area | Styrene Area |
|---------|--------|-------------------------|-------|----------|--------------|
| S21     | 0633   | 0 Air - Styrene contain |       |          | 377636       |
| S22     | 0643   | 0 Air                   |       | 0        | 0            |
| S23     | 0649   | 0 Air                   |       | 0        | 0            |
| S24     | 0700   | 59.2 (S) 4.581          |       |          | 2848349      |
| S25     | 0707   | 59.2 sty 4.623          |       |          | 1874389      |
| S26     | 0715   | 59.2 sty 4.595          |       |          | 2149910      |
| S27     | 0722   | 59.2 sty 4.582          |       |          | 2035419      |
| S28     | 0732   | 122 sty 4.510           |       |          | 5309578      |
| S29     | 0739   | 122 sty 4.496           |       |          | 5565696      |
| S30     | 0745   | 122 sty 4.435           |       |          | 6680784      |
| S31     | 0752   | 204 sty 4.445           |       |          | 10263232     |
| S32     | 0803   | 204 sty 4.480           |       |          | 9437779      |
| S33     | 0810   | 204 sty 4.495           |       |          | 9078930      |
| S34     | 0819   | 204 sty 4.415           |       |          | 6918595      |
| S35     | 0828   | 204 sty 4.524           |       |          | 8357345      |
| S36     | 0919   | 1 4.457                 | 18(?) |          | 200747       |
| S37     | 0924   | 2 4.461                 | 74    |          | 1445060      |
| S38     | 0932   | 3 4.459                 | ~160  |          | 2702733      |
| S39     | 0938   | 4 4.559                 | 137   |          | 2158397      |
| S40     | 0950   | 5 4.651                 | 86    |          | 943564       |
| S41     | 0958   | 6 4.508                 | 71    |          | 1122084      |
| S42     | 1008   | 7 4.498                 | 55    |          | 954876       |
| S43     | 1016   | 8 4.466                 | 121   |          | 2443541      |
| S44     | 1028   | 9 4.516                 | 229   |          | 3120389      |
| S45     | 1037   | 10 4.553                | 161   |          | 2382866      |
| S46     | 1051   | 11 4.510                | 85    |          | 1485246      |
| S47     | 101100 | 12 4.531                | 40    |          | 605843       |
| S48     | 1111   | 13 4.528                | 13    |          | 198041       |
| S49     | 1122   | 204 sty 4.481           |       |          | 9349523      |
| S50     | 1131   | 204 sty 4.508           |       |          | 8442106      |
| S51     | 1139   | 59.2 sty 4.525          |       |          | 2656904      |
| S52     | 1147   | 59.2 sty 4.494          |       |          | 2773917      |
| S53     | 1233   | Background Air 4.505    |       |          | 27062        |
|         |        | THC 0.265 ppm           |       |          |              |

Ann  
CALC  
Styrene  
only

0 CAL  
METHOD  
CHECKS

0410-1  
PMMA-14-1

2002



DAILY GAS CHROMATOGRAPHY LOG

20623

Date: 4/10/97

Initial: JD

Run: 0410-02

Test MMA-13-1 18" Hx1 35% FC

0410-02

| Run No. | Time   | Comments           | THC  | MMA Area | Styrene Area |
|---------|--------|--------------------|------|----------|--------------|
| 554     | 1244   | 1 4.515            | 58   |          | 411718       |
| 555     | 1251   | 2 4.554            | 127  |          | 1074503      |
| 556     | 121300 | 3 4.517            | 195  |          | 1269243      |
| 557     | 1310   | 4 4.491            | 150  |          | 1645091      |
| 558     | 1318   | 5 4.578            | 103  |          | 980482       |
| 559     | 1328   | 6 4.468            | 58   |          | 627157       |
| 560     | 1336   | 7 4.467            | 135  |          | 1477083      |
| 561     | 1345   | 8 4.500            | 160  |          | 1199143      |
| 562     | 1354   | 9 4.520            | 187  |          | 1086164      |
| 563     | 131402 | 10* 4.446          | 75   |          | 1031904      |
| 564     | 1412   | 11 4.525           | 94   |          | 814661       |
| 565     | 1420   | 12 4.545           | 179  |          | 1294772      |
| 566     | 1432   | 13 4.553           | 97   |          | 853037       |
| 567     | 1442   | 14 4.600           | 57   |          | 415997       |
| 568     | 1450   | 15 4.457           | 34   |          | 3905832      |
| 569     | 1458   | 16 4.510           | —    |          | 274275       |
| 570     | 1505   | 17 4.499           | 10   |          | 106215       |
| 571     | 1520   | 59.2 sty 4.513     |      |          | 2682264      |
| 572     | 1529   | 59.2 sty 4.556     |      |          | 2293570      |
| 573     | 1548   | 1 4.500            | 157  |          | 2528589      |
| 574     | 1554   | 2-Slow Start 4.315 | 106  |          | 1840643      |
| 575     | 1603   | 3 4.508            | 63   |          | 1153821      |
| 576     | 1613   | 4 4.530            | 34.5 |          | 574046       |
| 577     | 1623   | 5 4.574            | 24   |          | 373127       |
| 578     | 1632   | 6 4.554            | 17   |          | 237757       |
| 579     | 1649   | 7 4.635            | 9.4  |          | 142841       |
| 580     | 161107 | 59.2 sty 4.493     |      |          | 2791952      |
| 581     | 1714   | 59.2 sty 4.567     |      |          | 2179318      |
| 582     | 17     | 59.2 sty 4.594     |      |          | 2123979      |
| 583     |        | 122 sty 4.471      |      |          | 10257792     |
| 584     |        | 122 sty 4.538      |      |          | 4894480      |
| 585     |        | 122 sty 4.564      |      |          | 4594032      |
|         |        |                    |      |          |              |
|         |        |                    |      |          |              |
|         |        |                    |      |          |              |

END of Run

0410-03  
MMA-11-2

END

\* Pressurized sample if slow start

4/10/97

- In effort to reduce potential poly. GC temps reduced

Valve 100°F

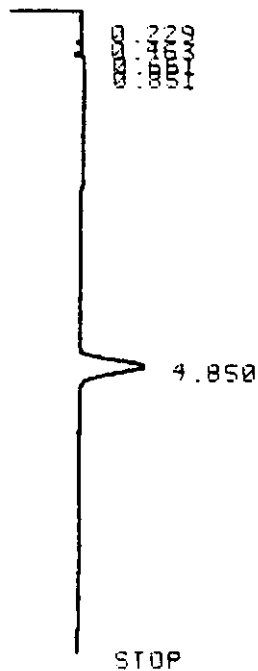
Inlet 100°

Oven 120°

- Cal curve remains non linear in lower end. Reproducibility seems improved based on morning calibrations. (too early to be sure)

H10/97  
Am Cals :  
NMAA-4-1  
0410-1

\* RUN # 521      APR 10, 1997 06:33:44  
START



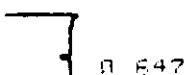
RUN# 521      APR 10, 1997 06:33:44

NO CALIB PEAKS FOUND  
AREA%

| RT    | AREA   | TYPE | WIDTH | AREA%    |
|-------|--------|------|-------|----------|
| .229  | 17876  | BU   | .143  | 3.52678  |
| .463  | 31930  | PP   | .154  | 6.29951  |
| .661  | 57938  | PV   | .180  | 11.43066 |
| .851  | 21485  | UU   | .077  | 4.23880  |
| 4.850 | 377636 | BP   | .210  | 74.50426 |

TOTAL AREA= 506865  
MUL FACTOR=1.0000E+00

\* RUN # 522      APR 10, 1997 06:43:17  
START



4.589

STOP

RUN# 522 APR 10, 1997 06:43:17

NO CALIB PEAKS FOUND

AREA%

| RT    | AREA  | TYPE | WIDTH | AREA%    |
|-------|-------|------|-------|----------|
| .647  | 52739 | PU   | .168  | 93.31034 |
| 4.589 | 3781  | BP   | .169  | 6.68967  |

TOTAL AREA= 56520

MUL FACTOR=1.0000E+00

\* RUN # 523 APR 10, 1997 06:49:28

START

0.205  
0.626

4.523

STOP

RUN# 523 APR 10, 1997 06:49:28

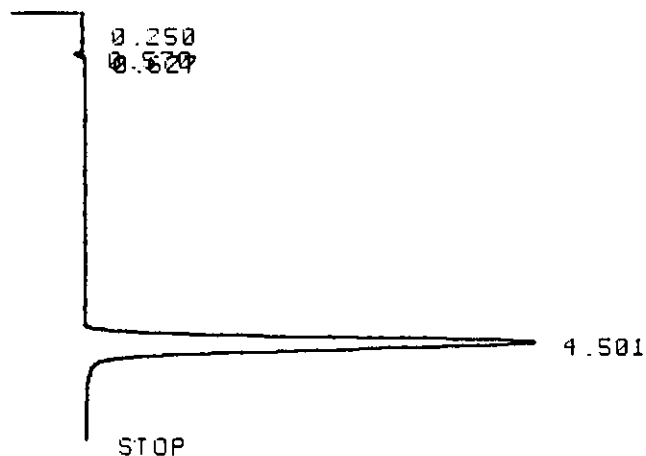
NO CALIB PEAKS FOUND

AREA%

|       |       |    |      |          |
|-------|-------|----|------|----------|
| .205  | 15113 | BU | .096 | 37.77211 |
| .626  | 19356 | PB | .101 | 48.37669 |
| 4.523 | 5542  | BP | .169 | 13.85120 |

TOTAL AREA= 40011  
MUL FACTOR=1.0000E+00

\* RUN # 524 APR 10, 1997 07:00:35  
START



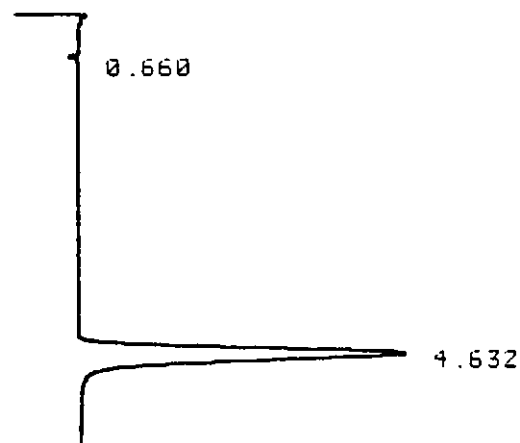
RUN# 524 APR 10, 1997 07:00:35

NO CALIB PEAKS FOUND  
AREA%

| RT    | AREA    | TYPE | WIDTH | AREA%    |
|-------|---------|------|-------|----------|
| .250  | 6640    | PV   | .202  | .25756   |
| .570  | 2371    | PV   | .012  | .09197   |
| .627  | 20716   | UB   | .093  | .80355   |
| 4.501 | 2548349 | PB   | .203  | 98.84691 |

TOTAL AREA=2578075  
MUL FACTOR=1.0000E+00

\* RUN # 525 APR 10, 1997 07:07:42  
START



STOP

RUN# 525 APR 10, 1997 07:07:42

NO CALIB PEAKS FOUND

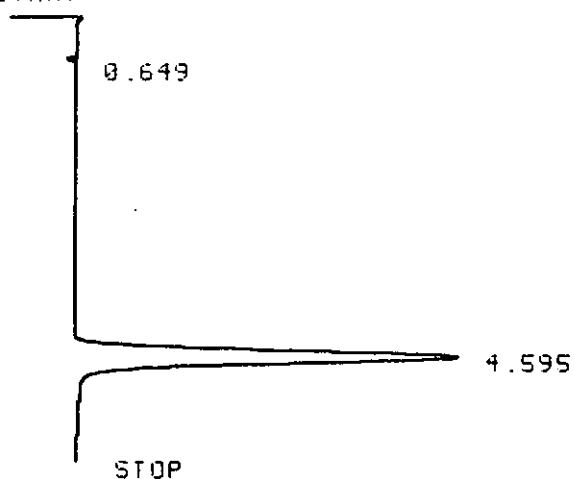
AREA%

| RT    | AREA    | TYPE | WIDTH | AREA%    |
|-------|---------|------|-------|----------|
| .660  | 72453   | PV   | .225  | 3.72156  |
| 4.632 | 1874389 | PB   | .206  | 96.27843 |

TOTAL AREA=1946842  
MUL FACTOR=1.0000E+00

\* RUN # 526 APR 10, 1997 07:15:49

START



RUN# 526 APR 10, 1997 07:15:49

NO CALIB PEAKS FOUND

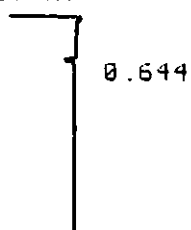
AREA%

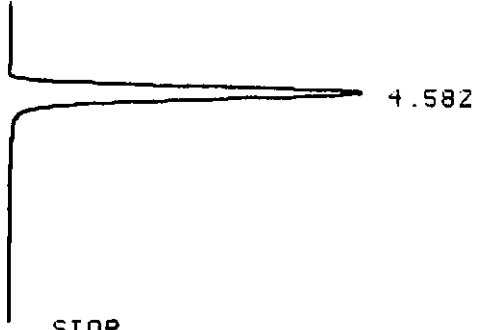
| RT    | AREA    | TYPE | WIDTH | AREA%    |
|-------|---------|------|-------|----------|
| .649  | 38889   | PV   | .121  | 1.77673  |
| 4.595 | 2149910 | PB   | .203  | 98.22326 |

TOTAL AREA=2188798  
MUL FACTOR=1.0000E+00

\* RUN # 527 APR 10, 1997 07:22:58

START





RUN# 527 APR 10, 1997 07:22:58

NO CALIB PEAKS FOUND

AREA%

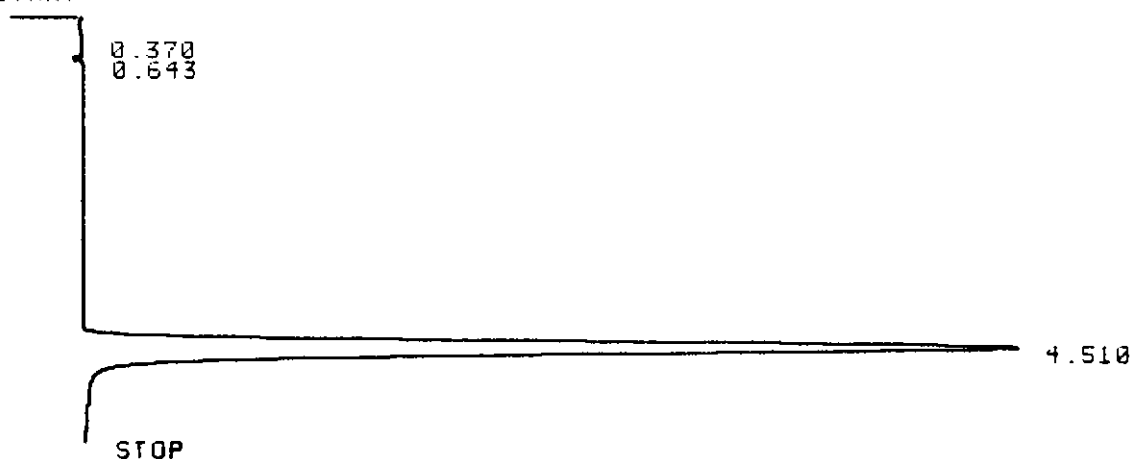
| RT    | AREA    | TYPE | WIDTH | AREA%    |
|-------|---------|------|-------|----------|
| .644  | 61252   | PU   | .216  | 2.92139  |
| 4.582 | 2035419 | PB   | .207  | 97.07862 |

TOTAL AREA=2096671

MUL FACTOR=1.0000E+00

\* RUN # 528 APR 10, 1997 07:32:31

START



RUN# 528 APR 10, 1997 07:32:31

NO CALIB PEAKS FOUND

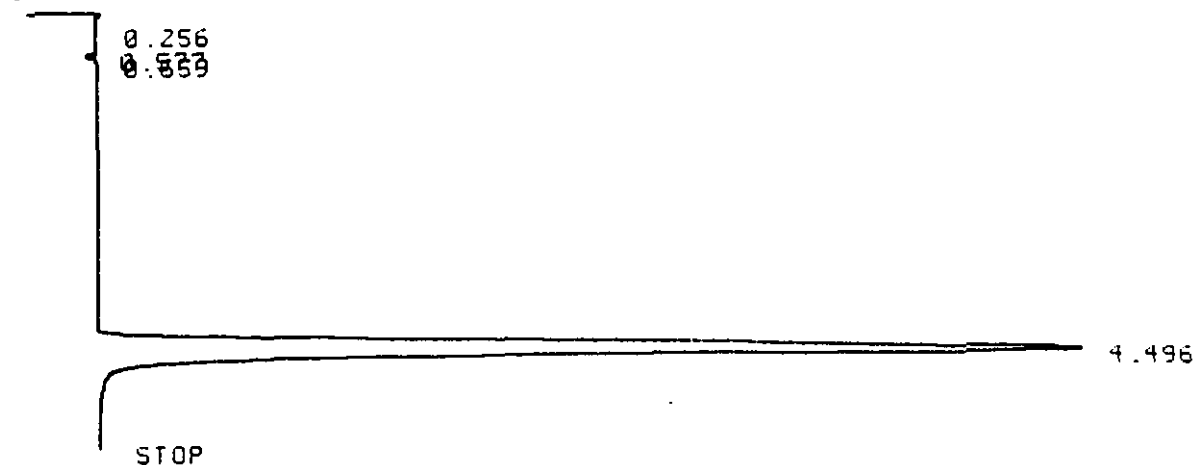
AREA%

| RT    | AREA    | TYPE | WIDTH | AREA%    |
|-------|---------|------|-------|----------|
| .370  | 54140   | BU   | .229  | 1.00470  |
| .643  | 24974   | PU   | .075  | .46345   |
| 4.510 | 5309578 | PB   | .204  | 98.53187 |

TOTAL AREA=5388691

MUL FACTOR=1.0000E+00

• RUN # 529 APR 10, 1997 07:39:08  
START



RUN# 529 APR 10, 1997 07:39:08

NO CALIB PEAKS FOUND

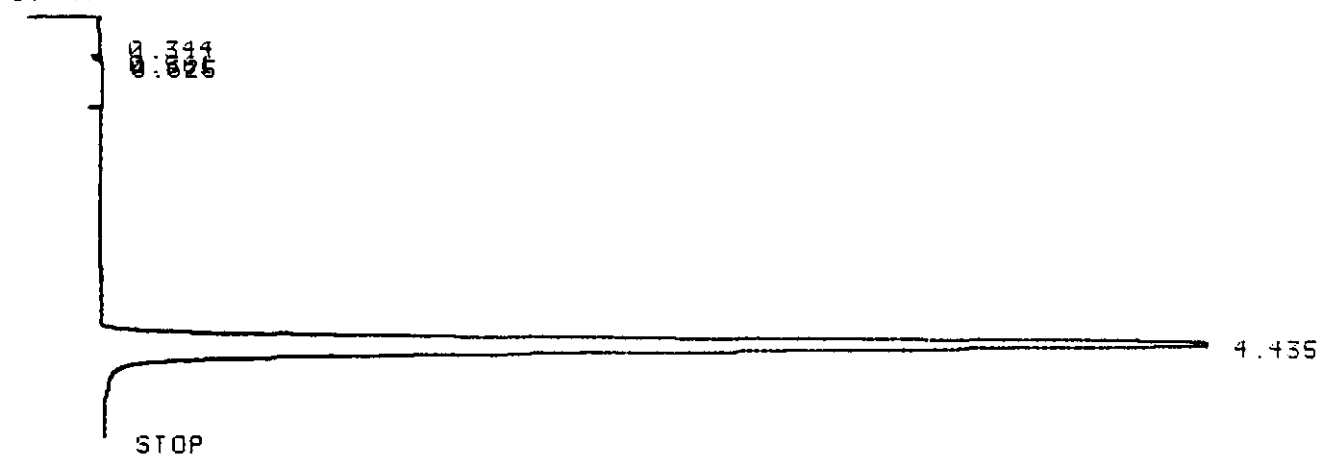
AREA%

| RT    | AREA    | TYPE | WIDTH | AREA%    |
|-------|---------|------|-------|----------|
| .256  | 17246   | BU   | .112  | .30512   |
| .577  | 2615    | PU   | .012  | .04626   |
| .659  | 66826   | UU   | .218  | 1.19228  |
| 4.496 | 5565603 | BB   | .204  | 98.46634 |

TOTAL AREA=5652291

MUL FACTOR=1.0000E+00

• RUN # 530 APR 10, 1997 07:45:57  
START



RUN# 530 APR 10, 1997 07:45:57

NO CALIB PEAKS FOUND

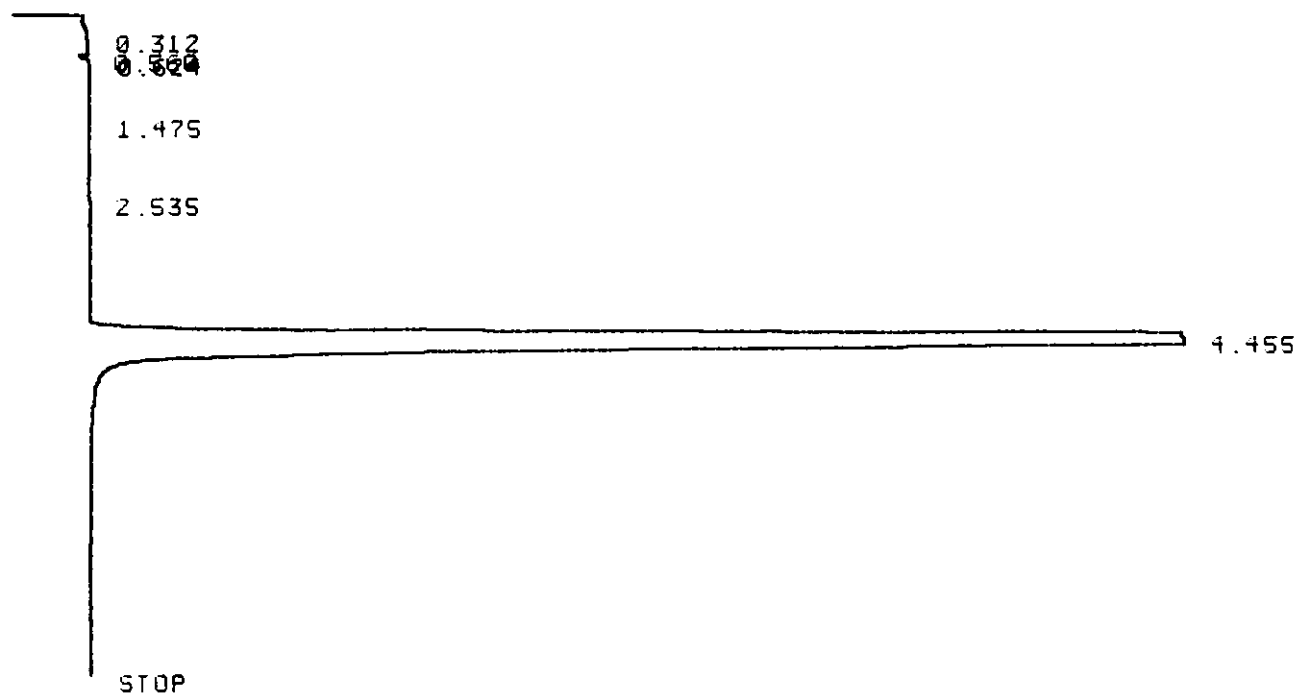
AREA%

| RT    | AREA    | TYPE | WIDTH | AREA%    |
|-------|---------|------|-------|----------|
| .344  | 63477   | BU   | .258  | .93561   |
| .561  | 3767    | PU   | .013  | .05552   |
| .625  | 36559   | UB   | .139  | .53885   |
| 4.435 | 6680784 | PB   | .203  | 98.47002 |



TOTAL AREA=6784586  
MUL FACTOR=1.0000E+00

\* RUN # 531 APR 10, 1997 07:52:54  
START



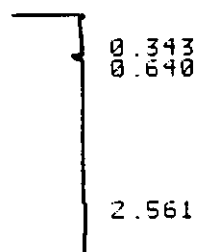
RUN# 531 APR 10, 1997 07:52:54

NO CALIB PEAKS FOUND  
AREA%

| RT    | AREA     | TYPE | WIDTH | AREA%    |
|-------|----------|------|-------|----------|
| .312  | 53372    | BU   | .195  | .51617   |
| .560  | 3242     | PU   | .013  | .03135   |
| .624  | 17700    | UU   | .068  | .17119   |
| 1.475 | 1361     | UP   | .106  | .01316   |
| 2.535 | 1110     | UP   | .106  | .01073   |
| 4.455 | 10263232 | PB   | .203  | 99.25741 |

TOTAL AREA=1.0340E+07  
MUL FACTOR=1.0000E+00

\* RUN # 532 APR 10, 1997 08:03:14  
START



4.480

STOP

RUN# 532 APR 10, 1997 08:03:14

NO CALIB PEAKS FOUND

AREA%

| RT    | AREA    | TYPE | WIDTH | AREA%    |
|-------|---------|------|-------|----------|
| .343  | 43536   | BU   | .200  | .45662   |
| .640  | 51791   | PB   | .195  | .54320   |
| 2.561 | 1347    | PP   | .131  | .01413   |
| 4.480 | 9437779 | BB   | .204  | 98.98605 |

TOTAL AREA=9.5345E+06

MUL FACTOR=1.0000E+00

\* RUN # 533 APR 10, 1997 08:10:09

START

0.361  
0.650

1.478

4.495

STOP

RUN# 533 APR 10, 1997 08:10:09

NO CALIB PEAKS FOUND

AREA%

| RT    | AREA    | TYPE | WIDTH | AREA%    |
|-------|---------|------|-------|----------|
| .361  | 50068   | BU   | .253  | .63739   |
| .650  | 76642   | PU   | .241  | .82984   |
| 1.478 | 21356   | VU   | .155  | .23123   |
| 4.495 | 9078938 | PB   | .204  | 98.30154 |

TOTAL AREA=9.2358E+06

MUL FACTOR=1.0000E+00

\* EDIT CALIB 0

2 = RETENTION TIME WINDOWS  
3 = TABLE ENTRIES  
4 = PEAK GROUPS  
5 = CALIB OPTIONS

SECTION TO BE EDITED: 2

REF % RTW C 5.0001:  
NON-REF % RTW C 5.0001:

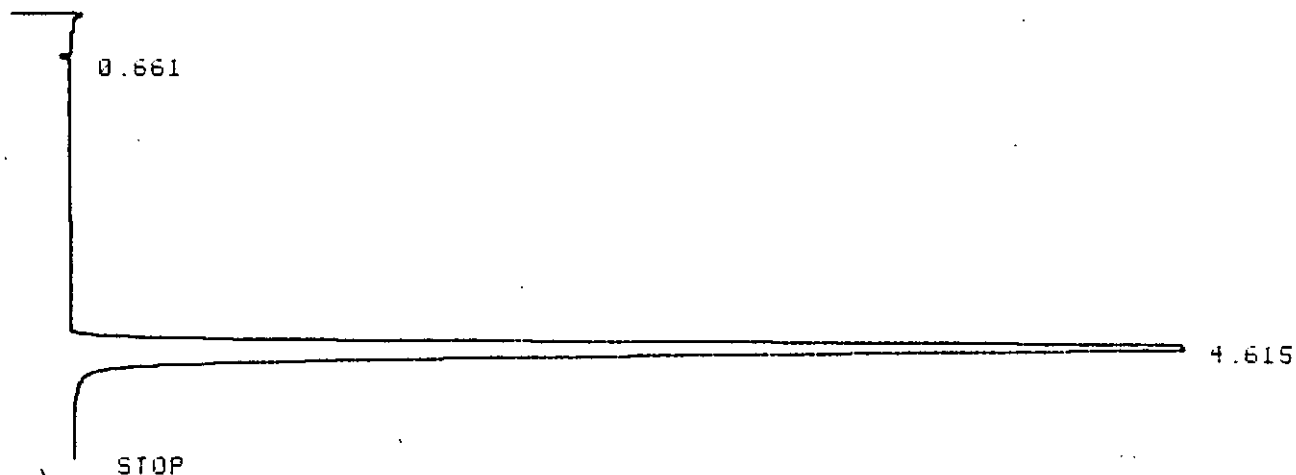
SECTION TO BE EDITED: 3

CAL#: 2  
RT: 4.495  
AMT: 204  
AMT/AREA: .0000222  
NAME: STYRENE

CAL#:

SECTION TO BE EDITED:

\* RUN # 534 APR 10, 1997 08:19:22  
START

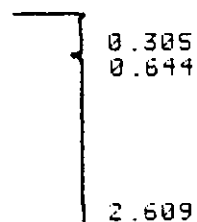


RUN# 534 APR 10, 1997 08:19:22

| ESTD-AREA | RT    | AREA TYPE  | CAL# | AMOUNT  |
|-----------|-------|------------|------|---------|
|           | 4.615 | 6918595 PB | 2    | 153.593 |

TOTAL AREA=6938845  
MUL FACTOR=1.0000E+00

\* RUN # 535 APR 10, 1997 08:28:51  
START



4.526

STOP

RUN# 535 APR 10, 1997 08:28:51

ESTD-AREA

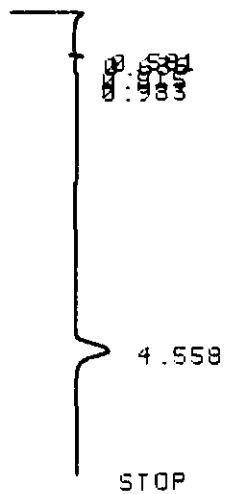
| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 4.526 | 8357315 | P8   | 2    | 185.532 |

TOTAL AREA=8.4391E+06

MUL FACTOR=1.0000E+00

\* RUN # 536 APR 10, 1997 09:19:07

START



STOP

RUN# 536 APR 10, 1997 09:19:07

ESTD-AREA

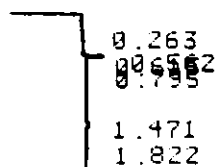
| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 4.558 | 200747 | PU   | 2    | 4.457  |

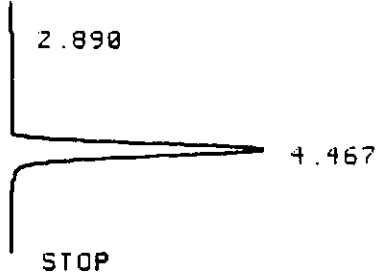
TOTAL AREA= 257136

MUL FACTOR=1.0000E+00

\* RUN # 537 APR 10, 1997 09:26:02

START



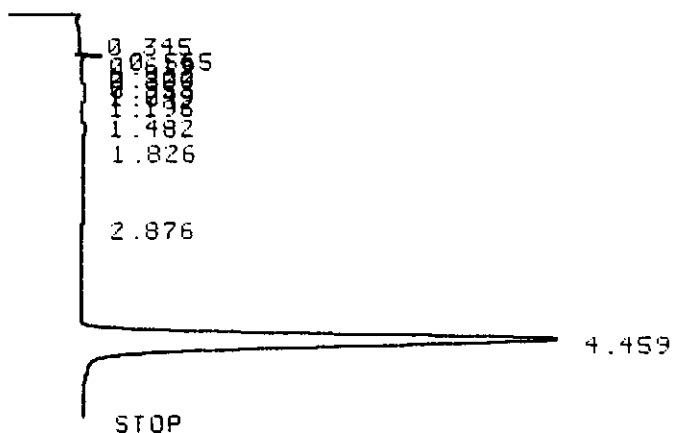


RUN# 537 APR 10, 1997 09:26:02

| ESTD-AREA | RT    | AREA TYPE | CAL# | AMOUNT |
|-----------|-------|-----------|------|--------|
|           | 4.467 | 1445060   | 88 2 | 32.080 |

TOTAL AREA=1582452  
MUL FACTOR=1.0000E+00

\* RUN # 538 APR 10, 1997 09:32:28  
START

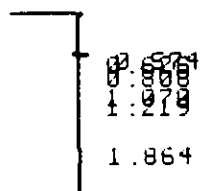


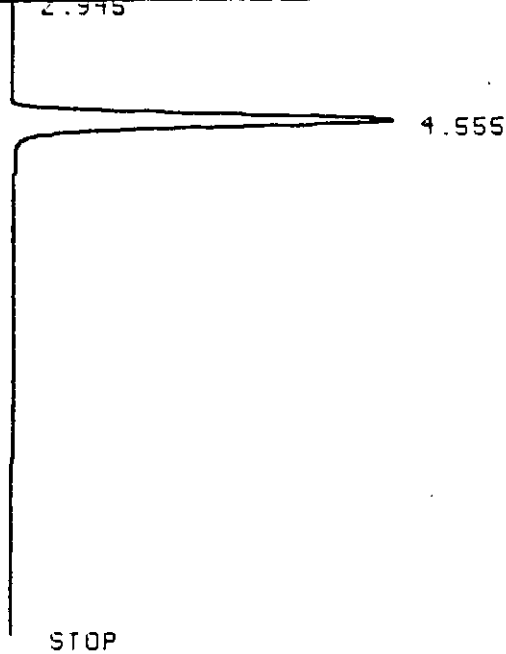
RUN# 538 APR 10, 1997 09:32:28

| ESTD-AREA | RT    | AREA TYPE | CAL# | AMOUNT |
|-----------|-------|-----------|------|--------|
|           | 4.459 | 2702733   | P8 2 | 60.001 |

TOTAL AREA=2902888  
MUL FACTOR=1.0000E+00

\* RUN # 539 APR 10, 1997 09:38:19  
START





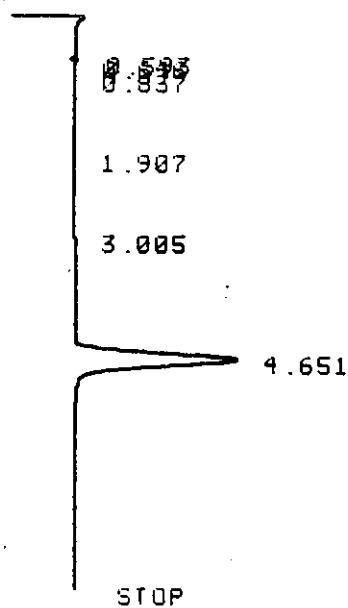
RUN# 539 APR 10, 1997 09:38:19

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.555 | 2158397 | PB   | 2    | 47.916 |

TOTAL AREA=2223822  
MUL FACTOR=1.0000E+00

\* RUN # 540 APR 10, 1997 09:50:06  
START

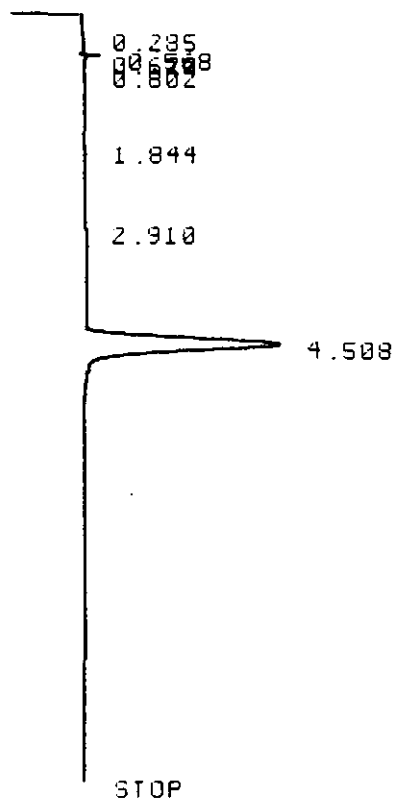


RUN# 540 APR 10, 1997 09:50:06

ESTD-AREA

TOTAL AREA= 990283  
MUL FACTOR=1.0000E+00

\* RUN # 541 APR 10, 1997 09:58:09  
START



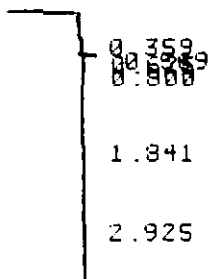
RUN# 541 APR 10, 1997 09:58:09

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.508 | 1122087 | PB   | 2    | 24.910 |

TOTAL AREA=1109066  
MUL FACTOR=1.0000E+00

\* RUN # 542 APR 10, 1997 10:08:56  
START



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ESTO-AREA

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4.465

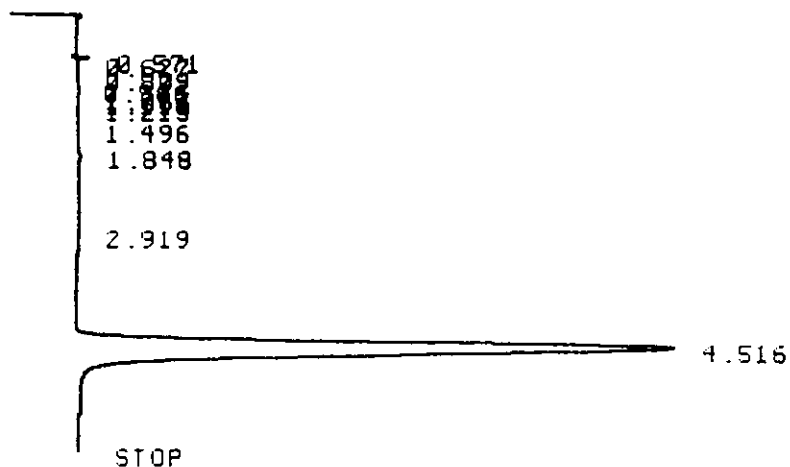
ESTD-AREA

TOTAL AREA=2543262  
MUL FACTOR=1.0000E+00



\* RUN # 544 APR 10, 1997 10:28:59

START



RUN# 544 APR 10, 1997 10:28:59

ESTD-AREA

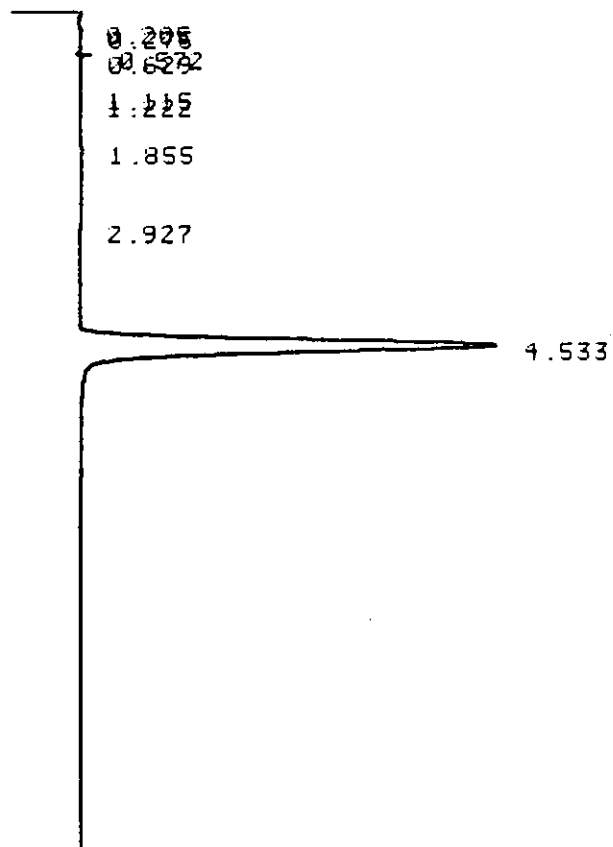
| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.516 | 3420389 | PB   | 2    | 75.933 |

TOTAL AREA=3644749

MUL FACTOR=1.0000E+00

\* RUN # 545 APR 10, 1997 10:37:44

START



STOP

RUN# 545 APR 10, 1997 10:37:44

ESTD-AREA

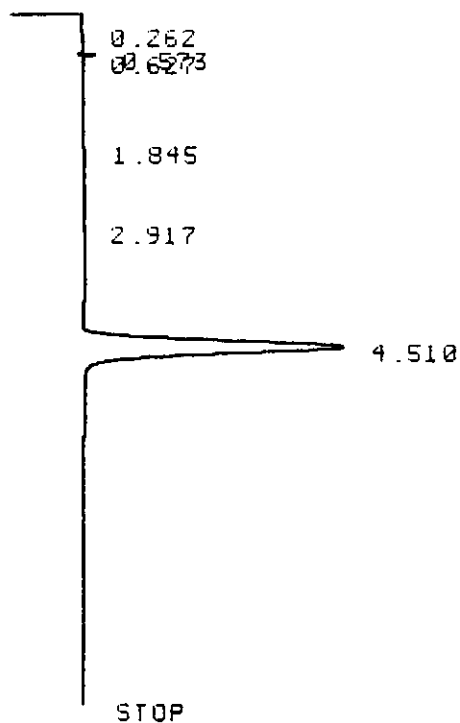
| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.533 | 2382866 | PB   | 2    | 52.900 |

TOTAL AREA=2468978

MUL FACTOR=1.0000E+00

\* RUN # 546 APR 10, 1997 10:51:01

START



RUN# 546 APR 10, 1997 10:51:01

ESTD-AREA

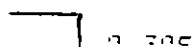
| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.510 | 1486246 | PB   | 2    | 32.995 |

TOTAL AREA=1555519

MUL FACTOR=1.0000E+00

\* RUN # 547 APR 10, 1997 11:00:39

START



1.861

4.531

STOP

RUN# 547 APR 10, 1997 11:00:39

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 4.531 | 605843 | PB   | 2    | 13.450 |

TOTAL AREA= 636535  
MUL FACTOR=1.0000E+00

\* RUN # 548 APR 10, 1997 11:11:35  
START

0.246  
00.6270

1.854

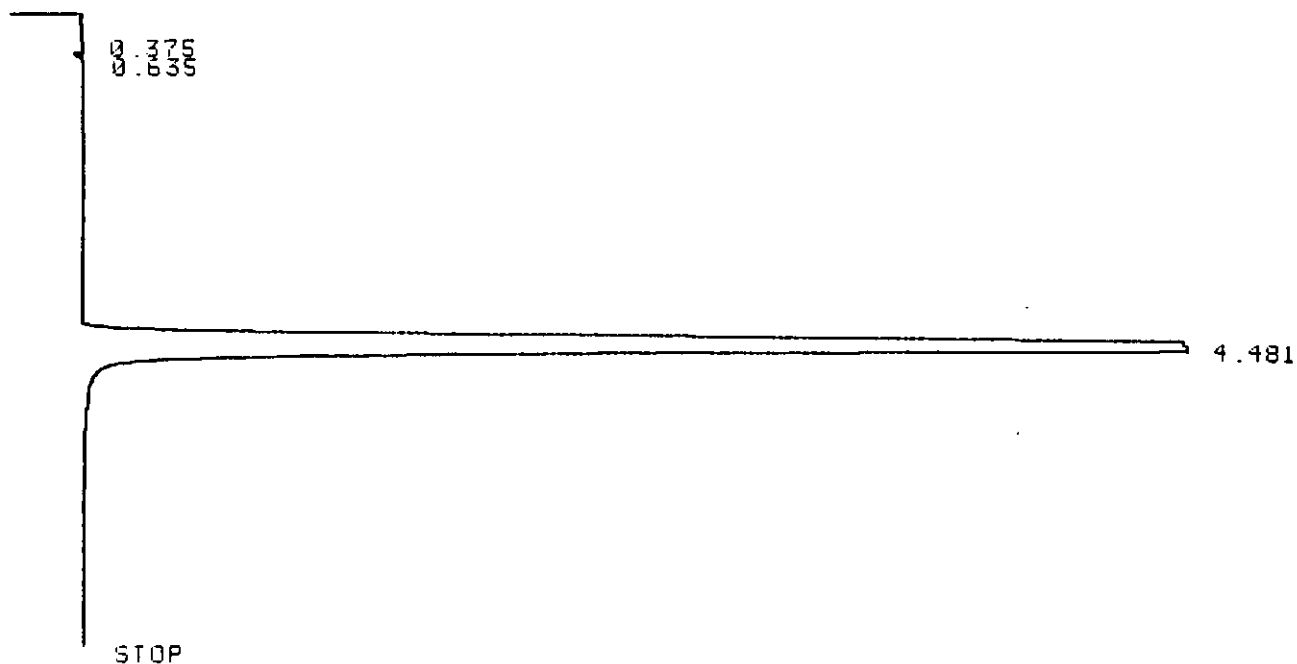
4.528

STOP

| ESTD-AREA | RT    | AREA TYPE | CAL# | AMOUNT |
|-----------|-------|-----------|------|--------|
|           | 4.528 | 198041 PU | 2    | 4.397  |

TOTAL AREA= 278232  
 MUL FACTOR=1.0000E+00

\* RUN # 549 APR 10, 1997 11:22:30  
 START

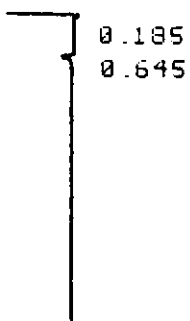


RUN# 549 APR 10, 1997 11:22:30

| ESTD-AREA | RT    | AREA TYPE  | CAL# | AMOUNT  |
|-----------|-------|------------|------|---------|
|           | 4.481 | 9349523 PB | 2    | 207.559 |

TOTAL AREA=9.4867E+06  
 MUL FACTOR=1.0000E+00

\* RUN # 550 APR 10, 1997 11:31:50  
 START



STOP

RUN# 550 APR 10, 1997 11:31:50

ESTD-AREA

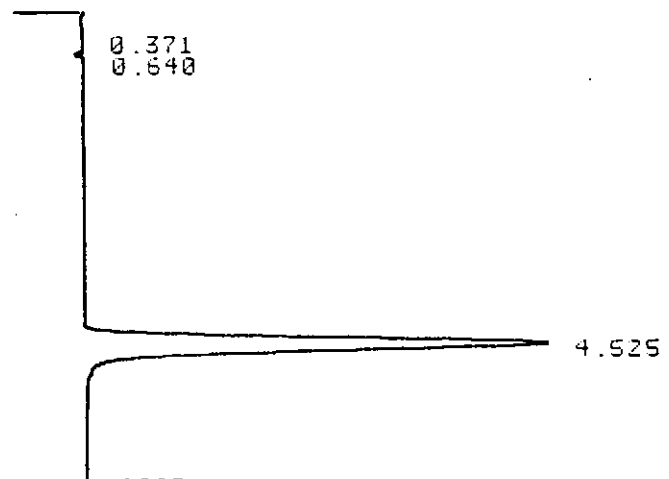
| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 4.508 | 8442106 | BB   | 2    | 187.415 |

TOTAL AREA=8.4686E+06

MUL FACTOR=1.0000E+00

\* RUN # 551 APR 10, 1997 11:39:49

START



0.371  
0.640

4.525

STOP

RUN# 551 APR 10, 1997 11:39:49

ESTD-AREA

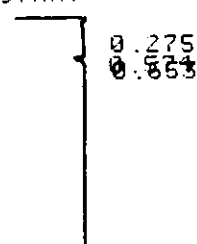
| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.525 | 2656904 | PB   | 2    | 58.983 |

TOTAL AREA=2757586

MUL FACTOR=1.0000E+00

\* RUN # 552 APR 10, 1997 11:47:07

START



0.275  
0.853

4.494  
STOP

RUN# 552 APR 10, 1997 11:47:07

| ESTD-AREA | RT    | AREA TYPE | CAL# | AMOUNT |
|-----------|-------|-----------|------|--------|
|           | 4.494 | 2773917   | PB 2 | 61.581 |

TOTAL AREA=2848494  
MUL FACTOR=1.0000E+00

\* RUN # 553 APR 10, 1997 12:33:11  
START

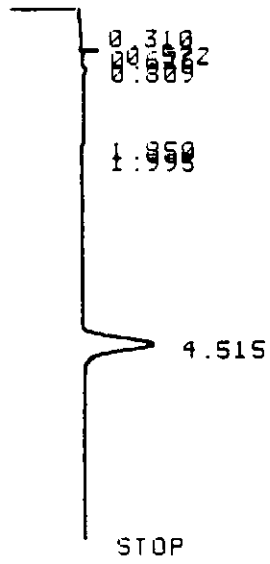
00.6235  
4.505  
STOP

RUN# 553 APR 10, 1997 12:33:11

| ESTD-AREA | RT    | AREA TYPE | CAL# | AMOUNT |
|-----------|-------|-----------|------|--------|
|           | 4.505 | 27062     | PP 2 | .601   |

TOTAL AREA= 66120  
MUL FACTOR=1.0000E+00

\* RUN # 554 APR 10, 1997 12:44:05



Run 554  
12:44:05

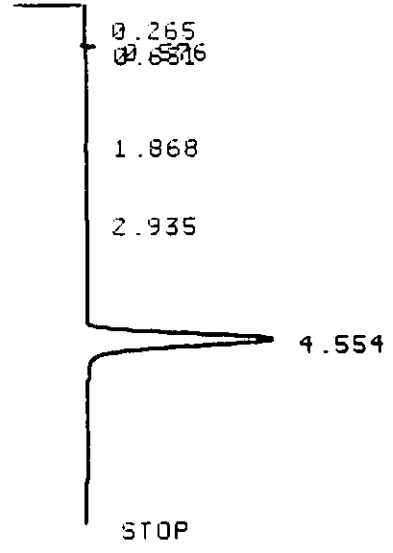
0410-2  
NMMA-13-1

RUN# 554 APR 10, 1997 12:44:05

| ESTD-AREA |        |      |      |        |
|-----------|--------|------|------|--------|
| RT        | AREA   | TYPE | CAL# | AMOUNT |
| 4.515     | 411718 | PU   | 2    | 9.140  |

TOTAL AREA= 486228  
MUL FACTOR=1.0000E+00

\* RUN # 555 APR 10, 1997 12:51:58  
START

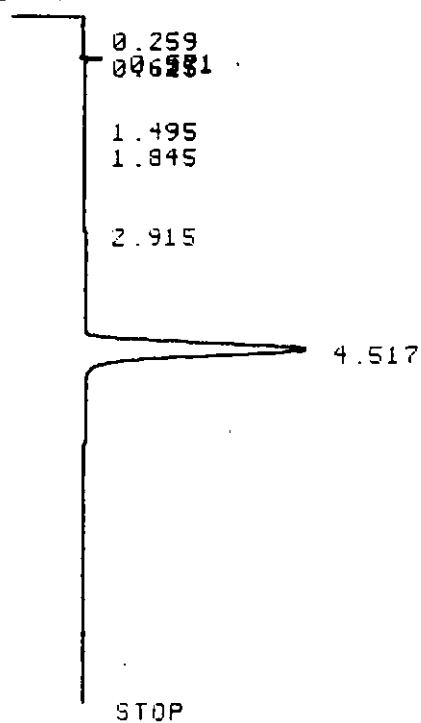


RUN# 555 APR 10, 1997 12:51:58

| ESTD-AREA |         |      |      |        |
|-----------|---------|------|------|--------|
| RT        | AREA    | TYPE | CAL# | AMOUNT |
| 4.554     | 1074503 | BB   | 2    | 23.854 |

TOTAL AREA=1121575  
MUL FACTOR=1.0000E+00

\* RUN # 556      APR 10, 1997 13:00:39  
START



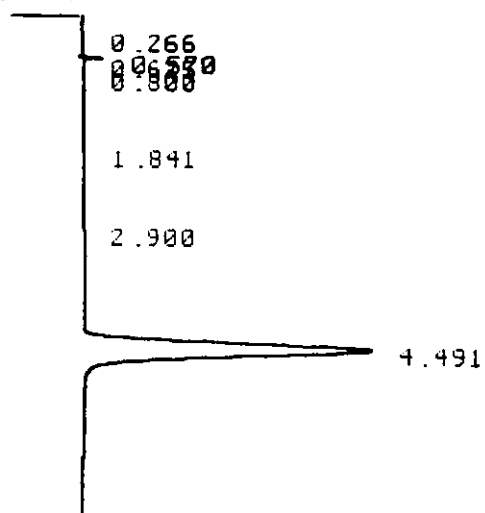
RUN# 556      APR 10, 1997 13:00:39

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.517 | 1269243 | PB   | 2    | 28.177 |

TOTAL AREA=1330088  
MUL FACTOR=1.0000E+00

\* RUN # 557      APR 10, 1997 13:10:17  
START





STOP

RUN# 557 APR 10, 1997 13:10:17

ESTD-AREA

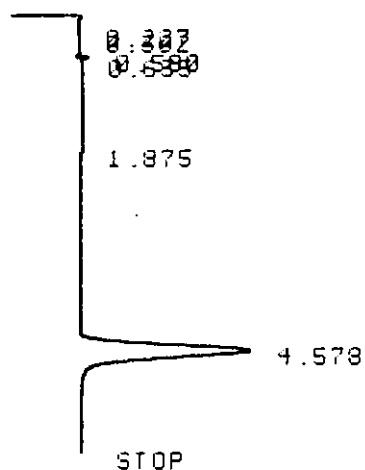
| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.491 | 1645091 | PB   | 2    | 36.521 |

TOTAL AREA=1710046

MUL FACTOR=1.0000E+00

\* RUN # 558 APR 10, 1997 13:18:33

START



RUN# 558 APR 10, 1997 13:18:33

ESTD-AREA

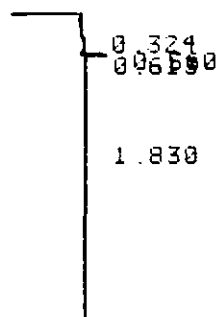
| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 4.578 | 980482 | PB   | 2    | 21.767 |

TOTAL AREA=1027815

MUL FACTOR=1.0000E+00

\* RUN # 559 APR 10, 1997 13:28:49

START



STOP

RUN# 559 APR 10, 1997 13:28:49

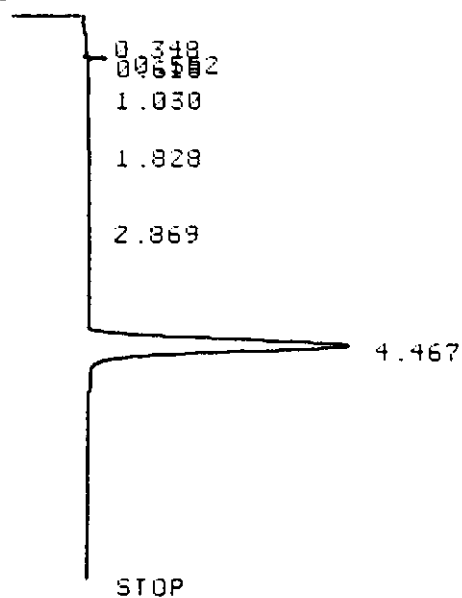
ESTD-AREA

| RT    | AREA TYPE | CAL# | AMOUNT |
|-------|-----------|------|--------|
| 4.468 | 627157 BB | 2    | 13.923 |

TOTAL AREA= 720152  
MUL FACTOR=1.0000E+00

\* RUN # 560 APR 10, 1997 13:36:21

START



STOP

RUN# 560 APR 10, 1997 13:36:21

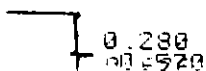
ESTD-AREA

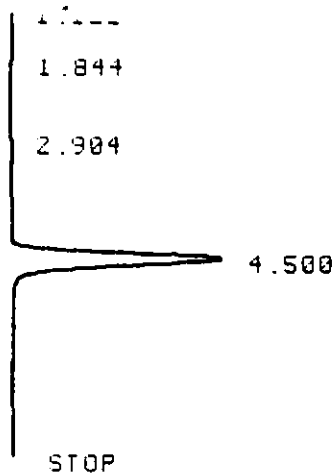
| RT    | AREA TYPE  | CAL# | AMOUNT |
|-------|------------|------|--------|
| 4.467 | 1477083 PB | 2    | 32.791 |

TOTAL AREA=1541776  
MUL FACTOR=1.0000E+00

\* RUN # 561 APR 10, 1997 13:45:06

START



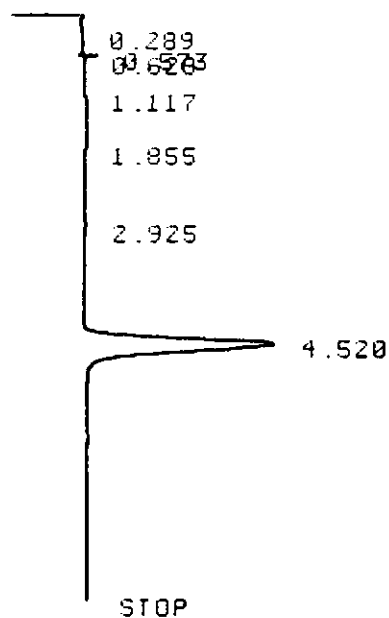


RUN# 561 APR 10, 1997 13:45:06

| ESTD-AREA |         |      |      |        |
|-----------|---------|------|------|--------|
| RT        | AREA    | TYPE | CAL# | AMOUNT |
| 4.500     | 1199743 | BB   | 2    | 26.634 |

TOTAL AREA=1301146  
MUL FACTOR=1.0000E+00

\* RUN # 562 APR 10, 1997 13:54:23  
START

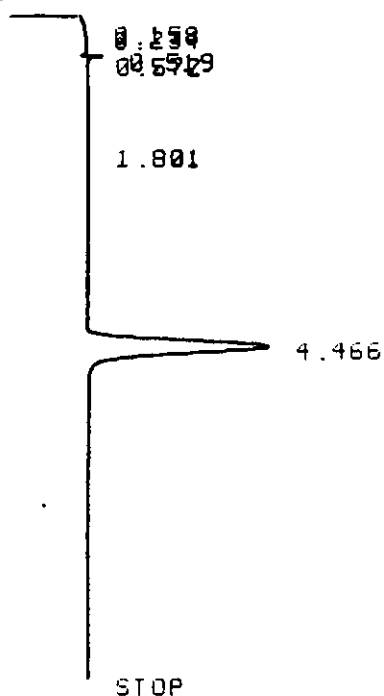


RUN# 562 APR 10, 1997 13:54:23

| ESTD-AREA |         |      |      |        |
|-----------|---------|------|------|--------|
| RT        | AREA    | TYPE | CAL# | AMOUNT |
| 4.520     | 1086114 | PB   | 2    | 24.112 |

TOTAL AREA=1154517  
MUL FACTOR=1.0000E+00

\* RUN # 563      APR 10, 1997 14:02:56  
START

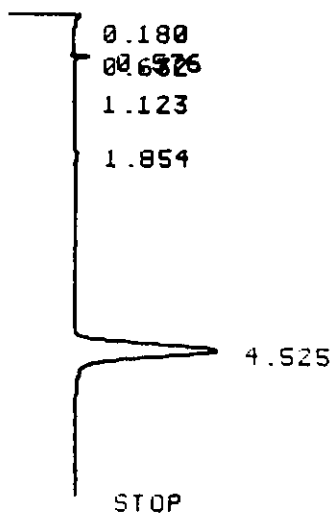


RUN# 563      APR 10, 1997 14:02:56

| ESTD-AREA | RT    | AREA    | TYPE | CAL# | AMOUNT |
|-----------|-------|---------|------|------|--------|
|           | 4.466 | 1031904 | BB   | 2    | 22.908 |

TOTAL AREA=1115469  
MUL FACTOR=1.0000E+00

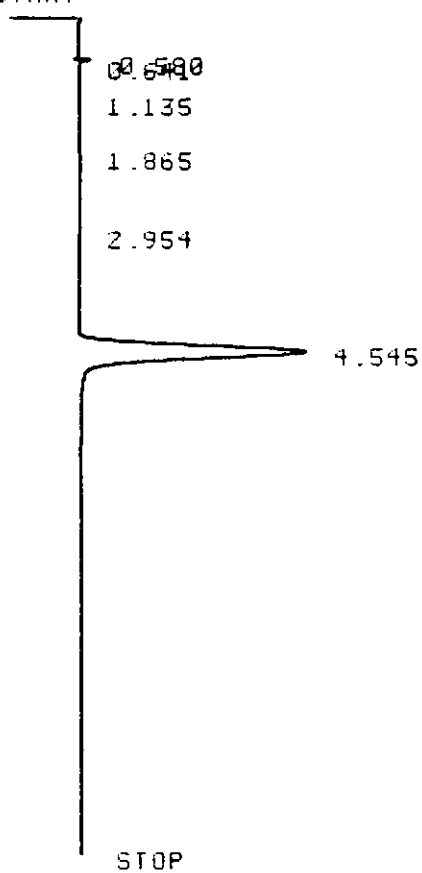
\* RUN # 564      APR 10, 1997 14:12:44  
START



| ESTD-AREA | RT    | AREA TYPE | CAL# | AMOUNT |
|-----------|-------|-----------|------|--------|
|           | 4.525 | 814661 PB | 2    | 18.085 |

TOTAL AREA= 862821  
MUL FACTOR=1.0000E+00

\* RUN # 565 APR 10, 1997 14:20:16  
START

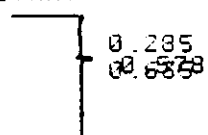


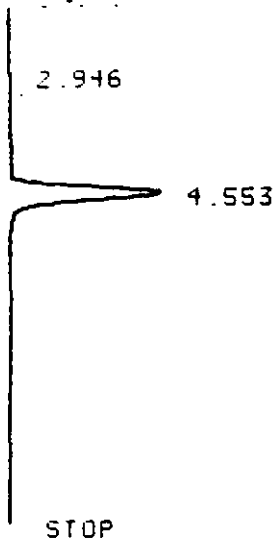
RUN# 565 APR 10, 1997 14:20:16

| ESTD-AREA | RT    | AREA TYPE  | CAL# | AMOUNT |
|-----------|-------|------------|------|--------|
|           | 4.545 | 1294772 PB | 2    | 28.744 |

TOTAL AREA=1359293  
MUL FACTOR=1.0000E+00

\* RUN # 566 APR 10, 1997 14:32:28  
START



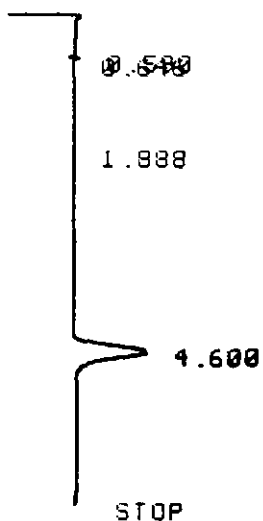


RUN# 566 APR 10, 1997 14:32:28

| ESTD-AREA | RT    | AREA TYPE | CAL# | AMOUNT |
|-----------|-------|-----------|------|--------|
|           | 4.553 | 853037 BB | 2    | 18.937 |

TOTAL AREA= 914922  
MUL FACTOR=1.0000E+00

\* RUN # 567 APR 10, 1997 14:42:01  
START

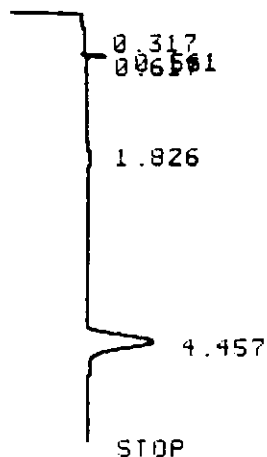


RUN# 567 APR 10, 1997 14:42:01

| ESTD-AREA | RT    | AREA TYPE | CAL# | AMOUNT |
|-----------|-------|-----------|------|--------|
|           | 4.600 | 415977 PU | 2    | 9.235  |

TOTAL AREA= 437883  
MUL FACTOR=1.0000E+00

\* RUN # 568      APR 10, 1997 14:50:15  
START



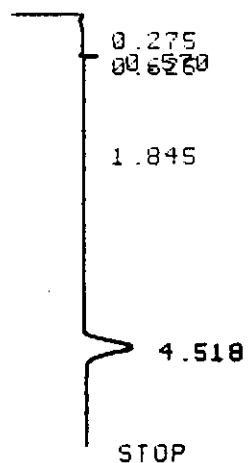
RUN# 568      APR 10, 1997 14:50:15

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 4.457 | 390532 | PV   | 2    | 8.670  |

TOTAL AREA= 494739  
MUL FACTOR=1.0000E+00

\* RUN # 569      APR 10, 1997 14:58:07  
START



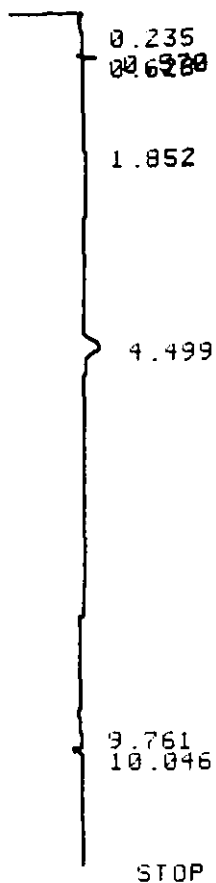
RUN# 569      APR 10, 1997 14:58:07

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 4.518 | 274275 | BV   | 2    | 6.089  |

TOTAL AREA= 326028  
MUL FACTOR=1.0000E+00

\* RUN # 570      APR 10, 1997 15:05:30  
START

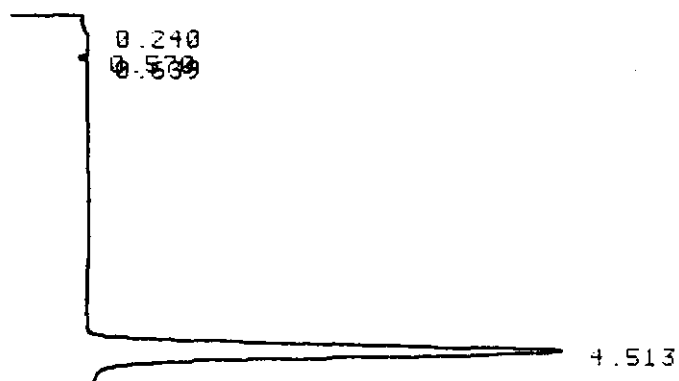


RUN# 570      APR 10, 1997 15:05:30

| ESTD-AREA | RT    | AREA   | TYPE | CAL# | AMOUNT |
|-----------|-------|--------|------|------|--------|
|           | 4.499 | 106215 | UU   | 2    | 2.358  |

TOTAL AREA= 224838  
MUL FACTOR=1.0000E+00

\* RUN # 571      APR 10, 1997 15:20:21  
START





01602

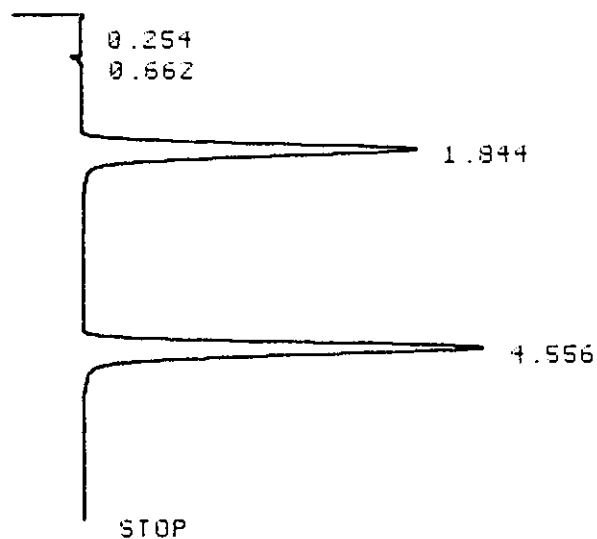
RUN# 571 APR 10, 1997 15:20:21

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.513 | 2682264 | PB   | 2    | 59.546 |

TOTAL AREA=2842413  
MUL FACTOR=1.0000E+00

\* RUN # 572 APR 10, 1997 15:29:45  
START



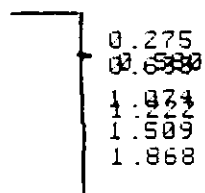
RUN# 572 APR 10, 1997 15:29:45

ESTD-AREA

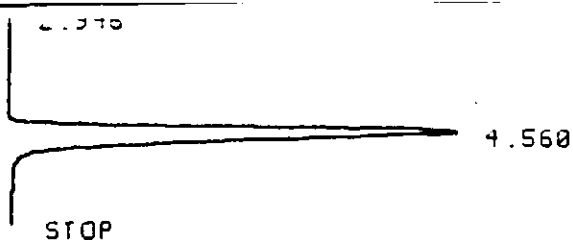
| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.556 | 2293570 | PB   | 2    | 50.917 |

TOTAL AREA=4229382  
MUL FACTOR=1.0000E+00

\* RUN # 573 APR 10, 1997 15:48:06  
START



0401-03  
NMAA-11-2

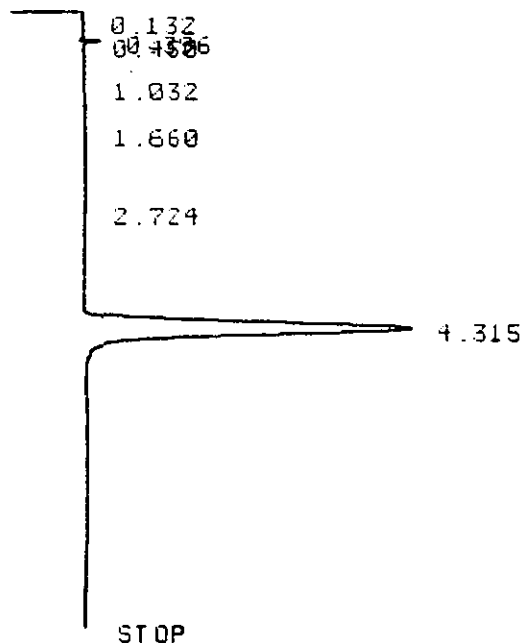


RUN# 573 APR 10, 1997 15:48:06

| ESTD-AREA | RT    | AREA TYPE  | CAL# | AMOUNT |
|-----------|-------|------------|------|--------|
|           | 4.560 | 2528589 PB | 2    | 56.135 |

TOTAL AREA=2629117  
MUL FACTOR=1.0000E+00

\* RUN # 574 APR 10, 1997 15:54:24  
START



RUN# 574 APR 10, 1997 15:54:24

| ESTD-AREA | RT    | AREA TYPE  | CAL# | AMOUNT |
|-----------|-------|------------|------|--------|
|           | 1.660 | 4694 PP    | 1    | .267   |
|           | 4.315 | 1840643 PB | 2    | 40.862 |

TOTAL AREA=1871046  
MUL FACTOR=1.0000E+00

\* RUN # 575 APR 10, 1997 16:03:02

0.266  
00.6249

1.845

2.924

4.508

STOP

RUN# 575 APR 10, 1997 16:03:02

ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT |
|-------|------------|------|--------|
| 4.508 | 1153821 BB | 2    | 25.615 |

TOTAL AREA=1218595  
MUL FACTOR=1.0000E+00

\* RUN # 576 APR 10, 1997 16:13:39  
START

0.264  
00.6280

1.850

4.530

STOP

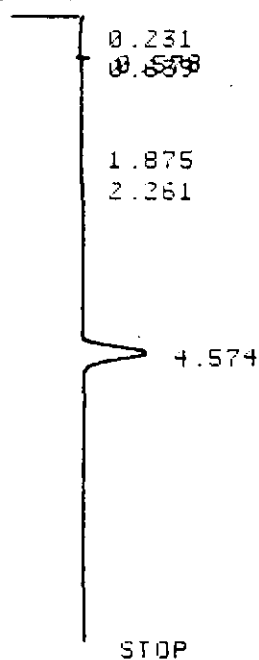
RUN# 576 APR 10, 1997 16:13:39

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 4.530 | 574047 | PB   | 2    | 12.744 |

TOTAL AREA= 642902  
MUL FACTOR=1.0000E+00

\* RUN # 577 APR 10, 1997 16:23:15  
START



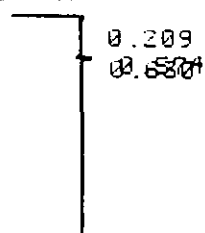
RUN# 577 APR 10, 1997 16:23:15

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 4.574 | 373127 | PB   | 2    | 8.283  |

TOTAL AREA= 406979  
MUL FACTOR=1.0000E+00

\* RUN # 578 APR 10, 1997 16:32:48  
START



4.554

STOP

RUN# 578 APR 10, 1997 16:32:48

ESTD-AREA

| RT    | AREA   | TYPE | CL# | AMOUNT |
|-------|--------|------|-----|--------|
| 4.554 | 237757 | BP   | 2   | 5.278  |

TOTAL AREA= 264709

MUL FACTOR=1.0000E+00

\* RUN # 579 APR 10, 1997 16:49:15

START

0.550

4.635

STOP

RUN# 579 APR 10, 1997 16:49:15

ESTD-AREA

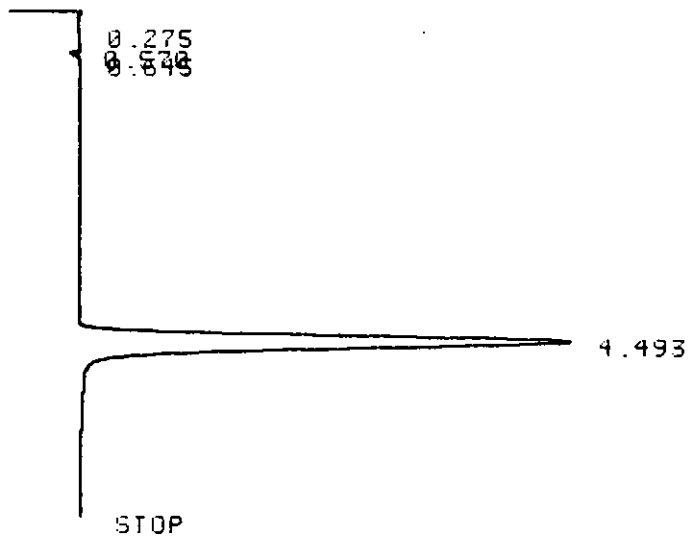
| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 4.635 | 142841 | PU   | 2    | 3.171  |

TOTAL AREA= 166697

MUL FACTOR=1.0000E+00

\* RUN # 580 APR 10, 1997 17:07:07

START



RUN# 580 APR 10, 1997 17:07:07

ESTD-AREA

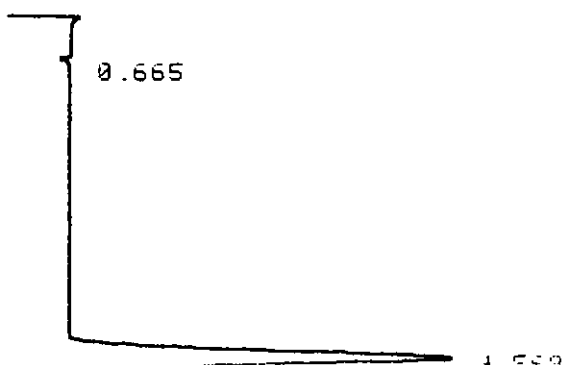
| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.493 | 2791952 | BB   | 2    | 61.981 |

TOTAL AREA=2853082

MUL FACTOR=1.0000E+00

\* RUN # 581 APR 10, 1997 17:14:45

START



STOP

RUN# 581 APR 10, 1997 17:14:45

ESTD-AREA

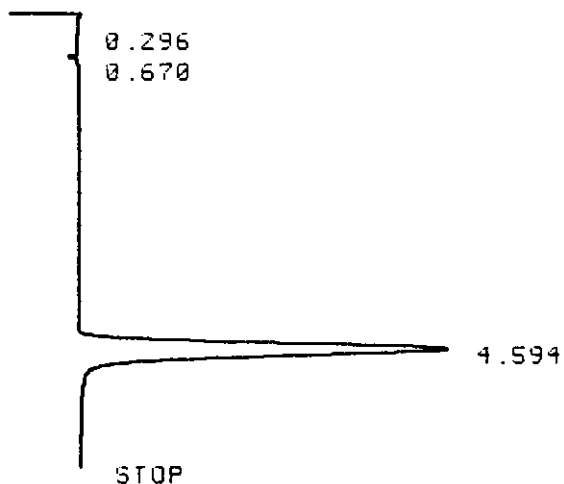
| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.569 | 2179318 | BB   | 2    | 48.381 |

TOTAL AREA=2199133

MUL FACTOR=1.0000E+00

\* RUN # 582 APR 10, 1997 17:28:14

START



RUN# 582 APR 10, 1997 17:28:14

ESTD-AREA

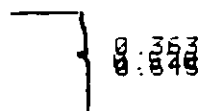
| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.594 | 2123979 | PB   | 2    | 47.152 |

TOTAL AREA=2166008

MUL FACTOR=1.0000E+00

\* RUN # 583 APR 10, 1997 17:37:30

START



4.471

STOP

RUN# 583 APR 10, 1997 17:37:30

ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT  |
|-------|------------|------|---------|
| 4.471 | 6257792 PB | 2    | 138.923 |

TOTAL AREA=6346925  
MUL FACTOR=1.0000E+00

\* RUN # 584 APR 10, 1997 17:45:04  
START

0.229  
0.666

4.538

STOP

RUN# 584 APR 10, 1997 17:45:04

ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT  |
|-------|------------|------|---------|
| 4.538 | 4894480 PB | 2    | 108.657 |

TOTAL AREA=4923677  
MUL FACTOR=1.0000E+00

\* RUN # 585 APR 10, 1997 17:52:32  
START



0.670

4.564

STOP

RUN# 585 APR 10, 1997 17:52:32

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 4.564 | 4594032 | PB   | 2    | 101.988 |

TOTAL AREA=4615606

MUL FACTOR=1.0000E+00

\*

4/10/97

- Cal @ 0700 = 0409A.CAL
- Added static press & CVM
- Balance spike @ 0754 due to ?, can't explain
- Initial zero @ 0758 void - out of air during run
  - Re zero @ 0802 P1C? out 0 in 0
- Run 01/02-01 = Numa-14-1: 18' deck, 35% resin, flow coater

RH = 53% @ 62°

Initial Resin = 351.75

On spray @ 0918 - Skin

Spray ~~mostly~~ done (skin) @ 0934 - Roll out going on.

Pb = 30.28

1014 - Lamination on

- \* P<sub>s</sub> prior to this point assumed to be constant @ 2.3.2. This value is obtained only when R1 closes their damper.

Spray done @ 1028

Resin final = 234.47 Net Resin = 117.3

Flow: OAS @ 0.22 ASP P<sub>s</sub> = -2.8 St. 1043 Poxe 1046

|    |     |    |     |                       |                         |
|----|-----|----|-----|-----------------------|-------------------------|
| H8 | .21 | U8 | .20 | Ts = 69               |                         |
| 7  | .25 | 7  | .22 | Pb = 30.28            |                         |
| 6  | .24 | 6  | .25 | P <sub>s</sub> = -2.8 | * Styrene emitted = 4.5 |
| 5  | .23 | 5  | .23 | Resin = 117.3         | * Styrene/avail = 10.9% |
| 4  | .22 | 4  | .24 | A. Sty = 41           |                         |
| 3  | .22 | 3  | .22 | Q = 3269              |                         |
| 2  | .21 | 2  | .21 | THC = 93.9            |                         |
| 1  | .20 | 1  | .19 | Θ = 130°              |                         |

Post test QC's @ THCO diff'd up (@ 3% @ span). Recal'd both in & out prior to next run

283

4/10/97 cont.

- Initial pressure 0 high for first minute of data due to lack of air flow.

- Cal file = 0410B.CAL

All cal data responses logged as .PRN files.

Run 0410-02; NMMMA-13-1 13' Hull, 35% Resin, Flowcoat on line 1239

Spray start 1242

Initial resin = 372.28

Stop spray off @ 1302 (both sides)

1329 Restart w/ lamination

1/2 lam done @ 1344 - Cure to turn

Restart 1410

Done w/ lam 1420

Final Resin ~~219.97~~ <sup>221.4</sup> (219.97 incl. 15 sec bag shot)

Flow @ 1424 DAS = .22 PS = -2.8 Done 1428

(Done in room so counted)

H 8 .18

V 8 .18

TS = 67

7 .25

7 .23

Resin = ~~152.31~~ ~~150.7~~ ~~75.31~~ 150.9

6 .24

6 .23

PO = 30.28

5 .24

5 .23

RH = 47% @ 68°

4 .22

4 .24

Q = 3361

# sty / # Avail = 10.2

3 .22

3 .22

$\theta = 149^\circ 152^\circ 151^\circ$

2 .22

2 .22

THC = 97.8

1 .19

1 .20

# Styrene avail = ~~55.31~~ 52.81

4/10/97 0410-03, MMA-11-2 CFA, 35% Resin, ~~35~~

- Online @ 1539
- Resin = 211.5 @ start
- Spray start @ 1545 - end 1549
- Resin final = 202.7

Flow @ 1556 DAS = .21 ΔP 3' - 2.8 static Done 1601

|                    |                    |                                        |
|--------------------|--------------------|----------------------------------------|
| H <sub>2</sub> .21 | V <sub>8</sub> .15 | Net resin = 8.8# = 3.08# styrene added |
| 7 .25              | 7 .21              | T <sub>5</sub> = 66                    |
| 6 .21              | 6 .22              | P <sub>b</sub> = 30.28                 |
| 5 .24              | 5 .22              | Q = 3229 ACFM                          |
| 4 .22              | 4 .23              | THC = 37.7                             |
| 3 .21              | 3 .24              | Θ = 72°                                |
| 2 .20              | 2 .22              | 34.7%                                  |
| 1 .20              | 1 .19              |                                        |

Performed balance & post test.

John McKnight did spray on this test so he was not happy w/ the controlled spray @ MMA-11-12 (CFA used uncontrolled spray)

2 state of W<sub>9</sub> visitors today

### CALIBRATION SUMMER

04-10-1997 07:05:24

CALIBRATION FILE NAME = c:\cepdata\0410a.CAL

| Chan. | Name  | Units | Zero  | Soan  | Slope | Int.   |
|-------|-------|-------|-------|-------|-------|--------|
|       |       |       | Conc. | Conc. |       |        |
|       |       |       | Reso. | Reso. |       |        |
| 1     | THC o | ppm   | 0     | 914   | 8.9   | 102.77 |
| 2     | THC i | ppm   | 0     | 45.5  | 9.2   | 4.99   |
| 3     | Flow  | inH2O | 0     | .4    | 3.2   | 1.97   |
| 4     | Temo  | F     | 32    | 212   | 3.3   | 137.51 |
| 5     | Resin | lb    | 0     | 600   | 4.3   | 212.27 |
| 6     | Ps    | inH2O | 0     | -1.1  | .9    | -4.67  |

RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-10-1997 Current Time = 07:10:04  
 File Name = c:\ceadata\041097.PRM Calibration File: c:\ceadata\0410a.CAL

Test #: Pre out 600 in 30.4

| 04-10-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 07:10:06           | 613.8        | 30.4         | 0.0           | 60.9      | 166.7       | -0.0        |
| 07:10:07           | 613.8        | 30.4         | 0.0           | 60.9      | 166.7       | -0.0        |
| 07:10:14           | 615.0        | 30.4         | 0.0           | 61.2      | 166.7       | -0.0        |
| 07:10:24           | 615.4        | 30.4         | 0.0           | 61.2      | 166.8       | -0.0        |
| 07:10:34           | 614.6        | 30.4         | 0.0           | 61.1      | 166.8       | -0.0        |
| 07:10:44           | 614.4        | 30.4         | 0.0           | 61.2      | 166.8       | -0.0        |
| 07:10:54           | 614.6        | 30.4         | 0.0           | 61.0      | 166.8       | -0.0        |
| 07:11:04           | 614.8        | 30.4         | 0.0           | 60.9      | 166.8       | -0.0        |
| 07:11:14           | 614.0        | 30.4         | 0.0           | 60.9      | 166.7       | -0.0        |
| 07:11:24           | 613.8        | 30.4         | 0.0           | 60.9      | 166.7       | -0.0        |
| 07:11:34           | 614.8        | 30.4         | 0.0           | 60.9      | 166.8       | -0.0        |
| 07:11:44           | 614.6        | 30.4         | 0.0           | 60.9      | 166.7       | -0.0        |
| 07:11:54           | 613.8        | 30.4         | 0.0           | 61.0      | 166.7       | -0.0        |
| 07:12:04           | 613.6        | 30.4         | 0.0           | 60.9      | 166.7       | -0.0        |
| 07:12:14           | 614.6        | 30.4         | 0.0           | 60.9      | 166.7       | -0.0        |
| 07:12:24           | 614.2        | 30.4         | 0.0           | 61.0      | 166.7       | -0.0        |
| 07:12:34           | 612.7        | 30.4         | 0.0           | 61.0      | 166.7       | -0.0        |
| 07:12:44           | 612.9        | 30.4         | 0.0           | 61.0      | 166.7       | -0.0        |
| 07:12:54           | 613.8        | 30.4         | 0.0           | 61.0      | 166.7       | -0.0        |
| 07:13:04           | 613.8        | 30.4         | 0.0           | 60.9      | 166.7       | -0.0        |
| 07:13:14           | 613.7        | 30.4         | 0.0           | 61.0      | 166.7       | -0.0        |
| 07:13:24           | 612.8        | 30.4         | 0.0           | 61.0      | 166.7       | -0.0        |
| 07:13:34           | 613.5        | 30.4         | 0.0           | 61.1      | 166.7       | -0.0        |
| 07:13:44           | 613.4        | 30.4         | 0.0           | 61.1      | 166.7       | -0.0        |
| Avg =              | 614.0        | 30.4         | 0.0           | 61.0      | 166.7       | -0.0        |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-10-1997 Current Time = 07:18:31

File Name = c:\ceadata\041097.PRN Calibration File:c:\ceadata\0410a.CAL

Test #: Pre out 297 in 15.0

| 04-10-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 07:18:33           | 301.9        | 15.1         | 0.0           | 61.6      | 166.8       | -0.0        |
| 07:18:34           | 301.9        | 15.1         | 0.0           | 61.6      | 166.8       | -0.0        |
| 07:18:44           | 300.9        | 15.0         | 0.0           | 61.6      | 163.5       | -0.0        |
| 07:19:54           | 301.8        | 15.0         | 0.0           | 61.6      | 163.0       | -0.0        |
| 07:19:04           | 300.9        | 15.0         | 0.0           | 61.5      | 163.0       | -0.0        |
| 07:19:14           | 300.7        | 14.9         | 0.0           | 61.5      | 162.8       | -0.0        |
| 07:19:24           | 300.9        | 14.9         | 0.0           | 61.5      | 162.7       | -0.0        |
| 07:19:34           | 300.7        | 14.9         | 0.0           | 61.7      | 162.6       | -0.0        |
| 07:19:44           | 300.9        | 14.9         | 0.0           | 61.6      | 162.7       | -0.0        |
| 07:19:54           | 300.7        | 14.9         | 0.0           | 61.6      | 162.6       | -0.0        |
| 07:20:04           | 300.8        | 14.9         | 0.0           | 61.6      | 162.6       | -0.0        |
| 07:20:14           | 300.9        | 14.9         | 0.0           | 61.7      | 162.4       | -0.0        |
| 07:20:24           | 300.5        | 14.9         | 0.0           | 61.8      | 162.8       | -0.0        |
| 07:20:34           | 300.0        | 14.9         | 0.0           | 61.8      | 162.6       | -0.0        |
| 07:20:44           | 300.0        | 14.9         | 0.0           | 61.8      | 162.4       | -0.0        |
| 07:20:54           | 300.5        | 14.9         | 0.0           | 61.5      | 162.5       | -0.0        |
| Avg =              | 300.9        | 15.0         | 0.0           | 61.6      | 163.2       | -0.0        |

RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-10-1997 Current Time = 07:54:00  
 File Name = c:\cemdata\041097.PRN Calibration File: c:\cemdata\0410a.CAL

Test #: Pre out 914 in 45.5

| 04-10-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 07:54:06           | 912.9        | 45.2         | 0.2           | 57.7      | 1811.4      | -2.7        |
| 07:54:07           | 912.9        | 45.2         | 0.2           | 57.7      | 1811.4      | -2.7        |
| 07:54:14           | 913.4        | 45.2         | 0.2           | 57.4      | 1811.4      | -2.7        |
| 07:54:24           | 913.9        | 45.2         | 0.2           | 57.4      | 1811.4      | -2.7        |
| 07:54:34           | 914.0        | 45.2         | 0.2           | 57.5      | 1811.4      | -2.7        |
| 07:54:44           | 913.9        | 45.2         | 0.2           | 57.5      | 1811.4      | -2.7        |
| 07:54:54           | 913.6        | 45.2         | 0.2           | 57.6      | 1811.4      | -2.7        |
| 07:55:04           | 913.6        | 45.2         | 0.2           | 57.7      | 1811.4      | -2.7        |
| 07:55:14           | 914.1        | 45.2         | 0.2           | 58.0      | 1811.4      | -2.7        |
| 07:55:24           | 913.3        | 45.2         | 0.2           | 57.8      | 1811.4      | -2.7        |
| 07:55:34           | 913.4        | 45.2         | 0.2           | 58.2      | 1811.4      | -2.7        |
| 07:55:44           | 913.7        | 45.2         | 0.2           | 58.3      | 1811.4      | -2.7        |
| Avg =              | 913.6        | 45.2         | 0.2           | 57.7      | 1811.4      | -2.7        |



## RADIANT CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

3 Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-10-1997 Current Time = 07:58:22

File Name = c:\ceadata\041097.PRN Calibration File: c:\ceadata\0410a.CAL

Test #: Pre out 0 in 0

| 04-10-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 07:58:29           | 0.0          | -0.2         | 0.2           | 57.8      | -444.3      | -2.7        |
| 07:58:30           | 0.0          | -0.2         | 0.2           | 57.8      | -444.3      | -2.7        |
| 07:58:34           | 0.0          | -0.1         | 0.2           | 57.6      | -511.7      | -2.7        |
| 07:58:44           | -0.0         | -0.1         | 0.2           | 57.7      | -444.6      | -2.7        |
| 07:58:54           | -0.0         | -0.0         | 0.2           | 57.6      | -443.2      | -2.7        |
| 07:59:04           | 0.0          | 0.0          | 0.2           | 57.6      | -444.4      | -2.7        |
| 07:59:14           | 0.0          | 0.0          | 0.2           | 57.7      | -445.1      | -2.7        |
| 07:59:24           | 0.0          | 0.1          | 0.2           | 57.8      | -445.2      | -2.7        |
| 07:59:34           | -0.0         | 0.1          | 0.2           | 57.9      | -446.3      | -2.7        |
| 07:59:44           | -0.0         | 0.2          | 0.2           | 57.9      | -446.6      | -2.7        |
| 07:59:54           | -0.0         | 0.3          | 0.2           | 58.1      | -445.3      | -2.7        |
| 08:00:04           | -0.0         | 0.3          | 0.2           | 58.1      | -443.7      | -2.7        |
| 08:00:14           | 0.7          | 0.3          | 0.2           | 58.3      | -442.2      | -2.7        |
| 08:00:24           | 1.1          | 0.2          | 0.2           | 58.6      | -440.5      | -2.7        |
| 08:00:34           | 1.9          | 0.2          | 0.2           | 58.7      | -440.2      | -2.7        |
| 08:00:44           | 2.0          | 0.3          | 0.2           | 58.8      | -435.1      | -2.7        |
| Avg =              | 0.4          | 0.1          | 0.2           | 58.0      | -447.9      | -2.7        |

## SADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-10-1997 Current Time = 08:08:10

File Name = c:\cendata\041097.PRN Calibration File: c:\cendata\0410a.CAL

Test #: Pres2 out 0 in 0

| 4-10-1997<br>Time | THC a<br>ppm | THC 1<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|-------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 08:08:17          | 0.0          | -0.0         | 0.2           | 58.5      | -473.3      | -2.7        |
| 08:08:18          | 0.0          | -0.0         | 0.2           | 58.5      | -473.3      | -2.7        |
| 08:08:24          | 0.0          | -0.0         | 0.2           | 58.8      | -483.2      | -2.7        |
| 08:08:34          | 0.0          | -0.0         | 0.2           | 58.8      | -484.3      | -2.7        |
| 08:08:44          | 0.0          | -0.0         | 0.2           | 58.9      | -486.5      | -2.7        |
| 08:08:54          | 0.0          | -0.0         | 0.2           | 58.9      | -488.9      | -2.7        |
| 08:09:04          | 0.0          | -0.0         | 0.2           | 58.9      | -440.4      | -2.7        |
| 08:09:14          | 0.0          | -0.0         | 0.2           | 58.9      | -441.0      | -2.7        |
| 08:09:24          | -0.0         | -0.0         | 0.2           | 58.9      | -441.9      | -2.7        |
| 08:09:34          | -0.0         | -0.0         | 0.2           | 59.0      | -442.0      | -2.7        |
| 08:09:44          | 0.0          | -0.0         | 0.2           | 59.0      | -442.0      | -2.7        |
| 08:09:54          | 0.0          | -0.0         | 0.2           | 59.0      | -442.4      | -2.7        |
| 08:10:04          | -0.0         | -0.0         | 0.2           | 59.0      | -443.0      | -2.7        |
| 08:10:14          | 0.0          | -0.0         | 0.2           | 58.9      | -442.8      | -2.7        |
| Avg =             | 0.0          | -0.0         | 0.2           | 58.8      | -448.3      | -2.7        |

## RADIANT CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

Marine

Arlington, WA

Performed for:

NMMA

Date Printed = 04-10-1997 Current Time = 09:09:51

File Name = c:\ce\data\041097.PRN Calibration File:c:\ce\data\0410a.CAL

Test #: 0410-1

| 04-10-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 09:09:59           | 1.1          | 2.1          | 0.2           | 63.7      | -439.7      | -2.1        |
| 09:10:54           | 1.1          | 2.1          | 0.2           | 64.1      | 18.6        | -2.7        |
| 09:11:54           | 1.1          | 2.1          | 0.2           | 64.1      | 351.4       | -2.7        |
| 09:12:54           | 1.1          | 2.1          | 0.2           | 64.1      | 351.6       | -2.7        |
| 09:13:54           | 1.1          | 2.1          | 0.2           | 64.0      | 351.6       | -2.7        |
| 09:14:54           | 1.1          | 2.1          | 0.2           | 64.6      | 351.8       | -2.8        |
| 09:15:54           | 1.1          | 2.1          | 0.2           | 65.5      | 351.6       | -2.8        |
| 09:16:54           | 1.1          | 2.1          | 0.2           | 65.9      | 351.9       | -2.8        |
| 09:17:54           | 1.9          | 2.1          | 0.2           | 66.1      | 351.5       | -2.8        |
| 09:18:54           | 7.6          | 2.1          | 0.2           | 66.3      | 349.5       | -2.8        |
| 09:19:54           | 21.5         | 2.1          | 0.2           | 66.4      | 344.2       | -2.8        |
| 09:20:54           | 37.3         | 2.1          | 0.2           | 66.6      | 340.5       | -2.8        |
| 09:21:54           | 55.5         | 2.1          | 0.2           | 66.5      | 338.5       | -2.8        |
| 09:22:54           | 54.5         | 2.1          | 0.2           | 66.3      | 335.2       | -2.8        |
| 09:23:54           | 68.4         | 2.1          | 0.2           | 66.2      | 331.7       | -2.8        |
| 09:24:54           | 60.4         | 2.1          | 0.2           | 66.4      | 331.1       | -2.8        |
| 09:25:54           | 79.8         | 2.1          | 0.2           | 66.7      | 330.5       | -2.8        |
| 09:26:54           | 55.4         | 2.1          | 0.2           | 66.7      | 327.2       | -2.8        |
| 09:27:54           | 106.7        | 2.1          | 0.2           | 66.9      | 325.2       | -2.8        |
| 09:28:54           | 119.3        | 2.0          | 0.2           | 66.8      | 322.2       | -2.8        |
| 09:29:54           | 141.1        | 2.0          | 0.2           | 66.8      | 314.2       | -2.8        |
| 09:30:54           | 172.2        | 2.0          | 0.2           | 67.0      | 309.3       | -2.8        |
| 09:31:54           | 190.9        | 2.0          | 0.2           | 66.9      | 305.7       | -2.8        |
| 09:32:54           | 174.8        | 2.0          | 0.2           | 66.7      | 305.7       | -2.8        |
| 09:33:54           | 173.4        | 2.0          | 0.2           | 66.8      | 305.7       | -2.8        |
| 09:34:54           | 165.2        | 2.0          | 0.2           | 66.9      | 305.7       | -2.8        |
| 09:35:54           | 157.8        | 1.9          | 0.2           | 67.0      | 305.7       | -2.8        |
| 09:36:54           | 148.5        | 1.9          | 0.2           | 67.0      | 305.7       | -2.8        |
| 09:37:54           | 143.2        | 1.9          | 0.2           | 67.0      | 305.7       | -2.8        |
| 09:38:54           | 137.4        | 1.9          | 0.2           | 66.9      | 305.7       | -2.8        |
| 09:39:54           | 132.3        | 1.9          | 0.2           | 66.8      | 305.7       | -2.8        |
| 09:40:54           | 123.9        | 1.9          | 0.2           | 66.9      | 305.7       | -2.8        |
| 09:41:54           | 126.2        | 1.9          | 0.2           | 67.0      | 305.7       | -2.8        |
| 09:42:54           | 116.0        | 1.9          | 0.2           | 67.0      | 305.7       | -2.8        |
| 09:43:54           | 112.9        | 1.9          | 0.2           | 67.1      | 305.7       | -2.8        |
| 09:44:54           | 105.5        | 1.9          | 0.2           | 67.1      | 305.7       | -2.8        |
| 09:45:54           | 102.3        | 2.0          | 0.2           | 67.1      | 305.7       | -2.8        |
| 09:46:54           | 99.4         | 2.1          | 0.2           | 67.1      | 305.7       | -2.8        |
| 09:47:54           | 95.7         | 2.1          | 0.2           | 67.1      | 305.7       | -2.8        |
| 09:48:54           | 92.3         | 2.2          | 0.2           | 67.1      | 305.7       | -3.0        |

Test #: 0410-1

| 04-10-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 09:49:54           | 88.4         | 2.3          | 0.2           | 67.3      | 305.7       | -3.1        |
| 09:50:54           | 84.7         | 2.3          | 0.2           | 67.2      | 305.7       | -3.0        |
| 09:51:54           | 84.2         | 2.1          | 0.2           | 67.3      | 305.6       | -3.0        |
| 09:52:54           | 81.0         | 2.0          | 0.2           | 67.4      | 305.6       | -2.8        |
| 09:53:54           | 78.9         | 1.9          | 0.2           | 67.5      | 305.6       | -2.8        |
| 09:54:54           | 75.8         | 1.7          | 0.2           | 67.6      | 305.6       | -2.8        |
| 09:55:54           | 70.6         | 1.9          | 0.2           | 67.4      | 305.6       | -2.8        |
| 09:56:54           | 59.1         | 1.7          | 0.2           | 66.0      | 305.6       | -2.8        |
| 09:57:54           | 72.9         | 1.9          | 0.2           | 66.4      | 305.6       | -2.8        |
| 09:58:54           | 73.3         | 1.7          | 0.2           | 67.1      | 305.6       | -2.8        |
| 09:59:54           | 71.7         | 1.9          | 0.2           | 67.5      | 305.6       | -2.7        |
| 10:00:54           | 68.5         | 1.9          | 0.2           | 67.7      | 305.6       | -2.7        |
| 10:01:54           | 69.1         | 1.8          | 0.2           | 68.0      | 305.6       | -2.7        |
| 10:02:54           | 68.1         | 1.8          | 0.2           | 68.3      | 305.6       | -2.7        |
| 10:03:54           | 63.6         | 1.8          | 0.2           | 68.3      | 305.6       | -2.7        |
| 10:04:54           | 62.1         | 1.8          | 0.2           | 68.2      | 305.6       | -2.7        |
| 10:05:54           | 60.5         | 1.9          | 0.2           | 68.3      | 305.6       | -2.7        |
| 10:06:54           | 58.5         | 1.9          | 0.2           | 68.4      | 305.6       | -2.7        |
| 10:07:54           | 58.5         | 2.0          | 0.2           | 68.4      | 305.6       | -2.7        |
| 10:08:54           | 57.2         | 2.1          | 0.2           | 68.6      | 305.6       | -2.7        |
| 10:09:54           | 56.3         | 2.2          | 0.2           | 68.6      | 305.6       | -2.7        |
| 10:10:54           | 55.0         | 2.2          | 0.2           | 68.4      | 305.5       | -2.7        |
| 10:11:54           | 47.9         | 2.3          | 0.2           | 67.7      | 306.0       | -2.7        |
| 10:12:54           | 69.5         | 2.4          | 0.2           | 67.9      | 300.1       | -2.7        |
| 10:13:54           | 90.2         | 2.5          | 0.2           | 68.3      | 293.8       | -2.7        |
| 10:14:54           | 109.9        | 2.5          | 0.2           | 68.4      | 287.5       | -2.7        |
| 10:15:54           | 132.3        | 2.5          | 0.2           | 68.4      | 280.8       | -2.7        |
| 10:16:54           | 134.5        | 2.4          | 0.2           | 68.5      | 277.7       | -2.7        |
| 10:17:54           | 139.2        | 2.4          | 0.2           | 68.6      | 274.9       | -2.7        |
| 10:18:54           | 147.5        | 2.3          | 0.2           | 68.5      | 270.9       | -2.7        |
| 10:19:54           | 158.8        | 2.2          | 0.2           | 68.5      | 267.0       | -2.7        |
| 10:20:54           | 164.4        | 2.2          | 0.2           | 68.4      | 263.7       | -2.7        |
| 10:21:54           | 177.2        | 2.1          | 0.2           | 68.4      | 259.6       | -2.7        |
| 10:22:54           | 206.8        | 2.1          | 0.2           | 68.4      | 254.2       | -2.8        |
| 10:23:54           | 251.6        | 2.1          | 0.2           | 68.5      | 248.7       | -2.8        |
| 10:25:08           | 257.0        | 2.0          | 0.2           | 68.5      | 245.3       | -2.8        |
| 10:25:54           | 239.3        | 2.0          | 0.2           | 68.6      | 242.4       | -3.0        |
| 10:26:54           | 254.8        | 2.0          | 0.2           | 68.7      | 238.9       | -2.8        |
| 10:27:54           | 254.6        | 2.0          | 0.2           | 68.7      | 234.9       | -2.8        |
| 10:28:54           | 238.8        | 1.9          | 0.2           | 68.5      | 234.5       | -2.8        |
| 10:29:54           | 224.9        | 1.9          | 0.2           | 68.6      | 234.5       | -2.8        |
| 10:30:54           | 216.7        | 1.9          | 0.2           | 68.6      | 234.5       | -2.8        |
| 10:31:54           | 209.8        | 1.8          | 0.2           | 68.6      | 234.5       | -2.8        |
| 10:32:54           | 202.9        | 1.8          | 0.2           | 68.6      | 234.5       | -2.8        |
| 10:33:54           | 192.5        | 1.8          | 0.2           | 68.6      | 234.5       | -2.8        |
| 10:34:54           | 183.6        | 1.8          | 0.2           | 68.5      | 234.5       | -2.8        |
| 10:35:54           | 185.6        | 1.7          | 0.2           | 68.4      | 234.5       | -2.8        |
| 10:36:54           | 169.4        | 1.8          | 0.2           | 68.5      | 234.5       | -2.8        |
| 10:37:54           | 165.6        | 1.8          | 0.2           | 68.5      | 234.5       | -2.8        |
| 10:38:54           | 157.2        | 1.8          | 0.2           | 68.6      | 234.5       | -2.8        |
| 10:39:54           | 148.6        | 1.8          | 0.2           | 68.5      | 234.5       | -2.8        |
| 10:40:54           | 145.1        | 1.9          | 0.2           | 68.6      | 234.5       | -2.8        |
| 10:41:54           | 135.8        | 1.8          | 0.2           | 68.6      | 234.5       | -2.8        |
| 10:42:54           | 126.7        | 1.8          | 0.2           | 68.5      | 234.5       | -2.7        |
| 10:43:54           | 121.1        | 1.7          | 0.2           | 68.5      | 234.5       | -2.0        |
| 10:44:54           | 123.4        | 1.7          | 0.2           | 68.7      | 234.5       | -2.8        |

Test #: 0410-1

| 04-10-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 10:45:54           | 114.9        | 1.7          | 0.1           | 68.6      | 234.5       | -2.2        |
| 10:46:54           | 111.9        | 1.7          | 0.2           | 68.6      | 234.5       | -2.8        |
| 10:47:54           | 105.1        | 1.7          | 0.2           | 68.4      | 234.5       | -2.6        |
| 10:48:54           | 99.9         | 1.6          | 0.2           | 68.3      | 234.4       | -2.8        |
| 10:49:54           | 95.2         | 1.6          | 0.2           | 68.5      | 234.5       | -2.6        |
| 10:50:54           | 90.4         | 1.6          | 0.2           | 68.5      | 234.4       | -2.8        |
| 10:51:54           | 83.2         | 1.6          | 0.2           | 68.5      | 234.4       | -2.6        |
| 10:52:54           | 78.5         | 1.6          | 0.2           | 68.7      | 234.4       | -2.8        |
| 10:53:54           | 72.5         | 1.6          | 0.2           | 68.6      | 234.4       | -2.6        |
| 10:54:54           | 66.4         | 1.6          | 0.2           | 68.4      | 234.4       | -2.8        |
| 10:55:54           | 61.1         | 1.6          | 0.2           | 68.6      | 234.4       | -2.6        |
| 10:56:54           | 59.9         | 1.6          | 0.2           | 68.9      | 234.4       | -2.8        |
| 10:57:54           | 56.1         | 1.5          | 0.2           | 69.3      | 234.4       | -2.6        |
| 10:58:54           | 48.7         | 1.5          | 0.2           | 69.2      | 234.4       | -2.8        |
| 10:59:54           | 45.2         | 1.5          | 0.2           | 69.5      | 234.4       | -2.6        |
| 11:00:54           | 42.0         | 1.4          | 0.2           | 69.7      | 234.4       | -2.8        |
| 11:01:54           | 36.2         | 1.4          | 0.2           | 69.5      | 234.4       | -2.6        |
| 11:02:54           | 30.3         | 1.4          | 0.2           | 68.9      | 234.4       | -2.8        |
| 11:03:54           | 28.6         | 1.4          | 0.2           | 68.9      | 234.4       | -2.6        |
| 11:04:54           | 26.9         | 1.4          | 0.2           | 69.0      | 234.4       | -2.8        |
| 11:05:54           | 24.5         | 1.4          | 0.2           | 69.2      | 234.4       | -2.6        |
| 11:06:54           | 21.9         | 1.4          | 0.2           | 69.3      | 234.4       | -2.8        |
| 11:07:54           | 20.1         | 1.4          | 0.2           | 69.4      | 234.4       | -2.6        |
| 11:08:54           | 18.1         | 1.4          | 0.2           | 69.4      | 234.4       | -2.8        |
| 11:09:54           | 16.2         | 1.4          | 0.2           | 69.3      | 234.4       | -2.6        |
| 11:10:54           | 14.5         | 1.4          | 0.2           | 69.3      | 234.4       | -2.8        |
| 11:11:54           | 13.3         | 1.4          | 0.2           | 69.3      | 234.4       | -2.6        |
| 11:12:54           | 12.2         | 1.4          | 0.2           | 69.3      | 234.4       | -2.8        |
| 11:13:54           | 11.4         | 1.3          | 0.2           | 69.4      | 234.4       | -2.6        |
| 11:14:54           | 10.4         | 1.3          | 0.2           | 69.4      | 234.4       | -2.8        |
| 11:15:54           | 9.6          | 1.3          | 0.2           | 69.4      | 234.4       | -2.6        |
| 11:16:54           | 9.9          | 1.3          | 0.2           | 69.4      | 234.4       | -2.8        |
| 11:17:54           | 8.1          | 1.3          | 0.2           | 69.5      | 234.4       | -2.6        |
| 11:18:54           | 7.4          | 1.3          | 0.2           | 69.4      | 234.4       | -2.8        |
| 11:19:54           | 7.0          | 1.3          | 0.2           | 69.4      | 234.4       | -2.6        |
| Avg =              | 93.9         | 1.9          | 0.2           | 67.9      | 269.5       | -2.8        |

RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-10-1997 Current Time = 11:29:34  
 File Name = c:\cendata\041097.PRN Calibration File:c:\cendata\0410a.CAL

Test #: Post out 0 in 0

| 04-10-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 11:29:38           | 0.0          | 0.1          | 0.2           | 63.4      | -482.7      | -2.8        |
| 11:29:39           | 0.0          | 0.1          | 0.2           | 63.4      | -482.7      | -2.8        |
| 11:29:44           | 0.0          | 0.0          | 0.2           | 63.1      | -458.0      | -2.8        |
| 11:29:54           | 0.0          | 0.0          | 0.2           | 63.0      | -419.9      | -2.8        |
| 11:30:04           | -0.0         | -0.0         | 0.2           | 63.1      | -428.3      | -2.8        |
| 11:30:14           | 0.0          | 0.0          | 0.2           | 63.1      | -434.4      | -2.8        |
| 11:30:24           | 0.0          | -0.0         | 0.2           | 63.1      | -435.7      | -2.8        |
| 11:30:34           | -0.0         | -0.0         | 0.2           | 63.2      | -437.9      | -2.8        |
| 11:30:44           | 0.0          | -0.0         | 0.2           | 63.2      | -439.3      | -2.8        |
| 11:30:54           | 0.0          | -0.0         | 0.2           | 63.1      | -440.2      | -2.8        |
| 11:31:04           | -0.0         | -0.0         | 0.2           | 63.2      | -440.7      | -2.8        |
| 11:31:14           | -0.0         | -0.0         | 0.2           | 63.3      | -441.1      | -2.8        |
| Avg =              | 0.0          | 0.0          | 0.2           | 63.2      | -445.1      | -2.8        |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-10-1997 Current Time = 11:35:14

File Name = c:\cendata\041097.PRN Calibration File:c:\cendata\0410a.CAL

Test #: Post out 600 in 30.4

| 04-10-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 11:35:18           | 618.7        | 29.8         | 0.2           | 62.8      | -393.7      | -2.8        |
| 11:35:19           | 618.7        | 29.8         | 0.2           | 62.8      | -393.7      | -2.8        |
| 11:35:24           | 619.6        | 29.9         | 0.2           | 62.8      | -396.5      | -2.8        |
| 11:35:34           | 618.7        | 29.8         | 0.2           | 62.8      | -368.3      | -2.8        |
| 11:35:44           | 619.4        | 29.8         | 0.2           | 62.7      | -367.3      | -2.8        |
| 11:35:54           | 618.9        | 29.8         | 0.2           | 62.8      | -366.6      | -2.8        |
| 11:36:04           | 617.7        | 29.8         | 0.2           | 62.8      | -366.4      | -2.8        |
| 11:36:14           | 618.4        | 29.9         | 0.2           | 63.2      | -366.0      | -2.8        |
| 11:36:24           | 619.5        | 29.9         | 0.2           | 63.4      | -365.7      | -2.8        |
| 11:36:34           | 619.4        | 29.9         | 0.2           | 63.3      | -365.7      | -2.8        |
| 11:36:44           | 619.3        | 29.9         | 0.2           | 63.2      | -365.2      | -2.8        |
| 11:36:54           | 618.6        | 29.9         | 0.2           | 63.0      | -364.9      | -2.8        |
| 11:37:04           | 619.6        | 29.9         | 0.2           | 62.9      | -364.4      | -2.8        |
| 11:37:14           | 617.7        | 29.9         | 0.2           | 62.9      | -364.6      | -2.8        |
| 11:37:24           | 618.5        | 29.9         | 0.2           | 62.8      | -364.2      | -2.8        |
| 11:37:34           | 619.0        | 29.9         | 0.2           | 62.7      | -364.5      | -2.8        |
| 11:37:44           | 619.8        | 29.9         | 0.2           | 62.7      | -364.4      | -2.8        |
| 11:37:54           | 619.2        | 29.8         | 0.2           | 62.8      | -364.7      | -2.8        |
| 11:38:04           | 619.3        | 29.8         | 0.2           | 62.8      | -365.7      | -2.8        |
| Avg =              | 619.1        | 29.9         | 0.2           | 62.9      | -370.1      | -2.8        |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-10-1997 Current Time = 11:40:19

File Name = c:\cendata\041097.PRN Calibration File: c:\cendata\0410a.CAL

Test #: Past out 297 in 15.0

| 04-10-1997<br>Time | THC a<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 11:40:24           | 299.9        | 14.8         | 0.2           | 62.3      | -413.8      | -2.8        |
| 11:40:25           | 299.9        | 14.8         | 0.2           | 62.3      | -413.8      | -2.8        |
| 11:40:34           | 299.2        | 14.8         | 0.2           | 62.2      | -416.4      | -2.8        |
| 11:40:44           | 298.9        | 14.8         | 0.2           | 62.1      | -403.3      | -2.8        |
| 11:40:54           | 299.2        | 14.8         | 0.2           | 62.1      | -404.1      | -2.8        |
| 11:41:04           | 299.6        | 14.8         | 0.2           | 62.0      | -404.4      | -2.8        |
| 11:41:14           | 298.9        | 14.8         | 0.2           | 62.0      | -404.7      | -2.8        |
| 11:41:24           | 298.9        | 14.8         | 0.2           | 62.0      | -404.5      | -2.8        |
| 11:41:34           | 298.8        | 14.7         | 0.2           | 62.0      | -404.5      | -2.8        |
| 11:41:44           | 298.9        | 14.7         | 0.2           | 61.9      | -404.5      | -2.8        |
| Avg =              | 299.2        | 14.8         | 0.2           | 62.1      | -407.4      | -2.8        |



RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-10-1997 Current Time = 11:45:59

File Name = c:\ceadata\041097.PRM Calibration File: c:\ceadata\0410a.CAL

Test #: Post out 914 in 45.5

| 04-10-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 11:46:04           | 932.0        | 42.8         | 0.2           | 61.6      | -184.7      | -2.8        |
| 11:46:05           | 932.0        | 42.8         | 0.2           | 61.6      | -184.7      | -2.8        |
| 11:46:07           | 932.0        | 42.8         | 0.2           | 61.6      | -184.7      | -2.8        |
| 11:46:14           | 931.9        | 43.0         | 0.2           | 61.5      | -180.4      | -2.8        |
| 11:46:24           | 931.7        | 43.0         | 0.2           | 61.5      | -174.4      | -2.8        |
| 11:46:34           | 931.6        | 43.1         | 0.2           | 61.4      | -172.5      | -2.8        |
| 11:46:44           | 931.7        | 43.1         | 0.2           | 61.4      | -170.3      | -2.8        |
| 11:46:54           | 932.0        | 43.1         | 0.2           | 61.5      | -170.4      | -2.8        |
| 11:47:04           | 932.5        | 43.2         | 0.2           | 61.5      | -167.1      | -2.8        |
| 11:47:14           | 931.7        | 43.2         | 0.2           | 61.4      | -166.0      | -2.8        |
| 11:47:24           | 931.7        | 43.2         | 0.2           | 61.4      | -164.2      | -2.8        |
| 11:47:34           | 933.3        | 43.2         | 0.2           | 61.4      | -161.8      | -2.8        |
| 11:47:44           | 932.4        | 43.3         | 0.2           | 61.4      | -156.6      | -2.8        |
| 11:47:54           | 931.6        | 43.4         | 0.2           | 61.4      | -153.2      | -2.8        |
| 11:48:04           | 933.6        | 43.4         | 0.2           | 61.3      | -141.5      | -2.8        |
| Avg =              | 932.1        | 43.1         | 0.2           | 61.5      | -168.8      | -2.8        |

CALIBRATION SUMMARY

04-10-1997 11:50:29

CALIBRATION FILE NAME = c:\ceadata\0410b.CAL

| ===== |       |       |       |       |       |       |        |           |
|-------|-------|-------|-------|-------|-------|-------|--------|-----------|
| Chan. | Name  | Units | Zero  |       | Span  |       | Slope  | Int.      |
|       |       |       | Conc. | Resp. | Conc. | Resp. |        |           |
| ===== |       |       |       |       |       |       |        |           |
| 1     | THC a | ppm   | 0     | 0     | 914   | 8.9   | 102.83 | -.0803    |
| 2     | THC i | ppm   | 0     | .04   | 45.5  | 9.1   | 5      | -.224     |
| 3     | Flow  | inH2O | 0     | 2.96  | .4    | 3.2   | 1.97   | -5.8162   |
| 4     | Temp  | F     | 32    | 1.98  | 212   | 3.3   | 137.51 | -240.4591 |
| 5     | Resin | lb    | 0     | 1.46  | 600   | 4.3   | 212.27 | -310.8426 |
| 6     | Ps    | inH2O | 0     | .7    | -1.1  | .9    | -4.67  | 3.2787    |
| ===== |       |       |       |       |       |       |        |           |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-10-1997 Current Time = 11:51:58

File Name = c:\ce\data\041097.PRM Calibration File: c:\ce\data\0410b.CAL

Test #: ore 2 out 914 in 45.5

| 04-10-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 11:52:03           | 913.1        | 45.6         | 0.3           | 64.7      | 1811.0      | -2.9        |
| 11:52:05           | 913.1        | 45.6         | 0.3           | 64.7      | 1811.0      | -2.9        |
| 11:52:06           | 913.1        | 45.6         | 0.3           | 64.7      | 1811.0      | -2.9        |
| 11:52:08           | 913.1        | 45.6         | 0.3           | 64.7      | 1811.0      | -2.9        |
| 11:52:17           | 913.3        | 45.6         | 0.3           | 64.4      | 1811.0      | -2.9        |
| 11:52:27           | 913.5        | 45.5         | 0.3           | 64.1      | 1811.1      | -2.9        |
| 11:52:37           | 913.8        | 45.5         | 0.3           | 64.2      | 1811.1      | -2.9        |
| 11:52:47           | 914.2        | 45.6         | 0.3           | 64.7      | 1811.0      | -2.9        |
| 11:52:57           | 914.2        | 45.5         | 0.3           | 64.4      | 1811.0      | -2.9        |
| Avg =              | 913.5        | 45.6         | 0.3           | 64.5      | 1811.0      | -2.9        |

## RADIANT CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-10-1997 Current Time = 11:56:06

File Name = c:\cemdata\041097.PRM Calibration File:c:\cemdata\04106.CAL

Test #: ore 2 out 600 in 30.4

| 04-10-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 11:56:12           | 617.8        | 30.1         | 0.2           | 60.7      | -394.4      | -2.8        |
| 11:56:13           | 617.8        | 30.1         | 0.2           | 60.7      | -394.4      | -2.8        |
| 11:56:17           | 617.7        | 30.2         | 0.2           | 60.7      | -405.6      | -2.8        |
| 11:56:27           | 616.8        | 30.1         | 0.2           | 60.7      | -367.8      | -2.8        |
| 11:56:37           | 617.7        | 30.1         | 0.2           | 60.8      | -367.7      | -2.8        |
| 11:56:47           | 616.8        | 30.2         | 0.2           | 60.9      | -366.9      | -2.8        |
| 11:56:57           | 616.8        | 30.2         | 0.2           | 60.9      | -366.2      | -2.8        |
| 11:57:07           | 616.8        | 30.2         | 0.2           | 61.0      | -365.0      | -2.8        |
| 11:57:17           | 616.8        | 30.2         | 0.2           | 61.1      | -363.7      | -2.8        |
| 11:57:27           | 616.8        | 30.2         | 0.2           | 61.2      | -362.1      | -2.8        |
| 11:57:37           | 616.8        | 30.2         | 0.2           | 61.3      | -360.5      | -2.8        |
| 11:57:47           | 616.8        | 30.2         | 0.2           | 61.2      | -359.4      | -2.8        |
| 11:57:57           | 616.5        | 30.2         | 0.2           | 61.2      | -358.4      | -2.8        |
| 11:58:07           | 616.2        | 30.2         | 0.2           | 61.0      | -357.5      | -2.8        |
| 11:58:17           | 616.8        | 30.2         | 0.2           | 61.0      | -357.8      | -2.8        |
| Avg =              | 617.0        | 30.2         | 0.2           | 61.0      | -369.8      | -2.8        |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-10-1997 Current Time = 12:00:45

File Name = c:\cemdata\041097.PRN Calibration File:c:\cemdata\0410b.CAL

Test #: Pre 2 out 297 in 15.0

| 04-10-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 12:00:52           | 303.9        | 15.0         | 0.2           | 61.0      | -414.7      | -2.8        |
| 12:00:53           | 303.9        | 15.0         | 0.2           | 61.0      | -414.7      | -2.8        |
| 12:00:57           | 303.0        | 15.1         | 0.2           | 61.1      | -432.3      | -2.8        |
| 12:01:07           | 303.0        | 15.0         | 0.2           | 61.1      | -388.8      | -2.8        |
| 12:01:17           | 303.0        | 15.0         | 0.2           | 61.0      | -370.7      | -2.8        |
| 12:01:27           | 303.0        | 15.0         | 0.2           | 60.9      | -393.6      | -2.8        |
| 12:01:37           | 302.6        | 15.0         | 0.2           | 60.9      | -395.0      | -2.8        |
| 12:01:47           | 302.5        | 15.0         | 0.2           | 60.8      | -395.4      | -2.8        |
| 12:01:57           | 303.0        | 15.0         | 0.2           | 60.8      | -396.3      | -2.8        |
| 12:02:07           | 302.8        | 15.0         | 0.2           | 60.8      | -397.5      | -2.8        |
| 12:02:17           | 302.7        | 15.0         | 0.2           | 60.8      | -398.7      | -2.8        |
| 12:02:27           | 303.0        | 15.0         | 0.2           | 60.7      | -399.4      | -2.8        |
| g =                | 303.0        | 15.0         | 0.2           | 60.9      | -401.4      | -2.8        |

RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-10-1997 Current Time = 12:07:37  
 File Name = c:\cemdata\041097.PRM Calibration File: c:\cemdata\0410b.CAL

Test #: Pre 2 out 0 in 0

| 04-10-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 12:07:39           | -0.0         | 0.4          | 0.2           | 60.8      | -450.7      | -2.8        |
| 12:07:40           | -0.0         | 0.4          | 0.2           | 60.8      | -450.7      | -2.8        |
| 12:07:47           | -0.0         | 0.3          | 0.2           | 60.9      | -450.1      | -2.8        |
| 12:07:57           | -0.0         | 0.3          | 0.2           | 60.9      | -430.1      | -2.8        |
| 12:08:07           | -0.0         | 0.2          | 0.2           | 61.0      | -433.5      | -2.8        |
| 12:08:17           | -0.0         | 0.2          | 0.2           | 61.0      | -435.7      | -2.8        |
| 12:08:27           | -0.0         | 0.2          | 0.2           | 61.0      | -436.9      | -2.8        |
| 12:08:37           | 0.0          | 0.1          | 0.2           | 61.0      | -437.7      | -2.8        |
| 12:08:47           | -0.0         | 0.1          | 0.2           | 61.0      | -438.7      | -2.8        |
| 12:08:57           | -0.0         | 0.1          | 0.2           | 61.0      | -439.4      | -2.8        |
| 12:09:07           | 0.0          | 0.1          | 0.2           | 61.0      | -439.5      | -2.8        |
| 12:09:17           | 0.0          | 0.1          | 0.2           | 61.0      | -440.1      | -2.8        |
| 12:09:27           | 0.0          | 0.1          | 0.2           | 61.0      | -440.6      | -2.8        |
| 12:09:37           | 0.0          | 0.0          | 0.2           | 61.1      | -441.3      | -2.8        |
| 12:09:47           | 0.0          | 0.0          | 0.2           | 61.1      | -441.1      | -2.8        |
| 12:09:57           | 0.0          | 0.0          | 0.2           | 61.1      | -442.7      | -2.8        |
| Avg =              | -0.0         | 0.2          | 0.2           | 61.0      | -440.5      | -2.8        |

## RADIANT CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-10-1997 Current Time = 12:38:07

File Name = c:\cemd\041097.PRM Calibration File: c:\cemd\0410b.CAL

Test #: 0410-02

| 04-10-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 12:38:47           | 2.0          | 2.4          | 0.2           | 63.4      | 372.3       | -2.8        |
| 12:39:47           | 2.0          | 2.4          | 0.2           | 63.8      | 372.4       | -2.8        |
| 12:40:47           | 2.0          | 2.4          | 0.2           | 64.4      | 372.5       | -2.8        |
| 12:41:47           | 3.9          | 2.4          | 0.2           | 64.8      | 368.7       | -2.8        |
| 12:42:47           | 35.8         | 2.4          | 0.2           | 65.2      | 363.3       | -2.8        |
| 12:43:47           | 43.8         | 2.4          | 0.2           | 65.5      | 360.6       | -2.8        |
| 12:44:47           | 58.8         | 2.4          | 0.2           | 65.7      | 359.1       | -2.8        |
| 12:45:47           | 62.3         | 2.4          | 0.2           | 65.8      | 358.7       | -2.8        |
| 12:46:47           | 61.5         | 2.3          | 0.2           | 65.8      | 358.6       | -2.8        |
| 12:47:47           | 61.4         | 2.4          | 0.2           | 65.8      | 358.1       | -2.8        |
| 12:48:47           | 77.0         | 2.3          | 0.2           | 65.9      | 353.0       | -2.8        |
| 12:49:47           | 92.6         | 2.3          | 0.2           | 66.0      | 348.3       | -2.8        |
| 12:50:47           | 132.3        | 2.3          | 0.2           | 66.0      | 342.7       | -2.8        |
| 12:51:47           | 129.6        | 2.3          | 0.2           | 66.0      | 342.0       | -2.8        |
| 12:52:47           | 130.7        | 2.3          | 0.2           | 66.0      | 342.0       | -2.8        |
| 12:53:47           | 125.5        | 2.3          | 0.2           | 66.0      | 342.0       | -2.8        |
| 12:54:47           | 127.8        | 2.3          | 0.2           | 66.1      | 341.7       | -2.8        |
| 12:55:47           | 109.0        | 2.3          | 0.2           | 66.1      | 340.8       | -2.8        |
| 12:56:47           | 100.0        | 2.3          | 0.2           | 66.0      | 340.2       | -2.8        |
| 12:57:47           | 118.3        | 2.3          | 0.2           | 65.8      | 333.4       | -2.8        |
| 12:58:47           | 151.6        | 2.3          | 0.2           | 65.7      | 328.3       | -2.8        |
| 12:59:47           | 159.2        | 2.3          | 0.2           | 65.7      | 323.8       | -2.8        |
| 13:00:47           | 189.4        | 2.2          | 0.2           | 65.7      | 319.5       | -2.8        |
| 13:01:47           | 201.5        | 2.2          | 0.2           | 65.7      | 313.6       | -2.8        |
| 13:02:47           | 221.5        | 2.2          | 0.2           | 65.7      | 312.1       | -2.8        |
| 13:03:47           | 211.4        | 2.1          | 0.2           | 65.8      | 312.1       | -2.8        |
| 13:04:47           | 196.7        | 2.1          | 0.2           | 65.7      | 312.1       | -2.8        |
| 13:05:47           | 188.2        | 2.1          | 0.2           | 65.7      | 312.1       | -2.8        |
| 13:06:47           | 174.5        | 2.1          | 0.2           | 65.6      | 312.1       | -2.8        |
| 13:07:47           | 171.7        | 2.1          | 0.2           | 65.6      | 312.1       | -2.8        |
| 13:08:47           | 168.3        | 2.1          | 0.2           | 65.6      | 312.1       | -2.8        |
| 13:09:47           | 160.8        | 2.2          | 0.2           | 65.7      | 312.1       | -2.8        |
| 13:10:47           | 149.5        | -5.3         | 0.2           | 65.8      | 312.1       | -2.8        |
| 13:11:47           | 154.8        | -2.3         | 0.2           | 65.8      | 312.1       | -2.8        |
| 13:12:47           | 140.9        | 2.4          | 0.2           | 65.8      | 312.1       | -2.8        |
| 13:13:47           | 120.9        | 2.4          | 0.2           | 65.8      | 312.1       | -2.8        |
| 13:14:47           | 116.1        | 2.5          | 0.2           | 65.8      | 312.1       | -2.8        |
| 13:15:47           | 109.1        | 2.5          | 0.2           | 65.8      | 312.1       | -2.8        |
| 13:16:47           | 114.1        | 2.5          | 0.2           | 65.9      | 312.1       | -2.8        |
| 13:17:47           | 112.1        | 2.5          | 0.2           | 65.9      | 312.1       | -3.0        |

Test #: 0410-02

| 04-10-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 13:18:47           | 105.9        | 2.5          | 0.2           | 65.9      | 312.1       | -2.8        |
| 13:19:47           | 101.1        | 2.5          | 0.2           | 65.9      | 312.1       | -2.8        |
| 13:20:47           | 100.5        | 2.5          | 0.2           | 65.9      | 312.1       | -2.8        |
| 13:21:47           | 101.9        | 2.5          | 0.2           | 66.0      | 312.1       | -2.8        |
| 13:22:47           | 95.2         | 2.5          | 0.2           | 66.0      | 312.1       | -2.7        |
| 13:23:47           | 90.5         | 2.5          | 0.2           | 66.0      | 312.1       | -2.7        |
| 13:24:47           | 88.2         | 2.5          | 0.2           | 66.0      | 312.1       | -2.7        |
| 13:25:47           | 85.3         | 2.5          | 0.2           | 65.9      | 312.1       | -2.7        |
| 13:26:47           | 83.4         | 2.5          | 0.2           | 65.9      | 312.1       | -2.7        |
| 13:27:47           | 87.8         | 2.5          | 0.2           | 65.9      | 311.6       | -2.7        |
| 13:28:47           | 92.3         | 2.5          | 0.2           | 66.0      | 312.8       | -2.7        |
| 13:29:47           | 79.6         | 2.5          | 0.2           | 65.9      | 311.1       | -2.7        |
| 13:30:47           | 92.8         | 2.5          | 0.2           | 65.9      | 305.0       | -2.7        |
| 13:31:47           | 114.9        | 2.5          | 0.2           | 66.0      | 300.8       | -2.7        |
| 13:32:47           | 116.6        | 2.5          | 0.2           | 65.9      | 299.5       | -2.7        |
| 13:33:47           | 129.3        | 2.5          | 0.2           | 66.0      | 295.0       | -2.7        |
| 13:34:47           | 127.5        | 2.5          | 0.2           | 66.1      | 293.4       | -2.7        |
| 13:35:47           | 127.9        | 2.5          | 0.2           | 66.1      | 289.1       | -2.7        |
| 13:36:47           | 143.1        | 2.5          | 0.2           | 66.2      | 284.7       | -2.7        |
| 13:37:47           | 132.5        | 2.6          | 0.2           | 66.1      | 284.2       | -2.7        |
| 13:38:47           | 153.7        | 2.6          | 0.2           | 66.1      | 282.4       | -2.6        |
| 13:39:47           | 146.2        | 2.6          | 0.2           | 66.1      | 280.4       | -2.7        |
| 13:40:47           | 147.6        | 2.6          | 0.2           | 66.1      | 275.2       | -2.7        |
| 13:41:47           | 167.4        | 2.6          | 0.2           | 66.1      | 271.5       | -2.7        |
| 13:42:47           | 168.7        | 2.6          | 0.2           | 66.1      | 269.6       | -2.7        |
| 13:43:47           | 176.9        | 2.6          | 0.2           | 66.1      | 268.4       | -2.7        |
| 13:44:47           | 160.8        | 2.6          | 0.2           | 66.0      | 268.4       | -2.7        |
| 13:45:47           | 167.7        | 2.6          | 0.2           | 66.0      | 268.4       | -2.7        |
| 13:46:47           | 157.6        | 2.6          | 0.2           | 66.0      | 268.4       | -2.7        |
| 13:47:47           | 147.7        | 2.6          | 0.2           | 66.0      | 268.4       | -2.7        |
| 13:48:47           | 139.3        | 2.7          | 0.2           | 66.0      | 268.4       | -2.7        |
| 13:49:47           | 139.4        | 2.7          | 0.2           | 66.0      | 268.4       | -2.7        |
| 13:50:47           | 127.3        | 2.7          | 0.2           | 66.0      | 268.4       | -2.7        |
| 13:51:47           | 122.8        | 2.7          | 0.2           | 66.2      | 268.4       | -2.7        |
| 13:52:47           | 119.3        | 2.7          | 0.2           | 66.2      | 268.4       | -2.7        |
| 13:53:47           | 116.4        | 2.7          | 0.2           | 66.3      | 269.4       | -2.7        |
| 13:54:47           | 111.7        | 2.7          | 0.2           | 66.3      | 268.4       | -2.7        |
| 13:55:47           | 103.9        | 2.6          | 0.2           | 66.3      | 268.4       | -2.7        |
| 13:56:47           | 99.2         | 2.6          | 0.2           | 66.2      | 268.4       | -2.7        |
| 13:57:47           | 94.5         | 2.6          | 0.2           | 66.2      | 268.4       | -2.7        |
| 13:58:47           | 90.8         | 2.6          | 0.2           | 66.2      | 268.4       | -2.7        |
| 13:59:47           | 88.4         | 2.6          | 0.2           | 66.3      | 268.4       | -2.8        |
| 14:00:47           | 81.2         | 2.5          | 0.2           | 66.2      | 268.4       | -2.8        |
| 14:01:47           | 81.9         | 2.5          | 0.2           | 66.1      | 268.4       | -2.8        |
| 14:02:47           | 79.2         | 2.5          | 0.2           | 66.2      | 268.4       | -3.0        |
| 14:03:47           | 76.4         | 2.5          | 0.2           | 66.3      | 268.4       | -3.0        |
| 14:04:47           | 68.9         | 2.5          | 0.2           | 66.3      | 267.9       | -3.0        |
| 14:05:47           | 70.9         | 2.5          | 0.2           | 66.6      | 268.9       | -3.0        |
| 14:06:47           | 63.6         | 2.5          | 0.2           | 66.5      | 269.5       | -2.8        |
| 14:07:47           | 60.8         | 2.5          | 0.2           | 66.6      | 269.0       | -2.8        |
| 14:08:47           | 59.8         | 2.5          | 0.2           | 66.7      | 268.7       | -2.8        |
| 14:09:47           | 58.0         | 2.5          | 0.2           | 66.7      | 268.7       | -2.8        |
| 14:10:47           | 54.4         | 2.5          | 0.2           | 66.7      | 268.0       | -2.8        |
| 14:11:47           | 57.1         | 2.5          | 0.2           | 66.8      | 265.0       | -2.8        |
| 14:12:47           | 81.8         | 2.4          | 0.2           | 66.9      | 258.8       | -2.8        |
| 14:13:47           | 108.5        | 2.4          | 0.2           | 66.9      | 256.5       | -2.8        |



Test #: 0410-02

| 04-10-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 14:14:47           | 113.7        | 2.4          | 0.2           | 67.0      | 251.7       | -2.8        |
| 14:15:47           | 135.3        | 2.4          | 0.2           | 67.0      | 245.8       | -2.8        |
| 14:16:47           | 142.9        | 2.4          | 0.2           | 67.0      | 240.2       | -2.8        |
| 14:17:47           | 145.6        | 2.4          | 0.2           | 67.1      | 237.0       | -2.8        |
| 14:18:47           | 169.9        | 2.3          | 0.2           | 67.1      | 231.5       | -2.8        |
| 14:19:47           | 167.4        | 2.3          | 0.2           | 67.0      | 226.4       | -2.8        |
| 14:20:47           | 187.7        | 2.3          | 0.2           | 67.1      | 222.0       | -2.8        |
| 14:21:47           | 182.5        | 2.3          | 0.2           | 67.1      | 221.4       | -2.8        |
| 14:22:47           | 174.2        | 2.3          | 0.2           | 67.0      | 220.0       | -2.8        |
| 14:23:47           | 163.8        | 2.3          | 0.2           | 67.0      | 220.0       | -2.8        |
| 14:24:47           | 153.1        | 2.3          | 0.2           | 67.1      | 220.0       | -2.8        |
| 14:25:47           | 150.1        | 2.4          | 0.2           | 67.1      | 220.0       | -2.8        |
| 14:26:47           | 140.5        | 2.4          | 0.2           | 67.3      | 220.0       | -1.9        |
| 14:27:47           | 130.8        | 2.4          | 0.2           | 67.2      | 220.0       | -2.8        |
| 14:28:47           | 123.2        | 2.4          | 0.1           | 67.3      | 220.0       | -1.8        |
| 14:29:47           | 117.4        | 2.4          | 0.2           | 67.0      | 220.0       | -2.8        |
| 14:30:47           | 108.2        | 2.4          | 0.2           | 66.9      | 219.9       | -2.8        |
| 14:31:47           | 101.9        | 2.4          | 0.2           | 66.9      | 220.0       | -2.8        |
| 14:32:47           | 99.0         | 2.4          | 0.2           | 67.0      | 220.0       | -2.8        |
| 14:33:47           | 94.6         | 2.4          | 0.2           | 67.0      | 220.0       | -2.8        |
| 14:34:47           | 87.7         | 2.4          | 0.2           | 67.0      | 220.0       | -2.8        |
| 14:35:47           | 80.5         | 2.4          | 0.2           | 67.0      | 219.9       | -2.8        |
| 14:36:47           | 76.8         | 2.3          | 0.2           | 67.0      | 219.9       | -2.8        |
| 14:37:47           | 73.0         | 2.3          | 0.2           | 66.9      | 219.9       | -2.8        |
| 14:38:47           | 69.6         | 2.3          | 0.2           | 66.9      | 219.9       | -2.8        |
| 14:39:47           | 66.5         | 2.3          | 0.2           | 67.0      | 219.9       | -2.8        |
| 14:40:47           | 62.2         | 2.3          | 0.2           | 66.9      | 219.9       | -2.8        |
| 14:41:47           | 60.0         | 2.3          | 0.2           | 66.9      | 219.9       | -2.8        |
| 14:42:47           | 56.3         | 2.3          | 0.2           | 66.9      | 219.9       | -2.8        |
| 14:43:47           | 54.8         | 2.2          | 0.2           | 66.9      | 219.9       | -2.8        |
| 14:44:47           | 50.5         | 2.2          | 0.2           | 66.9      | 219.9       | -2.8        |
| 14:45:47           | 49.1         | 2.2          | 0.2           | 66.9      | 219.9       | -2.8        |
| 14:46:47           | 46.2         | 2.3          | 0.2           | 66.9      | 219.9       | -2.8        |
| 14:47:47           | 43.2         | 2.2          | 0.2           | 66.9      | 219.9       | -2.8        |
| 14:48:47           | 39.6         | 2.2          | 0.2           | 66.8      | 219.9       | -2.8        |
| 14:49:47           | 36.1         | 2.2          | 0.2           | 66.7      | 219.9       | -2.8        |
| 14:50:47           | 34.3         | 2.2          | 0.2           | 66.7      | 219.9       | -2.8        |
| 14:51:47           | 31.9         | 2.2          | 0.2           | 66.7      | 219.9       | -2.8        |
| 14:52:47           | 29.7         | 2.2          | 0.2           | 66.7      | 219.9       | -2.8        |
| 14:53:47           | 27.4         | 2.2          | 0.2           | 66.7      | 219.9       | -2.8        |
| 14:54:47           | 25.4         | 2.2          | 0.2           | 66.7      | 219.9       | -2.8        |
| 14:55:47           | 22.8         | 2.2          | 0.2           | 66.6      | 219.9       | -2.8        |
| 14:56:47           | 21.6         | 2.2          | 0.2           | 66.8      | 219.9       | -2.8        |
| 14:57:47           | 19.7         | 2.2          | 0.2           | 66.9      | 219.8       | -2.8        |
| 14:58:47           | 18.1         | 2.1          | 0.2           | 66.9      | 219.8       | -2.8        |
| 14:59:47           | 16.0         | 2.1          | 0.2           | 66.9      | 219.9       | -2.8        |
| 15:00:47           | 14.6         | 2.1          | 0.2           | 66.9      | 219.9       | -2.8        |
| 15:01:47           | 13.6         | 2.1          | 0.2           | 66.9      | 219.9       | -2.8        |
| 15:02:47           | 12.6         | 2.1          | 0.2           | 66.9      | 219.8       | -2.8        |
| 15:03:47           | 11.5         | 2.1          | 0.2           | 66.8      | 219.8       | -2.8        |
| 15:04:47           | 10.5         | 2.1          | 0.2           | 66.8      | 219.8       | -2.8        |
| 15:05:47           | 9.8          | 2.1          | 0.2           | 66.8      | 219.9       | -2.8        |
| 15:06:47           | 9.3          | 2.1          | 0.2           | 66.8      | 219.8       | -2.8        |
| 15:07:47           | 8.5          | 2.1          | 0.2           | 66.8      | 219.8       | -2.8        |
| 15:08:47           | 8.1          | 2.1          | 0.2           | 66.8      | 219.8       | -2.8        |
| 15:09:47           | 7.5          | 2.1          | 0.2           | 66.7      | 219.8       | -2.8        |

Test #: 0410-02

| 04-10-1997 | THC o | THC i | Flow  | Temp | Resin | Ps    |
|------------|-------|-------|-------|------|-------|-------|
| Time       | ppm   | ppm   | inH2O | F    | lb    | inH2O |

|       |      |     |     |      |       |      |
|-------|------|-----|-----|------|-------|------|
| Avg = | 97.8 | 2.3 | 0.2 | 66.3 | 273.4 | -2.8 |
|-------|------|-----|-----|------|-------|------|

## RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-10-1997 Current Time = 15:19:44

File Name = c:\ceedata\041097.PRN Calibration File: c:\ceedata\0410b.CAL

Test #: Post 2 out 0 in 0

| 04-10-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 15:19:46           | 0.0          | 0.1          | 0.2           | 65.3      | -458.4      | -2.7        |
| 15:19:47           | 0.0          | 0.1          | 0.2           | 65.3      | -458.4      | -2.7        |
| 15:19:57           | 0.0          | 0.1          | 0.2           | 65.3      | -438.1      | -2.8        |
| 15:20:07           | 0.0          | 0.0          | 0.2           | 65.3      | -433.2      | -2.8        |
| 15:20:17           | 0.0          | 0.0          | 0.2           | 65.1      | -436.8      | -2.8        |
| 15:20:27           | 0.0          | 0.0          | 0.2           | 65.0      | -438.9      | -2.8        |
| 15:20:37           | 0.0          | 0.0          | 0.2           | 64.9      | -440.2      | -2.8        |
| 15:20:47           | 0.0          | 0.0          | 0.2           | 64.8      | -442.0      | -2.8        |
| 15:20:57           | 0.0          | 0.0          | 0.2           | 64.6      | -440.9      | -2.8        |
| 15:21:07           | -0.0         | 0.0          | 0.2           | 64.4      | -441.2      | -2.8        |
| Avg =              | 0.0          | 0.0          | 0.2           | 65.0      | -442.8      | -2.8        |

RADIANT CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-10-1997 Current Time = 15:24:58  
 File Name = c:\ceedata\041097.PRM Calibration File: c:\ceedata\0410b.CAL

Test #: Post 2 out 297 in 15.0

| 04-10-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 15:25:01           | 295.0        | 14.4         | 0.2           | 65.0      | -419.3      | -2.8        |
| 15:25:02           | 295.0        | 14.4         | 0.2           | 65.0      | -419.3      | -2.8        |
| 15:25:07           | 294.9        | 14.5         | 0.2           | 65.2      | -429.5      | -2.8        |
| 15:25:17           | 294.9        | 14.5         | 0.2           | 65.2      | -393.6      | -2.8        |
| 15:25:27           | 294.5        | 14.5         | 0.2           | 65.3      | -396.8      | -2.8        |
| 15:25:37           | 294.1        | 14.5         | 0.2           | 65.3      | -400.3      | -2.8        |
| 15:25:47           | 294.9        | 14.5         | 0.2           | 65.4      | -402.2      | -2.8        |
| 15:25:57           | 294.9        | 14.5         | 0.2           | 65.4      | -403.8      | -2.8        |
| Avg =              | 294.8        | 14.5         | 0.2           | 65.2      | -408.1      | -2.8        |

## RADIANT CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-10-1997 Current Time = 15:31:37

File Name = c:\cendata\041097.PRM Calibration File:c:\cendata\0410b.CAL

Test #: Post 2 out 600 in 30.4

| 04-10-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 15:31:40           | 607.0        | 29.5         | 0.2           | 64.4      | -383.8      | -2.8        |
| 15:31:42           | 607.0        | 29.5         | 0.2           | 64.4      | -383.8      | -2.8        |
| 15:31:47           | 605.9        | 29.6         | 0.2           | 64.2      | -387.0      | -2.8        |
| 15:31:57           | 605.7        | 29.6         | 0.2           | 64.1      | -364.7      | -2.8        |
| 15:32:07           | 606.6        | 29.6         | 0.2           | 64.0      | -366.9      | -2.8        |
| 15:32:17           | 606.9        | 29.6         | 0.2           | 63.8      | -368.7      | -2.8        |
| 15:32:27           | 605.6        | 29.6         | 0.2           | 63.6      | -369.7      | -2.8        |
| 15:32:37           | 605.8        | 29.6         | 0.2           | 63.6      | -370.0      | -2.8        |
| 15:32:47           | 606.2        | 29.6         | 0.2           | 63.6      | -370.0      | -2.8        |
| 15:32:57           | 605.1        | 29.6         | 0.2           | 63.7      | -369.7      | -2.8        |
| Avg =              | 606.2        | 29.6         | 0.2           | 63.9      | -373.4      | -2.8        |

RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-10-1997 Current Time = 15:39:11  
 File Name = c:\ce\data\041097.PRM Calibration File: c:\ce\data\0410b.CAL

Test #: 0410-03

| 04-10-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 15:39:47           | 2.0          | 5.8          | 0.2           | 63.8      | 211.6       | -2.8        |
| 15:40:47           | 2.0          | 5.6          | 0.2           | 63.5      | 211.7       | -2.8        |
| 15:41:47           | 2.0          | 5.6          | 0.2           | 63.2      | 211.8       | -2.8        |
| 15:42:47           | 2.0          | 5.4          | 0.2           | 63.3      | 211.8       | -2.8        |
| 15:43:47           | 2.7          | 3.0          | 0.2           | 64.0      | 211.8       | -2.8        |
| 15:44:47           | 4.0          | 2.6          | 0.2           | 64.4      | 211.5       | -2.8        |
| 15:45:47           | 5.2          | 2.5          | 0.2           | 64.8      | 211.5       | -2.8        |
| 15:46:47           | 25.2         | 2.4          | 0.2           | 65.6      | 209.4       | -2.8        |
| 15:47:47           | 82.1         | 2.4          | 0.2           | 66.0      | 206.3       | -2.8        |
| 15:48:47           | 185.3        | 2.4          | 0.2           | 66.2      | 203.1       | -2.8        |
| 15:49:47           | 182.3        | 2.3          | 0.2           | 66.1      | 202.0       | -2.8        |
| 15:50:47           | 158.9        | 2.3          | 0.2           | 66.0      | 202.1       | -2.8        |
| 15:51:47           | 141.3        | 2.3          | 0.2           | 66.0      | 202.1       | -2.8        |
| 15:52:47           | 128.2        | 2.3          | 0.2           | 66.0      | 202.1       | -2.8        |
| 15:53:47           | 115.7        | 2.3          | 0.2           | 66.0      | 202.1       | -2.8        |
| 15:54:47           | 105.6        | 2.2          | 0.2           | 65.9      | 202.1       | -2.8        |
| 15:55:47           | 99.1         | 2.2          | 0.2           | 65.8      | 202.1       | -2.8        |
| 15:56:47           | 93.3         | 2.2          | 0.2           | 65.3      | 202.1       | -2.8        |
| 15:57:47           | 89.6         | 2.2          | 0.2           | 64.7      | 202.1       | -2.8        |
| 15:58:47           | 82.3         | 2.2          | 0.2           | 65.2      | 202.1       | -2.4        |
| 15:59:47           | 76.6         | 2.4          | 0.2           | 65.8      | 202.1       | -2.4        |
| 16:00:47           | 73.2         | 2.3          | 0.2           | 65.5      | 202.1       | -2.8        |
| 16:01:47           | 64.3         | 2.3          | 0.2           | 66.0      | 202.1       | -2.2        |
| 16:02:47           | 63.4         | 2.3          | 0.2           | 65.3      | 202.1       | -2.8        |
| 16:03:47           | 60.1         | 2.3          | 0.2           | 65.2      | 202.1       | -2.8        |
| 16:04:47           | 58.2         | 2.3          | 0.2           | 65.2      | 202.1       | -2.8        |
| 16:05:47           | 53.9         | 2.2          | 0.2           | 65.3      | 202.1       | -2.8        |
| 16:06:47           | 48.6         | 2.2          | 0.2           | 65.1      | 202.1       | -2.8        |
| 16:07:47           | 46.7         | 2.2          | 0.2           | 65.0      | 202.1       | -2.8        |
| 16:08:47           | 45.0         | 2.2          | 0.2           | 64.9      | 202.1       | -2.8        |
| 16:09:47           | 43.1         | 2.2          | 0.2           | 64.9      | 202.1       | -2.8        |
| 16:10:47           | 41.9         | 2.2          | 0.2           | 64.9      | 202.1       | -2.8        |
| 16:11:47           | 39.3         | 2.2          | 0.2           | 64.9      | 202.1       | -2.8        |
| 16:12:47           | 36.2         | 2.1          | 0.2           | 64.9      | 202.1       | -2.8        |
| 16:13:47           | 35.2         | 2.1          | 0.2           | 64.8      | 202.1       | -2.8        |
| 16:14:47           | 33.1         | 2.1          | 0.2           | 64.8      | 202.1       | -2.8        |
| 16:15:47           | 31.5         | 2.1          | 0.2           | 64.7      | 202.1       | -2.8        |
| 16:16:47           | 30.1         | 2.1          | 0.2           | 64.7      | 202.1       | -2.8        |
| 16:17:47           | 29.2         | 2.1          | 0.2           | 64.6      | 202.1       | -2.8        |
| 16:18:47           | 28.3         | 2.1          | 0.2           | 64.6      | 202.1       | -2.8        |

Test #: 0410-03

| 04-10-1997 | THC o | THC i | Flow  | Temp | Resin | Ps    |
|------------|-------|-------|-------|------|-------|-------|
|            | ppm   | ppm   | inH2O | F    | lb    | inH2O |
| 16:19:47   | 26.8  | 2.1   | 0.2   | 64.5 | 202.1 | -2.8  |
| 16:20:47   | 25.8  | 2.1   | 0.2   | 64.5 | 202.1 | -2.8  |
| 16:21:47   | 25.4  | 2.0   | 0.2   | 64.4 | 202.1 | -2.8  |
| 16:22:47   | 24.3  | 2.0   | 0.2   | 64.3 | 202.1 | -2.8  |
| 16:23:47   | 24.2  | 2.0   | 0.2   | 64.3 | 202.2 | -2.8  |
| 16:24:47   | 22.5  | 2.0   | 0.2   | 64.3 | 202.2 | -2.8  |
| 16:25:47   | 21.7  | 2.0   | 0.2   | 64.4 | 202.2 | -2.8  |
| 16:26:47   | 21.2  | 2.0   | 0.2   | 64.3 | 202.2 | -2.8  |
| 16:27:47   | 20.3  | 2.0   | 0.2   | 64.4 | 202.2 | -2.8  |
| 16:28:47   | 20.1  | 2.0   | 0.2   | 64.3 | 202.2 | -2.8  |
| 16:29:47   | 19.2  | 2.0   | 0.2   | 64.2 | 202.2 | -2.8  |
| 16:30:47   | 18.8  | 2.0   | 0.2   | 64.3 | 202.2 | -2.8  |
| 16:31:47   | 17.9  | 2.0   | 0.2   | 64.2 | 202.3 | -2.9  |
| 16:32:47   | 17.7  | 2.0   | 0.2   | 64.3 | 202.3 | -3.0  |
| 16:33:47   | 16.8  | 2.0   | 0.2   | 64.3 | 202.3 | -2.8  |
| 16:34:47   | 16.1  | 2.0   | 0.2   | 64.3 | 202.3 | -2.8  |
| 16:35:47   | 15.6  | 2.0   | 0.2   | 64.3 | 202.3 | -2.8  |
| 16:36:47   | 14.7  | 2.0   | 0.2   | 64.3 | 202.3 | -2.8  |
| 16:37:47   | 14.7  | 2.0   | 0.2   | 64.2 | 202.4 | -2.7  |
| 16:38:47   | 14.3  | 2.0   | 0.2   | 64.4 | 202.3 | -2.7  |
| 16:39:47   | 14.1  | 2.0   | 0.2   | 64.7 | 202.3 | -2.7  |
| 16:40:47   | 13.5  | 2.0   | 0.2   | 64.9 | 202.3 | -2.7  |
| 16:41:47   | 12.8  | 1.9   | 0.2   | 65.0 | 202.3 | -2.7  |
| 16:42:47   | 12.2  | 1.9   | 0.2   | 65.0 | 202.3 | -2.7  |
| 16:43:47   | 11.7  | 1.9   | 0.2   | 65.1 | 202.3 | -2.7  |
| 16:44:47   | 11.7  | 1.9   | 0.2   | 65.3 | 202.3 | -2.7  |
| 16:45:47   | 11.2  | 1.9   | 0.2   | 65.3 | 199.7 | -2.7  |
| 16:46:47   | 10.6  | 1.9   | 0.2   | 65.3 | 202.3 | -2.7  |
| 16:47:47   | 10.2  | 1.9   | 0.2   | 65.4 | 201.8 | -2.7  |
| 16:48:47   | 9.6   | 1.9   | 0.2   | 65.4 | 201.8 | -2.7  |
| 16:49:47   | 9.3   | 1.9   | 0.2   | 65.4 | 201.8 | -2.7  |
| 16:50:47   | 9.3   | 1.9   | 0.2   | 65.4 | 201.8 | -2.7  |
| 16:51:47   | 8.4   | 1.9   | 0.2   | 65.4 | 201.8 | -2.7  |
| 16:52:47   | 8.1   | 1.9   | 0.2   | 65.4 | 201.8 | -2.7  |
| 16:53:47   | 8.1   | 1.9   | 0.2   | 65.3 | 201.8 | -2.7  |
| 16:54:47   | 7.0   | 1.9   | 0.2   | 65.4 | 201.8 | -2.7  |
| 16:55:47   | 7.0   | 1.9   | 0.2   | 65.4 | 201.8 | -2.7  |
| 16:56:47   | 7.0   | 1.9   | 0.2   | 65.4 | 201.8 | -2.7  |
| 16:57:47   | 6.7   | 1.9   | 0.2   | 65.4 | 201.8 | -2.7  |
| 16:58:47   | 6.0   | 1.9   | 0.2   | 65.4 | 201.8 | -2.7  |
| Avg =      | 37.7  | 2.3   | 0.2   | 64.9 | 203.1 | -2.8  |

RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-10-1997 Current Time = 17:10:53  
 File Name = c:\cemdata\041097.PRN Calibration File: c:\cemdata\0410b.CAL

Test #: Post out 600 in 30.4

| 04-10-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 17:10:57           | 608.9        | 29.8         | 0.2           | 65.2      | 201.9       | -2.7        |
| 17:10:59           | 608.9        | 29.8         | 0.2           | 65.2      | 201.9       | -2.7        |
| 17:11:07           | 609.8        | 29.8         | 0.2           | 65.2      | 201.9       | -2.6        |
| 17:11:17           | 609.0        | 29.8         | 0.2           | 65.1      | 201.9       | -2.6        |
| 17:11:27           | 609.0        | 29.8         | 0.2           | 65.1      | 201.8       | -2.7        |
| 17:11:37           | 609.7        | 29.8         | 0.2           | 65.1      | 201.9       | -2.7        |
| 17:11:47           | 609.9        | 29.8         | 0.2           | 65.1      | 201.9       | -2.6        |
| 17:11:57           | 608.9        | 29.8         | 0.2           | 65.1      | 201.9       | -2.7        |
| 17:12:07           | 609.0        | 29.8         | 0.2           | 65.1      | 201.9       | -2.6        |
| Avg =              | 609.2        | 29.8         | 0.2           | 65.1      | 201.9       | -2.7        |



RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-10-1997 Current Time = 17:15:05

File Name = c:\ce\data\041097.PRN Calibration File: c:\ce\data\0410b.CAL

Test #: Post out 297 in 15.0

| 04-10-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 17:15:09           | 299.1        | 14.6         | 0.2           | 65.0      | 201.9       | -2.7        |
| 17:15:11           | 299.1        | 14.6         | 0.2           | 65.0      | 201.9       | -2.7        |
| 17:15:17           | 299.1        | 14.7         | 0.2           | 65.0      | 201.8       | -2.7        |
| 17:15:27           | 299.1        | 14.7         | 0.2           | 65.1      | 201.8       | -2.6        |
| 17:15:37           | 299.1        | 14.7         | 0.2           | 65.1      | 201.8       | -2.6        |
| 17:15:47           | 298.0        | 14.7         | 0.2           | 65.0      | 201.8       | -2.6        |
| 17:15:57           | 299.1        | 14.7         | 0.2           | 65.0      | 201.8       | -2.6        |
| 17:16:07           | 299.0        | 14.7         | 0.2           | 65.0      | 201.8       | -2.6        |
| 17:16:17           | 297.9        | 14.7         | 0.2           | 65.0      | 201.8       | -2.6        |
| 17:16:27           | 298.0        | 14.7         | 0.2           | 65.0      | 201.8       | -2.6        |
| 17:16:37           | 298.0        | 14.7         | 0.2           | 65.0      | 201.8       | -2.6        |
| 17:16:47           | 297.9        | 14.7         | 0.2           | 65.0      | 201.8       | -2.6        |
| Avg =              | 298.6        | 14.7         | 0.2           | 65.0      | 201.8       | -2.6        |

RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-10-1997 Current Time = 17:23:00  
 File Name = c:\cendata\041097.PRM Calibration File: c:\cendata\0410b.CAL

Test #: Post out 0 in 0

| 04-10-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 17:23:05           | 0.0          | 0.1          | 0.2           | 65.0      | 201.9       | -2.7        |
| 17:23:07           | -0.0         | 0.1          | 0.2           | 64.9      | 201.8       | -2.6        |
| 17:23:17           | -0.0         | 0.1          | 0.2           | 64.9      | 201.8       | -2.6        |
| 17:23:27           | 0.0          | 0.1          | 0.2           | 64.9      | 201.8       | -2.6        |
| 17:23:37           | 0.0          | 0.1          | 0.2           | 64.9      | 201.9       | -2.6        |
| 17:23:47           | 0.0          | 0.1          | 0.2           | 64.9      | 201.8       | -2.6        |
| 17:23:57           | 0.0          | 0.1          | 0.2           | 64.9      | 201.8       | -2.6        |
| 17:24:07           | 0.0          | 0.0          | 0.2           | 64.9      | 201.8       | -2.6        |
| 17:24:17           | 0.0          | 0.1          | 0.2           | 64.9      | 201.8       | -2.6        |
| 17:24:27           | 0.0          | 0.0          | 0.2           | 64.9      | 201.8       | -2.6        |
| 17:24:37           | 0.0          | 0.0          | 0.2           | 64.9      | 201.8       | -2.6        |
| 17:24:47           | 0.0          | 0.0          | 0.2           | 64.9      | 201.8       | -2.6        |
| 17:24:57           | 0.0          | 0.0          | 0.2           | 64.9      | 201.8       | -2.6        |
| 17:25:07           | 0.0          | 0.0          | 0.2           | 64.9      | 201.8       | -2.6        |
| 17:25:17           | 0.0          | 0.0          | 0.2           | 64.9      | 201.8       | -2.6        |
| 17:25:27           | 0.0          | 0.0          | 0.2           | 64.9      | 201.8       | -2.6        |
| 17:25:37           | 0.0          | 0.0          | 0.2           | 64.9      | 201.8       | -2.6        |
| 17:25:47           | -0.0         | 0.0          | 0.2           | 64.9      | 201.8       | -2.6        |
| Avg =              | 0.0          | 0.0          | 0.2           | 64.9      | 201.8       | -2.6        |

Resin Scale QC

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-10-1997 Current Time = 17:40:40

File Name = c:\cemdata\041097.PRM Calibration File: c:\cemdata\0410b.CAL

Test #: Resin tare

| 04-10-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 17:40:43           | 1.1          | -0.2         | -0.0          | 64.4      | 201.7       | 0.0         |
| 17:40:44           | 1.1          | -0.2         | -0.0          | 64.4      | 201.7       | 0.0         |
| 17:40:49           | 1.1          | -0.1         | 0.0           | 64.5      | 201.7       | 0.0         |
| 17:40:59           | 1.1          | -0.1         | 0.0           | 64.5      | 201.7       | 0.0         |
| 17:41:09           | 1.1          | -0.1         | 0.0           | 64.4      | 201.7       | 0.0         |
| 17:41:19           | 1.1          | -0.1         | 0.0           | 64.4      | 201.7       | 0.0         |
| 17:41:29           | 1.1          | -0.1         | 0.0           | 64.4      | 201.7       | 0.0         |
| 17:41:39           | 1.1          | -0.1         | 0.0           | 64.4      | 201.6       | 0.0         |
| 17:41:49           | 1.1          | -0.1         | 0.0           | 64.4      | 201.6       | 0.0         |
| 17:41:59           | 1.1          | -0.1         | 0.0           | 64.4      | 201.7       | 0.0         |
| 17:42:09           | 1.1          | -0.1         | 0.0           | 64.4      | 201.7       | 0.0         |
| 17:42:19           | 1.1          | -0.1         | 0.0           | 64.4      | 201.6       | 0.0         |
| 17:42:29           | 1.1          | -0.1         | 0.0           | 64.4      | 201.6       | 0.0         |
| Avg =              | 1.1          | -0.1         | 0.0           | 64.4      | 201.7       | 0.0         |

## RADIANT CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-10-1997 Current Time = 17:43:51

File Name = c:\cendata\041097.PRM Calibration File: c:\cendata\0410b.CAL

Test #: Resin tare + 50

| 04-10-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 17:43:54           | 1.1          | -0.1         | 0.0           | 64.3      | 251.7       | 0.0         |
| 17:43:56           | 1.1          | -0.1         | 0.0           | 64.3      | 251.7       | 0.0         |
| 17:43:59           | 1.2          | -0.1         | 0.0           | 64.4      | 251.8       | 0.0         |
| 17:44:09           | 1.1          | -0.1         | 0.0           | 64.3      | 251.7       | 0.0         |
| 17:44:19           | 1.1          | -0.1         | 0.0           | 64.3      | 251.7       | 0.0         |
| 17:44:29           | 1.1          | -0.1         | 0.0           | 64.3      | 251.7       | 0.0         |
| 17:44:39           | 1.1          | -0.1         | 0.0           | 64.3      | 251.7       | 0.0         |
| 17:44:49           | 1.1          | -0.1         | 0.0           | 64.3      | 251.7       | 0.0         |
| 17:44:59           | 1.1          | -0.1         | 0.0           | 64.3      | 251.7       | 0.0         |
| 17:45:09           | 1.1          | -0.1         | 0.0           | 64.3      | 251.7       | 0.0         |
| 17:45:19           | 1.1          | -0.1         | 0.0           | 64.3      | 251.7       | 0.0         |
| 17:45:29           | 1.1          | -0.1         | 0.0           | 64.3      | 251.7       | 0.0         |
| 17:45:39           | 1.1          | -0.1         | 0.0           | 64.3      | 251.7       | 0.0         |
| 17:45:49           | 1.1          | -0.1         | 0.0           | 64.3      | 251.7       | 0.0         |
| 17:45:59           | 1.1          | -0.1         | 0.0           | 64.3      | 251.7       | 0.0         |
| 17:46:09           | 1.1          | -0.1         | 0.0           | 64.3      | 251.7       | 0.0         |
| 17:46:19           | 1.1          | -0.1         | 0.0           | 64.3      | 251.7       | 0.0         |
| 17:46:29           | 1.1          | -0.1         | 0.0           | 64.3      | 251.7       | 0.0         |
| Avg =              | 1.1          | -0.1         | 0.0           | 64.3      | 251.7       | 0.0         |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-10-1997 Current Time = 17:49:23

File Name = c:\ceadata\041097.PRN Calibration File: c:\ceadata\04106.CAL

Test #: Resin tare + 100

| 04-10-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 17:49:27           | 1.0          | -0.1         | 0.0           | 64.2      | 301.7       | 0.0         |
| 17:49:29           | 1.0          | -0.1         | 0.0           | 64.2      | 301.7       | 0.0         |
| 17:49:39           | 1.1          | -0.1         | 0.0           | 64.2      | 301.7       | 0.0         |
| 17:49:49           | 1.1          | -0.1         | 0.0           | 64.2      | 301.6       | 0.0         |
| 17:49:59           | 1.1          | -0.1         | 0.0           | 64.2      | 301.7       | 0.0         |
| 17:50:09           | 0.4          | -0.1         | 0.0           | 64.2      | 301.7       | 0.0         |
| 17:50:19           | 1.1          | -0.1         | 0.0           | 64.2      | 301.7       | 0.0         |
| 17:50:29           | 1.1          | -0.1         | 0.0           | 64.2      | 301.7       | 0.0         |
| 17:50:39           | 1.1          | -0.1         | 0.0           | 64.2      | 301.7       | 0.0         |
| 17:50:49           | 1.1          | -0.1         | 0.0           | 64.2      | 301.7       | 0.0         |
| Avg =              | 1.0          | -0.1         | 0.0           | 64.2      | 301.7       | 0.0         |

## RADIANT CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-10-1997 Current Time = 17:54:35

File Name = c:\ceadata\041097.PRW Calibration File:c:\ceadata\0410b.CAL

Test #: Resin tare + 200

| 04-10-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 17:54:39           | 1.1          | -0.1         | 0.0           | 64.2      | 401.5       | 0.0         |
| 17:54:40           | 1.1          | -0.1         | 0.0           | 64.2      | 401.5       | 0.0         |
| 17:54:49           | 1.1          | -0.1         | 0.0           | 64.2      | 401.5       | 0.0         |
| 17:54:59           | 1.1          | -0.1         | 0.0           | 64.2      | 401.5       | 0.0         |
| 17:55:09           | 1.1          | -0.2         | 0.0           | 64.2      | 401.5       | 0.0         |
| 17:55:19           | 1.1          | -0.3         | 0.0           | 64.2      | 401.5       | 0.0         |
| 17:55:29           | 1.1          | -0.3         | 0.0           | 64.2      | 401.5       | 0.0         |
| 17:55:39           | 1.1          | -0.3         | 0.0           | 64.2      | 401.5       | 0.0         |
| 17:55:49           | 1.1          | -0.3         | 0.0           | 64.2      | 401.5       | 0.0         |
| 17:55:59           | 1.1          | -0.3         | 0.0           | 64.2      | 401.5       | 0.0         |
| 17:56:09           | 1.1          | -0.3         | 0.0           | 64.2      | 401.5       | 0.0         |
| 17:56:19           | 1.1          | -0.3         | 0.0           | 64.2      | 401.5       | 0.0         |
| 17:56:29           | 1.1          | -0.3         | 0.0           | 64.2      | 401.5       | 0.0         |
| 17:56:39           | 1.1          | -0.3         | 0.0           | 64.2      | 401.5       | 0.0         |
| 17:56:49           | 1.1          | -0.3         | 0.0           | 64.2      | 401.5       | 0.0         |
| 17:56:59           | 1.1          | -0.3         | 0.0           | 64.2      | 401.5       | 0.0         |
| 17:57:09           | 1.1          | -0.3         | 0.0           | 64.2      | 401.6       | 0.0         |
| 17:57:19           | 1.1          | -0.3         | 0.0           | 64.2      | 401.5       | 0.0         |
| 17:57:29           | 1.1          | -0.3         | 0.0           | 64.1      | 401.5       | 0.0         |
| 17:57:39           | 1.1          | -0.3         | 0.0           | 64.1      | 401.5       | 0.0         |
| 17:57:49           | 1.1          | -0.3         | 0.0           | 64.1      | 401.5       | 0.0         |
| 17:57:59           | 1.1          | -0.3         | 0.0           | 64.1      | 401.5       | 0.0         |
| 17:58:09           | 1.1          | -0.3         | 0.0           | 64.1      | 401.5       | 0.0         |
| 17:58:19           | 1.1          | -0.3         | 0.0           | 64.1      | 401.5       | 0.0         |
| 17:58:29           | 1.1          | -0.3         | 0.0           | 64.1      | 401.5       | 0.0         |
| 17:58:39           | 1.1          | -0.3         | 0.0           | 64.1      | 401.5       | 0.0         |
| 17:58:49           | 1.1          | -0.3         | 0.0           | 64.1      | 401.5       | 0.0         |
| 17:58:59           | 1.1          | -0.3         | 0.0           | 64.1      | 401.5       | 0.0         |
| 17:59:09           | 1.1          | -0.3         | 0.0           | 64.1      | 401.5       | 0.0         |
| 17:59:19           | 1.1          | -0.3         | 0.0           | 64.1      | 401.6       | 0.0         |
| 17:59:29           | 1.1          | -0.3         | 0.0           | 64.1      | 401.5       | 0.0         |
| 17:59:39           | 1.1          | -0.3         | 0.0           | 64.1      | 401.5       | 0.0         |
| 17:59:49           | 1.1          | -0.3         | 0.0           | 64.1      | 401.5       | 0.0         |
| 17:59:59           | 1.1          | -0.3         | 0.0           | 64.1      | 401.5       | 0.0         |
| 18:00:09           | 1.1          | -0.3         | 0.0           | 64.1      | 401.5       | 0.0         |
| 18:00:19           | 1.1          | -0.3         | 0.0           | 64.2      | 401.5       | 0.0         |
| 18:00:29           | 1.1          | -0.3         | 0.0           | 64.1      | 401.6       | 0.0         |
| 18:00:39           | 1.1          | -0.3         | 0.0           | 64.1      | 401.5       | 0.0         |
| 18:00:49           | 1.1          | -0.3         | 0.0           | 64.1      | 401.5       | 0.0         |
| 18:00:59           | 1.1          | -0.3         | 0.0           | 64.1      | 401.6       | 0.0         |

Test #: Resin tare + 200

| 04-10-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 18:01:09           | 1.1          | -0.3         | 0.0           | 64.1      | 401.5       | 0.0         |
| 18:01:19           | 1.1          | -0.3         | 0.0           | 64.1      | 401.5       | 0.0         |
| 18:01:29           | 1.1          | -0.3         | 0.0           | 64.1      | 401.5       | 0.0         |
| 18:01:39           | 1.1          | -0.3         | 0.0           | 64.1      | 401.5       | 0.0         |
| 18:01:49           | 1.1          | -0.3         | 0.0           | 64.1      | 401.6       | 0.0         |
| 18:01:59           | 1.1          | -0.3         | 0.0           | 64.1      | 401.5       | 0.0         |
| 18:02:09           | 1.1          | -0.3         | 0.0           | 64.1      | 401.6       | 0.0         |
| Avg =              | 1.1          | -0.3         | 0.0           | 64.1      | 401.5       | 0.0         |

**April 11, 1997**

**0411-01/NMMA-6-2: 18-ft Deck Gelcoat**

**0411-02/NMMA-14-2: 18-ft Deck 35% Styrene Resin Flow Coat**

**0411-03/NMMA-13-2: 18-ft Hull 35% Styrene Resin Flow Coat**



Radian International LLC  
Stelling Engineering, P.A.  
Air Tech Environmental LLC

Date: 4-11

Initial: Ken W

Spray Gun: W/W

NMMA-6-2

|                | Pre-Test | Post-Test |
|----------------|----------|-----------|
| Run 1 Mass (g) | 1256     | 1260      |
| Run 2 Mass (g) |          |           |
| Run 3 Mass (g) |          |           |
| Average        |          |           |

|                |  |
|----------------|--|
| Mass resin (g) |  |
| Mass glass (g) |  |
| TOTAL          |  |
| Percent glass  |  |

| Material     | Drum No. | Gel Time (min) | Catalyst % Vol. | Setting |
|--------------|----------|----------------|-----------------|---------|
| Gelcoat      |          |                | 2               |         |
| Resin (skin) |          |                | 2               |         |
| Resin (lam)  |          |                | 1-1/4           |         |

[illegible]

# DAILY SPRAY EQUIPMENT CALIBRATION

Date: 4-11-97

Initial: Larry Dargatz

Spray Gun: \_\_\_\_\_

## Resin Flow Calibration (15-second evaluation)

|                | Pre-Test | Post-Test |
|----------------|----------|-----------|
| Run 1 Mass (g) | 639      | 667       |
| Run 2 Mass (g) |          |           |
| Run 3 Mass (g) |          |           |
| Average        |          |           |

## Resin:Glass Ratio

|                |      |  |
|----------------|------|--|
| Mass resin (g) | 297  |  |
| Mass glass (g) | 158  |  |
| TOTAL          | 455  |  |
| Percent glass  | 34.7 |  |

| Material     | Drum No. | Gel Time (min) | Catalyst % Vol. | Setting |
|--------------|----------|----------------|-----------------|---------|
| Gelcoat      |          |                |                 |         |
| Resin (skin) | 4        |                |                 |         |
| Resin (lam)  |          |                |                 |         |

## Thickness Checks

| Run                       | 1 | 2 | 3 | 4 | 5 |
|---------------------------|---|---|---|---|---|
| Deck 60 mil               |   |   |   |   |   |
| 150 mil skin              |   |   |   |   |   |
| Hull 90 mil skin          |   |   |   |   |   |
| 60 mil Rov                |   |   |   |   |   |
| Bottom 30 mil Rov         |   |   |   |   |   |
| side & Transom 60 mil Rov |   |   |   |   |   |

DAILY GAS CHROMATOGRAPHY LOG

Date: 4/11/97

Initial: DO

Run 0411-01

Test NMMA-6-2 18' deck gal

| Run No.               | Time  | Comments                       | THC            | MMA Area | Styrene Area |
|-----------------------|-------|--------------------------------|----------------|----------|--------------|
| 586                   | 0640  | Ø Air                          |                | 0        | 42484 4384   |
| 587                   | 0648  | Ø Air                          |                | 0        | 0            |
| 588                   | 0657  | 59.2 sty 4.474                 |                |          | 2820046      |
| 589                   | 0706  | 59.2 sty 4.549                 |                |          | 2237206      |
| 590                   | 0714  | 59.2 sty 4.576                 |                |          | 2099254      |
| 591                   | 0721  | 59.2 sty 4.586                 |                |          | 2040209      |
| 592                   | 0735  | 122 sty 4.554                  |                |          | 4475104      |
| 593                   | 0742  | 122 sty 4.600                  |                |          | 9154650      |
| 594                   | 0749  | 122 sty 4.550                  |                |          | 4408144      |
| 595                   | 0800  | 204 sty 4.629 low cal gas flow |                |          | 597571       |
| 596                   | 0812  | 204 sty 4.496                  |                |          | 8655443      |
| 597                   | 0817  | 204 sty 4.475                  |                |          | 9614995      |
| <del>598</del><br>600 | 0825  | 204 sty 4.567                  |                |          | 7316999      |
| 599                   | 0833  | Bag 4 201 MMA 1.886            | NOT QUANTIFIED |          |              |
| 600                   | 0842  | Bag 4 144 MMA 1.936            |                | 2138958  |              |
| 601                   | 0846  | Bag 4 1.933                    |                | 2316325  |              |
| 602                   | 0849  | Bag 4 1.894                    |                | 2947989  |              |
| 603                   | 0853  | Bag 4 201 MMA 1.930            |                | 2280293  |              |
| 604                   | 0857  | Bag 4 201 MMA 1.925            |                | 3439466  |              |
| 605                   | 08900 | Bag 4 201 MMA 1.925            |                | 3424949  |              |
| 606                   | 0907  | 1                              | 61             | 153657   | 805147       |
| 607                   | 0913  | 2                              | 122            | 296644   | 1755053      |
| 608                   | 0919  | 3                              | 177            | 391461   | — OE         |
| 609                   | 0924  | 4                              | 194            | 474404   | 2775766      |
| 610                   | 0930  | 5                              | 256            | 417537   | 2636046      |
| 611                   | 0937  | 6                              | (150?)         | 270070   | 1951795      |
| 612                   | 0946  | 7                              | 94             | 164648   | 1282490      |
| 613                   | 0953  | 8                              | 85             | 134940   | 1211623      |
| 614                   | 1000  | 9                              | 59             | 60247    | 678585       |
| 615                   | 1006  | 10                             | 48             | 85775    | 991871       |
| 616                   | 1012  | 11                             | 38             | 39581    | 498320       |
| 617                   | 1018  | 12                             | 27             | 35981    | 406113       |
| 618                   | 1024  | 13                             | 22             | 35522    | 385003       |
| 619                   | 1031  | 14                             | 18             | 46248    | 269613       |

0411-01  
NMMA-6-2

1 68

DAILY GAS CHROMATOGRAPHY LOG

2184

Date: 4/11/92

Initial: AK

Run 0411-01 cont  
0411-02

Test NMMA-6-2, cont  
NMMA-14-2 - 18' deck, 35% FC

| Run No. | Time        | Comments           | THC    | MMA Area | Styrene Area |
|---------|-------------|--------------------|--------|----------|--------------|
| 620     | 1038        | 15                 | 14     | 18530    | 160342       |
| 621     | 1045        | 16                 | 12     | 36336    | 200407       |
| 622     | 1052        | 17                 | 10.2   | 38484    | 147030       |
| 623     | 1058        | 18                 | 10     | 24848    | 150887       |
| 624     | 1111        | 204 SM 4.529       |        |          | 8687578      |
| 625     | 1118        | 204 SM 4.540       |        |          | 8380506      |
| 626     | 1126        | Bag 5 Bad Inj 4.9T |        |          |              |
| 627     | 1131        | Bag 5 1.971        |        | 2786358  |              |
| 628     | 1135        | Bag 5 1.553        |        | 2858120  |              |
| 629     | 1139        | Bag 5 1.891        |        | 2885094  |              |
| 628630  | 1142        | Bag 4 1.92         |        | 2781589  |              |
| 631     | 1146        | Bag 4 Pressurized  |        |          |              |
| 632     | 1149        | 59.2 SM 4.515      |        |          | 2826430      |
| 633     | 1155        | 59.2 SM 4.630      |        |          | 1834818      |
| 634     | 1202        | 1                  | 94     |          | 1375428      |
| 635     | 1210        | 2                  | 182    |          | 2878278      |
| 636     | 1217        | 3                  | 121    |          | 1574102      |
| 637     | 1224        | 4                  | 94     |          | 1363780      |
| 638     | 1244 (1230) | 5                  | 74.51  |          | 1186089      |
| 639     | 1246        | 6                  | 516.51 |          | 680259       |
| 640     | 1252        | 7                  | 43     |          | 485239       |
| 641     | 1259        | 8                  | 111    |          | 962450       |
| 642     | 1307        | 9                  | 145    |          | 2120477      |
| 643     | 1313        | 10                 | 252    |          | 3013517      |
| 644     | 1319        | 11                 | 185    |          | 3121786      |
| 645     | 1328        | 12                 | 112    |          | 1763050      |
| 646     | 1335        | 13                 | 93     |          | 1555117      |
| 647     | 1346        | 14                 | 59     |          | 799358       |
| 648     | 1356        | 15                 | 31     |          | 371345       |
| 649     | 1404        | 16 (not vented)    | 16     |          | 304924       |
| 650     | 1413        | 17                 | 11     |          | 128618       |
| 651     | 1430        | 59.2 SM            |        |          | 2421373      |
| 652     | 1438        | 59.2 SM            |        |          | 27550        |

END  
Post AC

NMMA-14-2  
0411-02

END  
Post CALS

DAILY GAS CHROMATOGRAPHY LOG

(3) 14

Date: 4/11/97

Initial: [Signature]

Run 0411-03

Test NMM#-13-2

0411-03  
Nmm#13-1

| Run No. | Time | Comments             | THC | MMA Area | Styrene Area |
|---------|------|----------------------|-----|----------|--------------|
| 653     | 1544 | 1                    | 28  |          | 458349       |
| 654     | 1553 | 2                    | 157 |          | 2872381      |
| 655     | 1615 | 3                    | 233 |          | 3056024      |
| 656     | 1605 | 4                    | 158 |          | 2511288      |
| 657     | 1611 | 5                    | 110 |          | 1162455      |
| 658     | 1622 | 6                    | 83  |          | 1436378      |
| 659     | 1628 | 7                    | 145 |          | 2067883      |
| 660     | 1637 | 8                    | 225 |          | 2840077      |
| 661     | 1645 | 9                    | 141 |          | 2281424      |
| 662     | 1652 | 10                   | 90  |          | 1449514      |
| 663     | 1701 | 11                   | 209 |          | 2731868      |
| 664     | 1716 | 12                   | 96  |          | 1456317      |
| 665     | 1724 | 13                   | 72  |          | 935083       |
| 666     | 1732 | 14                   | 48  |          | 596809       |
| 667     | 1740 | 15                   | 30  |          | 450379       |
| 668     | 1748 | 16                   | 18  |          | 296181       |
| 669     | 1756 | 17                   | 12  |          | 124443       |
| 670     |      | 59.25h 4.590         |     |          | 1873879      |
| 671     |      | 59.25h 4.525         |     |          | 2468186      |
| 672     |      | 59.25h 4.505         |     |          | 2570333      |
| 673     |      | 122.5h 4.617         |     |          | 3828302      |
| 674     |      | 122.5h 4.477         |     |          | 5809104      |
| 675     |      | 122.5h               |     |          |              |
| 676     |      | 122.5h 4.500         |     |          | 5616218      |
| 677     |      | 204.5h 4.528         |     |          | 8177760      |
| 678     |      | 204.5h 4.510         |     |          | 8528410      |
| 679     |      | Bag 6 144 MMA 4.914  |     |          | 3063480      |
| 680     |      | Bag 6 144 MMA 4.938  |     |          | 2640364      |
| 681     |      | Bag 6 144 MMA 4.953  |     |          | 2450941      |
| 682     |      | Bag 4 144 4.904      |     |          | 2748472      |
| 683     |      | Bag 4 4.950          |     |          | 2034586      |
| 684     |      | Bag 4 4.942          |     |          | 2023973      |
| 685     |      | Bag 4 4.957          |     |          | 1898571      |
| 686     |      | Bag 45 201 MMA 4.983 |     |          | 4870781      |
| 687     |      | Bag 5 4.924          |     |          | 3410517      |
| 688     |      | Bag 5 4.991          |     |          | 4755005      |

END  
Post  
041103

4/11/97 GC log

1<sup>st</sup> run ~~was~~ purged due to low gas flowW/o ~~or~~ suspecting valve leaks - ~~chromatograph~~ chromatograph 632: tail peak  
caused by pressurizing inlet w/ valve @ inject position

Post Test analysis performed w/emphasis on short time in loop.

0411-01 = Numa-6-2  
18' DECK GEL

0411-02 = Numa-14-2  
18' DECK 75% FC

0411-03 = Numa-13-2  
18' Hall 25% FC

4.512

STOP

|           |      |      |      |        |
|-----------|------|------|------|--------|
| ESTD-AREA |      |      |      |        |
| RT        | AREA | TYPE | CAL# | AMOUNT |
| 4.512     | 4384 | UU   | 2    | .097   |

|   |     |
|---|-----|
| 0 | 370 |
| 0 | 637 |
| 0 | 955 |
| 1 | 259 |

7.328  
STOP

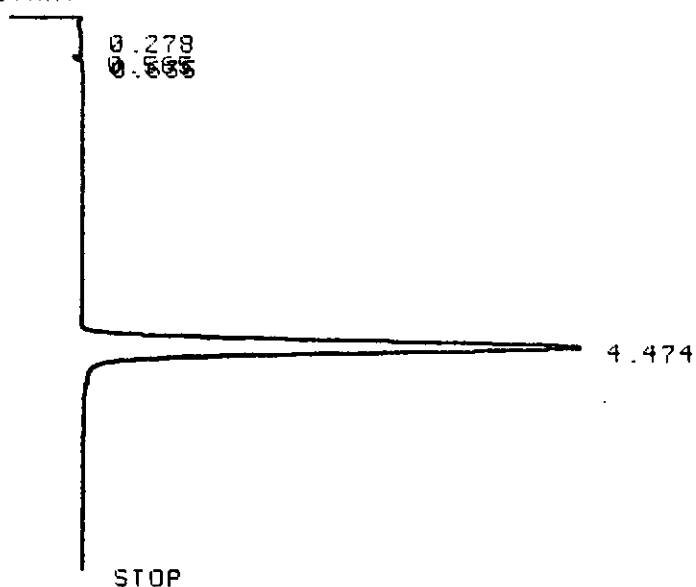
RUN# 587 APR 11, 1997 06:48:15

NO CALIB PEAKS FOUND  
AREA%

| RT    | AREA  | TYPE | WIDTH | AREA%    |
|-------|-------|------|-------|----------|
| .370  | 47695 | BU   | .221  | 27.11716 |
| .637  | 51225 | PU   | .169  | 29.12414 |
| .965  | 31634 | UU   | .125  | 17.98562 |
| 1.124 | 20767 | UU   | .093  | 11.80715 |
| 1.205 | 24048 | UU   | .107  | 13.67257 |
| 7.328 | 516   | PP   | .066  | .29337   |

TOTAL AREA= 175885  
MUL FACTOR=1.0000E+00

\* RUN # 588 APR 11, 1997 06:57:53  
START



RUN# 588 APR 11, 1997 06:57:53

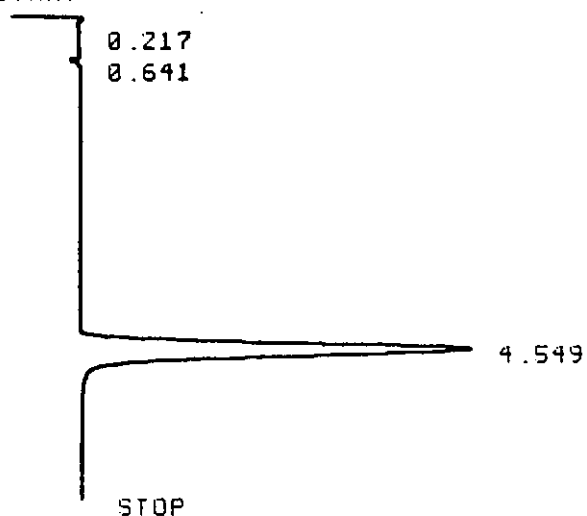
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.474 | 2920046 | PB   | 2    | 62.605 |

TOTAL AREA=2904989  
MUL FACTOR=1.0000E+00



\* RUN # 589      APR 11, 1997 07:06:33  
START

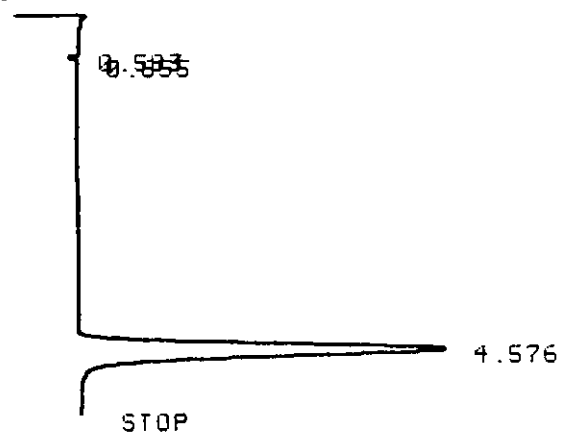


RUN# 589      APR 11, 1997 07:06:33

| ESTD-AREA | RT    | AREA TYPE  | CAL# | AMOUNT |
|-----------|-------|------------|------|--------|
|           | 4.549 | 2237206 PB | 2    | 49.666 |

TOTAL AREA=2273378  
MUL FACTOR=1.0000E+00

\* RUN # 590      APR 11, 1997 07:14:14  
START



RUN# 590      APR 11, 1997 07:14:14

| ESTD-AREA | RT    | AREA TYPE  | CAL# | AMOUNT |
|-----------|-------|------------|------|--------|
|           | 4.576 | 2099254 PB | 2    | 46.603 |

TOTAL AREA=2129094

• RUN # 591 APR 11, 1997 07:21:21

START

0.502  
0.665

4.586

STOP

RUN# 591 APR 11, 1997 07:21:21

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.586 | 2040209 | PB   | 2    | 45.293 |

TOTAL AREA=2094582

MUL FACTOR=1.0000E+00

\* RUN # 592 APR 11, 1997 07:35:04

START

0.305  
0.635

4.554

STOP

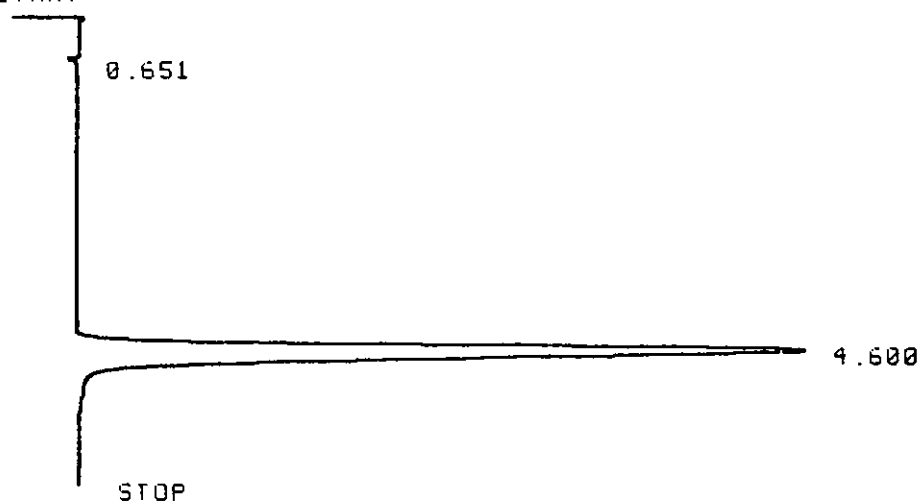
RUN# 592 APR 11, 1997 07:35:04

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.554 | 4475104 | PB   | 2    | 99.347 |

TOTAL AREA=4522704  
MUL FACTOR=1.0000E+00

\* RUN # 593      APR 11, 1997 07:42:02  
START

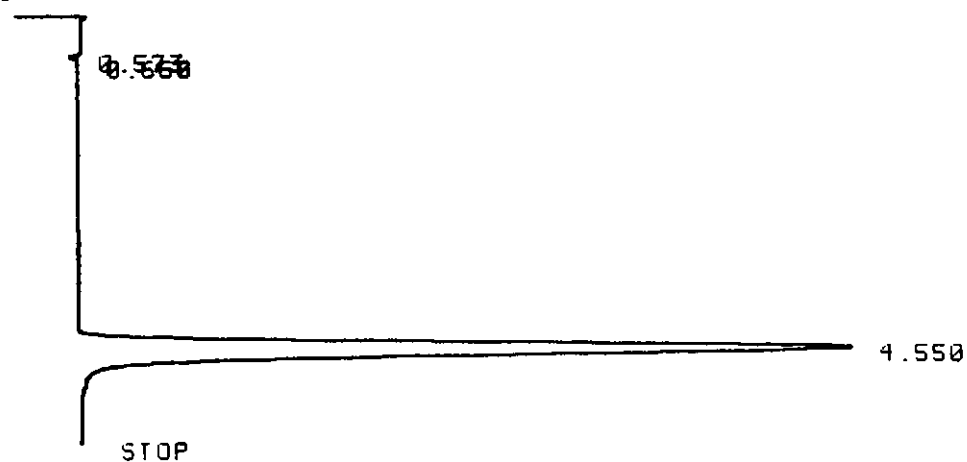


RUN# 593      APR 11, 1997 07:42:02

| ESTD-AREA | RT    | AREA    | TYPE | CAL# | AMOUNT |
|-----------|-------|---------|------|------|--------|
|           | 4.600 | 4154650 | PB   | 2    | 92.233 |

TOTAL AREA=4188504  
MUL FACTOR=1.0000E+00

\* RUN # 594      APR 11, 1997 07:49:26  
START



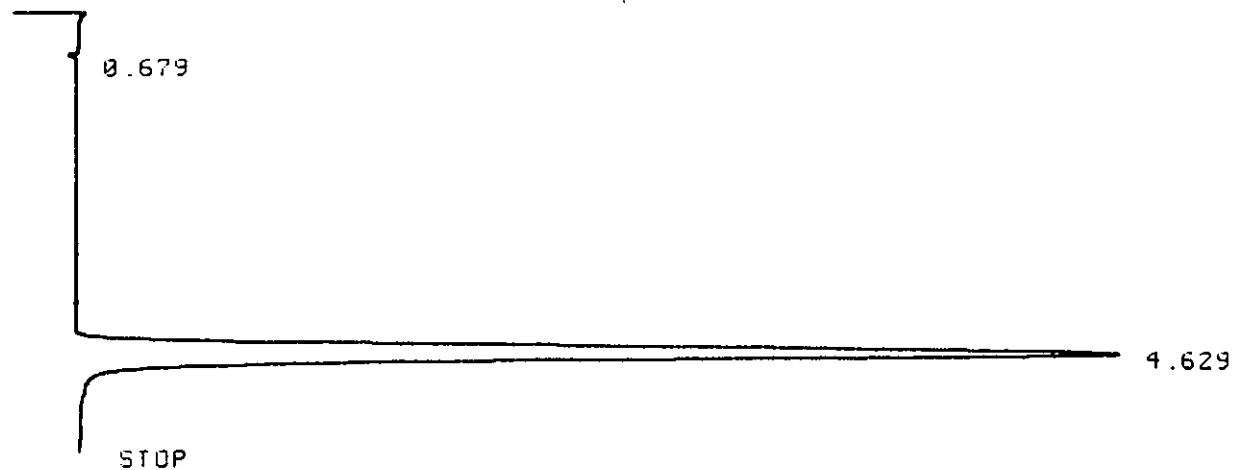
RUN# 594      APR 11, 1997 07:49:26

| ESTD-AREA | RT | AREA | TYPE | CAL# | AMOUNT |
|-----------|----|------|------|------|--------|
|-----------|----|------|------|------|--------|

TOTAL AREA=4438845  
MUL FACTOR=1.0000E+00

\* RUN # 595 APR 11, 1997 08:00:31

START



RUN# 595 APR 11, 1997 08:00:31

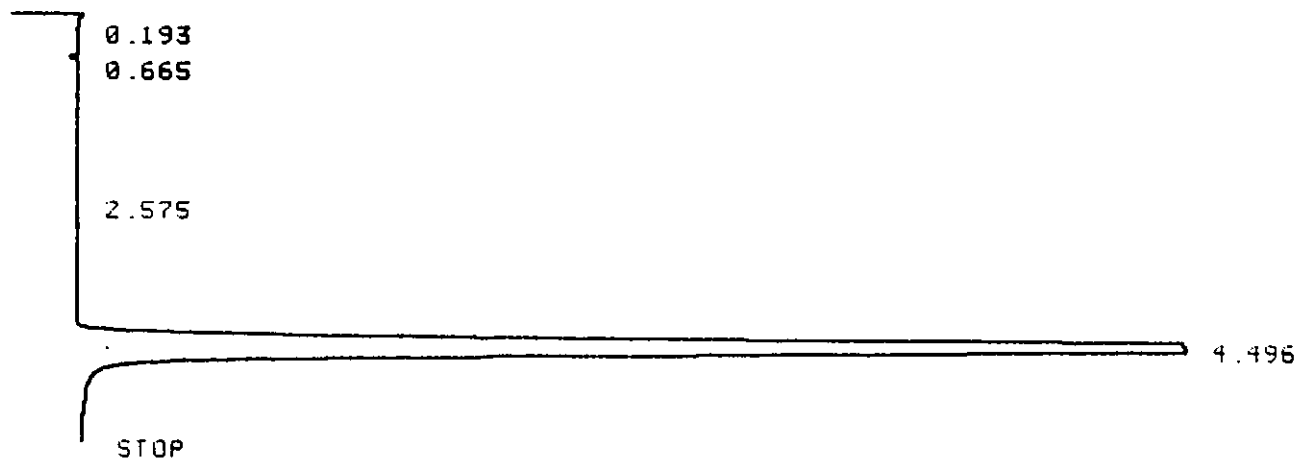
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 4.629 | 5977571 | BB   | 2    | 132.702 |

TOTAL AREA=6015734  
MUL FACTOR=1.0000E+00

\* RUN # 596 APR 11, 1997 08:12:16

START



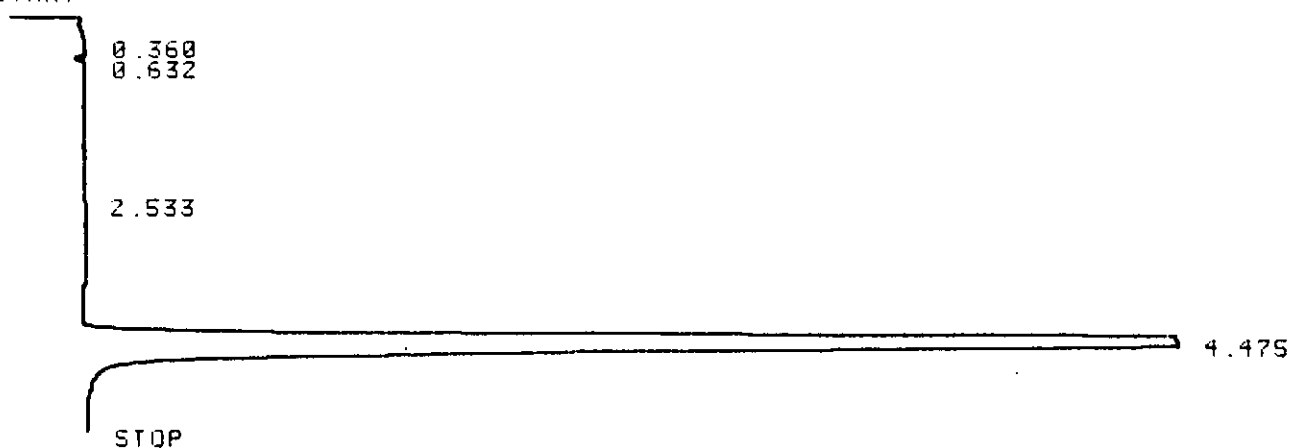
RUN# 596 APR 11, 1997 08:12:16

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 4.496 | 8655443 | PB   | 2    | 192.151 |

TOTAL AREA=8.6958E+06  
MUL FACTOR=1.0000E+00

\* RUN # 597 APR 11, 1997 08:18:55

START



RUN# 597 APR 11, 1997 08:18:55

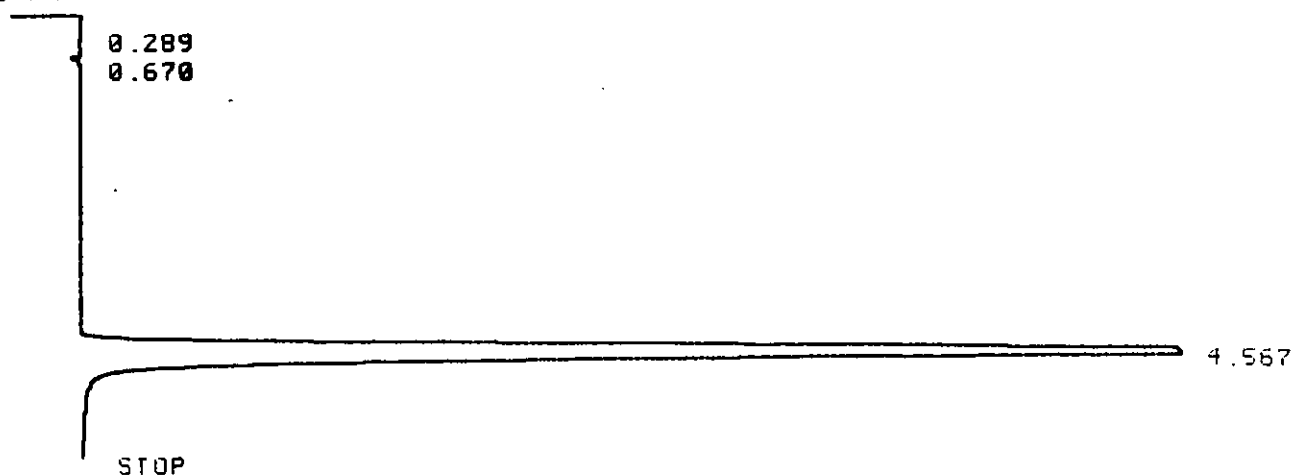
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 4.475 | 9614995 | PB   | 2    | 213.453 |

TOTAL AREA=9.7027E+06  
MUL FACTOR=1.0000E+00

\* RUN # 598 APR 11, 1997 08:25:38

START

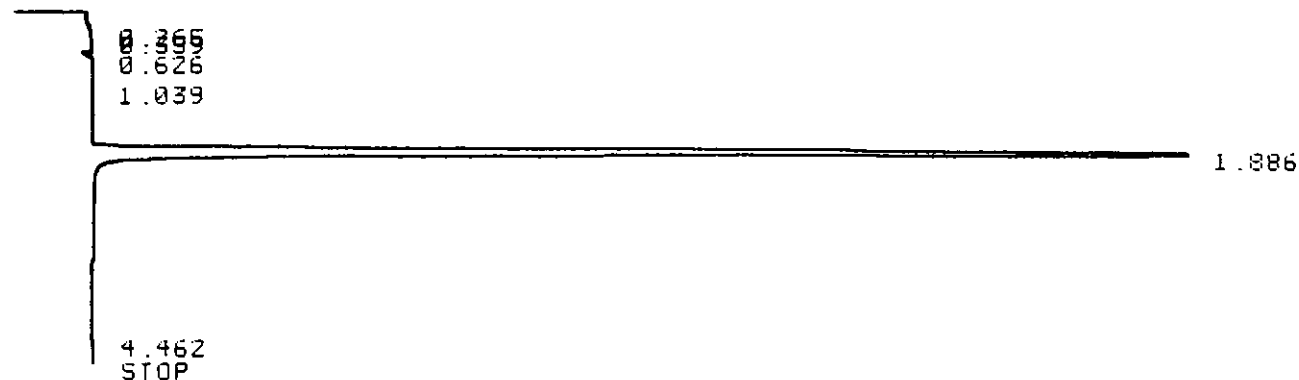


RUN# 598 APR 11, 1997 08:25:38

| ESTD-AREA |         |      |      |         |
|-----------|---------|------|------|---------|
| RT        | AREA    | TYPE | CAL# | AMOUNT  |
| 4.567     | 7319699 | PB   | 2    | 162.497 |

TOTAL AREA=7421686  
MUL FACTOR=1.0000E+00

\* RUN # 599 APR 11, 1997 08:33:09  
START



RUN# 599 APR 11, 1997 08:33:09

| ESTD-AREA |       |      |      |        |
|-----------|-------|------|------|--------|
| RT        | AREA  | TYPE | CAL# | AMOUNT |
| 4.462     | 13872 | PU   | 2    | .308   |

TOTAL AREA=3107037  
MUL FACTOR=1.0000E+00

\* EDIT CALIB @

- 1 = CALIB PROCEDURE
- 2 = RETENTION TIME WINDOWS
- 3 = TABLE ENTRIES
- 4 = PEAK GROUPS
- 5 = CALIB OPTIONS

SECTION TO BE EDITED: 1

E = EXTERNAL STANDARD  
I = INTERNAL STANDARD  
N = NORMALIZATION

CALIB PROCEDURE (E\*/I/N):

SECTION TO BE EDITED: 2

REF % RTW C 5.0001:  
NON-REF % RTW C 5.0001:

SECTION TO BE EDITED: 3

CAL#: 1  
RT: 1.886  
AMT: 201  
AMT/AREA: 4.000042  
NAME: MMA

CAL#: 2  
RT: 4.56  
AMT: 204  
AMT/AREA: .000023  
NAME: STYRENE

CAL#:

SECTION TO BE EDITED:

\* RUN # 600 APR 11, 1997 08:42:27  
START

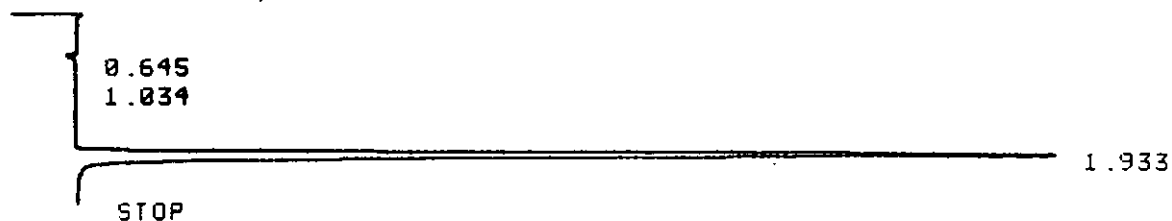


RUN# 600 APR 11, 1997 08:42:27

| ESTD-AREA | RT    | AREA TYPE  | CAL# | AMOUNT |
|-----------|-------|------------|------|--------|
|           | 1.936 | 2138958 PB | 1    | 89.836 |

TOTAL AREA=2165946  
MUL FACTOR=1.0000E+00

\* RUN # 601 APR 11, 1997 08:46:20  
START; not ready

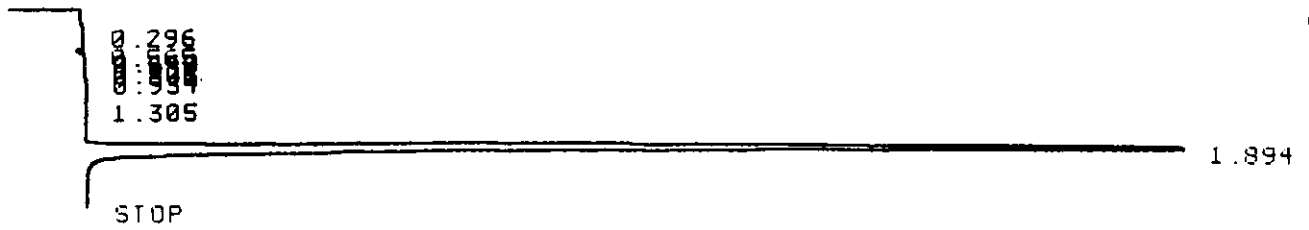


RUN# 601 APR 11, 1997 08:46:20

| ESTD-AREA | RT    | AREA TYPE  | CAL# | AMOUNT |
|-----------|-------|------------|------|--------|
|           | 1.933 | 2316325 PB | 1    | 97.286 |

TOTAL AREA=2404611  
MUL FACTOR=1.0000E+00

\* RUN # 602      APR 11, 1997 08:49:55  
START

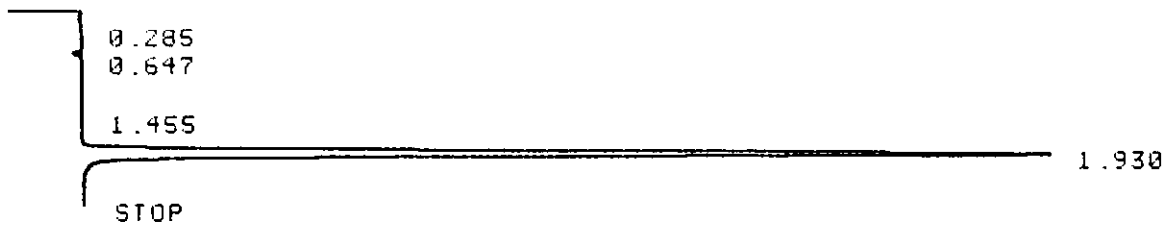


RUN# 602      APR 11, 1997 08:49:55

ESTD-AREA  
RT      AREA TYPE      CAL#      AMOUNT  
1.894      2947989      PB      1      123.815

TOTAL AREA=3143936  
MUL FACTOR=1.0000E+00

\* RUN # 603      APR 11, 1997 08:53:00  
START

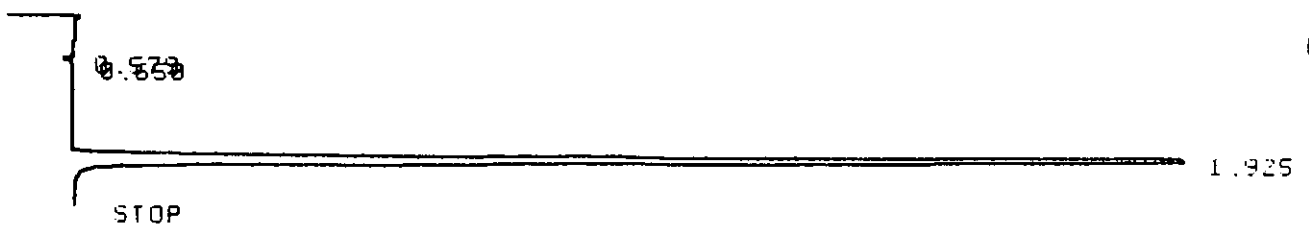


RUN# 603      APR 11, 1997 08:53:00

ESTD-AREA  
RT      AREA TYPE      CAL#      AMOUNT  
1.930      2280293      UB      1      95.772

TOTAL AREA=2364562  
MUL FACTOR=1.0000E+00

\* RUN # 604      APR 11, 1997 08:57:17  
START





RUN# 604 APR 11, 1997 08:57:17

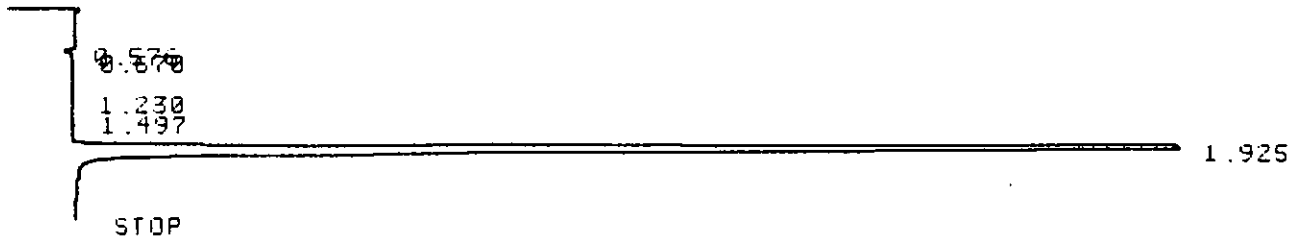
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.925 | 3439466 | PB   | 1    | 144.458 |

TOTAL AREA=3506938

MUL FACTOR=1.0000E+00

\* RUN # 605 APR 11, 1997 09:00:21  
START



RUN# 605 APR 11, 1997 09:00:21

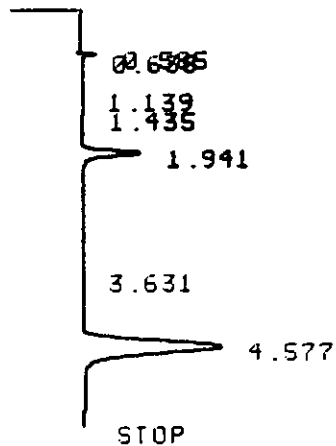
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.925 | 3424949 | PB   | 1    | 143.848 |

TOTAL AREA=3453467

MUL FACTOR=1.0000E+00

\* RUN # 606 APR 11, 1997 09:07:36  
START



0411-01  
NMMA-6-2

RUN# 606 APR 11, 1997 09:07:36

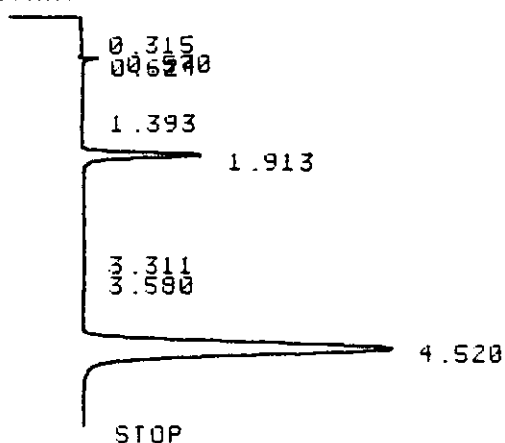
ESTD-AREA

| RT | AREA | TYPE | CAL# | AMOUNT |
|----|------|------|------|--------|
|----|------|------|------|--------|

4.577 805147 PB 2 18.518

TOTAL AREA= 985912  
MUL FACTOR=1.0000E+00

\* RUN # 607 APR 11, 1997 09:13:57  
START



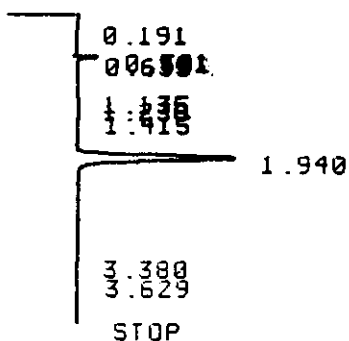
RUN# 607 APR 11, 1997 09:13:57

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.913 | 296644  | PB   | 1    | 12.459 |
| 4.520 | 1755053 | PB   | 2    | 40.366 |

TOTAL AREA=2123093  
MUL FACTOR=1.0000E+00

\* RUN # 608 APR 11, 1997 09:19:56  
START



RUN# 608 APR 11, 1997 09:19:56

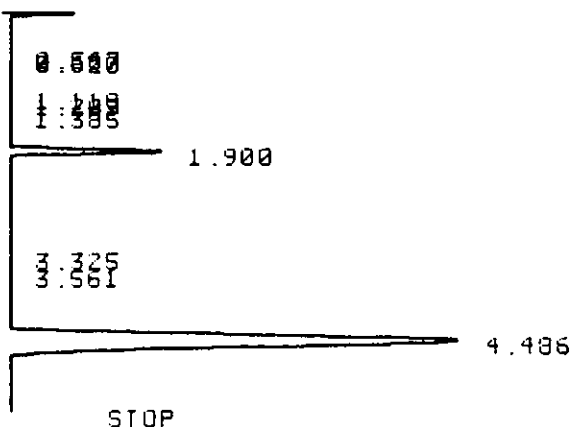
ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.940 | 391461 | UB   | 1    | 16.441 |

TOTAL AREA= 465415  
MUL FACTOR=1.0000E+00

\* RUN # 609 APR 11, 1997 09:24:38

START



RUN# 609 APR 11, 1997 09:24:38

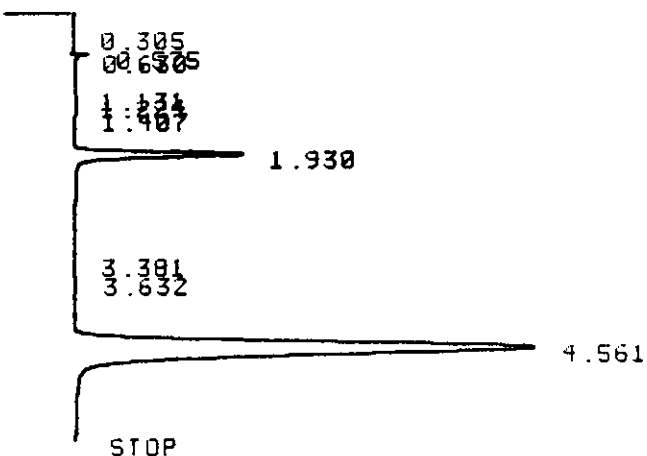
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.900 | 474404  | UB   | 1    | 19.925 |
| 4.486 | 2775766 | PB   | 2    | 63.843 |

TOTAL AREA=3328453  
MUL FACTOR=1.0000E+00

\* RUN # 610 APR 11, 1997 09:30:36

START



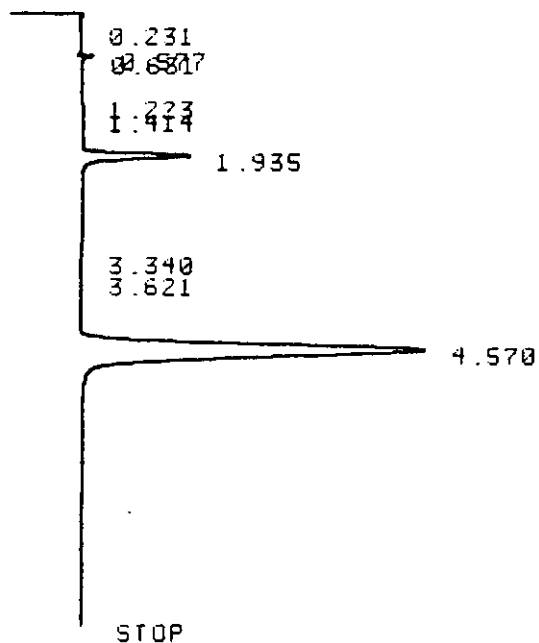
RUN# 610 APR 11, 1997 09:30:36

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.930 | 417537 | UB   | 1    | 17.537 |

TOTAL AREA=3141035  
MUL FACTOR=1.0000E+00

\* RUN # 611      APR 11, 1997 09:37:14  
START



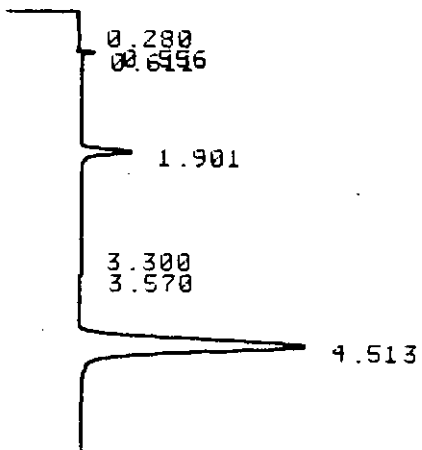
RUN# 611      APR 11, 1997 09:37:14

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.935 | 270070  | PB   | 1    | 11.343 |
| 4.570 | 1951795 | PB   | 2    | 44.891 |

TOTAL AREA=2249334  
MUL FACTOR=1.0000E+00

\* RUN # 612      APR 11, 1997 09:46:41  
START



SIUP

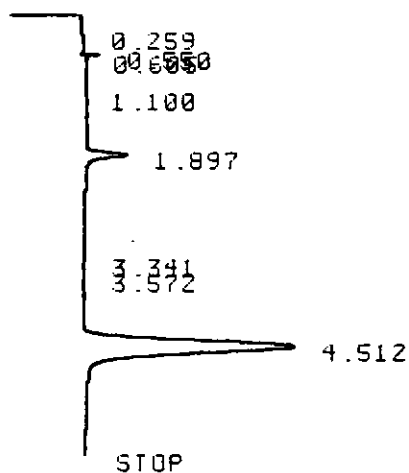
RUN# 612 APR 11, 1997 09:46:41

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.901 | 164648  | UU   | 1    | 6.915  |
| 4.513 | 1282490 | PB   | 2    | 29.497 |

TOTAL AREA=1497848  
MUL FACTOR=1.0000E+00

\* RUN # 613 APR 11, 1997 09:53:35  
START



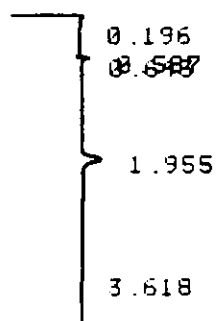
RUN# 613 APR 11, 1997 09:53:35

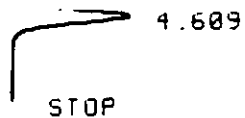
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.897 | 134940  | UU   | 1    | 5.667  |
| 4.512 | 1211663 | PB   | 2    | 27.868 |

TOTAL AREA=1421552  
MUL FACTOR=1.0000E+00

\* RUN # 614 APR 11, 1997 10:00:02  
START



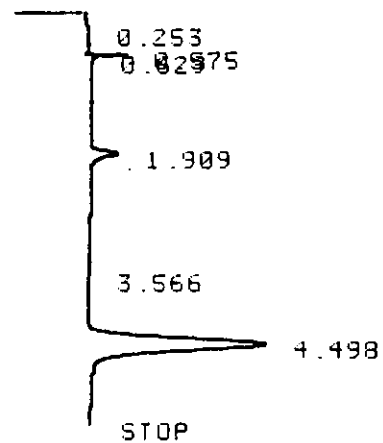


RUN# 614 APR 11, 1997 10:00:02

| ESTD-AREA |        |      |      |        |
|-----------|--------|------|------|--------|
| RT        | AREA   | TYPE | CAL# | AMOUNT |
| 1.955     | 60247  | UU   | 1    | 2.530  |
| 4.609     | 678585 | BB   | 2    | 15.607 |

TOTAL AREA= 755718  
MUL FACTOR=1.0000E+00

\* RUN # 615 APR 11, 1997 10:06:21  
START

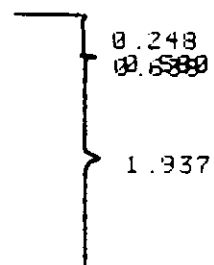


RUN# 615 APR 11, 1997 10:06:21

| ESTD-AREA |        |      |      |        |
|-----------|--------|------|------|--------|
| RT        | AREA   | TYPE | CAL# | AMOUNT |
| 1.909     | 85775  | PU   | 1    | 3.603  |
| 4.498     | 991871 | PB   | 2    | 22.813 |

TOTAL AREA=1140229  
MUL FACTOR=1.0000E+00

\* RUN # 616 APR 11, 1997 10:12:21  
START



3.537  
 4.572  
 STOP

RUN# 616 APR 11, 1997 10:12:21

| ESTD-AREA | RT    | AREA   | TYPE | CAL# | AMOUNT |
|-----------|-------|--------|------|------|--------|
|           | 1.937 | 39581  | BP   | 1    | 1.662  |
|           | 4.572 | 498320 | PU   | 2    | 11.461 |

TOTAL AREA= 571364  
 MUL FACTOR=1.0000E+00

\* RUN # 617 APR 11, 1997 10:18:39  
 START

0.329  
 006261  
 1.915  
 3.600  
 4.524  
 STOP

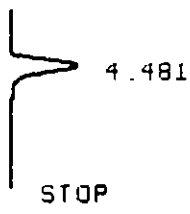
RUN# 617 APR 11, 1997 10:18:39

| ESTD-AREA | RT    | AREA   | TYPE | CAL# | AMOUNT |
|-----------|-------|--------|------|------|--------|
|           | 1.915 | 35981  | PU   | 1    | 1.511  |
|           | 4.524 | 406113 | PU   | 2    | 9.341  |

TOTAL AREA= 499729  
 MUL FACTOR=1.0000E+00

\* RUN # 618 APR 11, 1997 10:24:45  
 START

0.294  
 006566  
 1.897

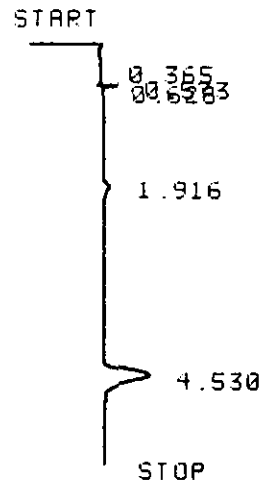


RUN# 618 APR 11, 1997 10:24:45

| ESTD-AREA |        |      |      |        |
|-----------|--------|------|------|--------|
| RT        | AREA   | TYPE | CAL# | AMOUNT |
| 1.897     | 35522  | PU   | 1    | 1.492  |
| 4.481     | 385003 | UU   | 2    | 8.855  |

TOTAL AREA= 479185  
MUL FACTOR=1.0000E+00

\* RUN # 619 APR 11, 1997 10:31:25

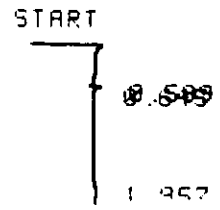


RUN# 619 APR 11, 1997 10:31:25

| ESTD-AREA |        |      |      |        |
|-----------|--------|------|------|--------|
| RT        | AREA   | TYPE | CAL# | AMOUNT |
| 1.916     | 46268  | UU   | 1    | 1.943  |
| 4.530     | 269613 | PU   | 2    | 6.201  |

TOTAL AREA= 374918  
MUL FACTOR=1.0000E+00

\* RUN # 620 APR 11, 1997 10:38:10





4.613  
 STOP

RUN# 620 APR 11, 1997 10:38:10

| ESTD-AREA | RT    | AREA   | TYPE | CAL# | AMOUNT |
|-----------|-------|--------|------|------|--------|
|           | 1.957 | 18530  | UP   | 1    | .778   |
|           | 4.613 | 160342 | BU   | 2    | 3.688  |

TOTAL AREA= 204539  
 MUL FACTOR=1.0000E+00

\* RUN # 621 APR 11, 1997 10:45:59  
 START

0.318  
 0.06504  
 1.894  
 4.483  
 STOP

RUN# 621 APR 11, 1997 10:45:59

| ESTD-AREA | RT    | AREA   | TYPE | CAL# | AMOUNT |
|-----------|-------|--------|------|------|--------|
|           | 1.894 | 36336  | UU   | 1    | 1.526  |
|           | 4.483 | 200407 | UU   | 2    | 4.609  |

TOTAL AREA= 327828  
 MUL FACTOR=1.0000E+00

\* RUN # 622 APR 11, 1997 10:52:07

0.298  
 00.6249  
 1.912  
 4.525  
 STOP

RUN# 622 APR 11, 1997 10:52:07

| ESTD-AREA | RT    | AREA   | TYPE | CAL# | AMOUNT |
|-----------|-------|--------|------|------|--------|
|           | 1.912 | 38484  | UU   | 1    | 1.616  |
|           | 4.525 | 147030 | BU   | 2    | 3.382  |

TOTAL AREA= 242224  
 MUL FACTOR=1.0000E+00

\* RUN # 623 APR 11, 1997 10:58:32  
START

0.343  
 01.6263  
 1.919  
 4.530  
 STOP

RUN# 623 APR 11, 1997 10:58:32

| ESTD-AREA | RT    | AREA   | TYPE | CAL# | AMOUNT |
|-----------|-------|--------|------|------|--------|
|           | 1.919 | 24848  | I UB | 1    | 1.044  |
|           | 4.530 | 150887 | PU   | 2    | 3.470  |

TOTAL AREA= 244712  
 MUL FACTOR=1.0000E+00

START

0.314  
0.647

4.529

STOP

RUN# 624 APR 11, 1997 11:11:11

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 4.529 | 8687578 | PB   | 2    | 199.814 |

TOTAL AREA=8.7509E+06  
MUL FACTOR=1.0000E+00

\* RUN # 625 APR 11, 1997 11:18:31

START

0.369  
0.660

4.540

STOP

RUN# 625 APR 11, 1997 11:18:31

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 4.540 | 8380506 | PB   | 2    | 192.752 |

TOTAL AREA=8.4985E+06  
MUL FACTOR=1.0000E+00

\* RUN # 626 APR 11, 1997 11:26:32  
START

STOP

RUN# 626 APR 11, 1997 11:26:32  
NO RUN PEAKS STORED

\* RUN # 627 APR 11, 1997 11:31:11  
START

0.265  
0.663

1.971

STOP

RUN# 627 APR 11, 1997 11:31:11

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.971 | 2786350 | PB   | 1    | 117.027 |

TOTAL AREA=2830210  
MUL FACTOR=1.0000E+00

\* RUN # 628 APR 11, 1997 11:35:11  
START

0.645  
0.992

1.953

STOP

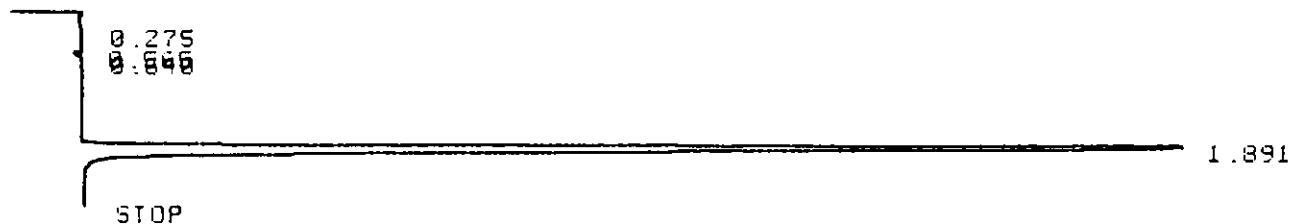
RUN# 628 APR 11, 1997 11:35:11

ESTD-AREA

| RT | AREA | TYPE | CAL# | AMOUNT |
|----|------|------|------|--------|
|----|------|------|------|--------|

TOTAL AREA=2955646  
MUL FACTOR=1.0000E+00

\* RUN # 629 APR 11, 1997 11:39:29  
START

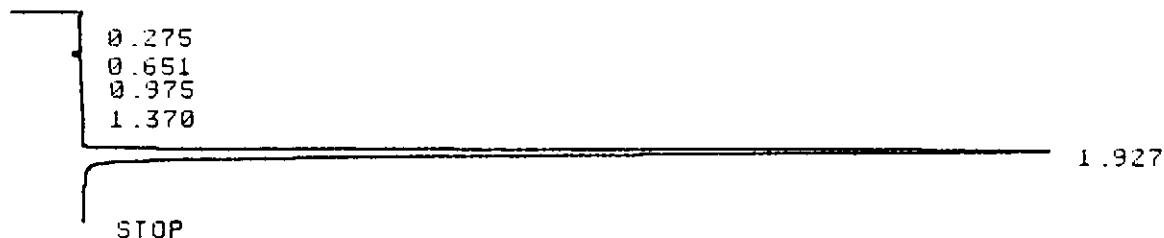


RUN# 629 APR 11, 1997 11:39:29

| ESTD-AREA | RT    | AREA TYPE | CAL# | AMOUNT  |
|-----------|-------|-----------|------|---------|
|           | 1.891 | 2885094   | PB 1 | 121.174 |

TOTAL AREA=2917946  
MUL FACTOR=1.0000E+00

\* RUN # 630 APR 11, 1997 11:42:59  
START

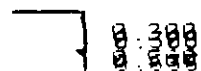


RUN# 630 APR 11, 1997 11:42:59

| ESTD-AREA | RT    | AREA TYPE | CAL# | AMOUNT |
|-----------|-------|-----------|------|--------|
|           | 1.927 | 2281989   | PB 1 | 95.844 |

TOTAL AREA=2473131  
MUL FACTOR=1.0000E+00

\* RUN # 631 APR 11, 1997 11:46:24  
START



1.120  
1.465

1.885

STOP

RUN# 631 APR 11, 1997 11:46:24

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.885 | 3113256 | PB   | 1    | 130.757 |

TOTAL AREA=3195013

MUL FACTOR=1.0000E+00

\* RUN # 632 APR 11, 1997 11:49:17

START

0.280  
0.659

1.567  
1.935

4.795

4.515

STOP

RUN# 632 APR 11, 1997 11:49:17

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.935 | 17298   | UU   | 1    | .727   |
| 4.515 | 2826430 | UP   | 2    | 65.008 |

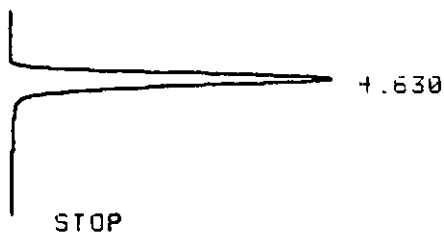
TOTAL AREA=2935763

MUL FACTOR=1.0000E+00

\* RUN # 633 APR 11, 1997 11:55:20

START

0.657

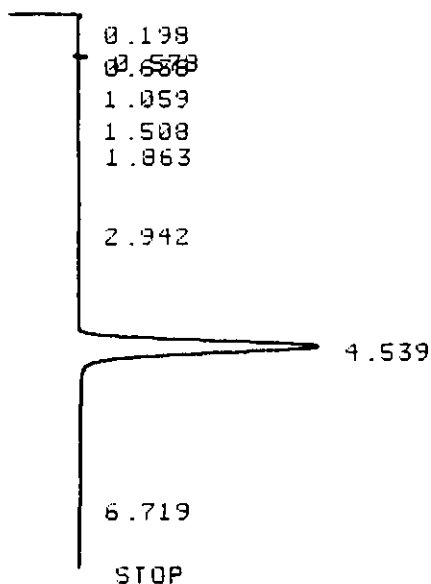


RUN# 633 APR 11, 1997 11:55:20

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.630 | 1834818 | PB   | 2    | 42.201 |

TOTAL AREA=1864882  
MUL FACTOR=1.0000E+00

\* RUN # 634 APR 11, 1997 12:02:27  
START



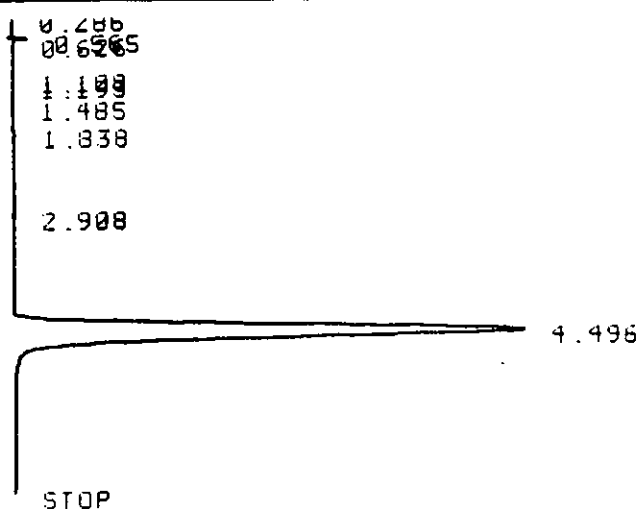
0411-02  
NMMA-14-2

RUN# 634 APR 11, 1997 12:02:27

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.863 | 4006    | BP   | 1    | .168   |
| 4.539 | 1375428 | PB   | 2    | 31.635 |

TOTAL AREA=1426870  
MUL FACTOR=1.0000E+00

\* RUN # 635 APR 11, 1997 12:10:28  
START



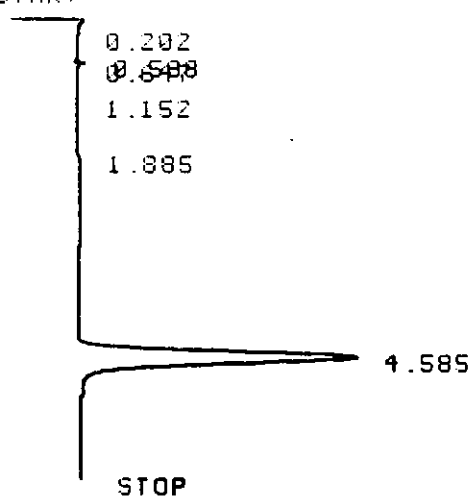
RUN# 635 APR 11, 1997 12:10:28

ESTD-AREA

| RT    | AREA    | TYPE  | CAL# | AMOUNT |
|-------|---------|-------|------|--------|
| 1.838 | 16410   | I. UB | 1    | .689   |
| 4.496 | 2878278 | BB    | 2    | 66.200 |

TOTAL AREA=3005966  
MUL FACTOR=1.0000E+00

\* RUN # 636 APR 11, 1997 12:17:41  
START



RUN# 636 APR 11, 1997 12:17:41

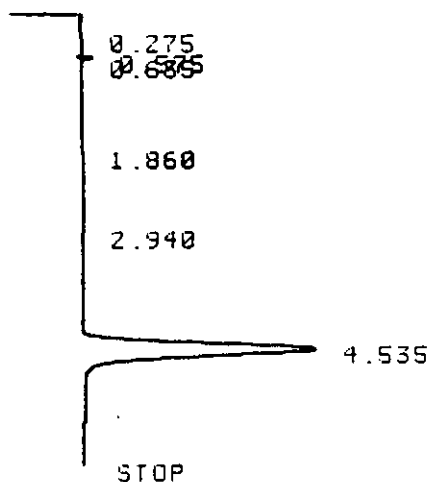
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.885 | 22561   | UU   | 1    | .948   |
| 4.585 | 1574102 | BB   | 2    | 36.204 |

TOTAL AREA=1649551  
MUL FACTOR=1.0000E+00



\* RUN # 637      APR 11, 1997 12:24:31  
START

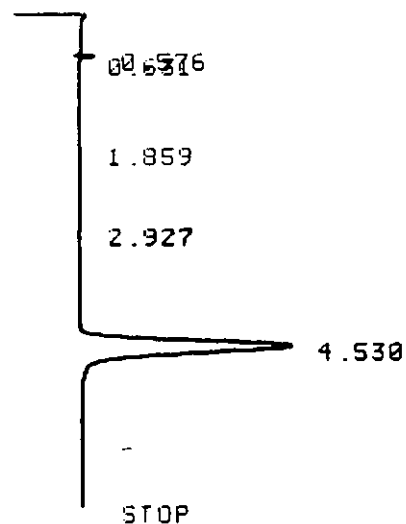


RUN# 637      APR 11, 1997 12:24:31

| ESTD-AREA |         |      |      |        |
|-----------|---------|------|------|--------|
| RT        | AREA    | TYPE | CAL# | AMOUNT |
| 1.860     | 4060    | PU   | 1    | .171   |
| 4.535     | 1322684 | PB   | 2    | 30.422 |

TOTAL AREA=1363780  
MUL FACTOR=1.0000E+00

\* RUN # 638      APR 11, 1997 12:30:58  
START

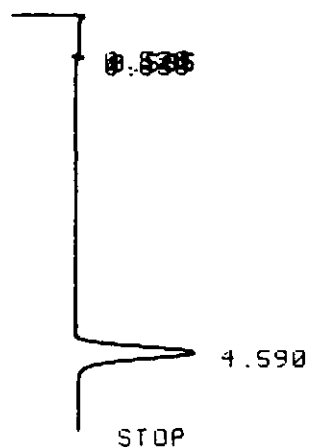


RUN# 638      APR 11, 1997 12:30:58

| ESTD-AREA |         |      |      |        |
|-----------|---------|------|------|--------|
| RT        | AREA    | TYPE | CAL# | AMOUNT |
| 1.859     | 4584    | PU   | 1    | .193   |
| 4.530     | 1186089 | PB   | 2    | 27.280 |

MUL FACTOR=1.0000E+00

\* RUN # 639      APR 11, 1997 12:46:36  
START

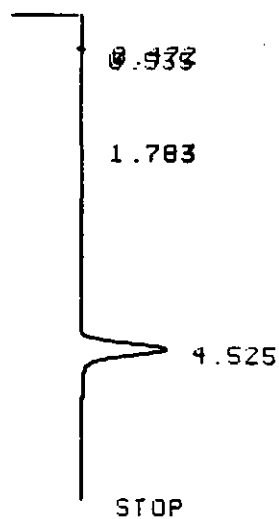


RUN# 639      APR 11, 1997 12:46:36

| ESTD-AREA | RT    | AREA TYPE | CAL# | AMOUNT |
|-----------|-------|-----------|------|--------|
|           | 4.590 | 680259 PB | 2    | 15.646 |

TOTAL AREA= 701244  
MUL FACTOR=1.0000E+00

\* RUN # 640      APR 11, 1997 12:52:47  
START



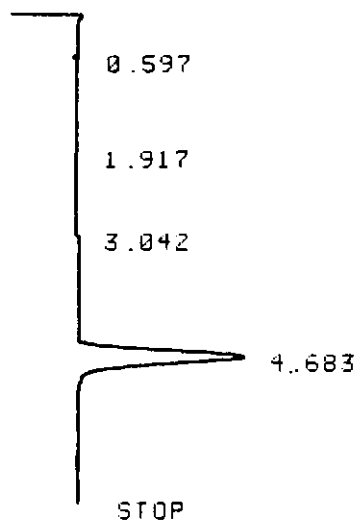
RUN# 640      APR 11, 1997 12:52:47

| ESTD-AREA | RT | AREA TYPE | CAL# | AMOUNT |
|-----------|----|-----------|------|--------|
|           |    |           |      |        |

4.525 485239 88 2 11.160

TOTAL AREA= 502851  
MUL FACTOR=1.0000E+00

\* RUN # 641 APR 11, 1997 12:59:52  
START

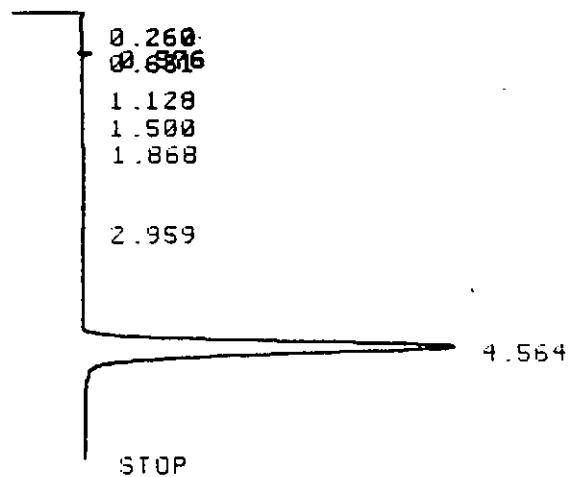


RUN# 641 APR 11, 1997 12:59:52

| ESTD-AREA | RT    | AREA   | TYPE | CAL# | AMOUNT |
|-----------|-------|--------|------|------|--------|
|           | 1.917 | 3744   | UU   | 1    | .157   |
|           | 4.683 | 962450 | PB   | 2    | 22.136 |

TOTAL AREA= 973661  
MUL FACTOR=1.0000E+00

\* RUN # 642 APR 11, 1997 13:06:55  
START



RUN# 642

APR 11, 1997 13:06:55

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.868 | 11655   | UU   | 1    | .490   |
| 4.564 | 2120477 | PB   | 2    | 48.771 |

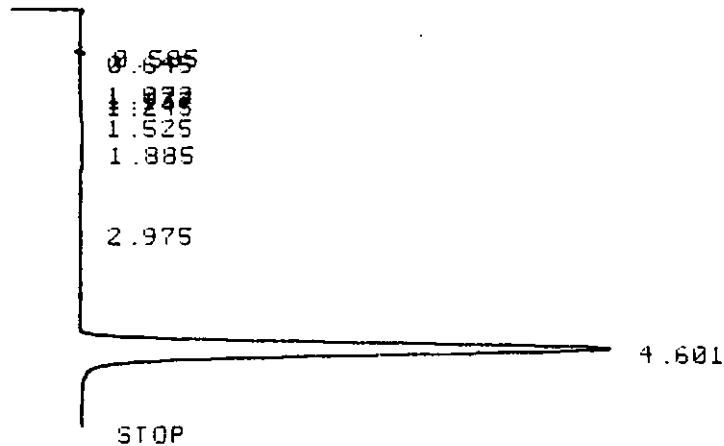
TOTAL AREA=2195702

MUL FACTOR=1.0000E+00

\* RUN # 643

APR 11, 1997 13:13:36

START



RUN# 643

APR 11, 1997 13:13:36

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.885 | 8189    | UU   | 1    | .344   |
| 4.601 | 3013517 | PB   | 2    | 69.311 |

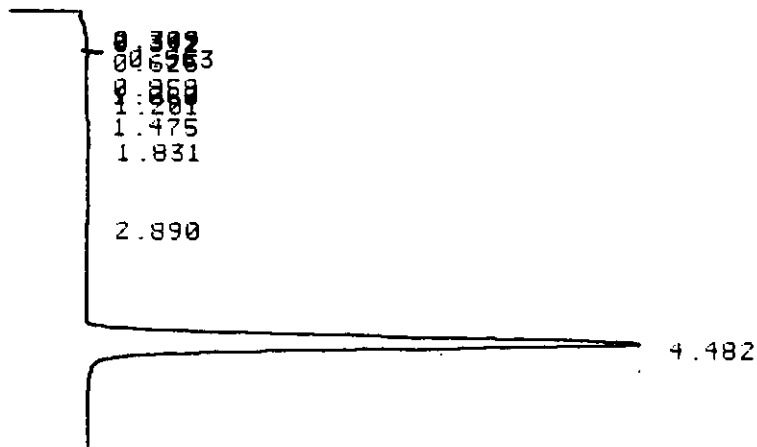
TOTAL AREA=3047368

MUL FACTOR=1.0000E+00

\* RUN # 644

APR 11, 1997 13:19:38

START



STOP

RUN# 644 APR 11, 1997 13:19:38

ESTD-AREA

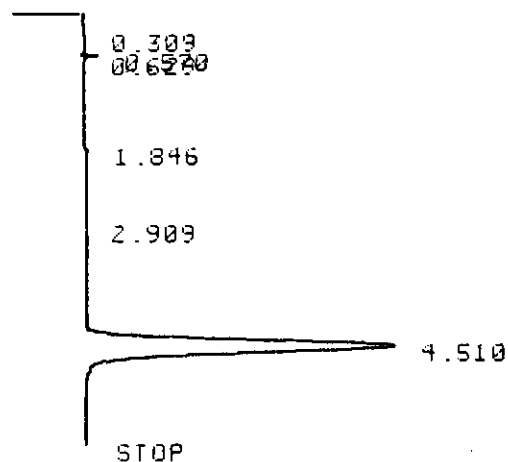
| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.831 | 8824    | PU   | 1    | .371   |
| 4.482 | 3121786 | PB   | 2    | 71.801 |

TOTAL AREA=3235826

MUL FACTOR=1.0000E+00

\* RUN # 645 APR 11, 1997 13:28:52

START



RUN# 645 APR 11, 1997 13:28:52

ESTD-AREA

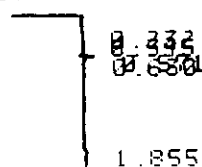
| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.846 | 6420    | BP   | 1    | .270   |
| 4.510 | 1763058 | PB   | 2    | 40.550 |

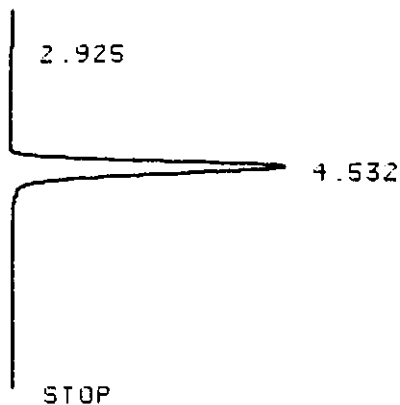
TOTAL AREA=1811059

MUL FACTOR=1.0000E+00

\* RUN # 646 APR 11, 1997 13:35:12

START





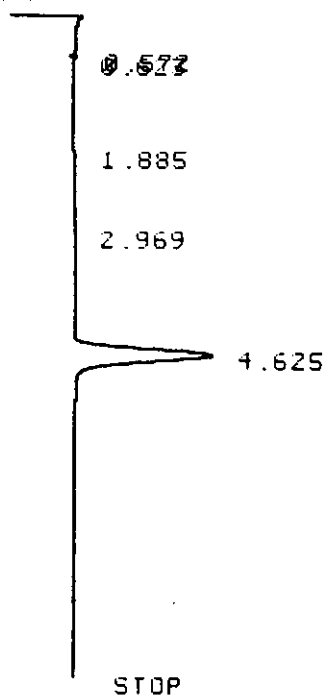
RUN# 646 APR 11, 1997 13:35:12

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.855 | 43857   | UU   | 1    | 1.842  |
| 4.532 | 1555117 | PB   | 2    | 35.768 |

TOTAL AREA=1670735  
MUL FACTOR=1.0000E+00

\* RUN # 647 APR 11, 1997 13:46:52  
START



RUN# 647 APR 11, 1997 13:46:52

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.885 | 4745   | PU   | 1    | .199   |
| 4.625 | 799358 | PB   | 2    | 18.385 |

TOTAL AREA= 833969

\* RUN # 648 APR 11, 1997 13:56:56  
START

0.585

1.899

4.664

STOP

RUN# 648 APR 11, 1997 13:56:56

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.899 | 3639   | PU   | 1    | .153   |
| 4.664 | 371345 | BB   | 2    | 8.541  |

TOTAL AREA= 380559  
MUL FACTOR=1.0000E+00

\* RUN # 649 APR 11, 1997 14:06:58  
START

0.266  
0.6343

1.855

4.528

RUN# 649

APR 11, 1997 14:06:58

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.855 | 11013  | UU   | 1    | .463   |
| 4.528 | 304924 | BU   | 2    | 7.013  |

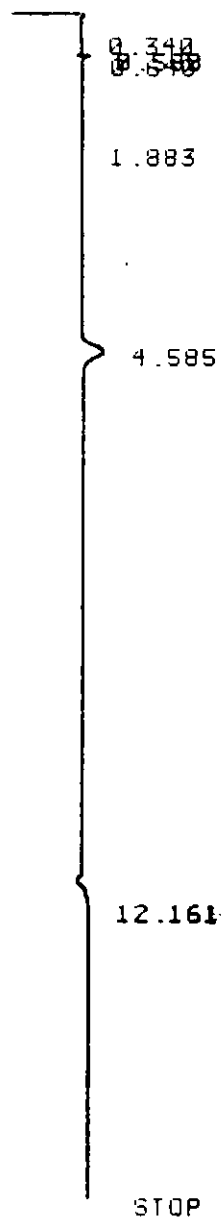
TOTAL AREA= 371807

MUL FACTOR=1.0000E+00

\* RUN # 650

APR 11, 1997 14:13:22

START



RUN# 650

APR 11, 1997 14:13:22

ESTD-AREA

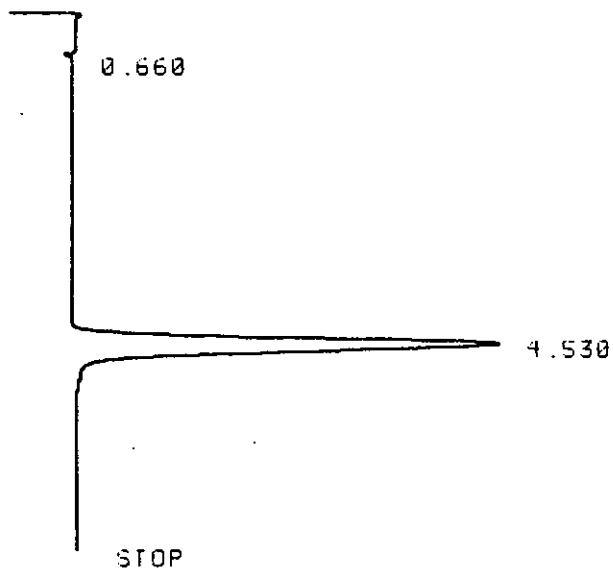
| RT | AREA | TYPE | CAL# | AMOUNT |
|----|------|------|------|--------|
|----|------|------|------|--------|



4.585 128618 BU 2 2.958

TOTAL AREA= 272492  
MUL FACTOR=1.0000E+00

\* RUN # 651 APR 11, 1997 14:30:14  
START

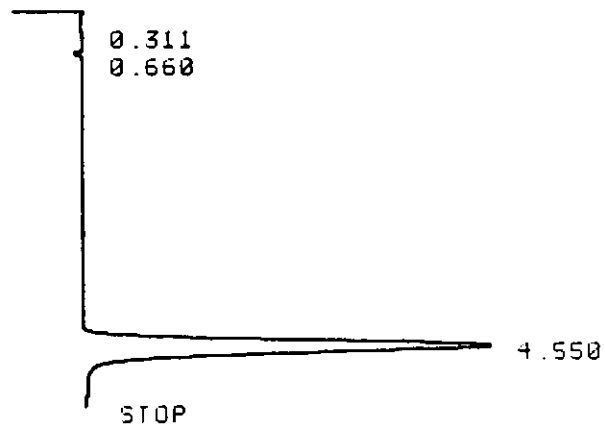


RUN# 651 APR 11, 1997 14:30:14

| ESTD-AREA | RT    | AREA TYPE  | CAL# | AMOUNT |
|-----------|-------|------------|------|--------|
|           | 4.530 | 2421373 PB | 2    | 55.692 |

TOTAL AREA=2448824  
MUL FACTOR=1.0000E+00

\* RUN # 652 APR 11, 1997 14:38:16  
START



RUN# 652 APR 11, 1997 14:38:16

ESTD-AREA

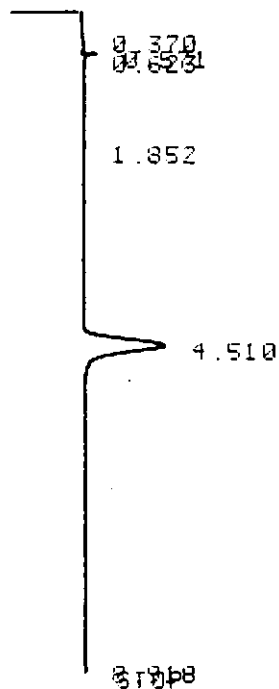
| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.550 | 2319550 | PB   | 2    | 53.350 |

TOTAL AREA=2386656

MUL FACTOR=1.0000E+00

\* RUN # 653 APR 11, 1997 15:44:00

START



RUN# 653 APR 11, 1997 15:44:00

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.852 | 8634   | UV   | 1    | .363   |
| 4.510 | 458349 | PV   | 2    | 10.542 |

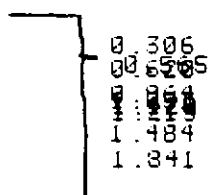
TOTAL AREA= 538357

MUL FACTOR=1.0000E+00

0411-03  
NMA-13-1

\* RUN # 654 APR 11, 1997 15:53:51

START



2.914  
 4.506  
 STOP

RUN# 654 APR 11, 1997 15:53:51

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.841 | 19943   | UU   | 1    | .838   |
| 4.506 | 2872381 | PB   | 2    | 66.065 |

TOTAL AREA=3034627  
 MUL FACTOR=1.0000E+00

\* RUN # 655 APR 11, 1997 15:59:26

START

0.588  
 1.077  
 1.505  
 1.880  
 2.959  
 4.586  
 STOP

RUN# 655 APR 11, 1997 15:59:26

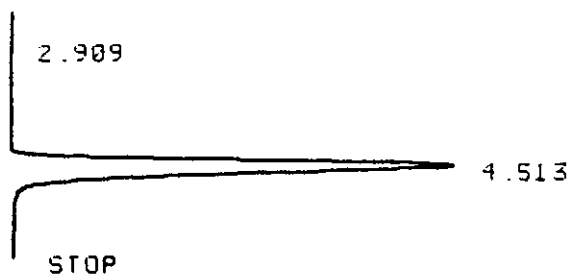
| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.880 | 6644    | PP   | 1    | .279   |
| 4.586 | 3056024 | PB   | 2    | 70.289 |

TOTAL AREA=3090763  
 MUL FACTOR=1.0000E+00

\* RUN # 656 APR 11, 1997 16:05:31

START

0.203  
 0.6281  
 1.052  
 1.848

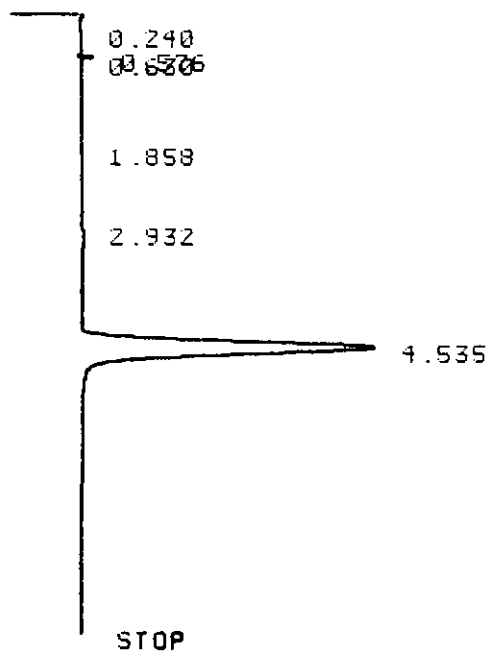


RUN# 656 APR 11, 1997 16:05:31

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.848 | 4736    | BU   | 1    | .199   |
| 4.513 | 2511288 | PB   | 2    | 57.760 |

TOTAL AREA=2580272  
MUL FACTOR=1.0000E+00

\* RUN # 657 APR 11, 1997 16:11:46  
START



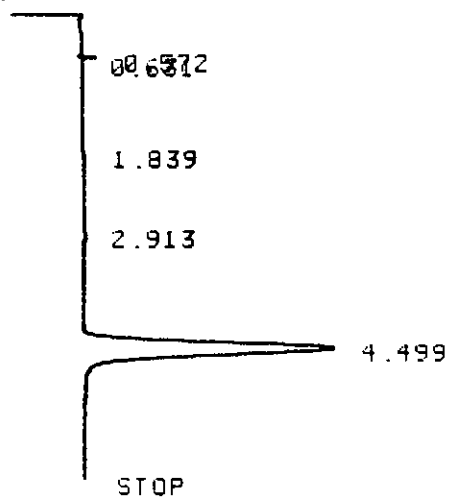
RUN# 657 APR 11, 1997 16:11:46

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.858 | 13980   | UU   | 1    | .587   |
| 4.535 | 1662455 | PB   | 2    | 38.236 |

TOTAL AREA=1709677  
MUL FACTOR=1.0000E+00

\* RUN # 658 APR 11, 1997 16:22:04

START



RUN# 658 APR 11, 1997 16:22:04

ESTD-AREA

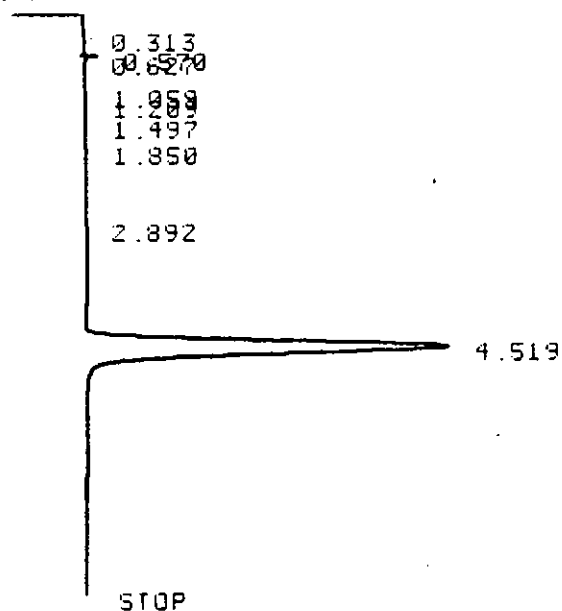
| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.839 | 17026   | UU   | 1    | .715   |
| 4.499 | 1436378 | PB   | 2    | 33.037 |

TOTAL AREA=1483080

MUL FACTOR=1.0000E+00

\* RUN # 659 APR 11, 1997 16:28:39

START



RUN# 659 APR 11, 1997 16:28:39

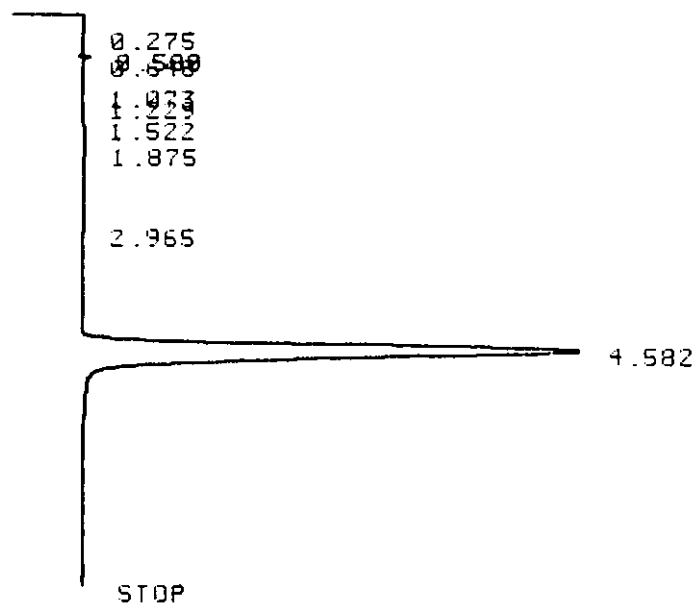
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.850 | 36052   | UU   | 1    | 1.514  |
| 4.519 | 2067983 | PB   | 2    | 47.564 |

TOTAL AREA=2202906  
MUL FACTOR=1.0000E+00

\* RUN # 660 APR 11, 1997 16:37:15

START



RUN# 660 APR 11, 1997 16:37:15

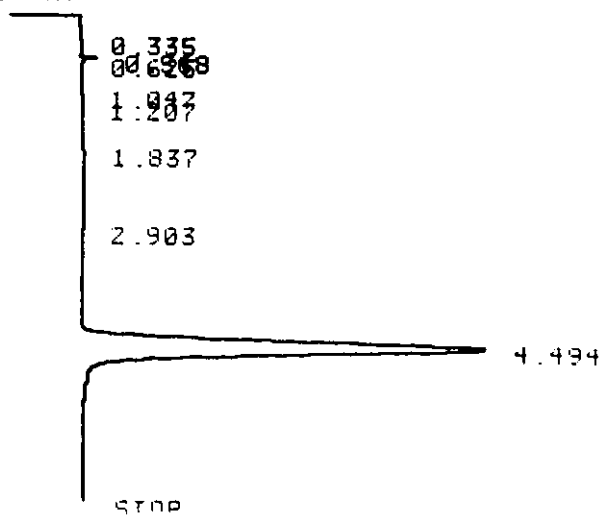
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.875 | 16182   | UU   | 1    | .680   |
| 4.582 | 2840077 | PB   | 2    | 65.322 |

TOTAL AREA=2920586  
MUL FACTOR=1.0000E+00

\* RUN # 661 APR 11, 1997 16:45:33

START



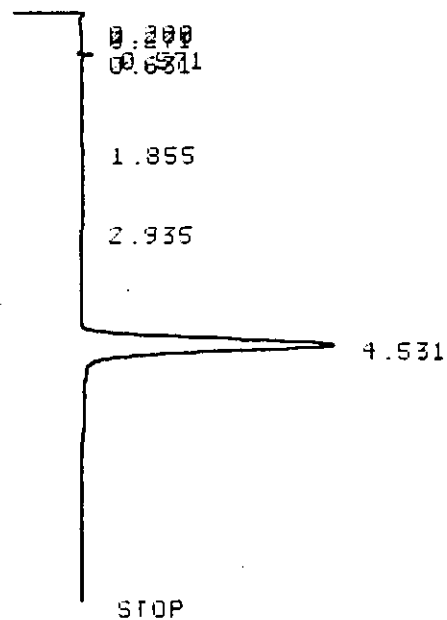
RUN# 661 APR 11, 1997 16:45:33

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.837 | 5972    | UU   | 1    | .251   |
| 4.494 | 2281424 | PB   | 2    | 52.473 |

TOTAL AREA=2345658  
MUL FACTOR=1.0000E+00

\* RUN # 662 APR 11, 1997 16:52:54  
START



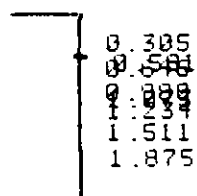
RUN# 662 APR 11, 1997 16:52:54

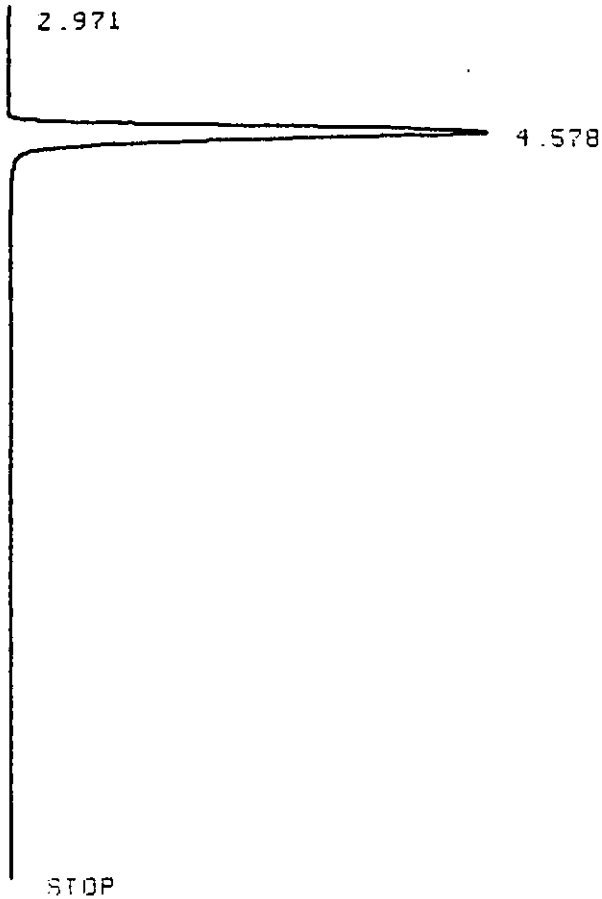
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.855 | 4378    | PU   | 1    | .184   |
| 4.531 | 1449514 | PB   | 2    | 33.339 |

TOTAL AREA=1502608  
MUL FACTOR=1.0000E+00

\* RUN # 663 APR 11, 1997 17:01:27  
START



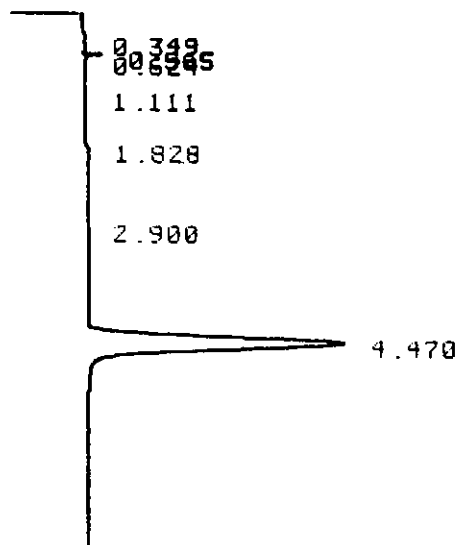


RUN# 663 APR 11, 1997 17:01:27

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.975 | 18993   | UU   | 1    | .798   |
| 4.578 | 2731869 | PB   | 2    | 62.833 |

TOTAL AREA=2834525  
 MUL FACTOR=1.0000E+00

\* RUN # 664 APR 11, 1997 17:16:29  
 START





RUN# 664

APR 11, 1997 17:16:29

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.828 | 4967    | BU   | 1    | .209   |
| 4.470 | 1456317 | PB   | 2    | 33.495 |

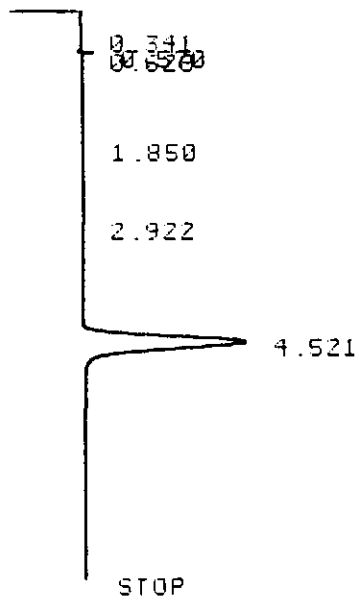
TOTAL AREA=1552256

MUL FACTOR=1.0000E+00

\* RUN # 665

APR 11, 1997 17:24:17

START



RUN# 665

APR 11, 1997 17:24:17

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.850 | 4130   | PU   | 1    | .173   |
| 4.521 | 935083 | PB   | 2    | 21.507 |

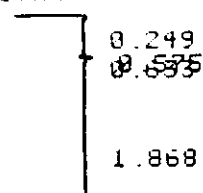
TOTAL AREA=1000767

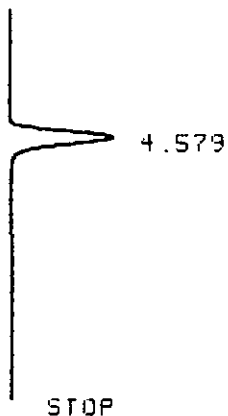
MUL FACTOR=1.0000E+00

\* RUN # 666

APR 11, 1997 17:32:16

START



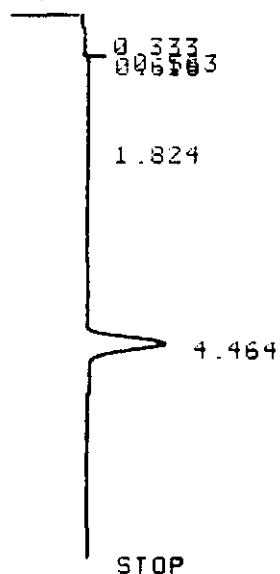


RUN# 666 APR 11, 1997 17:32:16

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.368 | 3256   | PU   | 1    | .137   |
| 4.579 | 596809 | PB   | 2    | 13.727 |

TOTAL AREA= 624915  
MUL FACTOR=1.0000E+00

\* RUN # 667 APR 11, 1997 17:40:40  
START



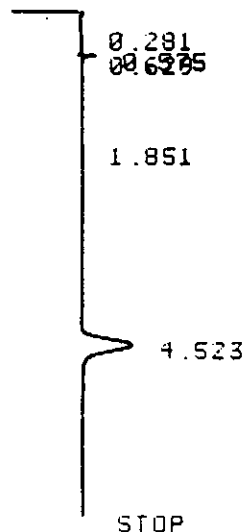
RUN# 667 APR 11, 1997 17:40:40

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.824 | 3688   | PU   | 1    | .155   |
| 4.464 | 450379 | PB   | 2    | 10.359 |

TOTAL AREA= 522397  
MUL FACTOR=1.0000E+00

\* RUN # 668 APR 11, 1997 17:48:34

START



RUN# 668 APR 11, 1997 17:48:34

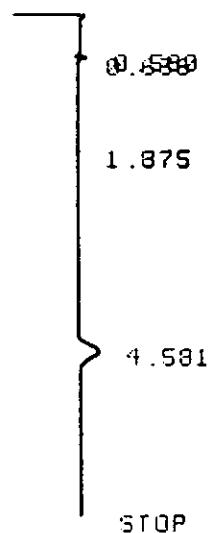
ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.851 | 14426  | UU   | 1    | .606   |
| 4.523 | 296181 | BU   | 2    | 6.812  |

TOTAL AREA= 353095  
MUL FACTOR=1.0000E+00

\* RUN # 669 APR 11, 1997 17:56:04

START



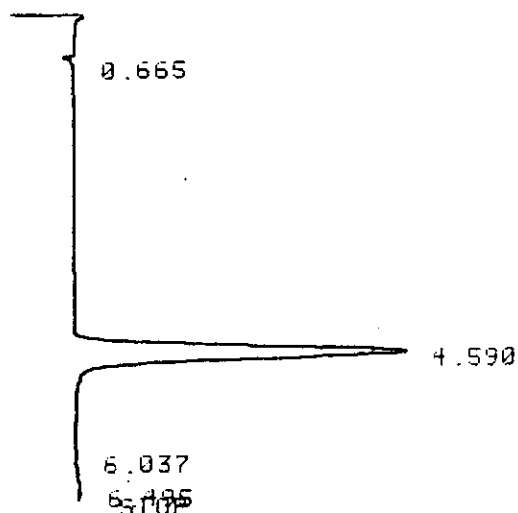
RUN# 669 APR 11, 1997 17:56:04

ESTD-AREA

|       |       |    |   |       |
|-------|-------|----|---|-------|
| 1.875 | 1940  | BU | 1 | .081  |
| +581  | 12443 | PU | 2 | 2.862 |

TOTAL AREA= 144396  
MUL FACTOR=1.0000E+00

\* RUN # 670      APR 11, 1997 18:04:27  
START

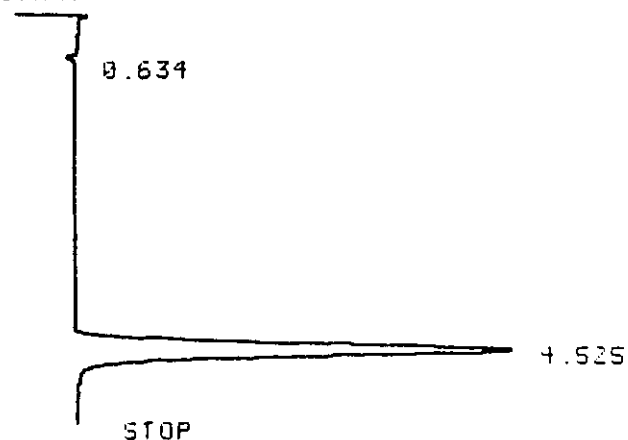


RUN# 670      APR 11, 1997 18:04:27

| ESTD-AREA |         |      |      |        |
|-----------|---------|------|------|--------|
| RT        | AREA    | TYPE | CAL# | AMOUNT |
| 4.590     | 1873879 | PB   | 2    | 43.099 |

TOTAL AREA=1957512  
MUL FACTOR=1.0000E+00

\* RUN # 671      APR 11, 1997 18:15:44  
START



RUN# 671 APR 11, 1997 18:15:44

ESTD-AREA

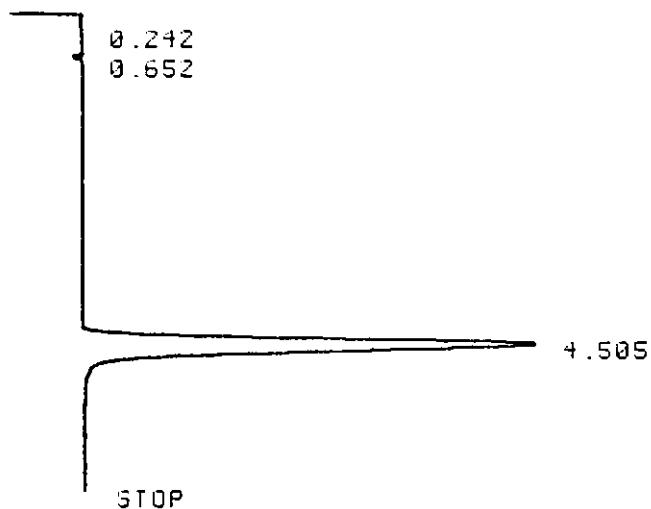
| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.525 | 2468186 | BB   | 2    | 56.768 |

TOTAL AREA=2499805

MUL FACTOR=1.0000E+00

• RUN # 672 APR 11, 1997 18:21:49

START



RUN# 672 APR 11, 1997 18:21:49

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.505 | 2570333 | BB   | 2    | 59.118 |

TOTAL AREA=2648637

MUL FACTOR=1.0000E+00

\* RUN # 673 APR 11, 1997 18:33:02

START



STOP

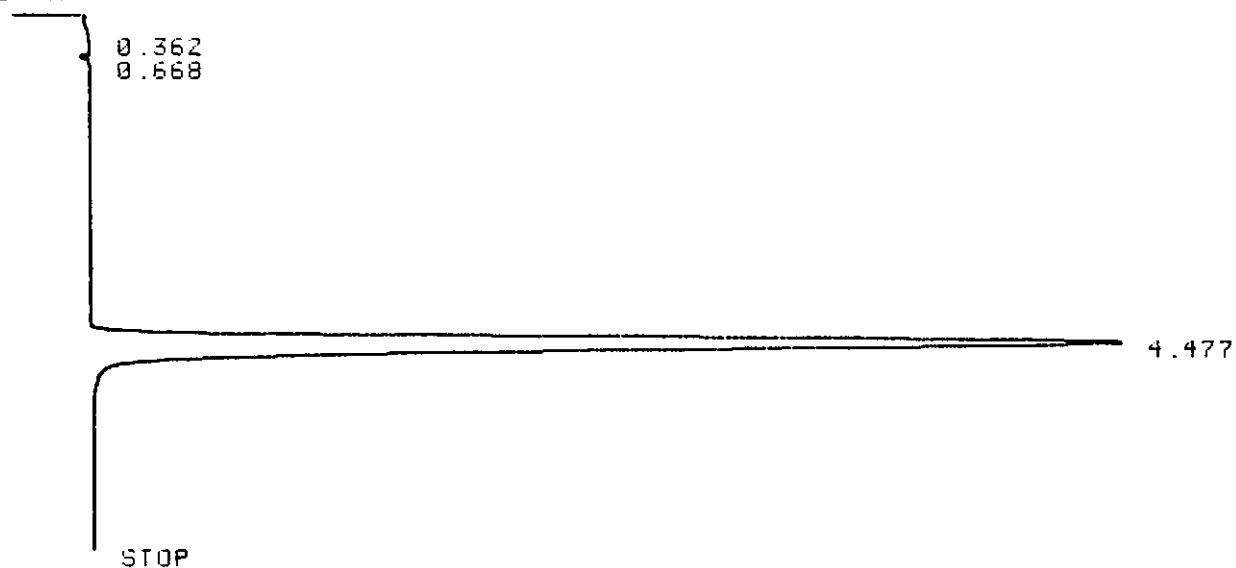
RUN# 673 APR 11, 1997 18:33:02

ESTD-AREA

| RT    | AREA     | TYPE | CAL# | AMOUNT |
|-------|----------|------|------|--------|
| 4.617 | 3828302. | PB   | 2    | 88.051 |

TOTAL AREA=3856634  
MUL FACTOR=1.0000E+00

\* RUN # 674 APR 11, 1997 18:39:46  
START



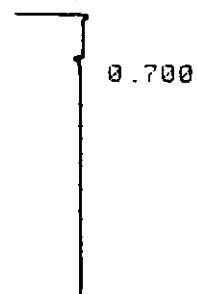
RUN# 674 APR 11, 1997 18:39:46

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 4.477 | 5809104 | AB   | 2    | 133.609 |

TOTAL AREA=5916733  
MUL FACTOR=1.0000E+00

\* RUN # 675 APR 11, 1997 18:47:54  
START



4.684  
STOP

RUN# 675 APR 11, 1997 18:47:54

| ESTD-AREA | RT    | AREA TYPE    | CAL# | AMOUNT |
|-----------|-------|--------------|------|--------|
|           | 4.684 | 3291541 I 88 | 2    | 75.705 |

TOTAL AREA=3319530  
MUL FACTOR=1.0000E+00

\* RUN # 676 APR 11, 1997 18:53:20  
START

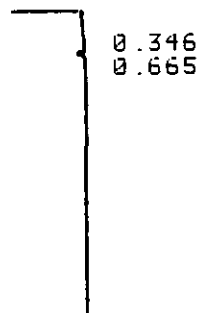


RUN# 676 APR 11, 1997 18:53:20

| ESTD-AREA | RT    | AREA TYPE  | CAL# | AMOUNT  |
|-----------|-------|------------|------|---------|
|           | 4.500 | 5616218 PB | 2    | 129.173 |

TOTAL AREA=5672861  
MUL FACTOR=1.0000E+00

\* RUN # 677 APR 11, 1997 19:01:34  
START



STOP

RUN# 677 APR 11, 1997 19:01:34

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 4.528 | 8177760 | PB   | 2    | 188.088 |

TOTAL AREA=8258662

MUL FACTOR=1.0000E+00

\* RUN # 678 APR 11, 1997 19:07:44

START

0.361  
0.679

2.579

4.510

STOP

RUN# 678 APR 11, 1997 19:07:44

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 4.510 | 8528410 | PB   | 2    | 196.153 |

TOTAL AREA=8.6444E+06

MUL FACTOR=1.0000E+00

\* RUN # 679 APR 11, 1997 19:14:37

START

0.352  
0.592

1.210

1.914

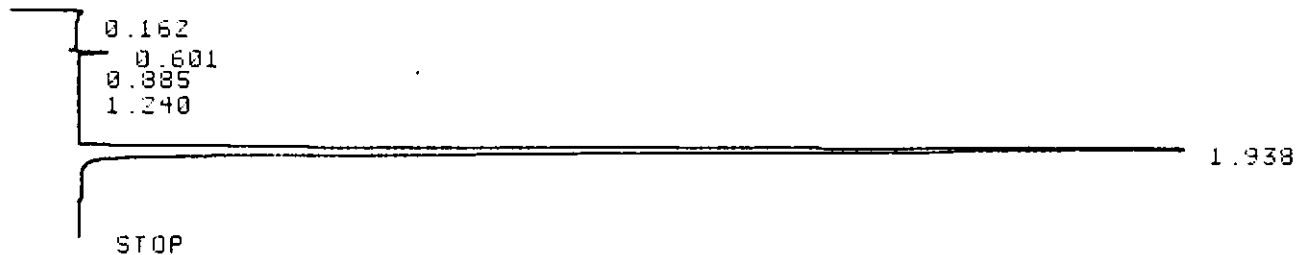
STOP



| ESTD-AREA | RT    | AREA TYPE | CAL# | AMOUNT  |
|-----------|-------|-----------|------|---------|
|           | 1.914 | 3063480   | PB   | 1       |
|           |       |           |      | 128.666 |

TOTAL AREA=31.71765  
MUL FACTOR=1.0000E+00

\* RUN # 680 APR 11, 1997 19:18:17  
START

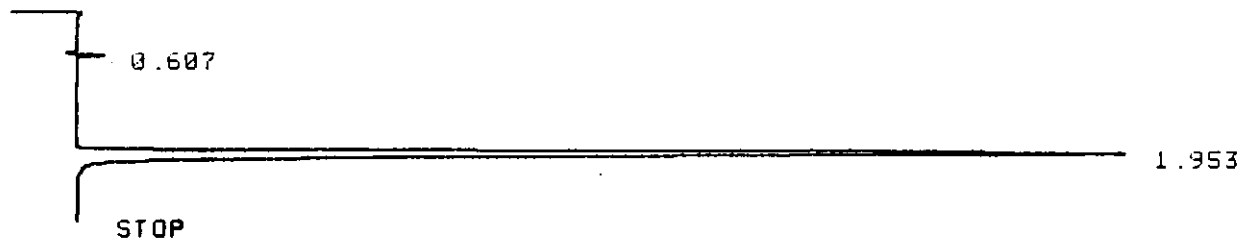


RUN# 680 APR 11, 1997 19:18:17

| ESTD-AREA | RT    | AREA TYPE | CAL# | AMOUNT  |
|-----------|-------|-----------|------|---------|
|           | 1.938 | 2640366   | PB   | 1       |
|           |       |           |      | 110.895 |

TOTAL AREA=2678037  
MUL FACTOR=1.0000E+00

\* RUN # 681 APR 11, 1997 19:22:28  
START



RUN# 681 APR 11, 1997 19:22:28

| ESTD-AREA | RT    | AREA TYPE | CAL# | AMOUNT  |
|-----------|-------|-----------|------|---------|
|           | 1.953 | 2450941   | PB   | 1       |
|           |       |           |      | 102.939 |

TOTAL AREA=2475120  
MUL FACTOR=1.0000E+00

\* RUN # 682 APR 11, 1997 19:26:12  
START

0.278  
0.682  
0.889

1.904

STOP

RUN# 682 APR 11, 1997 19:26:12

ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT  |
|-------|------------|------|---------|
| 1.904 | 2748472 PB | 1    | 115.436 |

TOTAL AREA=2843974

MUL FACTOR=1.0000E+00

\* RUN # 683 APR 11, 1997 19:29:30  
START

0.266  
0.698  
1.230  
1.615

1.950

STOP

RUN# 683 APR 11, 1997 19:29:30

ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT |
|-------|------------|------|--------|
| 1.950 | 2034586 PB | 1    | 85.453 |

TOTAL AREA=2170421

MUL FACTOR=1.0000E+00

\* RUN # 684 APR 11, 1997 19:33:16  
START

0.239  
0.645  
1.191

1.942

STOP

RUN# 684 APR 11, 1997 19:33:16

## ESTD-AREA

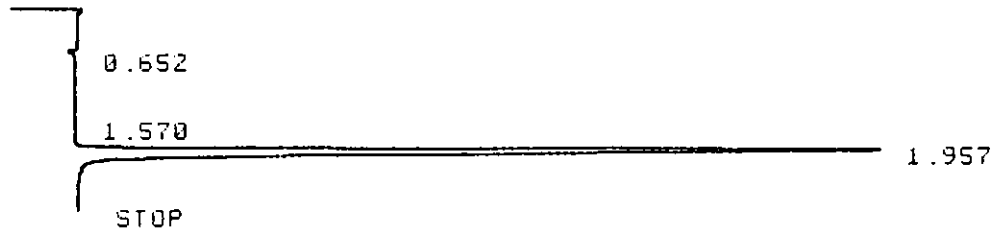
| RT    | AREA TYPE  | CAL# | AMOUNT |
|-------|------------|------|--------|
| 1.942 | 2023973 PB | 1    | 85.007 |

TOTAL AREA=2122749

MUL FACTOR=1.0000E+00

\* RUN # 685 APR 11, 1997 19:36:16

START



RUN# 685 APR 11, 1997 19:36:16

## ESTD-AREA

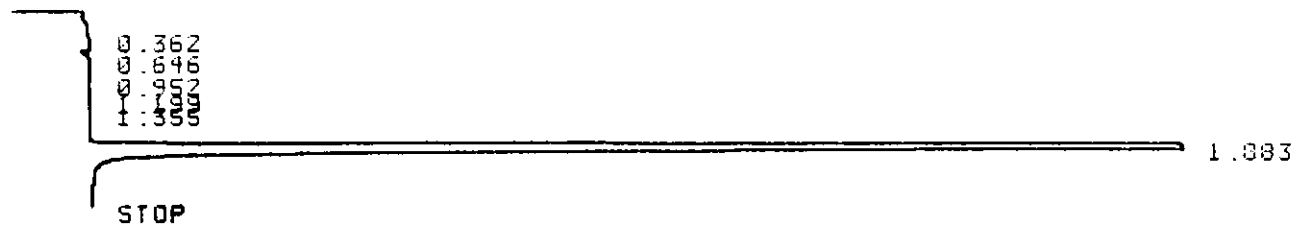
| RT    | AREA TYPE  | CAL# | AMOUNT |
|-------|------------|------|--------|
| 1.957 | 1898571 PB | 1    | 79.740 |

TOTAL AREA=1929347

MUL FACTOR=1.0000E+00

\* RUN # 686 APR 11, 1997 19:39:49

START



RUN# 686 APR 11, 1997 19:39:49

## ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT  |
|-------|------------|------|---------|
| 1.883 | 4870781 PB | 1    | 204.573 |

TOTAL AREA=5067286

MUL FACTOR=1.0000E+00

START

0.312

0.655

1.235

1.929

STOP

RUN# 687

APR 11, 1997 19:42:56

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.929 | 3410517 | PB   | 1    | 143.242 |

TOTAL AREA=3536866

MUL FACTOR=1.0000E+00

\* RUN # 688

APR 11, 1997 19:45:54

START

0.345

0.840

1.197

1.498

1.891

STOP

RUN# 688

APR 11, 1997 19:45:54

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.891 | 4755005 | PB   | 1    | 199.710 |

TOTAL AREA=4944726

MUL FACTOR=1.0000E+00

\*

4/11/97

Morning calibration performed 3 times, largely due to low gas flows & OE.

0411A.Cal = Initial Inlet & outlet cal

0411B.Cal = Respan of both instruments

Pre-1 Out 9.4 In 45.5 = Initial pretest span,

- Outlet was low, monitor electronically recalled & respan as ...

Pre-2 Out 9.4 In 45.5

- Outlet drifting low again, problem was cal gas flow

- Inlet ok both runs

0411C.Cal = Respan of outlet, inlet unchanged from 0411B.cal

- Pre-3 Out-3 9.4 is correct span data

Cal file = 0411C.Cal

→ Online 0904 Run 0411-01 Test=NMMA-6-2 13' deck gelcoat

Gel on 0906 Initial resin = 272.4

Gel done 0931 Final resin = 251.71 Net = 18.7

Flow @ 0948 Das = 0.224P & - 2.7 B done 0953

H8 .21 V8 .19 Ts = 71 RH = 47% @ 43°

7 .25 7 .22 Pb = 30.36

6 .25 6 .23 Resin = 18.7 = 6.54 # STYRENE

5 ~~.25~~ 5 .23 Q = 3,308

4 ~~.25~~ 4 .24 D = 121"

3 .22 3 .23 THC = 73 → 3.24 # Styrene

2 .21 2 .23 49.6% avail emitted

1 .20 1 .21

- 1046 RT Flow off. ΔP → .21 → .23 Ts dropping

- Run ended 1105

- Complete set of gases analyzed post test.

2183

2/11/97 cont

- 0411-02 on line @ 1158 = NMMMA-14-2 18' deck 35% Resin FC

Resin initial 378.79

Spray @ 1158 - Skin start

Skin done @ 1209

1258 start lamination

1315 lamination done Final Resin = 261.30 - 117.49 net

Flow @ 1334 DAS = .21 AP, - 2.8 B Done 1341

.20 .18

TS = 66

.25 .23

Pb = 30.34

.26 .24

Resin = 117.49 = 41.12# Styrene

.26 .24

RH = 32% @ 57°

.23 .25

Q = 3318

.22 .24

$\Theta = 124^{\circ} / 44^{\circ}$

.21 .24

THC = 89.7 = 4.10# Styrene = 10.0%

.20 .20

- Drop in AP right before traverse, P, unexplained: Not due to RTI  
Inlet post test span labeled 30.4, should be 45.5

0411-03 on line 1530 - TEST# NMMMA-13-2, 18' hull, 35% FC

Skin start 1541

Initial Resin 354.69

1/2 skin @ 1547

Second 1/2 skin start @ 1552

Second 1/2 skin done 1558

Lamination start 1625, end 1637

1654 - lamination start, side 2 end 1703

Total resin = 442.18 - 140.12

→ final resin  
(214.57)  
43.54 - 15 sec lag  
1.03

4/11/97

(3) 73

04/11-03 cmr

Flow @ 1725 DAS = 0.174 P & -2.6 Ps Pme 1729

H8 .20

V8 .16

Ts = 67

7 .24

7 .21

Pb = 30.3/2

6 .24

6 .21

RA = .29 @ 58°

5 .24

5 .22

Q = 3207

4 .22

4 .23

Θ = 158

3 .22

3 .22

TTC = 96

2 .20

2 .22

# Styrene emitted = 5.4 = 10.9%

1 .19

1 .18

# Resin =  $\frac{142.18}{140.12} = 49.76$  # Styrene

AM Cars  
4/11/97

RADIAN CORPORATION  
Environmental Measurement and Analysis Department  
Continuous Emissions Monitoring Data  
US Marine  
Burlington, WA  
Performed for: NMMA  
Date Printed = 04-11-1997 Current Time = 07:20:42  
File Name = c:\ceadata\041197.PRN Calibration File: c:\ceadata\0410b.CAL

Test #: Pre 1 out 914 in 45.5

| 04-11-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 07:20:46           | 912.5        | 45.6         | -5.7          | -233.9    | 209.3       | 3.1         |
| 07:20:48           | 912.5        | 45.6         | -5.7          | -233.9    | 209.3       | 3.1         |
| 07:20:52           | 910.8        | 45.7         | -5.7          | -232.9    | 210.6       | 3.0         |
| 07:21:02           | 910.6        | 45.7         | -5.7          | -232.5    | 210.8       | 3.0         |
| 07:21:12           | 909.9        | 45.8         | -5.7          | -232.7    | 210.6       | 3.0         |
| 07:21:22           | 909.6        | 45.8         | -5.7          | -232.5    | 210.8       | 3.0         |
| 07:21:32           | 909.5        | 45.8         | -5.7          | -232.0    | 211.3       | 3.0         |
| 07:21:42           | 909.3        | 45.8         | -5.7          | -231.8    | 211.5       | 3.0         |
| 07:21:52           | 909.7        | 45.8         | -5.7          | -232.0    | 211.3       | 3.0         |
| 07:22:02           | 909.3        | 45.8         | -5.7          | -232.1    | 211.2       | 3.0         |
| 07:22:12           | 909.1        | 45.8         | -5.7          | -232.2    | 211.2       | 3.0         |
| 07:22:22           | 909.3        | 45.8         | -5.7          | -231.3    | 212.0       | 3.0         |
| Avg =              | 910.2        | 45.7         | -5.7          | -232.5    | 210.8       | 3.0         |



CALIBRATION SUMMARY:

04-11-1997 07:25:48

CALIBRATION FILE NAME = c:\cendata\0411a.CAL

| ===== |       |       |       |       |       |       |        |  |           |
|-------|-------|-------|-------|-------|-------|-------|--------|--|-----------|
| Chan. | Name  | Units | Zero  |       | Scan  |       | Slope  |  | Int.      |
|       |       |       | Conc. | Reso. | Conc. | Reso. |        |  |           |
| ===== |       |       |       |       |       |       |        |  |           |
| 1     | THC o | ppm   | 0     | 0     | 914   | 8.8   | 103.31 |  | -.0806    |
| 2     | THC i | ppm   | 0     | .04   | 45.5  | 9.2   | 4.97   |  | -.2226    |
| 3     | Flow  | inH2O | 0     | 2.96  | .4    | 3.2   | 1.97   |  | -5.8162   |
| 4     | Temp  | F     | 32    | 1.98  | 212   | 3.3   | 137.51 |  | -240.4591 |
| 5     | Resin | lb    | 0     | 1.46  | 600   | 4.3   | 212.27 |  | -310.8426 |
| 6     | Ps    | inH2O | 0     | .7    | -1.1  | .9    | -4.67  |  | 3.2787    |
| ===== |       |       |       |       |       |       |        |  |           |

## RADIANT CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

Marine

Arlington, WA

Performed for:

NMMA

Date Printed = 04-11-1997 Current Time = 07:27:15

File Name = c:\cemdata\041197.PRM Calibration File: c:\cemdata\0411a.CAL

Test #: Pre 1-2 out 914 in 45.5

| 04-11-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 07:27:16           | 912.1        | 45.6         | -5.7          | -230.7    | 212.6       | 3.0         |
| 07:27:18           | 912.1        | 45.6         | -5.7          | -230.7    | 212.6       | 3.0         |
| 07:27:19           | 912.1        | 45.6         | -5.7          | -230.7    | 212.6       | 3.0         |
| 07:27:27           | 911.7        | 45.7         | -5.7          | -230.6    | 212.8       | 2.9         |
| 07:27:36           | 911.4        | 45.7         | -5.7          | -230.5    | 212.9       | 2.9         |
| 07:27:46           | 911.0        | 45.7         | -5.7          | -230.6    | 212.7       | 3.0         |
| 07:27:56           | 910.7        | 45.7         | -5.7          | -230.0    | 213.4       | 2.9         |
| 07:28:06           | 907.7        | 45.7         | -5.7          | -232.9    | 210.5       | 3.0         |
| 07:28:16           | 902.5        | 45.7         | -5.8          | -239.0    | 204.2       | 3.2         |
| 07:28:26           | 903.2        | 45.7         | -5.8          | -237.8    | 205.2       | 3.2         |
| 07:28:36           | 904.0        | 45.8         | -5.8          | -236.9    | 206.3       | 3.2         |
| 07:28:46           | 904.1        | 45.6         | -5.6          | -236.8    | 206.3       | 3.2         |
| 07:28:56           | 903.5        | 45.7         | -5.8          | -237.4    | 205.8       | 3.2         |
| Ave =              | 908.2        | 45.7         | -5.7          | -233.4    | 209.8       | 3.0         |

CALIBRATION SUMMARY

04-11-1997 07:30:20

CALIBRATION FILE NAME = c:\cendata\0411b.CAL

| =====            |       |       |       |       |       |       |        |  |           |
|------------------|-------|-------|-------|-------|-------|-------|--------|--|-----------|
| Chan. Name Units |       |       | Zero  |       | Span  |       | Slope  |  | Int.      |
|                  |       |       | Conc. | Reso. | Conc. | Reso. |        |  |           |
| =====            |       |       |       |       |       |       |        |  |           |
| 1                | THC o | ppm   | 0     | 0     | 914   | 8.7   | 104.58 |  | -.0816    |
| 2                | THC i | ppm   | 0     | .04   | 45.5  | 9.2   | 4.97   |  | -.2226    |
| 3                | Flow  | inH2O | 0     | 2.96  | .4    | 3.2   | 1.97   |  | -5.8162   |
| 4                | Temp  | F     | 32    | 1.98  | 212   | 3.3   | 137.51 |  | -240.4591 |
| 5                | Resin | lb    | 0     | 1.46  | 600   | 4.3   | 212.27 |  | -310.8426 |
| 6                | Ps    | inH2O | 0     | .7    | -1.1  | .9    | -4.67  |  | 3.2787    |
| =====            |       |       |       |       |       |       |        |  |           |

CALIBRATION SUMMARY:

04-11-1997 07:34:28

CALIBRATION FILE NAME = c:\cendata\0411c.CAL

| Chan. | Name  | Units | Zero  |       | Span  |       | Slope  | Int.      |
|-------|-------|-------|-------|-------|-------|-------|--------|-----------|
|       |       |       | Conc. | Reso. | Conc. | Reso. |        |           |
| 1     | THC o | ppm   | 0     | 0     | 914   | 9.2   | 99.83  | -.0779    |
| 2     | THC i | ppm   | 0     | .04   | 45.5  | 9.2   | 4.97   | -.2226    |
| 3     | Flow  | inH2O | 0     | 2.96  | .4    | 3.2   | 1.97   | -5.8162   |
| 4     | Temp  | F     | 32    | 1.98  | 212   | 3.3   | 137.51 | -240.4591 |
| 5     | Resin | lb    | 0     | 1.46  | 600   | 4.3   | 212.27 | -310.8426 |
| 6     | Ps    | inH2O | 0     | .7    | -1.1  | .9    | -4.67  | 3.2787    |

## RADIANT CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-11-1997 Current Time = 07:37:04

File Name = c:\cemdata\041197.PRN Calibration File: c:\cemdata\0411c.CAL

Test #: Pre out-3 914

| 04-11-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 07:37:06           | 912.4        | 7.9          | 0.0           | 61.0      | 202.9       | -0.0        |
| 07:37:07           | 912.4        | 7.9          | 0.0           | 61.0      | 202.9       | -0.0        |
| 07:37:10           | 914.4        | 7.8          | 0.0           | 61.1      | 202.9       | -0.0        |
| 07:37:20           | 913.3        | 7.8          | 0.0           | 61.0      | 202.9       | -0.0        |
| 07:37:30           | 912.3        | 7.8          | 0.0           | 61.1      | 202.9       | -0.0        |
| 07:37:40           | 913.5        | 7.8          | 0.0           | 61.1      | 202.9       | -0.0        |
| 07:37:50           | 913.1        | 7.9          | 0.0           | 61.1      | 202.9       | -0.0        |
| 07:38:00           | 913.7        | 7.9          | 0.0           | 61.1      | 202.9       | -0.0        |
| 07:38:10           | 913.5        | 7.9          | 0.0           | 61.1      | 202.9       | -0.0        |
| Avg =              | 913.2        | 7.9          | 0.0           | 61.1      | 202.9       | -0.0        |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-11-1997 Current Time = 07:42:40

File Name = c:\ceadata\041197.PRN Calibration File: c:\ceadata\0411c.CAL

Test #: Pre 1 out 600 in 30.4

| 04-11-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 07:42:42           | 602.1        | 31.7         | 0.0           | 61.4      | 202.9       | -0.0        |
| 07:42:44           | 602.1        | 31.7         | 0.0           | 61.4      | 202.9       | -0.0        |
| 07:42:50           | 601.8        | 31.7         | 0.0           | 61.4      | 202.9       | -0.0        |
| 07:43:00           | 602.0        | 31.7         | 0.0           | 61.3      | 719.4       | -0.0        |
| 07:43:10           | 601.3        | 31.3         | 0.0           | 61.4      | 719.9       | -0.0        |
| 07:43:20           | 601.2        | 31.7         | 0.0           | 61.3      | 711.3       | -0.0        |
| 07:43:30           | 601.5        | 31.7         | 0.1           | 61.4      | 480.4       | -1.0        |
| 07:43:40           | 601.7        | 31.7         | 0.2           | 62.3      | -191.3      | -2.6        |
| 07:43:50           | 601.4        | 31.6         | 0.2           | 62.6      | -252.1      | -2.7        |
| Avg =              | 601.8        | 31.7         | 0.1           | 61.6      | 309.7       | -0.7        |

RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-11-1997 Current Time = 07:47:58  
 File Name = c:\cesdata\041197.PRN Calibration File: c:\cesdata\0411c.CAL

Test #: Pre-1 out 297 in 15

| 04-11-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 07:48:00           | 296.1        | 15.5         | 0.2           | 52.7      | -412.7      | -2.7        |
| 07:48:01           | 296.1        | 15.5         | 0.2           | 52.7      | -412.7      | -2.7        |
| 07:48:03           | 296.1        | 15.5         | 0.2           | 52.7      | -412.7      | -2.7        |
| 07:48:10           | 295.3        | 15.5         | 0.2           | 51.9      | -409.1      | -2.7        |
| 07:48:20           | 295.2        | 15.5         | 0.2           | 51.8      | -394.0      | -2.7        |
| 07:48:30           | 295.3        | 15.5         | 0.2           | 51.8      | -397.6      | -2.7        |
| 07:48:40           | 295.8        | 15.5         | 0.2           | 52.0      | -399.2      | -2.7        |
| 07:48:50           | 295.2        | 15.5         | 0.2           | 52.0      | -401.2      | -2.7        |
| 07:49:00           | 295.2        | 15.5         | 0.2           | 52.0      | -401.6      | -2.7        |
| 07:49:10           | 295.3        | 15.5         | 0.2           | 52.0      | -402.7      | -2.7        |
| 07:49:20           | 295.3        | 15.4         | 0.2           | 52.0      | -402.8      | -2.7        |
| 07:49:30           | 295.2        | 15.4         | 0.2           | 52.0      | -403.2      | -2.7        |
| 07:49:40           | 295.3        | 15.4         | 0.2           | 51.9      | -402.8      | -2.7        |
| 07:49:50           | 296.0        | 15.4         | 0.2           | 51.7      | -402.9      | -2.7        |
| 07:50:00           | 295.2        | 15.4         | 0.2           | 51.7      | -403.1      | -2.7        |
| 07:50:10           | 295.2        | 15.4         | 0.2           | 51.8      | -404.7      | -2.7        |
| Avg =              | 295.5        | 15.5         | 0.2           | 52.0      | -403.9      | -2.7        |

## RADIANT CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

CG Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-11-1997 Current Time = 07:53:31

File Name = c:\ceadata\041197.PRN Calibration File: c:\ceadata\0411c.CAL

Test #: Pre-1 out 0 in 0

| 04-11-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 07:53:34           | 0.0          | 0.1          | 0.2           | 51.6      | -449.7      | -2.7        |
| 07:53:35           | 0.0          | 0.1          | 0.2           | 51.6      | -449.7      | -2.7        |
| 07:53:40           | 0.0          | 0.1          | 0.2           | 51.5      | -486.1      | -2.7        |
| 07:53:50           | 0.0          | 0.1          | 0.2           | 51.4      | -432.7      | -2.7        |
| 07:54:00           | 0.0          | 0.1          | 0.2           | 51.6      | -435.1      | -2.7        |
| 07:54:10           | 0.0          | 0.1          | 0.2           | 51.7      | -437.1      | -2.7        |
| 07:54:20           | 0.0          | 0.1          | 0.2           | 51.7      | -438.4      | -2.7        |
| 07:54:30           | 0.0          | 0.0          | 0.2           | 51.9      | -439.0      | -2.7        |
| 07:54:40           | 0.0          | 0.0          | 0.2           | 52.0      | -441.3      | -2.7        |
| 07:54:50           | 0.0          | 0.0          | 0.2           | 52.0      | -439.3      | -2.7        |
| 07:55:00           | 0.0          | 0.0          | 0.2           | 52.0      | -439.3      | -2.7        |
| 07:55:10           | 0.0          | 0.0          | 0.2           | 52.0      | -439.6      | -2.7        |
| 07:55:20           | 0.0          | 0.0          | 0.2           | 52.0      | -439.9      | -2.7        |
| 07:55:30           | 0.0          | 0.0          | 0.2           | 51.9      | -440.0      | -2.7        |
| 07:55:40           | -0.0         | 0.0          | 0.2           | 51.9      | -439.8      | -2.7        |
| 07:55:50           | 0.0          | 0.0          | 0.2           | 51.8      | -440.1      | -2.7        |
| 07:56:00           | 0.0          | 0.0          | 0.2           | 51.7      | -440.0      | -2.7        |
| Avg =              | 0.0          | 0.0          | 0.2           | 51.8      | -442.8      | -2.7        |



RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-11-1997 Current Time = 09:03:26  
 File Name = c:\cendata\041197.PRN Calibration File: c:\cendata\0411c.CAL

0411-01  
 NMMA-6-2

Test #: 0411-01

| 04-11-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 09:04:00           | 3.4          | 4.2          | 0.2           | 67.3      | 270.4       | -2.7        |
| 09:05:00           | 3.0          | 4.2          | 0.2           | 67.2      | 270.4       | -2.7        |
| 09:06:00           | 3.6          | 4.2          | 0.2           | 67.4      | 270.2       | -2.5        |
| 09:07:00           | 24.9         | 4.1          | 0.2           | 67.3      | 268.9       | -2.7        |
| 09:08:00           | 39.7         | 4.1          | 0.2           | 67.5      | 267.9       | -2.7        |
| 09:09:00           | 39.9         | 4.1          | 0.2           | 67.7      | 267.6       | -2.7        |
| 09:10:00           | 41.5         | 4.1          | 0.2           | 67.7      | 267.6       | -2.7        |
| 09:11:00           | 39.0         | 4.1          | 0.2           | 67.9      | 267.8       | -2.6        |
| 09:12:00           | 71.8         | 4.0          | 0.2           | 68.0      | 267.1       | -2.5        |
| 09:13:00           | 97.0         | 4.0          | 0.2           | 68.1      | 266.2       | -2.6        |
| 09:14:00           | 113.8        | 3.9          | 0.2           | 68.2      | 265.3       | -2.5        |
| 09:15:00           | 145.3        | 4.0          | 0.2           | 68.2      | 264.5       | -2.6        |
| 09:16:00           | 146.1        | 4.0          | 0.2           | 68.3      | 263.2       | -2.5        |
| 09:17:00           | 156.5        | 3.9          | 0.2           | 68.3      | 262.4       | -2.6        |
| 09:18:00           | 170.3        | 3.9          | 0.2           | 68.4      | 261.6       | -2.5        |
| 09:19:00           | 184.4        | 3.9          | 0.2           | 68.5      | 261.0       | -2.6        |
| 09:20:00           | 181.6        | 3.8          | 0.2           | 68.5      | 260.1       | -2.5        |
| 09:21:00           | 207.3        | 3.9          | 0.2           | 68.6      | 258.7       | -2.6        |
| 09:22:00           | 231.7        | 3.8          | 0.2           | 68.7      | 257.5       | -2.5        |
| 09:23:00           | 240.6        | 3.8          | 0.2           | 68.8      | 256.9       | -2.6        |
| 09:24:00           | 217.0        | 3.8          | 0.2           | 68.9      | 256.9       | -2.5        |
| 09:25:00           | 192.2        | 3.8          | 0.2           | 69.0      | 256.8       | -2.6        |
| 09:26:00           | 187.2        | 3.8          | 0.2           | 69.0      | 256.8       | -2.7        |
| 09:27:00           | 178.2        | 3.8          | 0.2           | 69.1      | 256.6       | -2.6        |
| 09:28:00           | 184.6        | 3.7          | 0.2           | 69.1      | 255.9       | -2.5        |
| 09:29:00           | 209.1        | 3.7          | 0.2           | 69.0      | 254.7       | -2.6        |
| 09:30:00           | 231.1        | 3.7          | 0.2           | 69.3      | 253.5       | -2.5        |
| 09:31:00           | 254.6        | 3.6          | 0.2           | 69.4      | 252.3       | -2.6        |
| 09:32:00           | 263.1        | 3.6          | 0.2           | 69.3      | 251.7       | -2.7        |
| 09:33:00           | 245.0        | 3.6          | 0.2           | 69.5      | 251.7       | -2.7        |
| 09:34:00           | 223.4        | 3.6          | 0.2           | 69.7      | 251.7       | -2.7        |
| 09:35:00           | 206.9        | 3.6          | 0.2           | 69.7      | 251.7       | -2.7        |
| 09:36:00           | 189.4        | 3.6          | 0.2           | 69.8      | 251.7       | -2.7        |
| 09:37:00           | 180.8        | 3.6          | 0.2           | 69.8      | 251.7       | -2.7        |
| 09:38:00           | 158.9        | 3.6          | 0.2           | 69.8      | 251.7       | -2.7        |
| 09:39:00           | 161.5        | 3.6          | 0.2           | 69.9      | 251.7       | -2.7        |
| 09:40:00           | 147.4        | 3.6          | 0.2           | 69.9      | 251.7       | -2.7        |
| 09:41:00           | 136.9        | 3.6          | 0.2           | 70.0      | 251.7       | -2.7        |
| 09:42:00           | 129.3        | 3.5          | 0.2           | 70.1      | 251.7       | -2.7        |
| 09:43:00           | 123.9        | 3.5          | 0.2           | 70.2      | 251.7       | -2.7        |

Test #: 0411-01

| 04-11-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Pc<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 09:44:00           | 114.7        | 3.6          | 0.2           | 70.3      | 251.7       | -2.7        |
| 09:45:00           | 109.9        | 3.6          | 0.2           | 70.3      | 251.7       | -2.8        |
| 09:46:00           | 111.5        | 3.6          | 0.2           | 70.4      | 251.7       | -2.7        |
| 09:47:00           | 101.1        | 3.5          | 0.2           | 70.4      | 251.7       | -2.7        |
| 09:48:00           | 96.7         | 3.5          | 0.2           | 70.5      | 251.7       | -2.7        |
| 09:49:00           | 95.2         | 3.5          | 0.2           | 70.6      | 251.7       | -2.7        |
| 09:50:00           | 89.2         | 3.5          | 0.1           | 70.3      | 251.7       | -3.6        |
| 09:51:00           | 90.9         | 3.4          | 0.2           | 70.6      | 251.7       | -2.7        |
| 09:52:00           | 87.2         | 3.4          | 0.2           | 70.9      | 251.7       | -2.7        |
| 09:53:00           | 83.3         | 3.5          | 0.2           | 70.7      | 251.7       | -2.2        |
| 09:54:00           | 81.5         | 3.4          | 0.2           | 71.0      | 251.7       | -2.7        |
| 09:55:00           | 78.9         | 3.4          | 0.2           | 71.1      | 251.7       | -2.7        |
| 09:56:00           | 72.8         | 3.5          | 0.2           | 71.2      | 251.7       | -3.7        |
| 09:57:00           | 74.2         | 3.5          | 0.2           | 71.2      | 251.7       | -2.7        |
| 09:58:00           | 67.2         | 3.4          | 0.2           | 71.3      | 251.7       | -2.7        |
| 09:59:00           | 63.9         | 3.3          | 0.2           | 71.3      | 251.7       | -2.7        |
| 10:00:00           | 59.7         | 3.4          | 0.2           | 71.4      | 251.7       | -2.7        |
| 10:01:00           | 58.1         | 3.3          | 0.2           | 71.5      | 251.7       | -2.7        |
| 10:02:00           | 55.6         | 3.3          | 0.2           | 71.5      | 251.7       | -2.7        |
| 10:03:00           | 54.3         | 3.3          | 0.2           | 71.6      | 251.7       | -2.7        |
| 10:04:00           | 58.1         | 3.3          | 0.2           | 71.8      | 251.7       | -2.7        |
| 10:05:00           | 53.0         | 3.3          | 0.2           | 71.7      | 251.7       | -2.7        |
| 10:06:00           | 50.0         | 3.3          | 0.2           | 71.7      | 251.6       | -2.7        |
| 10:07:00           | 42.4         | 3.3          | 0.2           | 71.5      | 251.6       | -2.7        |
| 10:08:00           | 37.8         | 3.3          | 0.2           | 71.0      | 251.6       | -2.7        |
| 10:09:00           | 40.5         | 3.2          | 0.2           | 71.1      | 251.6       | -2.7        |
| 10:10:00           | 40.1         | 3.1          | 0.2           | 71.2      | 251.6       | -2.7        |
| 10:11:00           | 39.2         | 3.1          | 0.2           | 71.3      | 251.6       | -2.7        |
| 10:12:00           | 38.1         | 3.1          | 0.2           | 71.4      | 251.6       | -2.7        |
| 10:13:00           | 35.7         | 3.1          | 0.2           | 71.5      | 251.6       | -2.7        |
| 10:14:00           | 32.9         | 3.1          | 0.2           | 71.6      | 251.6       | -2.7        |
| 10:15:00           | 35.3         | 3.0          | 0.2           | 71.7      | 251.6       | -2.7        |
| 10:16:00           | 29.7         | 3.0          | 0.2           | 71.8      | 251.6       | -2.7        |
| 10:17:00           | 29.9         | 3.1          | 0.2           | 72.0      | 251.6       | -2.7        |
| 10:18:00           | 25.7         | 3.0          | 0.2           | 72.1      | 251.6       | -2.7        |
| 10:19:00           | 25.4         | 3.0          | 0.2           | 72.2      | 251.6       | -2.7        |
| 10:20:00           | 25.2         | 3.0          | 0.2           | 72.3      | 251.6       | -2.7        |
| 10:21:00           | 25.1         | 3.0          | 0.2           | 72.4      | 251.6       | -2.7        |
| 10:22:00           | 23.0         | 3.0          | 0.2           | 72.4      | 251.6       | -2.7        |
| 10:23:00           | 21.8         | 2.9          | 0.2           | 72.5      | 251.6       | -2.7        |
| 10:24:00           | 19.6         | 3.0          | 0.2           | 72.5      | 251.6       | -2.7        |
| 10:25:00           | 20.0         | 2.9          | 0.2           | 72.7      | 251.6       | -2.7        |
| 10:26:00           | 19.3         | 2.9          | 0.2           | 72.7      | 251.6       | -2.7        |
| 10:27:00           | 17.7         | 2.9          | 0.2           | 72.8      | 251.6       | -2.7        |
| 10:28:00           | 17.5         | 2.8          | 0.2           | 72.9      | 251.6       | -2.7        |
| 10:29:00           | 16.9         | 2.8          | 0.2           | 73.0      | 251.5       | -2.7        |
| 10:30:00           | 17.5         | 2.8          | 0.2           | 73.0      | 251.5       | -2.7        |
| 10:31:00           | 16.2         | 2.8          | 0.2           | 72.9      | 251.5       | -2.7        |
| 10:32:00           | 16.2         | 2.8          | 0.2           | 72.9      | 251.5       | -2.7        |
| 10:33:00           | 14.8         | 2.8          | 0.2           | 72.8      | 251.5       | -2.7        |
| 10:34:00           | 14.9         | 2.8          | 0.2           | 72.7      | 251.5       | -2.7        |
| 10:35:00           | 15.2         | 2.8          | 0.2           | 72.7      | 251.5       | -2.7        |
| 10:36:00           | 15.0         | 2.9          | 0.2           | 72.5      | 251.5       | -2.7        |
| 10:37:00           | 13.5         | 2.9          | 0.2           | 72.4      | 251.6       | -2.7        |
| 10:38:00           | 14.1         | 2.9          | 0.2           | 72.4      | 251.6       | -2.7        |
| 10:39:00           | 13.0         | 2.8          | 0.2           | 72.3      | 251.5       | -2.7        |

Test #: 0411-01

| 04-11-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 10:40:00           | 12.4         | 2.8          | 0.2           | 72.2      | 251.5       | -2.7        |
| 10:41:00           | 13.0         | 2.8          | 0.2           | 72.1      | 251.5       | -2.7        |
| 10:42:00           | 12.9         | 2.8          | 0.2           | 72.1      | 251.5       | -2.7        |
| 10:43:00           | 12.0         | 2.8          | 0.2           | 72.0      | 251.5       | -2.7        |
| 10:44:00           | 11.6         | 2.8          | 0.2           | 71.8      | 251.5       | -2.7        |
| 10:45:00           | 11.4         | 2.8          | 0.2           | 71.7      | 251.5       | -2.7        |
| 10:46:00           | 11.3         | 2.8          | 0.2           | 71.7      | 251.5       | -2.8        |
| 10:47:00           | 10.8         | 2.8          | 0.2           | 71.2      | 251.5       | -2.8        |
| 10:48:00           | 9.9          | 2.8          | 0.2           | 70.1      | 251.5       | -2.8        |
| 10:49:00           | 8.6          | 2.7          | 0.2           | 69.4      | 251.5       | -2.8        |
| 10:50:00           | 9.9          | 2.5          | 0.2           | 68.8      | 251.5       | -2.8        |
| 10:51:00           | 10.1         | 2.4          | 0.2           | 68.5      | 251.5       | -2.8        |
| 10:52:00           | 9.9          | 2.3          | 0.2           | 68.3      | 251.5       | -2.8        |
| 10:53:00           | 10.5         | 2.2          | 0.2           | 67.9      | 251.5       | -2.8        |
| 10:54:00           | 9.9          | 2.0          | 0.2           | 67.4      | 251.5       | -2.8        |
| 10:55:00           | 10.1         | 2.0          | 0.2           | 67.2      | 251.5       | -2.8        |
| 10:56:00           | 9.4          | 2.0          | 0.2           | 66.9      | 251.5       | -2.8        |
| 10:57:00           | 9.4          | 1.9          | 0.2           | 66.9      | 251.5       | -2.8        |
| 10:58:00           | 9.2          | 1.9          | 0.2           | 66.9      | 251.5       | -2.8        |
| 10:59:00           | 9.2          | 1.9          | 0.2           | 67.0      | 251.5       | -2.8        |
| 11:00:00           | 8.7          | 1.8          | 0.2           | 66.9      | 251.5       | -2.8        |
| 11:01:00           | 8.0          | 1.8          | 0.2           | 66.9      | 251.5       | -2.8        |
| 11:02:00           | 8.1          | 1.7          | 0.2           | 66.9      | 251.5       | -2.8        |
| 11:03:00           | 7.7          | 1.7          | 0.2           | 67.0      | 251.5       | -2.8        |
| 11:04:00           | 6.8          | 1.7          | 0.2           | 66.7      | 251.5       | -2.8        |
| 11:05:00           | 5.7          | 1.6          | 0.2           | 66.4      | 251.5       | -2.8        |
| Avg =              | 73.0         | 3.2          | 0.2           | 70.1      | 254.0       | -2.7        |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-11-1997 Current Time = 11:14:06

File Name = c:\cendata\041197.PRM Calibration File:c:\cendata\0411c.CAL

Test #: Post-1 out 297 in 15.0

| 04-11-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 11:14:08           | 296.1        | 15.2         | 0.2           | 62.7      | -439.0      | -2.8        |
| 11:14:10           | 296.0        | 15.2         | 0.2           | 62.4      | -455.3      | -2.8        |
| 11:14:20           | 296.0        | 15.2         | 0.2           | 62.1      | -398.0      | -2.8        |
| 11:14:30           | 296.0        | 15.2         | 0.2           | 61.6      | -397.0      | -2.8        |
| 11:14:40           | 296.0        | 15.1         | 0.2           | 61.6      | -400.0      | -2.8        |
| 11:14:50           | 296.0        | 15.1         | 0.2           | 61.3      | -401.2      | -2.8        |
| 11:15:00           | 295.7        | 15.1         | 0.2           | 61.2      | -402.9      | -2.8        |
| 11:15:10           | 295.3        | 15.1         | 0.2           | 61.3      | -402.9      | -2.8        |
| 11:15:20           | 296.0        | 15.1         | 0.2           | 61.4      | -403.6      | -2.8        |
| 11:15:30           | 295.2        | 15.1         | 0.2           | 61.6      | -404.1      | -2.8        |
| Avg =              | 295.8        | 15.1         | 0.2           | 61.7      | -410.4      | -2.8        |

RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-11-1997 Current Time = 11:18:05  
 File Name = c:\ce\data\041197.PRW Calibration File: c:\ce\data\0411c.CAL

Test #: Post-1 out 600 in 30.4

| 04-11-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 11:18:07           | 608.6        | 30.4         | 0.2           | 62.2      | -372.7      | -2.8        |
| 11:18:08           | 608.6        | 30.4         | 0.2           | 62.2      | -372.7      | -2.8        |
| 11:18:10           | 607.8        | 30.3         | 0.2           | 62.7      | -411.6      | -2.8        |
| 11:18:20           | 608.3        | 30.4         | 0.2           | 62.7      | -360.9      | -2.8        |
| 11:18:30           | 607.9        | 30.4         | 0.2           | 62.8      | -356.7      | -2.8        |
| 11:18:40           | 607.8        | 30.4         | 0.2           | 62.9      | -355.7      | -2.8        |
| 11:18:50           | 608.0        | 30.4         | 0.2           | 63.1      | -355.4      | -2.8        |
| 11:19:00           | 608.2        | 30.4         | 0.2           | 63.2      | -354.7      | -2.8        |
| 11:19:10           | 607.8        | 30.4         | 0.2           | 63.4      | -354.3      | -2.8        |
| 11:19:20           | 608.3        | 30.4         | 0.2           | 63.5      | -354.2      | -2.8        |
| Avg =              | 608.1        | 30.4         | 0.2           | 62.9      | -364.9      | -2.8        |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-11-1997 Current Time = 11:22:55

File Name = c:\ce\data\041197.PRN Calibration File: c:\ce\data\0411c.CAL

Test #: Post-1 out 914 in 45.5

| 04-11-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 11:22:58           | 894.9        | 45.3         | 0.4           | 75.1      | 1809.9      | -3.4        |
| 11:22:59           | 894.9        | 45.3         | 0.4           | 75.1      | 1809.9      | -3.4        |
| 11:23:00           | 894.9        | 45.3         | 0.4           | 75.1      | 1809.9      | -3.4        |
| 11:23:10           | 894.3        | 45.3         | 0.4           | 75.5      | 1809.8      | -3.4        |
| 11:23:20           | 894.3        | 45.3         | 0.4           | 75.8      | 1809.8      | -3.4        |
| 11:23:30           | 894.1        | 45.3         | 0.4           | 75.0      | 1809.9      | -3.4        |
| 11:23:40           | 894.2        | 45.3         | 0.4           | 75.3      | 1809.9      | -3.4        |
| 11:23:50           | 894.7        | 45.3         | 0.4           | 75.3      | 1809.9      | -3.4        |
| 11:24:00           | 894.6        | 45.3         | 0.4           | 75.1      | 1809.9      | -3.4        |
| 11:24:10           | 894.7        | 45.3         | 0.4           | 75.3      | 1809.9      | -3.4        |
| Avg =              | 894.6        | 45.3         | 0.4           | 75.3      | 1809.9      | -3.4        |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-11-1997 Current Time = 11:32:26

File Name = c:\ce\data\041197.PRM Calibration File: c:\ce\data\0411c.CAL

Test #: Post-1 out 0 in 0

| 04-11-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 11:32:30           | -0.0         | 0.1          | 0.2           | 64.0      | -445.1      | -3.0        |
| 11:32:31           | -0.0         | 0.1          | 0.2           | 64.0      | -445.1      | -3.0        |
| 11:32:40           | -0.0         | 0.1          | 0.2           | 63.0      | -426.3      | -3.0        |
| 11:32:50           | 0.0          | 0.1          | 0.2           | 62.8      | -418.1      | -3.0        |
| 11:33:00           | 0.0          | 0.1          | 0.2           | 62.8      | -435.4      | -3.0        |
| 11:33:10           | -0.0         | 0.1          | 0.2           | 62.9      | -450.3      | -3.0        |
| 11:33:20           | 0.0          | 0.1          | 0.3           | 62.9      | -270.1      | -3.0        |
| 11:33:30           | 0.0          | 0.1          | 0.2           | 62.9      | -383.1      | -3.0        |
| 11:33:40           | 0.0          | 0.1          | 0.2           | 62.8      | 303.7       | -3.0        |
| 11:33:50           | 0.0          | 0.1          | 0.2           | 62.8      | 378.3       | -3.0        |
| Avg =              | 0.0          | 0.1          | 0.2           | 63.1      | -259.1      | -3.0        |

0411-2  
NMAA-14-2

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMAA

Date Printed = 04-11-1997 Current Time = 11:55:51

File Name = c:\ceadata\041197.PRM Calibration File: c:\ceadata\0411c.CAL

Test #: 0411-02

| 04-11-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 11:56:00           | 1.1          | 1.5          | 0.2           | 66.0      | 378.9       | -3.0        |
| 11:57:00           | 1.4          | 1.5          | 0.2           | 66.1      | 378.8       | -3.0        |
| 11:58:00           | 9.5          | 1.6          | 0.2           | 66.1      | 375.6       | -3.0        |
| 11:59:00           | 26.6         | 1.6          | 0.2           | 66.1      | 370.8       | -3.0        |
| 12:00:00           | 62.0         | 1.6          | 0.2           | 66.0      | 364.8       | -3.0        |
| 12:01:00           | 74.0         | 1.6          | 0.2           | 66.0      | 361.6       | -3.0        |
| 12:02:00           | 90.7         | 1.6          | 0.2           | 66.0      | 357.7       | -3.0        |
| 12:03:00           | 97.6         | 1.5          | 0.2           | 65.9      | 353.9       | -3.0        |
| 12:04:00           | 114.6        | 1.5          | 0.2           | 65.9      | 352.1       | -3.0        |
| 12:05:00           | 131.4        | 1.5          | 0.2           | 65.9      | 348.3       | -3.0        |
| 12:06:00           | 165.7        | 1.5          | 0.2           | 65.8      | 343.6       | -3.0        |
| 12:07:00           | 178.9        | 1.5          | 0.2           | 65.8      | 340.5       | -3.0        |
| 12:08:00           | 174.1        | 1.5          | 0.2           | 65.6      | 340.5       | -3.0        |
| 12:09:00           | 174.2        | 1.5          | 0.2           | 65.5      | 337.7       | -3.0        |
| 12:10:00           | 157.1        | 1.5          | 0.2           | 65.5      | 335.4       | -3.0        |
| 12:11:00           | 174.0        | 1.5          | 0.2           | 65.4      | 335.4       | -3.0        |
| 12:12:00           | 170.4        | 1.5          | 0.2           | 65.4      | 335.4       | -3.0        |
| 12:13:00           | 159.4        | 1.5          | 0.2           | 65.3      | 335.5       | -3.0        |
| 12:14:00           | 156.7        | 1.5          | 0.2           | 65.3      | 335.4       | -3.0        |
| 12:15:00           | 148.8        | 1.5          | 0.2           | 65.2      | 335.4       | -3.0        |
| 12:16:00           | 143.9        | 1.4          | 0.2           | 65.2      | 335.4       | -3.0        |
| 12:17:00           | 131.9        | 1.4          | 0.2           | 65.1      | 335.4       | -3.0        |
| 12:18:00           | 123.8        | 1.5          | 0.2           | 65.1      | 335.3       | -3.0        |
| 12:19:00           | 125.7        | 1.6          | 0.2           | 65.2      | 335.5       | -3.0        |
| 12:20:00           | 123.4        | 1.6          | 0.2           | 65.5      | 335.5       | -3.0        |
| 12:21:00           | 115.7        | 1.6          | 0.2           | 65.6      | 335.5       | -3.0        |
| 12:22:00           | 109.2        | 1.6          | 0.2           | 65.7      | 335.5       | -3.0        |
| 12:23:00           | 106.1        | 1.5          | 0.2           | 65.7      | 335.5       | -3.0        |
| 12:24:00           | 100.1        | 1.5          | 0.2           | 65.6      | 335.5       | -3.0        |
| 12:25:00           | 93.7         | 1.5          | 0.2           | 65.6      | 335.5       | -3.0        |
| 12:26:00           | 93.5         | 1.5          | 0.2           | 65.6      | 335.5       | -3.0        |
| 12:27:00           | 87.1         | 1.5          | 0.2           | 65.7      | 335.5       | -3.0        |
| 12:28:00           | 83.3         | 1.4          | 0.2           | 65.7      | 335.5       | -3.0        |
| 12:29:00           | 84.2         | 1.4          | 0.2           | 65.7      | 335.5       | -3.0        |
| 12:30:00           | 79.1         | 1.4          | 0.2           | 65.7      | 335.5       | -3.0        |
| 12:31:00           | 76.7         | 1.4          | 0.2           | 65.7      | 335.5       | -3.0        |
| 12:32:00           | 74.6         | 1.4          | 0.2           | 65.7      | 335.5       | -3.0        |
| 12:33:00           | 75.3         | 1.4          | 0.2           | 65.8      | 335.5       | -3.0        |
| 12:34:00           | 71.9         | 1.4          | 0.2           | 65.8      | 335.5       | -3.0        |
| 12:35:00           | 69.5         | 1.4          | 0.2           | 65.9      | 335.5       | -3.0        |



Test #: 0411-02

| 04-11-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 12:36:00           | 67.1         | 1.4          | 0.2           | 65.8      | 335.5       | -3.0        |
| 12:37:00           | 64.9         | 1.4          | 0.2           | 65.8      | 335.5       | -3.0        |
| 12:38:00           | 62.4         | 1.4          | 0.2           | 65.8      | 335.5       | -3.0        |
| 12:39:00           | 60.8         | 1.4          | 0.2           | 65.8      | 335.5       | -3.0        |
| 12:40:00           | 61.0         | 1.4          | 0.2           | 65.8      | 335.5       | -3.0        |
| 12:41:00           | 60.2         | 1.4          | 0.2           | 65.8      | 335.5       | -3.0        |
| 12:42:00           | 56.9         | 1.4          | 0.2           | 65.6      | 335.5       | -3.0        |
| 12:43:00           | 54.2         | 1.4          | 0.2           | 65.5      | 335.5       | -3.0        |
| 12:44:00           | 54.4         | 1.4          | 0.2           | 65.5      | 335.5       | -3.0        |
| 12:45:00           | 52.4         | 1.4          | 0.2           | 65.4      | 335.5       | -3.0        |
| 12:46:00           | 51.7         | 1.4          | 0.2           | 65.3      | 335.5       | -3.0        |
| 12:47:00           | 50.6         | 1.4          | 0.2           | 65.3      | 335.5       | -3.0        |
| 12:48:00           | 50.5         | 1.4          | 0.2           | 65.4      | 335.5       | -3.0        |
| 12:49:00           | 48.8         | 1.4          | 0.2           | 65.4      | 335.5       | -3.0        |
| 12:50:00           | 45.3         | 1.4          | 0.2           | 65.4      | 335.5       | -3.0        |
| 12:51:00           | 43.5         | 1.4          | 0.2           | 65.3      | 335.5       | -3.0        |
| 12:52:00           | 43.2         | 1.3          | 0.2           | 65.4      | 335.5       | -3.0        |
| 12:53:00           | 42.5         | 1.3          | 0.2           | 65.4      | 335.5       | -3.0        |
| 12:54:00           | 39.9         | 1.3          | 0.2           | 65.5      | 335.4       | -3.0        |
| 12:55:00           | 36.8         | 1.4          | 0.2           | 65.5      | 335.6       | -3.0        |
| 12:56:00           | 42.5         | 1.4          | 0.2           | 65.6      | 333.7       | -3.0        |
| 12:57:00           | 54.8         | 1.4          | 0.2           | 65.5      | 328.7       | -3.0        |
| 12:58:00           | 74.1         | 1.4          | 0.2           | 65.6      | 323.7       | -3.0        |
| 12:59:00           | 89.0         | 1.3          | 0.2           | 65.7      | 319.1       | -3.0        |
| 13:00:00           | 111.8        | 1.3          | 0.2           | 65.8      | 313.8       | -3.0        |
| 13:01:00           | 131.1        | 1.3          | 0.2           | 65.8      | 308.0       | -3.0        |
| 13:02:00           | 137.5        | 1.3          | 0.2           | 65.9      | 304.6       | -3.0        |
| 13:03:00           | 161.3        | 1.3          | 0.2           | 66.0      | 300.4       | -3.0        |
| 13:04:00           | 148.9        | 1.3          | 0.2           | 65.9      | 296.7       | -3.0        |
| 13:05:00           | 161.6        | 1.3          | 0.2           | 66.0      | 291.7       | -3.0        |
| 13:06:00           | 180.3        | 1.3          | 0.2           | 66.0      | 286.7       | -3.0        |
| 13:07:00           | 161.2        | 1.3          | 0.2           | 65.9      | 285.5       | -3.0        |
| 13:08:00           | 181.1        | 1.3          | 0.2           | 66.0      | 285.4       | -3.0        |
| 13:09:00           | 177.3        | 1.3          | 0.2           | 66.1      | 284.6       | -3.0        |
| 13:10:00           | 182.8        | 1.3          | 0.2           | 66.1      | 280.3       | -3.0        |
| 13:11:00           | 198.3        | 1.3          | 0.2           | 66.2      | 275.9       | -3.0        |
| 13:12:00           | 227.4        | 1.3          | 0.2           | 66.2      | 270.7       | -3.0        |
| 13:13:00           | 245.6        | 1.3          | 0.2           | 66.2      | 265.0       | -3.0        |
| 13:14:00           | 252.3        | 1.3          | 0.2           | 66.1      | 261.6       | -3.0        |
| 13:15:00           | 227.1        | 1.3          | 0.2           | 65.9      | 261.5       | -3.0        |
| 13:16:00           | 218.0        | 1.3          | 0.2           | 65.8      | 261.5       | -3.0        |
| 13:17:00           | 210.9        | 1.3          | 0.2           | 65.9      | 261.5       | -3.0        |
| 13:18:00           | 195.0        | 1.3          | 0.2           | 65.9      | 261.5       | -3.0        |
| 13:19:00           | 192.1        | 1.3          | 0.2           | 65.9      | 261.5       | -3.0        |
| 13:20:00           | 178.5        | 1.4          | 0.2           | 65.9      | 261.5       | -3.0        |
| 13:21:00           | 173.3        | 1.4          | 0.2           | 65.9      | 261.5       | -3.0        |
| 13:22:00           | 163.7        | 1.4          | 0.2           | 65.9      | 261.5       | -3.0        |
| 13:23:00           | 162.3        | 1.4          | 0.2           | 66.0      | 261.5       | -3.0        |
| 13:24:00           | 145.4        | 1.4          | 0.2           | 66.1      | 261.5       | -3.0        |
| 13:25:00           | 146.0        | 1.4          | 0.2           | 66.2      | 261.4       | -3.0        |
| 13:26:00           | 136.1        | 1.4          | 0.2           | 66.2      | 261.3       | -3.0        |
| 13:27:00           | 128.5        | 1.4          | 0.2           | 66.2      | 261.3       | -3.0        |
| 13:28:00           | 120.0        | 1.4          | 0.2           | 66.1      | 261.3       | -3.0        |
| 13:29:00           | 114.8        | 1.4          | 0.2           | 66.1      | 261.3       | -3.0        |
| 13:30:00           | 112.3        | 1.4          | 0.2           | 66.1      | 261.3       | -2.7        |
| 13:31:00           | 105.9        | 1.3          | 0.2           | 66.1      | 261.3       | -2.7        |

Test #: 0411-02

| 04-11-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 13:32:00           | 101.4        | 1.3          | 0.2           | 66.1      | 261.3       | -2.7        |
| 13:33:00           | 95.3         | 1.3          | 0.2           | 65.9      | 261.3       | -2.8        |
| 13:34:00           | 93.6         | 1.3          | 0.2           | 65.7      | 261.3       | -2.8        |
| 13:35:00           | 92.4         | 1.3          | 0.2           | 65.5      | 261.3       | -2.8        |
| 13:36:00           | 89.3         | 1.3          | 0.2           | 65.5      | 261.3       | -2.8        |
| 13:37:00           | 89.0         | 1.3          | 0.2           | 65.5      | 261.3       | -2.8        |
| 13:38:00           | 85.5         | 1.2          | 0.1           | 65.5      | 261.3       | -2.2        |
| 13:39:00           | 80.3         | 1.3          | 0.2           | 65.7      | 261.3       | -2.8        |
| 13:40:00           | 79.8         | 1.3          | 0.2           | 65.7      | 261.3       | -2.8        |
| 13:41:00           | 74.2         | 1.3          | 0.1           | 65.8      | 261.3       | -2.3        |
| 13:42:00           | 71.7         | 1.3          | 0.2           | 65.5      | 261.3       | -2.8        |
| 13:43:00           | 68.7         | 1.3          | 0.2           | 65.5      | 261.3       | -2.8        |
| 13:44:00           | 65.9         | 1.3          | 0.2           | 65.5      | 261.3       | -2.7        |
| 13:45:00           | 63.6         | 1.2          | 0.2           | 65.7      | 261.3       | -2.8        |
| 13:46:00           | 63.1         | 1.2          | 0.2           | 65.9      | 261.3       | -2.8        |
| 13:47:00           | 58.2         | 1.2          | 0.2           | 65.9      | 261.3       | -2.8        |
| 13:48:00           | 54.0         | 1.2          | 0.2           | 65.9      | 261.3       | -2.8        |
| 13:49:00           | 52.5         | 1.2          | 0.2           | 65.9      | 261.3       | -2.8        |
| 13:50:00           | 50.3         | 1.2          | 0.2           | 66.0      | 261.3       | -2.8        |
| 13:51:00           | 46.8         | 1.2          | 0.2           | 66.1      | 261.3       | -2.8        |
| 13:52:00           | 42.3         | 1.2          | 0.2           | 66.0      | 261.3       | -2.8        |
| 13:53:00           | 39.0         | 1.2          | 0.2           | 65.8      | 261.3       | -2.8        |
| 13:54:00           | 37.2         | 1.2          | 0.2           | 65.8      | 261.3       | -2.8        |
| 13:55:00           | 36.4         | 1.2          | 0.2           | 66.0      | 261.3       | -3.0        |
| 13:56:00           | 32.9         | 1.2          | 0.2           | 66.0      | 261.3       | -2.9        |
| 13:57:00           | 30.6         | 1.2          | 0.2           | 66.0      | 261.3       | -2.8        |
| 13:58:00           | 28.4         | 1.2          | 0.2           | 65.9      | 261.3       | -2.8        |
| 13:59:00           | 26.4         | 1.2          | 0.2           | 65.9      | 261.3       | -2.7        |
| 14:00:00           | 24.9         | 1.2          | 0.2           | 65.9      | 261.3       | -2.8        |
| 14:01:00           | 23.7         | 1.2          | 0.2           | 65.9      | 261.3       | -2.8        |
| 14:02:00           | 22.0         | 1.2          | 0.2           | 66.0      | 261.3       | -2.8        |
| 14:03:00           | 21.0         | 1.1          | 0.2           | 66.0      | 261.4       | -2.8        |
| 14:04:00           | 19.9         | 1.1          | 0.2           | 66.2      | 261.4       | -2.7        |
| 14:05:00           | 18.8         | 1.1          | 0.2           | 66.3      | 261.3       | -2.7        |
| 14:06:00           | 17.7         | 1.1          | 0.2           | 66.4      | 261.3       | -2.7        |
| 14:07:00           | 16.0         | 1.1          | 0.2           | 66.4      | 261.3       | -2.7        |
| 14:08:00           | 14.7         | 1.1          | 0.2           | 66.4      | 261.4       | -2.7        |
| 14:09:00           | 13.8         | 1.1          | 0.2           | 66.5      | 261.4       | -2.7        |
| 14:10:00           | 13.3         | 1.1          | 0.2           | 66.6      | 261.4       | -2.7        |
| 14:11:00           | 12.3         | 1.1          | 0.2           | 66.6      | 261.4       | -2.8        |
| 14:12:00           | 11.4         | 1.1          | 0.2           | 66.6      | 261.3       | -2.7        |
| 14:13:00           | 10.9         | 1.1          | 0.2           | 66.7      | 261.3       | -2.8        |
| 14:14:00           | 10.3         | 1.1          | 0.2           | 66.7      | 261.3       | -2.8        |
| 14:15:00           | 9.9          | 1.1          | 0.2           | 66.8      | 261.4       | -2.8        |
| 14:16:00           | 9.0          | 1.1          | 0.2           | 66.6      | 261.4       | -2.8        |
| 14:17:00           | 8.0          | 1.1          | 0.2           | 66.4      | 261.4       | -2.8        |
| 14:18:00           | 7.9          | 1.1          | 0.2           | 66.3      | 261.3       | -2.8        |
| 14:19:00           | 7.7          | 1.1          | 0.2           | 66.2      | 261.3       | -2.8        |
| 14:20:00           | 6.8          | 1.0          | 0.2           | 66.2      | 261.3       | -2.8        |
| Avg =              | 89.7         | 1.3          | 0.2           | 65.8      | 298.6       | -2.9        |

RADIANT CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-11-1997 Current Time = 14:34:28  
 File Name = c:\cemdata\041197.PRN Calibration File: c:\cemdata\0411c.CAL

Test #: Post-2 out 0 in 0

| 04-11-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 14:34:33           | -0.0         | 0.2          | 0.2           | 65.2      | -477.4      | -2.7        |
| 14:34:35           | 0.0          | 0.2          | 0.2           | 65.2      | -525.9      | -2.7        |
| 14:34:45           | -0.0         | 0.1          | 0.2           | 65.3      | -445.2      | -2.7        |
| 14:34:55           | -0.0         | 0.1          | 0.2           | 65.3      | -437.1      | -2.7        |
| 14:35:05           | -0.0         | 0.1          | 0.2           | 65.3      | -439.5      | -2.7        |
| 14:35:15           | -0.0         | 0.1          | 0.2           | 65.3      | -440.5      | -2.7        |
| 14:35:25           | -0.0         | 0.1          | 0.2           | 65.3      | -441.5      | -2.7        |
| 14:35:35           | -0.0         | 0.1          | 0.2           | 65.4      | -442.3      | -2.7        |
| 14:35:45           | 0.0          | 0.1          | 0.2           | 65.4      | -442.7      | -2.7        |
| Avg =              | -0.0         | 0.1          | 0.2           | 65.3      | -454.7      | -2.7        |

RADIAN CORPORATION  
Environmental Measurement and Analysis Department  
Continuous Emissions Monitoring Data

6 Marine  
Arlington, WA

Performed for: NMMA

Date Printed = 04-11-1997 Current Time = 14:39:08

File Name = c:\ceadata\041197.PRN Calibration File: c:\ceadata\0411c.CAL

Test #: Post-2 out 914 in 30.4

455

| 04-11-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 14:39:13           | 894.8        | 45.1         | 0.3           | 73.1      | 1810.4      | -2.9        |
| 14:39:14           | 894.8        | 45.1         | 0.3           | 73.1      | 1810.4      | -2.9        |
| 14:39:16           | 894.8        | 45.1         | 0.3           | 73.1      | 1810.4      | -2.9        |
| 14:39:25           | 894.5        | 45.1         | 0.3           | 72.8      | 1810.3      | -3.0        |
| 14:39:35           | 894.2        | 45.1         | 0.3           | 72.9      | 1810.3      | -3.0        |
| 14:39:45           | 894.0        | 45.1         | 0.3           | 73.0      | 1810.3      | -3.0        |
| 14:39:55           | 893.6        | 45.2         | 0.3           | 73.1      | 1810.3      | -3.0        |
| 14:40:05           | 893.4        | 45.2         | 0.3           | 73.3      | 1810.3      | -3.0        |
| 14:40:15           | 893.1        | 45.2         | 0.3           | 73.3      | 1810.2      | -3.0        |
| 14:40:25           | 893.4        | 45.2         | 0.3           | 73.3      | 1810.3      | -3.0        |
| Avg =              | 894.1        | 45.2         | 0.3           | 73.1      | 1810.3      | -3.0        |

RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-11-1997 Current Time = 14:42:49  
 File Name = c:\cendata\041197.PRN Calibration File: c:\cendata\0411c.CAL

Test #: Post-2 out 600 in 30.4

| 04-11-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 14:42:55           | 605.9        | 30.4         | 0.2           | 65.3      | -398.3      | -2.7        |
| 14:42:56           | 605.9        | 30.4         | 0.2           | 65.3      | -398.3      | -2.7        |
| 14:43:05           | 605.0        | 30.5         | 0.2           | 65.3      | -370.3      | -2.7        |
| 14:43:15           | 605.7        | 30.4         | 0.2           | 65.3      | -362.4      | -2.8        |
| 14:43:25           | 605.4        | 30.5         | 0.2           | 65.3      | -360.3      | -2.8        |
| 14:43:35           | 604.6        | 30.5         | 0.2           | 65.3      | -358.8      | -2.7        |
| 14:43:45           | 604.3        | 30.5         | 0.2           | 65.4      | -357.2      | -2.7        |
| 14:43:55           | 605.6        | 30.5         | 0.2           | 65.4      | -355.8      | -2.8        |
| 14:44:05           | 605.2        | 30.5         | 0.2           | 65.4      | -354.0      | -2.7        |
| Avg =              | 605.3        | 30.5         | 0.2           | 65.3      | -368.4      | -2.7        |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-11-1997 Current Time = 14:47:01

File Name = c:\ceadata\041197.PRM Calibration File: c:\ceadata\0411c.CAL

Test #: Post-2 out 297 in 15.0

| 04-11-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 14:47:07           | 297.0        | 15.1         | 0.2           | 65.4      | -421.8      | -2.7        |
| 14:47:08           | 297.0        | 15.1         | 0.2           | 65.4      | -421.8      | -2.7        |
| 14:47:15           | 297.0        | 15.1         | 0.2           | 65.5      | -410.8      | -2.6        |
| 14:47:25           | 296.3        | 15.1         | 0.2           | 65.5      | -392.3      | -2.7        |
| 14:47:35           | 296.2        | 15.0         | 0.2           | 65.6      | -396.9      | -2.7        |
| 14:47:45           | 296.1        | 15.0         | 0.2           | 65.6      | -400.1      | -2.7        |
| 14:47:55           | 296.0        | 15.0         | 0.2           | 65.6      | -401.4      | -2.7        |
| 14:48:05           | 296.1        | 15.0         | 0.2           | 65.6      | -402.0      | -2.7        |
| 14:48:15           | 296.1        | 15.0         | 0.2           | 65.6      | -402.3      | -2.7        |
| 14:48:25           | 296.1        | 15.0         | 0.2           | 65.5      | -403.3      | -2.7        |
| 14:48:35           | 296.1        | 15.0         | 0.2           | 65.4      | -403.4      | -2.7        |
| 14:48:45           | 296.1        | 15.0         | 0.2           | 65.2      | -403.4      | -2.7        |
| 14:48:55           | 296.1        | 15.0         | 0.2           | 65.1      | -403.9      | -2.7        |
| Avg =              | 296.3        | 15.0         | 0.2           | 65.5      | -404.9      | -2.7        |

0411-03  
NMMA-13-2

RADIAN CORPORATION  
Environmental Measurement and Analysis Department  
Continuous Emissions Monitoring Data  
US Marine  
Arlington, WA  
Performed for: NMMA  
Date Printed = 04-11-1997 Current Time = 15:31:40  
File Name = c:\cendata\041197.PRN Calibration File: c:\cendata\0411c.CAL

Test #: 0411-03

| 04-11-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 15:32:05           | 0.0          | 1.2          | 0.2           | 64.9      | -458.6      | -2.7        |
| 15:33:05           | 0.2          | 1.2          | 0.2           | 65.0      | -439.5      | -2.7        |
| 15:34:05           | 1.0          | 1.3          | 0.2           | 65.1      | -445.9      | -2.7        |
| 15:35:05           | 0.8          | 1.3          | 0.2           | 65.3      | -443.7      | -2.7        |
| 15:36:05           | 1.1          | 1.3          | 0.2           | 65.4      | -443.2      | -2.7        |
| 15:37:05           | 1.1          | 1.3          | 0.2           | 65.4      | -442.9      | -2.7        |
| 15:38:05           | 1.1          | 1.3          | 0.2           | 65.3      | -442.6      | -2.7        |
| 15:39:05           | 1.1          | 1.4          | 0.2           | 65.3      | -441.9      | -2.7        |
| 15:40:05           | 1.1          | 1.5          | 0.2           | 65.3      | -42.4       | -2.7        |
| 15:41:05           | 1.1          | 1.2          | 0.2           | 65.4      | 354.4       | -2.7        |
| 15:42:05           | 1.1          | 1.2          | 0.2           | 65.5      | 354.6       | -2.8        |
| 15:43:05           | 4.3          | 1.1          | 0.2           | 65.7      | 352.0       | -2.8        |
| 15:44:05           | 23.2         | 1.1          | 0.2           | 65.8      | 346.5       | -2.8        |
| 15:45:05           | 67.8         | 1.1          | 0.2           | 65.8      | 343.0       | -2.8        |
| 15:46:05           | 82.1         | 1.1          | 0.2           | 65.8      | 339.3       | -2.8        |
| 15:47:05           | 112.6        | 1.1          | 0.2           | 65.8      | 334.7       | -2.8        |
| 15:48:05           | 116.6        | 1.1          | 0.2           | 65.8      | 331.8       | -2.8        |
| 15:49:05           | 117.6        | 1.1          | 0.2           | 65.8      | 331.7       | -2.8        |
| 15:50:05           | 111.6        | 1.1          | 0.2           | 65.9      | 331.7       | -2.7        |
| 15:51:05           | 111.1        | 1.0          | 0.2           | 65.9      | 331.4       | -2.8        |
| 15:52:05           | 122.1        | 1.0          | 0.2           | 65.9      | 332.5       | -2.8        |
| 15:53:05           | 114.1        | 1.0          | 0.2           | 66.0      | 330.6       | -2.8        |
| 15:54:05           | 151.4        | 1.0          | 0.2           | 66.0      | 324.6       | -2.8        |
| 15:55:05           | 174.8        | 1.0          | 0.2           | 66.0      | 318.6       | -2.7        |
| 15:56:05           | 193.7        | 1.0          | 0.2           | 65.9      | 313.2       | -2.7        |
| 15:57:05           | 240.7        | 1.0          | 0.2           | 65.9      | 308.2       | -2.8        |
| 15:58:05           | 251.3        | 1.0          | 0.2           | 65.9      | 304.9       | -2.7        |
| 15:59:05           | 230.9        | 1.0          | 0.2           | 65.9      | 304.8       | -2.7        |
| 16:00:05           | 231.0        | 1.0          | 0.2           | 66.0      | 304.9       | -2.8        |
| 16:01:05           | 201.8        | 1.0          | 0.2           | 65.9      | 304.9       | -2.8        |
| 16:02:05           | 197.7        | 1.0          | 0.2           | 65.9      | 304.9       | -2.7        |
| 16:03:05           | 189.0        | 1.0          | 0.2           | 65.9      | 304.9       | -2.8        |
| 16:04:05           | 185.6        | 1.0          | 0.2           | 65.8      | 304.9       | -2.8        |
| 16:05:05           | 172.7        | 1.1          | 0.2           | 65.8      | 304.9       | -2.8        |
| 16:06:05           | 158.5        | 1.1          | 0.2           | 65.7      | 304.9       | -2.8        |
| 16:07:05           | 157.4        | 1.1          | 0.2           | 65.7      | 304.9       | -2.8        |
| 16:08:05           | 146.5        | 1.1          | 0.2           | 65.7      | 304.9       | -2.8        |
| 16:09:05           | 140.5        | 1.1          | 0.2           | 65.7      | 304.9       | -2.8        |
| 16:10:05           | 130.7        | 1.1          | 0.2           | 65.7      | 304.9       | -2.8        |
| 16:11:05           | 131.0        | 1.1          | 0.2           | 65.7      | 305.0       | -2.8        |

Test #: 0411-03

| 04-11-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 16:12:05           | 117.7        | 1.1          | 0.2           | 65.7      | 305.0       | -2.6        |
| 16:13:05           | 111.4        | 1.1          | 0.2           | 65.7      | 305.0       | -2.6        |
| 16:14:05           | 113.3        | 1.0          | 0.2           | 65.7      | 305.0       | -2.6        |
| 16:15:05           | 109.2        | 1.0          | 0.2           | 65.7      | 305.0       | -2.6        |
| 16:16:05           | 103.9        | 1.0          | 0.2           | 65.7      | 305.0       | -2.7        |
| 16:17:05           | 100.5        | 1.0          | 0.2           | 65.7      | 305.0       | -2.7        |
| 16:18:05           | 98.9         | 1.0          | 0.2           | 65.7      | 305.0       | -2.7        |
| 16:19:05           | 95.9         | 1.0          | 0.2           | 65.7      | 305.0       | -2.7        |
| 16:20:05           | 92.1         | 1.0          | 0.2           | 65.8      | 305.0       | -2.6        |
| 16:21:05           | 88.0         | 1.0          | 0.2           | 65.7      | 305.0       | -2.7        |
| 16:22:05           | 83.0         | 1.0          | 0.2           | 65.7      | 305.0       | -2.7        |
| 16:23:05           | 82.8         | 1.0          | 0.2           | 65.7      | 305.0       | -2.9        |
| 16:24:05           | 75.0         | 1.0          | 0.2           | 65.8      | 305.2       | -2.6        |
| 16:25:05           | 80.5         | 1.0          | 0.2           | 65.9      | 305.5       | -2.7        |
| 16:26:05           | 91.4         | 1.0          | 0.2           | 65.9      | 301.0       | -2.7        |
| 16:27:05           | 126.5        | 1.0          | 0.2           | 65.9      | 295.0       | -2.7        |
| 16:28:05           | 135.6        | 1.0          | 0.2           | 65.9      | 289.6       | -2.7        |
| 16:29:05           | 149.5        | 0.9          | 0.2           | 65.8      | 283.4       | -2.7        |
| 16:30:05           | 163.9        | 0.9          | 0.2           | 65.9      | 279.8       | -2.7        |
| 16:31:05           | 159.2        | 0.9          | 0.2           | 65.9      | 277.5       | -2.7        |
| 16:32:05           | 163.7        | 0.9          | 0.2           | 65.9      | 275.9       | -2.7        |
| 16:33:05           | 165.6        | 0.9          | 0.2           | 65.8      | 275.1       | -2.7        |
| 16:34:05           | 182.5        | 0.9          | 0.2           | 65.9      | 270.6       | -2.7        |
| 16:35:05           | 204.8        | 0.9          | 0.2           | 65.9      | 264.6       | -2.7        |
| 16:36:05           | 230.2        | 0.9          | 0.2           | 65.9      | 259.6       | -2.7        |
| 16:37:05           | 223.3        | 0.9          | 0.2           | 65.9      | 259.1       | -2.7        |
| 16:38:05           | 209.7        | 0.9          | 0.2           | 65.9      | 259.1       | -2.7        |
| 16:39:05           | 207.7        | 0.9          | 0.2           | 65.9      | 259.1       | -2.7        |
| 16:40:05           | 200.8        | 1.0          | 0.2           | 65.8      | 259.1       | -2.7        |
| 16:41:05           | 185.0        | 1.0          | 0.2           | 65.8      | 259.1       | -2.7        |
| 16:42:05           | 170.5        | 1.1          | 0.2           | 65.8      | 259.1       | -2.7        |
| 16:43:05           | 165.0        | 1.1          | 0.2           | 65.7      | 259.1       | -2.7        |
| 16:44:05           | 156.5        | 1.2          | 0.2           | 65.7      | 259.1       | -2.7        |
| 16:45:05           | 147.9        | 1.2          | 0.2           | 65.8      | 259.1       | -2.7        |
| 16:46:05           | 134.9        | 1.2          | 0.2           | 65.8      | 259.1       | -2.7        |
| 16:47:05           | 124.2        | 1.2          | 0.2           | 65.8      | 259.1       | -2.7        |
| 16:48:05           | 114.0        | 1.2          | 0.2           | 65.8      | 259.1       | -2.7        |
| 16:49:05           | 109.4        | 1.2          | 0.2           | 65.8      | 259.1       | -2.7        |
| 16:50:05           | 104.5        | 1.2          | 0.2           | 65.8      | 259.1       | -2.7        |
| 16:51:05           | 93.6         | 1.2          | 0.2           | 65.7      | 258.6       | -2.7        |
| 16:52:05           | 93.2         | 1.2          | 0.2           | 65.9      | 258.8       | -2.7        |
| 16:53:05           | 89.9         | 1.1          | 0.2           | 65.9      | 258.5       | -2.7        |
| 16:54:05           | 89.4         | 1.1          | 0.2           | 65.9      | 255.0       | -2.7        |
| 16:55:05           | 121.1        | 1.1          | 0.2           | 65.9      | 249.5       | -2.7        |
| 16:56:05           | 127.0        | 1.1          | 0.2           | 65.9      | 246.3       | -2.7        |
| 16:57:05           | 145.3        | 1.1          | 0.2           | 66.0      | 240.2       | -2.7        |
| 16:58:05           | 157.2        | 1.1          | 0.2           | 66.0      | 234.6       | -2.7        |
| 16:59:05           | 164.0        | 1.1          | 0.2           | 66.0      | 230.4       | -2.7        |
| 17:00:05           | 174.5        | 1.1          | 0.2           | 66.0      | 228.2       | -2.7        |
| 17:01:05           | 199.8        | 1.1          | 0.2           | 66.0      | 223.5       | -2.7        |
| 17:02:05           | 202.4        | 1.1          | 0.2           | 66.1      | 218.5       | -2.7        |
| 17:03:05           | 205.5        | 1.1          | 0.2           | 66.0      | 214.6       | -2.7        |
| 17:04:05           | 195.4        | 1.1          | 0.2           | 66.0      | 213.5       | -2.7        |
| 17:05:05           | 193.1        | 1.1          | 0.2           | 66.0      | 213.3       | -2.7        |
| 17:06:05           | 188.8        | 1.1          | 0.2           | 66.0      | 212.1       | -2.7        |
| 17:07:05           | 167.9        | 1.1          | 0.2           | 65.9      | 212.1       | -2.7        |



Test #: 0411-03

| 04-11-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 17:08:05           | 158.1        | 1.1          | 0.2           | 65.9      | 212.1       | -2.7        |
| 17:09:05           | 149.4        | 1.2          | 0.2           | 65.9      | 212.1       | -2.7        |
| 17:10:05           | 141.5        | 1.2          | 0.2           | 65.9      | 212.1       | -2.7        |
| 17:11:05           | 133.8        | 1.2          | 0.2           | 65.9      | 212.1       | -2.7        |
| 17:12:05           | 119.6        | 1.2          | 0.2           | 65.8      | 212.1       | -2.7        |
| 17:13:05           | 123.6        | 1.2          | 0.2           | 65.8      | 212.1       | -2.7        |
| 17:14:05           | 116.5        | 1.2          | 0.2           | 65.9      | 212.1       | -2.7        |
| 17:15:05           | 109.0        | 1.2          | 0.2           | 65.9      | 158.1       | -2.7        |
| 17:16:05           | 102.7        | 1.2          | 0.2           | 65.9      | -421.7      | -2.7        |
| 17:17:05           | 38.3         | 1.1          | 0.2           | 65.7      | -452.2      | -2.7        |
| 17:18:05           | 95.6         | 1.1          | 0.2           | 65.7      | -453.0      | -2.7        |
| 17:19:05           | 70.2         | 1.1          | 0.2           | 65.8      | -458.3      | -2.6        |
| 17:20:05           | 85.1         | 1.1          | 0.2           | 65.9      | -453.4      | -2.6        |
| 17:21:05           | 32.8         | 1.1          | 0.2           | 66.0      | -446.6      | -2.6        |
| 17:22:05           | 81.0         | 1.1          | 0.2           | 66.2      | -446.3      | -2.6        |
| 17:23:05           | 75.7         | 1.1          | 0.2           | 66.3      | -448.6      | -2.6        |
| 17:24:05           | 71.7         | 1.1          | 0.2           | 66.4      | -446.7      | -2.6        |
| 17:25:05           | 68.5         | 1.1          | 0.2           | 66.5      | -446.9      | -2.6        |
| 17:26:05           | 65.5         | 1.1          | 0.2           | 66.7      | -447.4      | -2.6        |
| 17:27:05           | 62.2         | 1.1          | 0.1           | 66.7      | -447.5      | -2.4        |
| 17:28:05           | 56.1         | 1.2          | 0.1           | 66.9      | -442.5      | -2.6        |
| 17:29:05           | 54.6         | 1.2          | 0.1           | 67.0      | -447.2      | -2.0        |
| 17:30:05           | 52.6         | 1.2          | 0.1           | 67.0      | -433.0      | -1.6        |
| 17:31:05           | 50.4         | 1.2          | 0.2           | 67.2      | -446.3      | -2.6        |
| 17:32:05           | 47.9         | 1.2          | 0.2           | 67.2      | -449.8      | -2.6        |
| 17:33:05           | 43.9         | 1.2          | 0.2           | 67.3      | -447.2      | -2.6        |
| 17:34:05           | 43.3         | 1.2          | 0.2           | 67.4      | -447.5      | -2.6        |
| 17:35:05           | 40.3         | 1.3          | 0.2           | 67.4      | -447.5      | -2.6        |
| 17:36:05           | 38.1         | 1.3          | 0.2           | 67.4      | -447.3      | -2.6        |
| 17:37:05           | 35.6         | 1.3          | 0.2           | 67.5      | -447.3      | -2.6        |
| 17:38:05           | 34.0         | 1.3          | 0.2           | 67.6      | -447.2      | -2.6        |
| 17:39:05           | 32.3         | 1.3          | 0.2           | 67.6      | -447.6      | -2.6        |
| 17:40:05           | 30.6         | 1.3          | 0.2           | 67.7      | -447.4      | -2.6        |
| 17:41:05           | 28.6         | 1.3          | 0.2           | 67.7      | -447.4      | -2.6        |
| 17:42:05           | 27.1         | 1.3          | 0.2           | 67.7      | -447.8      | -2.6        |
| 17:43:05           | 25.1         | 1.3          | 0.2           | 67.8      | -447.4      | -2.6        |
| 17:44:05           | 23.7         | 1.3          | 0.2           | 67.8      | -447.5      | -2.6        |
| 17:45:05           | 22.1         | 1.3          | 0.2           | 67.9      | -447.5      | -2.6        |
| 17:46:05           | 20.8         | 1.3          | 0.2           | 67.9      | -447.4      | -2.6        |
| 17:47:05           | 19.7         | 1.4          | 0.2           | 67.9      | -447.6      | -2.6        |
| 17:48:05           | 18.4         | 1.4          | 0.2           | 67.9      | -447.4      | -2.6        |
| 17:49:05           | 17.0         | 1.4          | 0.2           | 68.0      | -447.5      | -2.6        |
| 17:50:05           | 16.0         | 1.4          | 0.2           | 68.0      | -447.3      | -2.6        |
| 17:51:05           | 15.1         | 1.4          | 0.2           | 68.0      | -447.1      | -2.6        |
| 17:52:05           | 14.1         | 1.4          | 0.2           | 68.0      | -447.3      | -2.6        |
| 17:53:05           | 13.2         | 1.4          | 0.2           | 68.0      | -447.4      | -2.6        |
| 17:54:05           | 12.9         | 1.4          | 0.2           | 68.1      | -447.3      | -2.6        |
| 17:55:05           | 12.1         | 1.4          | 0.2           | 68.1      | -447.4      | -2.6        |
| 17:56:05           | 11.0         | 1.4          | 0.2           | 68.2      | -446.9      | -2.6        |
| 17:57:05           | 10.8         | 1.4          | 0.2           | 68.1      | -446.9      | -2.6        |
| 17:58:05           | 10.0         | 1.4          | 0.2           | 68.1      | -473.5      | -2.6        |
| 17:59:05           | 9.8          | 1.4          | 0.2           | 68.1      | -452.0      | -2.6        |
| 18:00:05           | 8.9          | 1.4          | 0.2           | 68.1      | -448.0      | -2.6        |
| 18:01:05           | 8.9          | 1.4          | 0.2           | 68.2      | -448.4      | -2.6        |
| 18:02:05           | 8.9          | 1.4          | 0.2           | 68.2      | -448.4      | -2.6        |
| 18:03:05           | 8.5          | 1.4          | 0.2           | 68.2      | -448.2      | -2.6        |

Test #: 0411-03

| 04-11-1997<br>Date | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 18:04:05           | 7.9          | 1.5          | 0.2           | 68.2      | -449.9      | -2.6        |
| 18:05:05           | 7.9          | 1.5          | 0.2           | 68.2      | -448.1      | -2.6        |
| 18:06:05           | 7.0          | 1.5          | 0.2           | 68.2      | -448.2      | -2.6        |
| 18:07:05           | 6.8          | 1.5          | 0.2           | 68.2      | -448.0      | -2.6        |
| 18:08:05           | 6.8          | 1.5          | 0.2           | 68.1      | -448.0      | -2.6        |
| 18:09:05           | 6.8          | 1.5          | 0.2           | 68.1      | -448.1      | -2.6        |
| 18:10:05           | 6.3          | 1.5          | 0.2           | 68.1      | -447.8      | -2.6        |
| Avg =              | 76.0         | 1.2          | 0.2           | 66.4      | -10.7       | -2.7        |

RADIANT CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-11-1997 Current Time = 18:15:18  
 File Name = c:\cendata\041197.PRN Calibration File: c:\cendata\0411c.CAL

Test #: Post-3 out 297 in 0

| 04-11-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 18:15:22           | 293.2        | 0.1          | 0.2           | 68.1      | -642.3      | -2.6        |
| 18:15:25           | 293.7        | 0.1          | 0.2           | 68.1      | -651.1      | -2.6        |
| 18:15:35           | 294.2        | 0.1          | 0.2           | 68.1      | -537.0      | -2.6        |
| 18:15:45           | 294.1        | 0.0          | 0.2           | 68.1      | -548.0      | -2.6        |
| 18:15:55           | 293.1        | 0.0          | 0.2           | 68.1      | -554.3      | -2.6        |
| 18:16:05           | 293.7        | 0.0          | 0.2           | 68.1      | -557.7      | -2.6        |
| 18:16:15           | 294.2        | 0.0          | 0.2           | 68.1      | -558.5      | -2.6        |
| 18:16:25           | 293.4        | 0.0          | 0.2           | 68.1      | -559.4      | -2.6        |
| 18:16:35           | 293.7        | 0.0          | 0.2           | 68.1      | -558.6      | -2.6        |
| 18:16:45           | 294.2        | 0.0          | 0.2           | 68.2      | -559.2      | -2.5        |
| 18:16:55           | 293.5        | 0.0          | -0.0          | 68.2      | -748.7      | -0.0        |
| 18:17:05           | 293.9        | 0.0          | -0.0          | 68.2      | -970.2      | 0.0         |
| 18:17:15           | 294.2        | 0.0          | -0.0          | 68.1      | -970.7      | 0.0         |
| 18:17:25           | 294.0        | 0.0          | -0.0          | 68.1      | -970.5      | 0.0         |
| Avg =              | 293.8        | 0.0          | 0.1           | 68.1      | -684.9      | -1.9        |

## RADIANT CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

S Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-11-1997 Current Time = 18:20:53

File Name = c:\cemdata\041197.PRN Calibration File:c:\cemdata\0411c.CAL

Test #: Post-3 out 600 in 30.4

| 04-11-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 18:20:57           | 605.1        | 30.0         | -0.0          | 67.7      | -1148.7     | 0.0         |
| 18:20:58           | 605.1        | 30.0         | -0.0          | 67.7      | -1148.7     | 0.0         |
| 18:21:05           | 605.7        | 30.1         | -0.0          | 67.7      | -1155.2     | 0.0         |
| 18:21:15           | 604.9        | 30.1         | -0.0          | 67.7      | -1117.2     | 0.0         |
| 18:21:25           | 604.9        | 30.1         | -0.0          | 67.6      | -1116.0     | 0.0         |
| 18:21:35           | 604.8        | 30.1         | -0.0          | 67.6      | -1118.3     | 0.0         |
| 18:21:45           | 604.0        | 30.1         | -0.0          | 67.6      | -1118.2     | 0.0         |
| 18:21:55           | 605.3        | 30.1         | -0.0          | 67.6      | -1118.5     | 0.0         |
| 18:22:05           | 605.3        | 30.1         | -0.0          | 67.6      | -1118.4     | 0.0         |
| 18:22:15           | 604.6        | 30.1         | -0.0          | 67.5      | -1118.1     | 0.0         |
| 18:22:25           | 606.0        | 30.1         | -0.0          | 67.6      | -1122.1     | 0.0         |
| Avg =              | 605.1        | 30.1         | -0.0          | 67.6      | -1127.5     | 0.0         |

RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-11-1997 Current Time = 18:25:23  
 File Name = c:\ceadata\041197.PRM Calibration File: c:\ceadata\0411c.CAL

Test #: Post-3 out 0 in 15.0

| 04-11-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 18:25:27           | 0.0          | 14.9         | -0.0          | 67.3      | -1180.6     | 0.0         |
| 18:25:28           | 0.0          | 14.9         | -0.0          | 67.3      | -1180.6     | 0.0         |
| 18:25:35           | 0.0          | 15.0         | -0.0          | 67.3      | -1149.4     | 0.0         |
| 18:25:45           | 0.0          | 15.0         | -0.0          | 67.3      | -1127.0     | 0.0         |
| 18:25:55           | 0.0          | 14.9         | -0.0          | 67.3      | -1126.4     | 0.0         |
| 18:26:05           | 0.0          | 14.9         | -0.0          | 67.3      | -1126.6     | 0.0         |
| 18:26:15           | 0.0          | 14.9         | -0.0          | 67.3      | -1126.3     | 0.0         |
| 18:26:25           | 0.0          | 14.9         | -0.0          | 67.3      | -1126.3     | 0.0         |
| 18:26:35           | 0.0          | 14.9         | -0.0          | 67.2      | -1126.5     | 0.0         |
| 18:26:45           | 0.0          | 14.9         | -0.0          | 67.2      | -1126.5     | 0.0         |
| Avg =              | 0.0          | 14.9         | -0.0          | 67.3      | -1139.6     | 0.0         |

**April 12, 1997**

**0412-01/NMMA-11-3: CFA Mold 35% Styrene Resin Spray Up Lamination**

**0412-02/NMMA-5-1: 18-ft Deck 42% Styrene Resin Spray Up Lamination**

**0412-03/NMMA-2-1: 18-ft Hull 42% Styrene Resin Spray Up Lamination**

DAILY SPRAY EQUIPMENT CALIBRATION

Date: 4-12-97

Initial: Larry Dargitz

Spray Gun: \_\_\_\_\_

Resin Flow Calibration (15-second evaluation)

|                | Pre-Test   | Post-Test  |
|----------------|------------|------------|
| Run 1 Mass (g) | <u>723</u> | <u>775</u> |
| Run 2 Mass (g) |            |            |
| Run 3 Mass (g) |            |            |
| Average        |            |            |

Resin:Glass Ratio

|                |             |  |
|----------------|-------------|--|
| Mass resin (g) | <u>218</u>  |  |
| Mass glass (g) | <u>117</u>  |  |
| TOTAL          | <u>335</u>  |  |
| Percent glass  | <u>34.9</u> |  |

| Material     | Drum No.    | Gel Time (min) | Catalyst % Vol. | Setting |
|--------------|-------------|----------------|-----------------|---------|
| Gelcoat      |             |                |                 |         |
| Resin (skin) | <u>142%</u> |                |                 |         |
| Resin (lam)  |             |                |                 |         |

Thickness Checks

| Run                         | 1 | 2 | 3 | 4 | 5 |
|-----------------------------|---|---|---|---|---|
| <u>Deck</u><br>60 mil skin  |   |   |   |   |   |
| 150 mil                     |   |   |   |   |   |
| <u>Hull</u><br>90 mil skin  |   |   |   |   |   |
| 60 mil Rov                  |   |   |   |   |   |
| 30 mil Rov                  |   |   |   |   |   |
| <u>Bottom</u><br>60 mil Rov |   |   |   |   |   |
| <u>side</u><br>+<br>Transom |   |   |   |   |   |

National Marine Manufacturers Association  
Baseline Styrene Emission Testing

Radian International LLC  
Stelling Engineering, P.A.  
Air Tech Environmental LLC

DAILY GAS CHROMATOGRAPHY LOG

Date: 4/2/97

Initial: AK

1884

Run 0412-01/02

Test MMA-11-3 CFA 35%  
NMMA-5-1 18' deck 42%

Amc

| Run No. | Time | Comments                   | THC  | MMA Area | Styrene Area |
|---------|------|----------------------------|------|----------|--------------|
| 689     | 0640 | Ø Air                      |      |          | 1556         |
| 690     | 0652 | Ø Air                      |      |          | —            |
| 691     | 0703 | 59.2 sty 4.589             |      |          | 1908223      |
| 692     | 0710 | 52.9 sty 4.542 4.525       |      |          | 2243662      |
| 693     | 0716 | 59.2 sty 4.4814 4.545      |      |          | 1826433 2016 |
| 694     | 0723 | 59.2 sty 4.595             |      |          | 2202643 33   |
| 695     | 0730 | 52.9 sty 4.485             |      |          | 2702613      |
| 696     | 0739 | 122 sty 4.562              |      |          | 1756570      |
| 697     | 0746 | 122 sty 4.498              |      |          | 5123603      |
| 698     | 0752 | 122 sty 4.589              |      |          | 4157261      |
| 699     | 0754 | 204 sty 4.555              |      |          | 72740877     |
| 700     | 0804 | 204 sty 4.499              |      |          | 6650445      |
| 701     | 0817 | 1 4.440                    | 200  |          | 4407430      |
| 702     | 0824 | 2 - late start             | 117  |          | 1808522      |
| 703     | 0830 | 3                          | 65   |          | 959705       |
| 704     | 0839 | 4                          | 41   |          | 517587       |
| 705     | 0846 | 5                          | 28   |          | 471339       |
| 706     | 0857 | 6                          | 18   |          | 277848       |
| 707     | 0905 | 7                          | 12   |          | 178566       |
| 708     | 0917 | 204 sty                    |      |          | 8134685      |
| 709     |      | 204 sty                    |      |          | 3576384      |
| 710     | 0954 | 59.2 sty                   |      |          | 1709808      |
| 711     |      | 59.2                       |      |          | 1514022      |
| 712     |      | 59.2                       |      |          | 883174       |
|         |      | CHANGED GAS SAMPLING VALVE |      |          |              |
| 713     |      | 59.2 sty 4.31              |      |          | 5471597      |
| 714     |      | 59.2 sty 4.31              |      |          | 6009331      |
| 715     | 1140 | 1 (SKIM CHL)               | 110  |          | —            |
| 716     | 1149 | 2                          | 90.9 |          | —            |
|         |      | ED.T CHL                   |      |          |              |
| 717     | 1152 | 3 4.31                     | 190  |          | 5387181      |
| 718     | 1159 | 4 4.31                     |      |          | 180581800    |
| 719     | 1206 | 5                          | 584  |          | 17177888     |
| 720     | 1212 | 5                          | 400  |          | 1203696      |

MMA-11-3  
0412-01  
CFA 35%

END  
POST  
QC

NMMA-5-1  
0412-2

18033760



DAILY GAS CHROMATOGRAPHY LOG

Date: 4/12/97

② 364

Initial: QD

Run 0412-02

Test NMMA-5-1 18' deck 42%

| Run No. | Time  | Comments                 | THC      | MMA Area | Styrene Area       |
|---------|-------|--------------------------|----------|----------|--------------------|
| 721     | 1221  | 6                        | 204      |          | 6380976            |
| 722     | 1230  | 7                        | 182      |          | 5560659            |
| 723     | 1236  | 8                        | 152      |          | 4986021            |
| 724     | 1247  | 9                        | 80       |          | 2355536            |
| 725     | 1256  | 10                       | 41       |          | 1534824            |
| 726     | 1304  | 11                       | 23       |          | 651145             |
| 727     | 1311  | 12                       | 17       |          | 535507             |
| 728     | 1321  | 13                       | 12       |          | 545829             |
| 729     | 1328  | 59.2 sty 4.315           |          |          | 5959909            |
| 730     | 1336  | 59.2 w/syr. 4.315        |          |          | 6291424            |
| 731     |       | 51.2 4.318               |          |          | 6429982            |
| 732     |       | 122 4.314                |          |          | 10977608           |
| 733     |       | 122 4.320                |          |          | 11537000           |
| 734     |       | 204 4.313                |          |          | 16097608           |
| 735     |       | 204 4.317                |          |          | 14421208           |
| 736     |       | 204 ↓ 4.311              |          |          | 2124480<br>2124480 |
| 737     |       | 204 4.315                |          |          | 19247328           |
| 738     |       | 204 (hang from RF) 4.312 |          |          | 19026992           |
| 738+1   | 15115 | 1                        | 170      |          | 5879133            |
| 740     | 1525  | 2 (late start)           | 221      |          | 2981443            |
| 741     | 1531  | 3                        | 888      |          | 27243904           |
| 742     | 1538  | 4                        | 257      |          | 9444307            |
| 743     | 1546  | 5                        | 170      |          | 5140301            |
| 744     | 1557  | 6                        | 121      |          | 3865266            |
| 745     | 1605  | 7                        | 460      |          | 14387444           |
| 746     | 1611  | 8                        | 710      |          | 21751264           |
| 747     | 1618  | 9 (not vented)           | 295      |          | 11422000           |
| 748     | 1628  | 10                       | 160 4/50 |          | 37467316           |
| 749     | 1636  | 11                       | 160      |          | 5256288            |
| 750     | 1643  | 12                       | 520      |          | 16205192           |
| 751     | 1649  | 13                       | 430      |          | 11481928           |
| 752     | 1657  | 14                       | 116      |          | 5451654            |
| 753     | 1715  | 15                       | 88       |          | 2687034            |
| 754     | 1716  | 16                       | 44       |          | 1404304            |

WIND

POST TEST  
0412-2

0412-03  
NMMA-2-1

4.5x10<sup>6</sup>

10.8x10<sup>6</sup>

10.7x10<sup>6</sup>

1725

**Radian International LLC  
Stelling Engineering, P.A.  
Air Tech Environmental LLC**

Date: 4/12/97

3084

Initial: 00

Run 0412-03

Test NMMA-2-1 18' Hull 42% Resin

[illegible]

END  
RL  
0412-03

$$\left. \begin{array}{l} 10.5 \times 10^4 \\ 10.7 \times 10^6 \end{array} \right\}$$

4/12

484  
383

Post ~~over~~ at QC: Shot 204 once, then again. Second shot  $< 1/2$  1ST.

Analyzed 59.2 3X. 3<sup>rd</sup>  $1/2$  1<sup>st</sup> 2. Changed gas sampling valve.

Analyzed 59.2 2X. Agreement  $\pm 0.5\%$ . Ran test 0412-2

TOTAL AREA= 265825  
MUL FACTOR=1.0000E+00

START

0.262  
0.639  
0.962  
1.209  
1.615

STOP

RUN# 690 APR 12, 1997 06:52:22

NO CALIB PEAKS FOUND

AREA%

| RT    | AREA  | TYPE | WIDTH | AREA%    |
|-------|-------|------|-------|----------|
| .262  | 25669 | BU   | .138  | 17.56719 |
| .639  | 61597 | PV   | .205  | 42.15536 |
| .962  | 20710 | UU   | .084  | 14.17338 |
| 1.209 | 25054 | UU   | .117  | 17.14630 |
| 1.615 | 13089 | UU   | .106  | 8.95777  |

TOTAL AREA= 146119

MUL FACTOR=1.0000E+00

\* RUN # 691 APR 12, 1997 07:03:09

START

0.235  
0.632

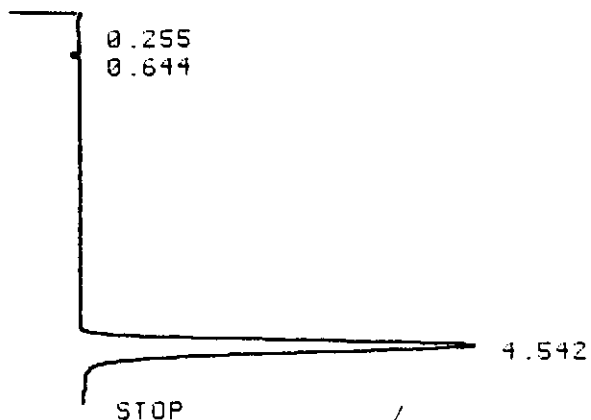
4.589

STOP

| ESTD-AREA |         |      |      |        |
|-----------|---------|------|------|--------|
| RT        | AREA    | TYPE | CAL# | AMOUNT |
| 4.589     | 1908233 | PB   | 2    | 43.889 |

TOTAL AREA=1934608  
MUL FACTOR=1.0000E+00

\* RUN # 692      APR 12, 1997 07:10:31  
START

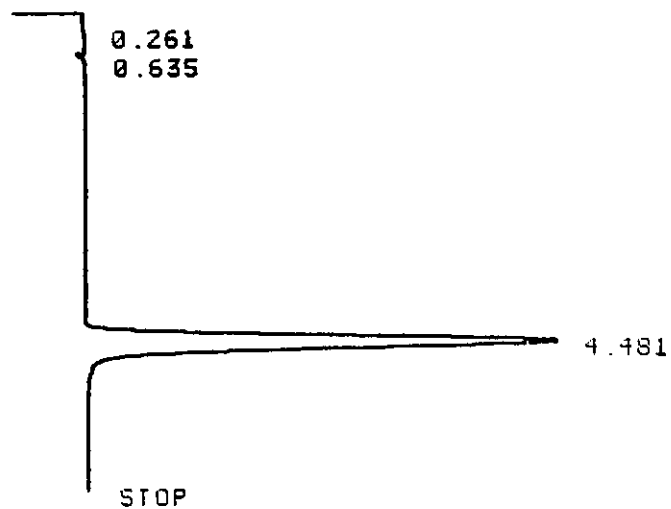


RUN# 692      APR 12, 1997 07:10:31

| ESTD-AREA |         |      |      |        |
|-----------|---------|------|------|--------|
| RT        | AREA    | TYPE | CAL# | AMOUNT |
| 4.542     | 2243662 | BB   | 2    | 51.604 |

TOTAL AREA=2291534  
MUL FACTOR=1.0000E+00

\* RUN # 693      APR 12, 1997 07:16:26  
START



ESTD-AREA

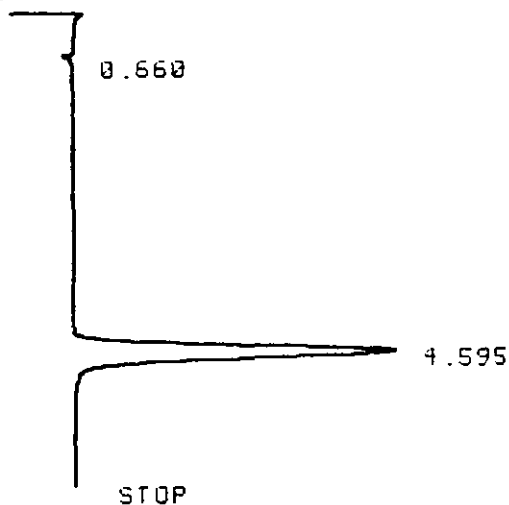
| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.481 | 2673016 | PB   | 2    | 61.479 |

TOTAL AREA=2742482

MUL FACTOR=1.0000E+00

\* RUN # 694 APR 12, 1997 07:23:27

START



RUN# 694 APR 12, 1997 07:23:27

ESTD-AREA

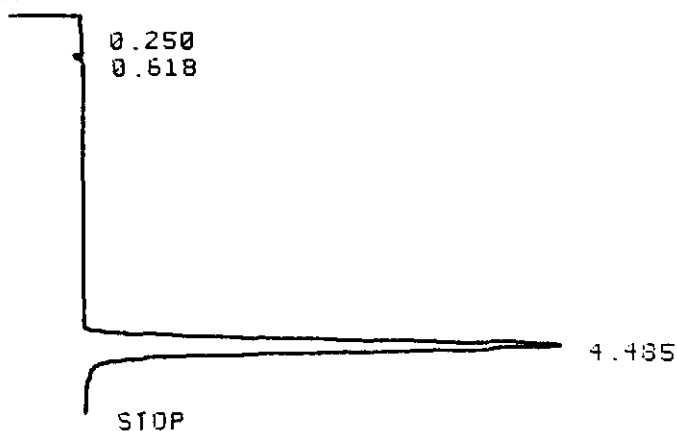
| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.595 | 1826433 | BB   | 2    | 42.008 |

TOTAL AREA=1864985

MUL FACTOR=1.0000E+00

\* RUN # 695 APR 12, 1997 07:30:37

START



RUN# 695 APR 12, 1997 07:30:37

ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT |
|-------|------------|------|--------|
| 4.485 | 2702613 PB | 2    | 62.160 |

TOTAL AREA=2762661  
MUL FACTOR=1.0000E+00

\* RUN # 696 APR 12, 1997 07:39:50

START



RUN# 696 APR 12, 1997 07:39:50

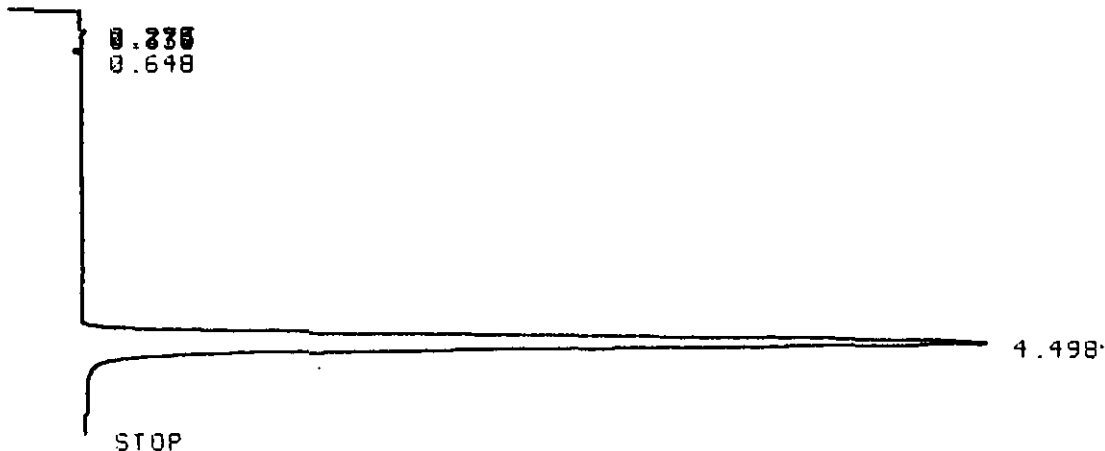
ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT  |
|-------|------------|------|---------|
| 4.522 | 4746570 PB | 2    | 109.171 |

TOTAL AREA=4800221  
MUL FACTOR=1.0000E+00

\* RUN # 697 APR 12, 1997 07:46:29

START





RUN# 697

APR 12, 1997 07:46:29

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 4.498 | 5123603 | PB   | 2    | 117.843 |

TOTAL AREA=5224480

MUL FACTOR=1.0000E+00

\* RUN # 698

APR 12, 1997 07:52:59

START



RUN# 698

APR 12, 1997 07:52:59

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.589 | 4157261 | PB   | 2    | 95.617 |

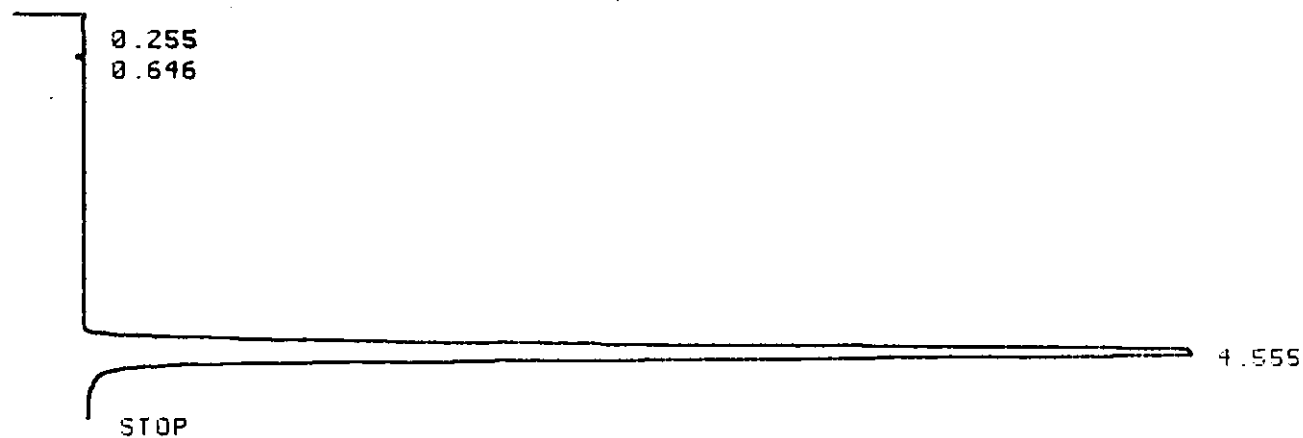
TOTAL AREA=4218976

MUL FACTOR=1.0000E+00

\* RUN # 699

APR 12, 1997 07:59:00

START



RUN# 699

APR 12, 1997 07:59:00

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 4.555 | 7274077 | PB   | 2    | 167.304 |

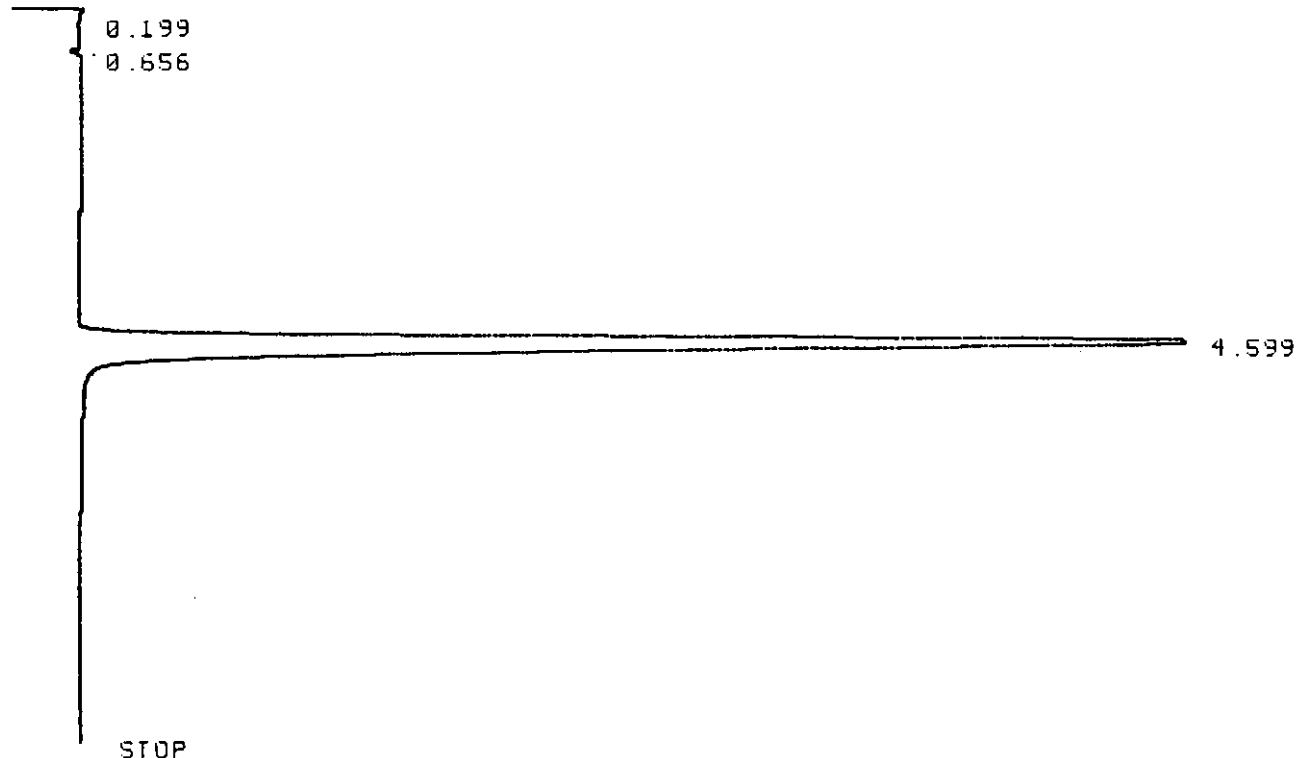
TOTAL AREA=7326272

MUL FACTOR=1.0000E+00

\* RUN # 700

APR 12, 1997 08:04:45

START



RUN# 700

APR 12, 1997 08:04:45

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 4.599 | 6650445 | PB   | 2    | 152.960 |

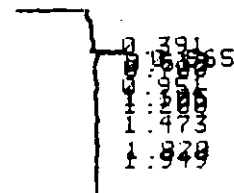
TOTAL AREA=6687043

MUL FACTOR=1.0000E+00

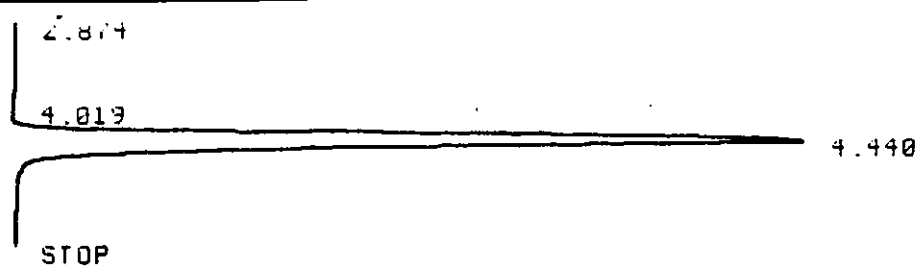
\* RUN # 701

APR 12, 1997 08:17:53

START



0412-01  
NMMA-11-3  
CFA mold  
35% Styrene



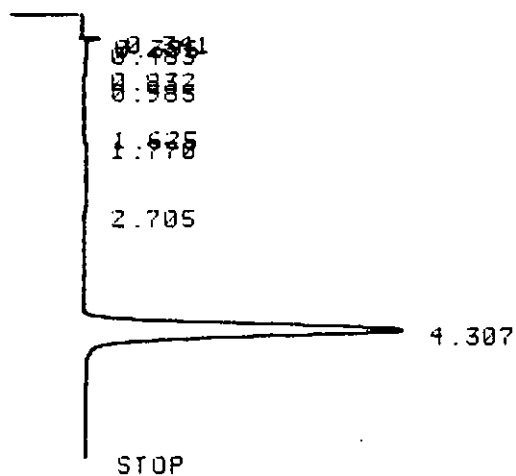
RUN# 701 APR 12, 1997 08:17:53

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.949 | 23984   | UU   | 1    | 1.007   |
| 4.440 | 4407430 | PB   | 2    | 101.371 |

TOTAL AREA=4719878  
MUL FACTOR=1.0000E+00

\* RUN # 702 APR 12, 1997 08:24:15  
START



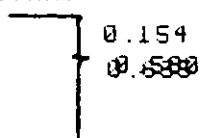
RUN# 702 APR 12, 1997 08:24:15

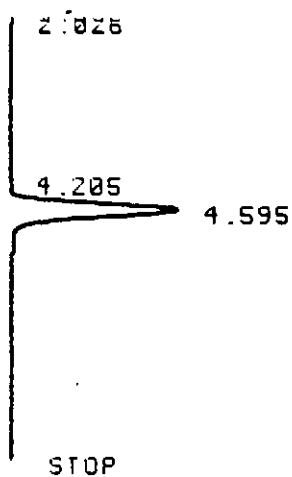
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.307 | 1808522 | PB   | 2    | 41.596 |

TOTAL AREA=1923508  
MUL FACTOR=1.0000E+00

\* RUN # 703 APR 12, 1997 08:30:45  
START



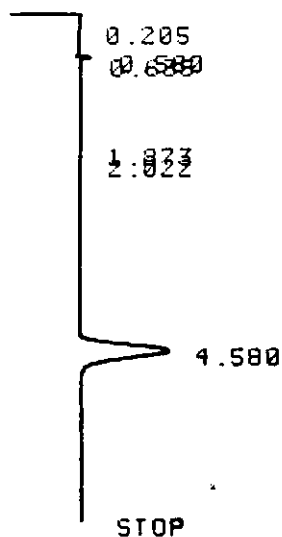


RUN# 703 APR 12, 1997 08:30:45

| ESTD-AREA | RT    | AREA   | TYPE | CAL# | AMOUNT |
|-----------|-------|--------|------|------|--------|
|           | 1.880 | 2520   | BU   | 1    | .106   |
|           | 4.595 | 959705 | PB   | 2    | 22.073 |

TOTAL AREA= 974102  
MUL FACTOR=1.0000E+00

\* RUN # 704 APR 12, 1997 08:39:07  
START

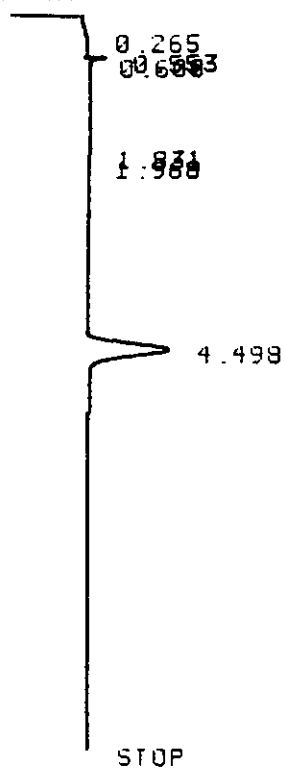


RUN# 704 APR 12, 1997 08:39:07

| ESTD-AREA | RT    | AREA   | TYPE | CAL# | AMOUNT |
|-----------|-------|--------|------|------|--------|
|           | 1.873 | 3318   | UU   | 1    | .139   |
|           | 4.580 | 517587 | UU   | 2    | 11.905 |

TOTAL AREA= 534005  
MUL FACTOR=1.0000E+00

\* RUN # 705      APR 12, 1997 08:46:45  
START

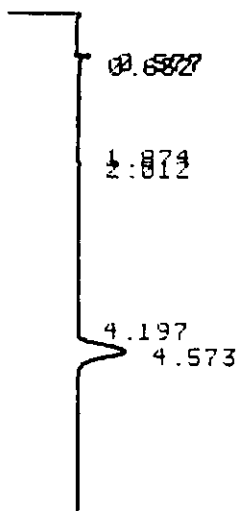


RUN# 705      APR 12, 1997 08:46:45

| ESTD-AREA | RT    | AREA   | TYPE | CAL# | AMOUNT |
|-----------|-------|--------|------|------|--------|
|           | 1.968 | 3205   | UP   | 1    | .135   |
|           | 4.498 | 471339 | UU   | 2    | 10.841 |

TOTAL AREA= 528531  
MUL FACTOR=1.0000E+00

\* RUN # 706      APR 12, 1997 08:57:08  
START



STOP

RUN# 706 APR 12, 1997 08:57:08

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.874 | 3382   | PU   | 1    | .142   |
| 4.573 | 277848 | UU   | 2    | 6.391  |

TOTAL AREA= 30881.3  
MUL FACTOR=1.0000E+00

\* RUN # 707 APR 12, 1997 09:05:36  
START

0.280  
00.6305

1.860

4.540

STOP

RUN# 707 APR 12, 1997 09:05:36

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.860 | 3482   | UU   | 1    | .146   |
| 4.540 | 178566 | UU   | 2    | 4.107  |

TOTAL AREA= 224952  
MUL FACTOR=1.0000E+00

\* RUN # 708

APR 12, 1997 09:17:36

START

0.268

0.633

1.495

2.591

4.525

STOP

RUN# 708

APR 12, 1997 09:17:36

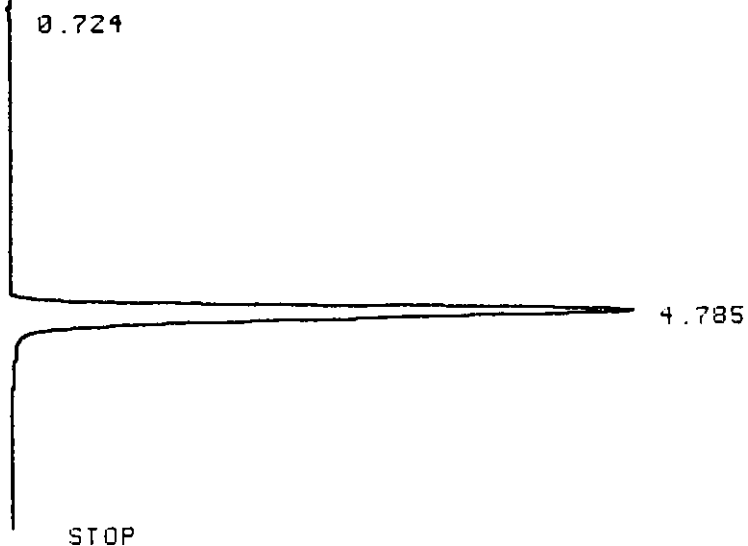
ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT  |
|-------|------------|------|---------|
| 4.525 | 8134685 PB | 2    | 187.098 |

TOTAL AREA=6260909

MUL FACTOR=1.0000E+00

\* RUN # 709      APR 12, 1997 09:39:03  
START



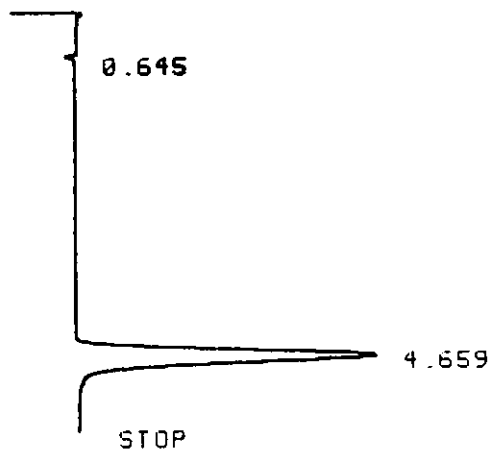
RUN# 709      APR 12, 1997 09:39:03

NO CALIB PEAKS FOUND  
AREA%

| RT    | AREA    | TYPE | WIDTH | AREA%    |
|-------|---------|------|-------|----------|
| .724  | 12208   | PU   | .110  | .33830   |
| 4.785 | 3596384 | PB   | .208  | 99.66170 |

TOTAL AREA=3608592  
MUL FACTOR=1.0000E+00

\* RUN # 710      APR 12, 1997 09:54:01  
START



RUN# 710      APR 12, 1997 09:54:01

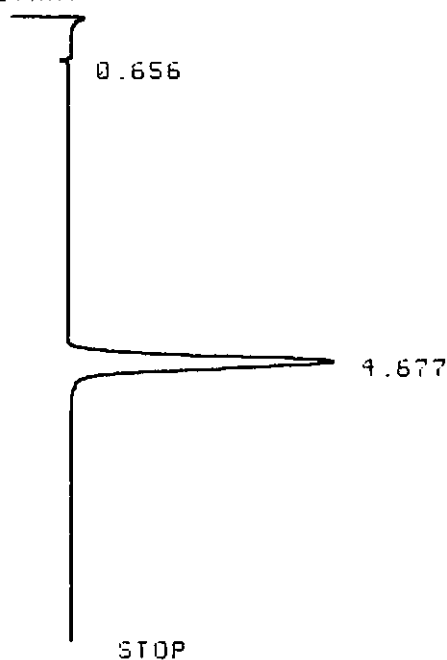


| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.659 | 1709808 | BB   | 2    | 39.326 |

TOTAL AREA=1720185  
MUL FACTOR=1.0000E+00

\* RUN # 711 APR 12, 1997 10:00:11

START



RUN# 711 APR 12, 1997 10:00:11

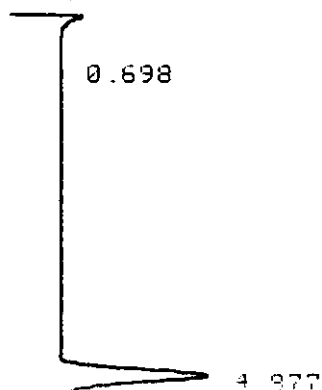
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.677 | 1514022 | BB   | 2    | 34.823 |

TOTAL AREA=1526286  
MUL FACTOR=1.0000E+00

\* RUN # 712 APR 12, 1997 10:09:10

START



57.01  
RUN# 712 APR 12, 1997 10:09:10

NO CALIB PEAKS FOUND

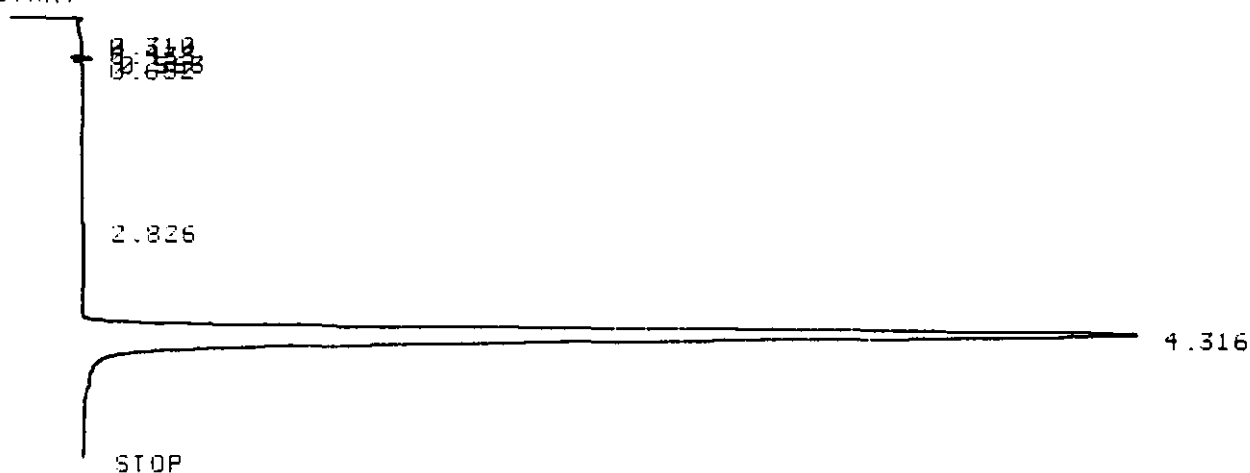
AREA%

| RT    | AREA   | TYPE | WIDTH | AREA%    |
|-------|--------|------|-------|----------|
| .698  | 325    | PV   | .044  | .03679   |
| 4.877 | 883174 | I VH | .213  | 99.96323 |

TOTAL AREA= 883499

MUL FACTOR=1.0000E+00

\* RUN # 713 APR 12, 1997 11:27:29  
START



RUN# 713 APR 12, 1997 11:27:29

NO CALIB PEAKS FOUND

AREA%

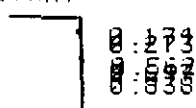
| RT    | AREA    | TYPE | WIDTH | AREA%    |
|-------|---------|------|-------|----------|
| .310  | 57584   | BV   | .201  | .93823   |
| .433  | 57257   | VP   | .167  | .93290   |
| .563  | 13560   | PV   | .021  | .22094   |
| .652  | 25978   | UV   | .095  | .42327   |
| 2.826 | 11522   | BP   | .162  | .18773   |
| 4.316 | 5971597 | PB   | .204  | 97.29693 |

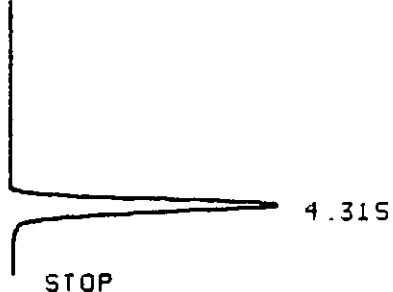
TOTAL AREA=6137498

MUL FACTOR=1.0000E+00

\* ATT 2^ 8 @

\* RUN # 714 APR 12, 1997 11:34:53  
START





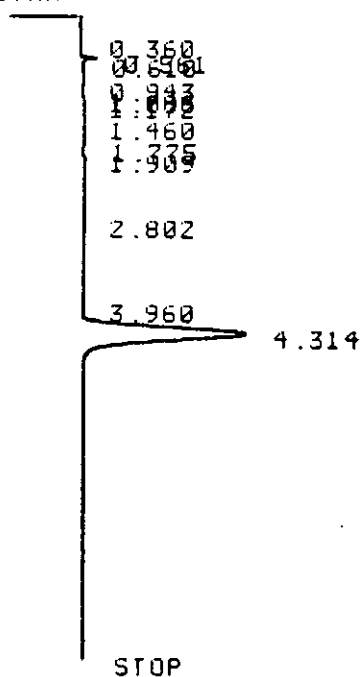
RUN# 714 APR 12, 1997 11:34:53

NO CALIB PEAKS FOUND  
AREA%

| RT    | AREA    | TYPE | WIDTH | AREA%    |
|-------|---------|------|-------|----------|
| .174  | 39930   | BP   | .063  | .63703   |
| .273  | 65995   | PU   | .097  | 1.05286  |
| .562  | 22945   | UU   | .026  | .36605   |
| .647  | 46160   | UU   | .080  | .73642   |
| .838  | 83830   | UU   | .156  | 1.33739  |
| 4.315 | 6009331 | BB   | .203  | 95.87027 |

TOTAL AREA=6268192  
MUL FACTOR=1.0000E+00

\* RUN # 715 APR 12, 1997 11:40:56  
START



0412-2  
NMMA-5-1  
18-ft deck  
42% Styrene Resin

RUN# 715 APR 12, 1997 11:40:56

ESTD-AREA

| RT    | AREA  | TYPE | CAL# | AMOUNT |
|-------|-------|------|------|--------|
| 1.909 | 10843 | UU   | 1    | .455   |

MUL FACTOR=1.0000E+00

\* RUN # 716 APR 12, 1997 11:49:59  
START

0.289  
97.067

RUN# 716 APR 12, 1997 11:49:59

NO CALIB PEAKS FOUND  
APPEAR

| RT   | AREA  | TYPE | WIDTH | AREA%    |
|------|-------|------|-------|----------|
| .289 | 30661 | BU   | .165  | 39.13338 |
| .557 | 47689 | UU   | .027  | 60.86664 |

TOTAL AREA= 78350  
MUL FACTOR=1.0000E+00

\* EDIT CALIB @

- 1 = CALIB PROCEDURE
- 2 = RETENTION TIME WINDOWS
- 3 = TABLE ENTRIES
- 4 = PEAK GROUPS
- 5 = CALIB OPTIONS

SECTION TO BE EDITED: 2

REF % RTW C 5.000J:  
NON-REF % RTW C 5.000J:

SECTION TO BE EDITED: 3

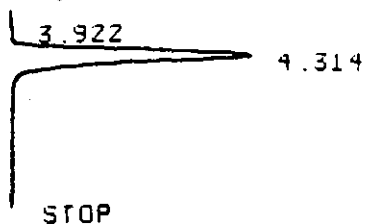
CAL#: 2  
RT: 4.315  
AMT: 59.2  
AMT/AREA: 59.200000.0000099  
NAME: STYRENE

CAL#:

SECTION TO BE EDITED:

\* RUN # 717 APR 12, 1997 11:52:53  
START

0.300  
0.300  
0.300  
1.415  
1.303  
2.799



RUN# 717 APR 12, 1997 11:52:53

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.903 | 19833   | UU   | 1    | .833   |
| 4.314 | 5387181 | PB   | 2    | 53.333 |

TOTAL AREA=8.5945E+06  
MUL FACTOR=1.0000E+00

\* RUN # 718 APR 12, 1997 11:59:47  
START



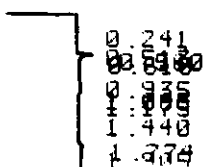
RUN# 718 APR 12, 1997 11:59:47

ESTD-AREA

| RT    | AREA     | TYPE | CAL# | AMOUNT  |
|-------|----------|------|------|---------|
| 1.905 | 29037    | UU   | 1    | 1.220   |
| 4.313 | 18033760 | PB   | 2    | 178.534 |

TOTAL AREA=1.8493E+07  
MUL FACTOR=1.0000E+00

\* RUN # 719 APR 12, 1997 12:06:20  
START



4.888  
2.795  
3.214

4.312

STOP

RUN# 719 APR 12, 1997 12:06:20

ESTD-AREA

| RT    | AREA     | TYPE | CAL# | AMOUNT  |
|-------|----------|------|------|---------|
| 1.905 | 26756    | UU   | 1    | 1.124   |
| 4.312 | 17177888 | PB   | 2    | 170.061 |

TOTAL AREA=1.7532E+07  
MUL FACTOR=1.0000E+00

\* RUN # 720 APR 12, 1997 12:12:09  
START

0.285  
0.6141  
0.883  
1.085  
1.441  
1.775  
1.905  
2.483  
2.796  
3.202

4.314

STOP

RUN# 720 APR 12, 1997 12:12:09

ESTD-AREA

| RT    | AREA     | TYPE | CAL# | AMOUNT  |
|-------|----------|------|------|---------|
| 1.905 | 31245    | UU   | 1    | 1.312   |
| 4.314 | 12032696 | PB   | 2    | 119.124 |

TOTAL AREA=1.2429E+07  
MUL FACTOR=1.0000E+00

0.339  
0.648  
0.648  
1.032  
1.448  
1.905  
2.471  
2.788

4.309

STOP

| ESTD-AREA |         |      |      |        |
|-----------|---------|------|------|--------|
| RT        | AREA    | TYPE | CAL# | AMOUNT |
| 1.905     | 12031   | UU   | 1    | .505   |
| 4.309     | 6380976 | PQ   | 2    | 63.172 |

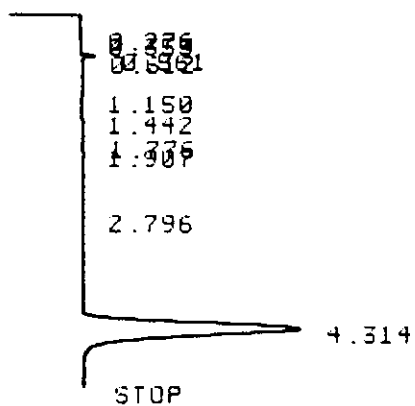
```
* RUN # 722      APR 12, 1997  12:30:20
START
```

0.263  
0.658  
0.873  
1.178  
1.447  
1.900  
  
2.790  
  
4.309  
  
STOP

| ESTD-AREA |      |      |      |        |
|-----------|------|------|------|--------|
| RT        | AREA | TYPE | CALC | AMOUNT |
| 1.900     | 9846 | UU   | 1    | .414   |

TOTAL AREA=5711.808  
MUL FACTOR=1.0000E+00

\* RUN # 723      APR 12, 1997 12:36:45  
START



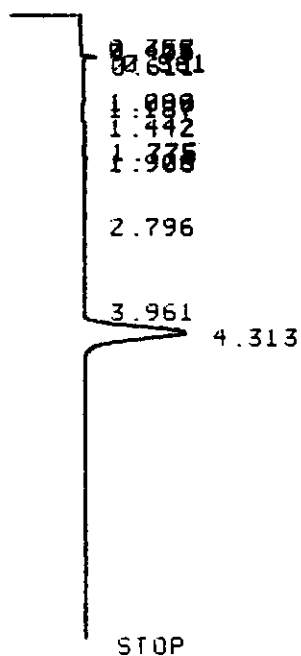
\* RUN# 723      APR 12, 1997 12:36:45

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.907 | 9041    | UV   | 1    | .380   |
| 4.314 | 4986021 | PB   | 2    | 49.368 |

TOTAL AREA=5149142  
MUL FACTOR=1.0000E+00

\* RUN # 724      APR 12, 1997 12:47:29  
START





RUN# 724 APR 12, 1997 12:47:29

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.908 | 8810    | UP   | 1    | .370   |
| 4.313 | 2355536 | PB   | 2    | 23.320 |

TOTAL AREA=2510314  
MUL FACTOR=1.0000E+00

\* RUN # 725 APR 12, 1997 12:56:21  
START

0.332  
0.610  
1.020  
1.452  
1.919  
2.799  
3.958  
4.315  
STOP

RUN# 725 APR 12, 1997 12:56:21

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.911 | 8934    | UU   | 1    | .375   |
| 4.315 | 1339824 | UB   | 2    | 13.264 |

TOTAL AREA=1477541  
MUL FACTOR=1.0000E+00

\* RUN # 726 APR 12, 1997 13:04:18  
START

0.295  
0.610  
1.079  
1.456  
1.905  
2.782

3.927  
4.315

STOP

RUN# 726 APR 12, 1997 13:04:18

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.905 | 8223   | UP   | 1    | .345   |
| 4.315 | 651145 | BB   | 2    | 6.446  |

TOTAL AREA= 757855  
MUL FACTOR=1.0000E+00

\* RUN # 727 APR 12, 1997 13:11:14  
START

0.297  
0.6121  
1.085  
1.467  
1.909  
2.809  
3.948  
4.315

STOP

RUN# 727 APR 12, 1997 13:11:14

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.909 | 8686   | UU   | 1    | .365   |
| 4.315 | 535507 | UB   | 2    | 5.302  |

TOTAL AREA= 660355  
MUL FACTOR=1.0000E+00

\* RUN # 728 APR 12, 1997 13:21:11

START

0.366  
0.692  
1.105  
1.471  
1.906

3.895  
4.313

STOP

RUN# 728 APR 12, 1997 13:21:11

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.906 | 20099  | UU   | 1    | .844   |
| 4.313 | 345829 | UU   | 2    | 3.424  |

TOTAL AREA= 554848

MUL FACTOR=1.0000E+00

\* RUN # 729 APR 12, 1997 13:28:04

START

0.366  
0.694

4.315

STOP

RUN# 729 APR 12, 1997 13:28:04

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.315 | 5958909 | PB   | 2    | 58.993 |

TOTAL AREA=5134890

MUL FACTOR=1.0000E+00

\* RUN # 730 APR 12, 1997 13:36:51

START

0:356  
0:042

1.332

4.315

STOP

RUN# 730 APR 12, 1997 13:36:51

ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT |
|-------|------------|------|--------|
| 4.315 | 6291424 PB | 2    | 62.285 |

TOTAL AREA=64231.94  
MUL FACTOR=1.0000E+00

\* RUN # 731 APR 12, 1997 13:44:31

START

0:362  
0:045

1.205

4.318

STOP

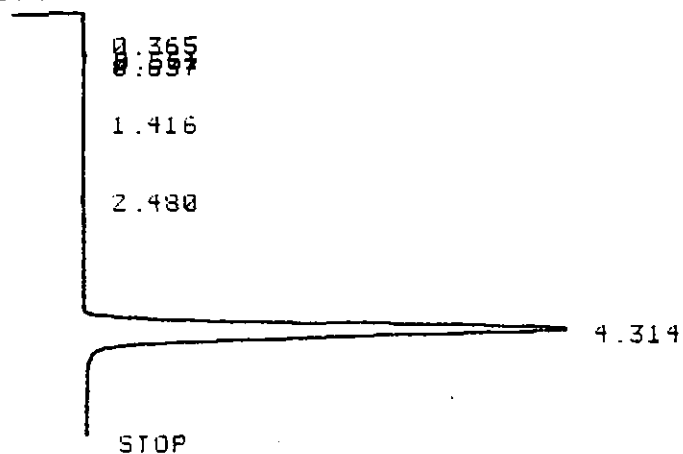
RUN# 731 APR 12, 1997 13:44:31

ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT |
|-------|------------|------|--------|
| 4.318 | 6429882 PB | 2    | 63.656 |

TOTAL AREA=6600458  
MUL FACTOR=1.0000E+00

\* RUN # 732      APR 12, 1997 13:53:50  
START



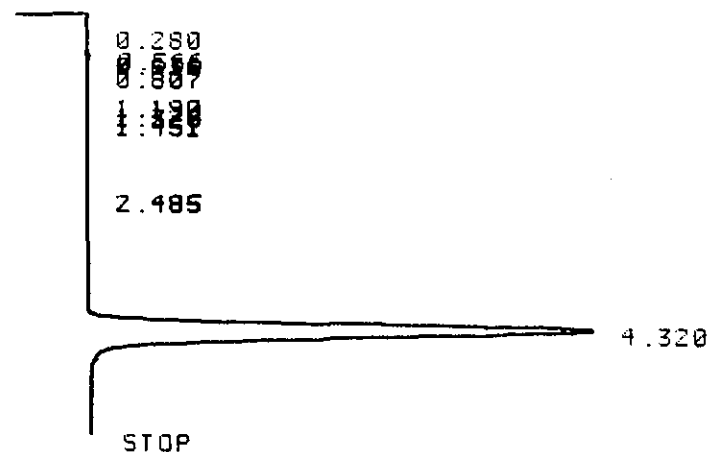
RUN# 732      APR 12, 1997 13:53:50

ESTD-AREA

| RT    | AREA     | TYPE | CAL# | AMOUNT  |
|-------|----------|------|------|---------|
| 4.314 | 10977600 | PB   | 2    | 100.679 |

TOTAL AREA=1.1106E+07  
MUL FACTOR=1.0000E+00

\* RUN # 733      APR 12, 1997 14:00:15  
START



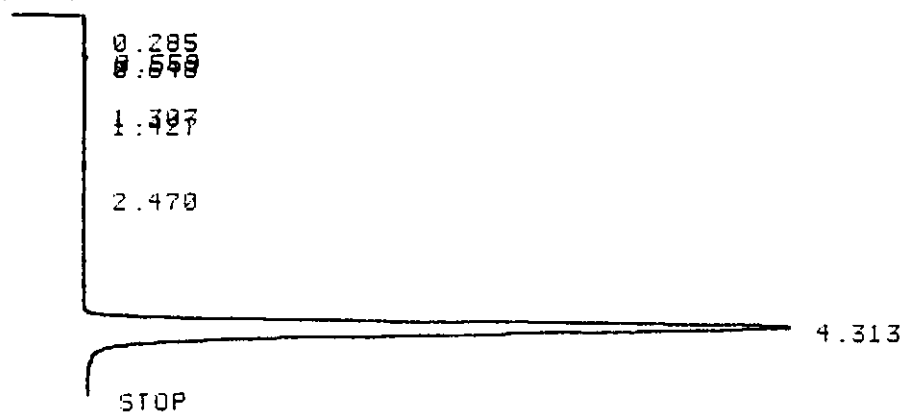
RUN# 733      APR 12, 1997 14:00:15

ESTD-AREA

| RT    | AREA     | TYPE | CAL# | AMOUNT  |
|-------|----------|------|------|---------|
| 4.320 | 11537000 | PB   | 2    | 114.216 |

TOTAL AREA=1.1277E+07  
MUL FACTOR=1.0000E+00

\* RUN # 734 APR 12, 1997 14:08:00  
START



RUN# 734 APR 12, 1997 14:08:00

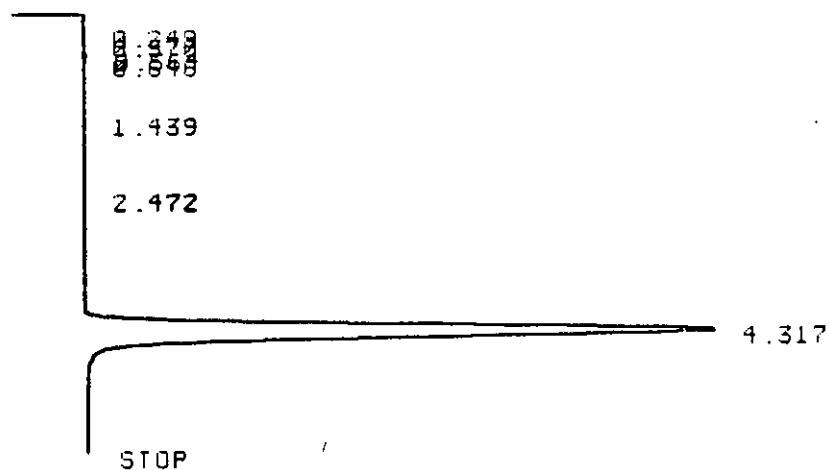
ESTD-AREA

| RT    | AREA TYPE | CAL# | AMOUNT  |
|-------|-----------|------|---------|
| 4.313 | 16097608  | PB 2 | 159.366 |

TOTAL AREA=1.6230E+07

MUL FACTOR=1.0000E+00

\* RUN # 735 APR 12, 1997 14:13:26  
START



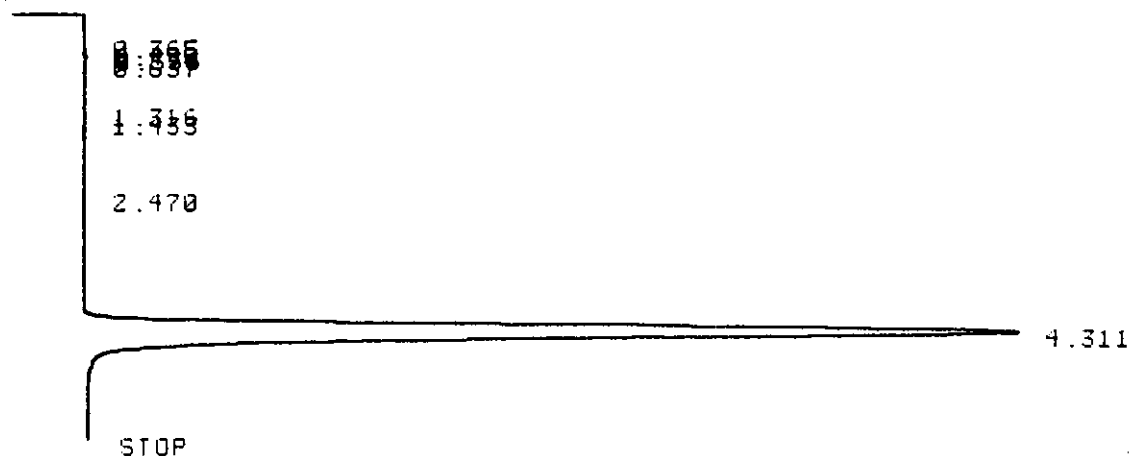
RUN# 735 APR 12, 1997 14:13:26

ESTD-AREA

| RT    | AREA TYPE | CAL# | AMOUNT  |
|-------|-----------|------|---------|
| 4.317 | 14421208  | PB 2 | 142.770 |

TOTAL AREA=1.4551E+07  
MUL FACTOR=1.0000E+00

\* RUN # 736      APR 12, 1997 14:20:19  
START



RUN# 736      APR 12, 1997 14:20:19

ESTD-AREA

| RT    | AREA     | TYPE | CAL# | AMOUNT  |
|-------|----------|------|------|---------|
| 4.311 | 21264480 | PB   | 2    | 210.518 |

TOTAL AREA=2.1502E+07  
MUL FACTOR=1.0000E+00

\* RUN # 737      APR 12, 1997 14:29:16  
START



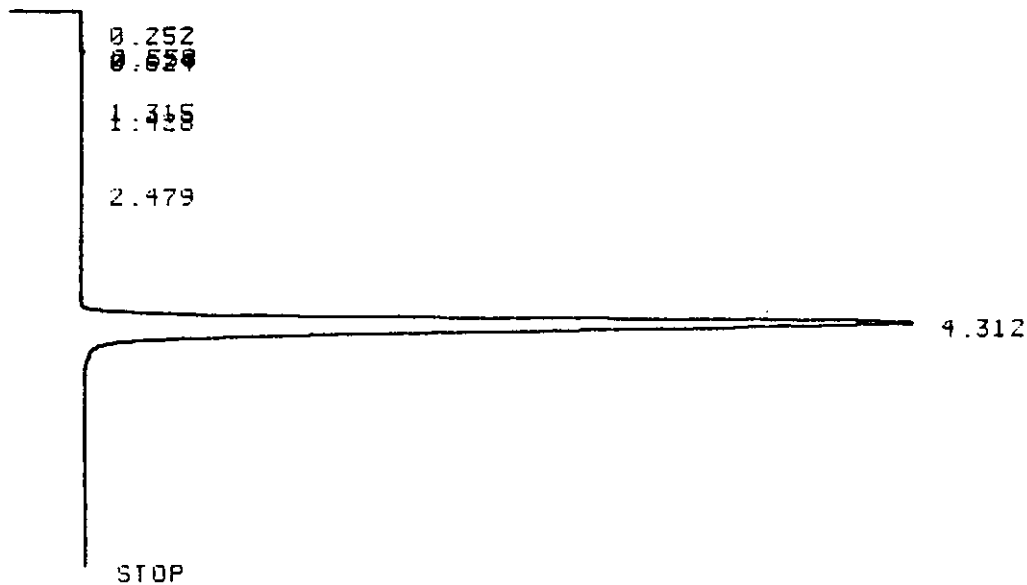
RUN# 737      APR 12, 1997 14:29:16

ESTD-AREA

| RT    | AREA     | TYPE | CAL# | AMOUNT  |
|-------|----------|------|------|---------|
| 4.315 | 19247328 | BO   | 2    | 190.549 |

TOTAL AREA=1.9247E+07  
MUL FACTOR=1.0000E+00

\* RUN # 738 APR 12, 1997 14:35:20  
START

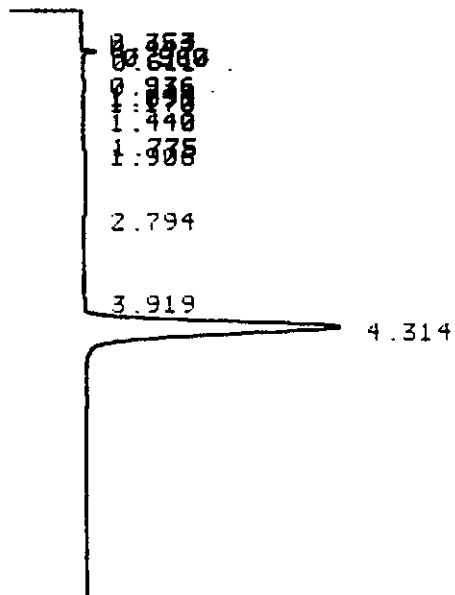


RUN# 738 APR 12, 1997 14:35:20

| RT    | AREA     | TYPE | CAL# | AMOUNT  |
|-------|----------|------|------|---------|
| 4.312 | 19026992 | FB   | 2    | 188.367 |

TOTAL AREA=1.9103E+07  
MUL FACTOR=1.0000E+00

\* RUN # 739 APR 12, 1997 15:15:16  
START



0412-03  
NMMA-2-1  
18-ft Hull  
42% Styrene resin



STOP

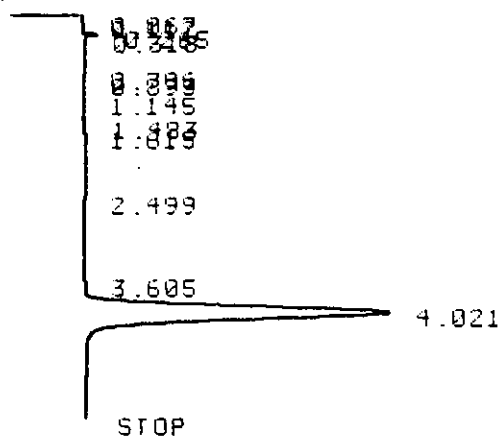
RUN# 739 APR 12, 1997 15:15:16

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.906 | 7561    | UU   | 1    | .318   |
| 4.314 | 5879133 | PA   | 2    | 58.203 |

TOTAL AREA=603781.1  
MUL FACTOR=1.0000E+00

\* RUN # 740 APR 12, 1997 15:25:07  
START



RUN# 740 APR 12, 1997 15:25:07

NO CALIB PEAKS FOUND  
AREA#

| RT    | AREA    | TYPE | WIDTH | AREAX    |
|-------|---------|------|-------|----------|
| .067  | 2895    | BU   | .068  | .04067   |
| .112  | 12781   | UP   | .165  | .17956   |
| .265  | 41105   | PV   | .025  | .57740   |
| .318  | 20267   | UU   | .055  | .28473   |
| .796  | 4075    | BU   | .099  | .05725   |
| .893  | 9378    | UU   | .123  | .13175   |
| 1.145 | 3901    | UP   | .121  | .05480   |
| 1.483 | 20283   | PV   | .086  | .28495   |
| 1.615 | 6950    | UP   | .094  | .09764   |
| 2.499 | 8926    | UP   | .142  | .12540   |
| 4.021 | 6987443 | PA   | .206  | 90.16576 |

TOTAL AREA=7118006  
MUL FACTOR=1.0000E+00

\* RUN # 741 APR 12, 1997 15:31:08

4,321

STOP

RUN# 741 APR 12, 1997 15:31:08

ESTD-AREA

| RT    | AREA     | TYPE | CALC# | AMOUNT  |
|-------|----------|------|-------|---------|
| 1.905 | 8050     | UU   | 1     | 338     |
| 4.321 | 27243904 | PB   | 2     | 269.715 |

TOTAL AREA=2.7488E+07

MUL FACTOR=1.0000E+00

\* RUN # 742 APR 12, 1997 15:38:19

START

[illegible]

2.787

4.306

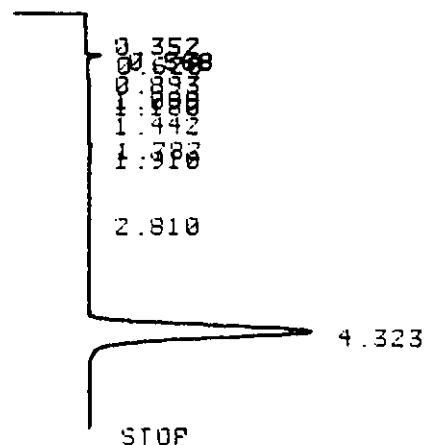
STOP

RUN# 742 RPR 12, 1997 15:38:19

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.899 | 7004    | UP   | 1    | .294   |
| 4.306 | 9444307 | FB   | 2    | 93.499 |

\* RUN # 743      APR 12, 1997   15:46:04  
START



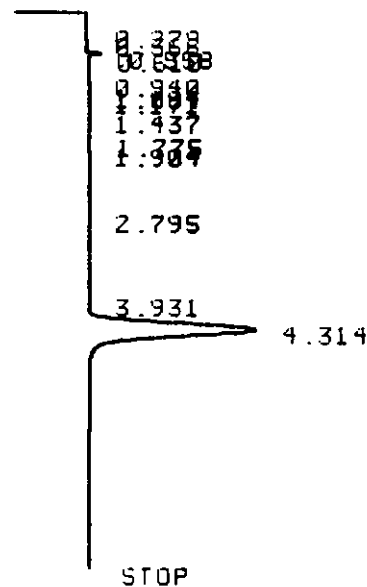
RUN#      743              APR 12, 1997   15:46:04

ESTD-AREA

| RT    | AREA    | TYPE | CALC | AMOUNT |
|-------|---------|------|------|--------|
| 1.910 | 7446    | UU   | 1    | .313   |
| 4.323 | 5140381 | PB   | 2    | 50.890 |

TOTAL AREA=5296182  
MUL FACTOR=1.0000E+00

\* RUN # 744      APR 12, 1997   15:57:27  
START

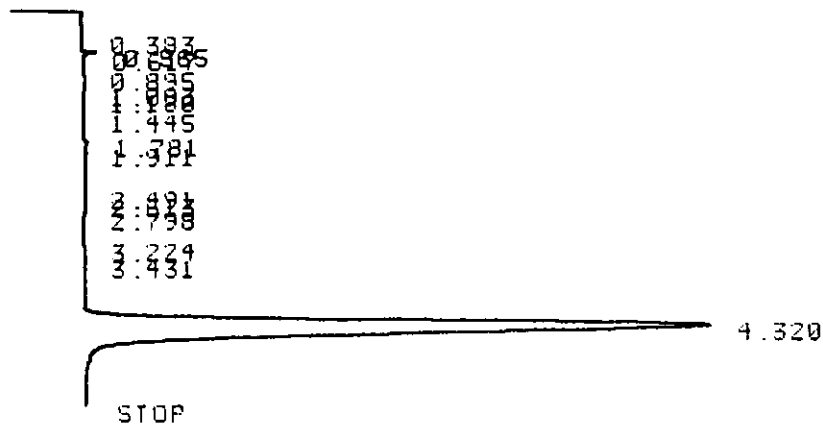


RUN#      744              APR 12, 1997   15:57:27

| ESTD-AREA | RT      | AREA | TYPE | CAL#   | AMOUNT |
|-----------|---------|------|------|--------|--------|
| 1.904     | 22701   | UU   | 1    | .953   |        |
| 4.314     | 3865266 | PB   | 2    | 38.266 |        |

TOTAL AREA=4132725  
MUL FACTOR=1.0000E+00

\* RUN # 745 APR 12, 1997 16:05:31  
START

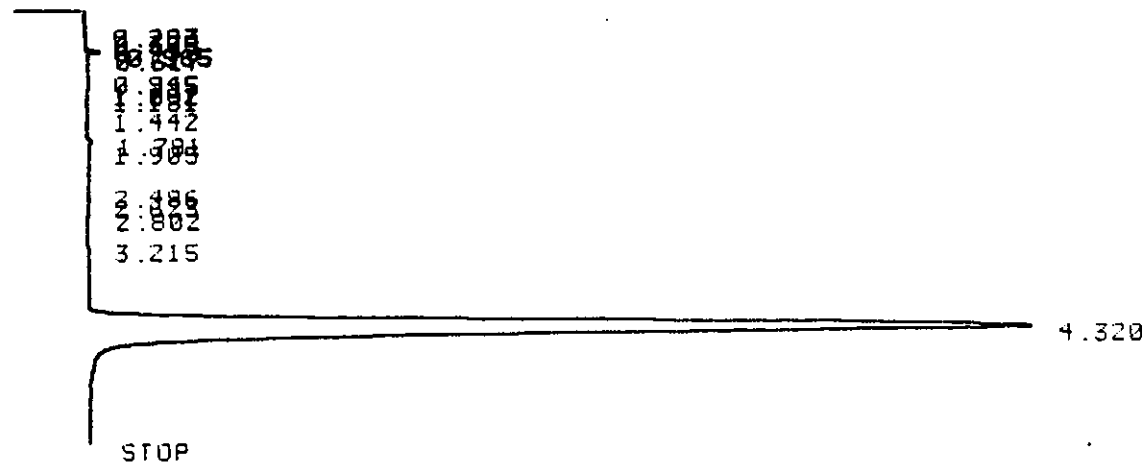


RUN# 745 APR 12, 1997 16:05:31

| ESTD-AREA | RT       | AREA | TYPE | CAL#    | AMOUNT |
|-----------|----------|------|------|---------|--------|
| 1.911     | 22338    | UU   | 1    | .938    |        |
| 4.320     | 14387944 | PB   | 2    | 142.441 |        |

TOTAL AREA=1.4755E+07  
MUL FACTOR=1.0000E+00

\* RUN # 746 APR 12, 1997 16:11:47  
START



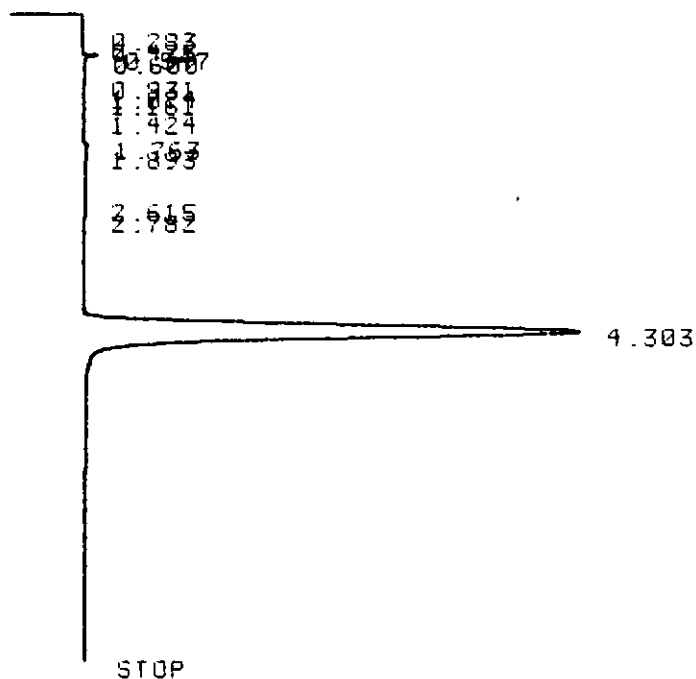
## ESTD-AREA

| RT    | AREA     | TYPE | CAL# | AMOUNT  |
|-------|----------|------|------|---------|
| 1.905 | 8757     | UU   | 1    | .368    |
| 4.320 | 21751264 | PB   | 2    | 215.338 |

TOTAL AREA=2.2000E+07

MUL FACTOR=1.0000E+00

\* RUN # 747      APR 12, 1997 16:18:40  
START



RUN# 747      APR 12, 1997 16:18:40

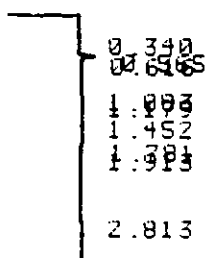
## ESTD-AREA

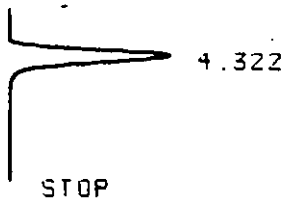
| RT    | AREA     | TYPE | CAL# | AMOUNT  |
|-------|----------|------|------|---------|
| 1.893 | 15247    | UU   | 1    | .640    |
| 4.303 | 11422200 | PB   | 2    | 113.080 |

TOTAL AREA=1.1705E+07

MUL FACTOR=1.0000E+00

\* RUN # 748      APR 12, 1997 16:28:36  
START



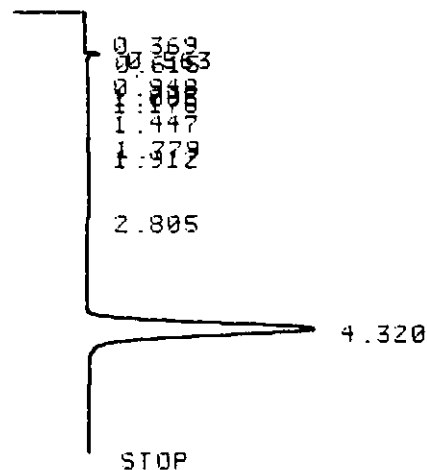


RUN# 748 APR 12, 1997 16:28:36

| ESTD-AREA | RT    | AREA    | TYPE | CALC | AMOUNT |
|-----------|-------|---------|------|------|--------|
|           | 1.913 | 4741    | UP   | 1    | .199   |
|           | 4.322 | 3746736 | PB   | 2    | 37.093 |

TOTAL AREA=3890738  
MUL FACTOR=1.0000E+00

\* RUN # 749 APR 12, 1997 16:36:12  
START

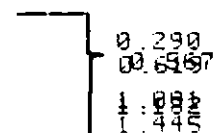


RUN# 749 APR 12, 1997 16:36:12

| ESTD-AREA | RT    | AREA    | TYPE | CALC | AMOUNT |
|-----------|-------|---------|------|------|--------|
|           | 1.912 | 29421   | UU   | 1    | 1.236  |
|           | 4.320 | 5256288 | PB   | 2    | 52.037 |

TOTAL AREA=5539702  
MUL FACTOR=1.0000E+00

\* RUN # 750 APR 12, 1997 16:43:00  
START



0.313  
0.616  
0.810  
1.013  
1.214  
1.434  
1.607  
2.882  
2.791  
3.195

4.323

STOP

RUN# 750 APR 12, 1997 16:43:00

ESTD-AREA

| RT    | AREA     | TYPE | CALC | AMOUNT  |
|-------|----------|------|------|---------|
| 1.912 | 6821     | UU   | 1    | .286    |
| 4.323 | 16205132 | PA   | 2    | 160.431 |

TOTAL AREA=1.6381E+07

MUL FACTOR=1.0000E+00

\* RUN # 751 APR 12, 1997 16:49:24  
START

0.313  
0.616  
0.810  
1.013  
1.214  
1.434  
1.607  
2.882  
2.791  
3.195

4.316

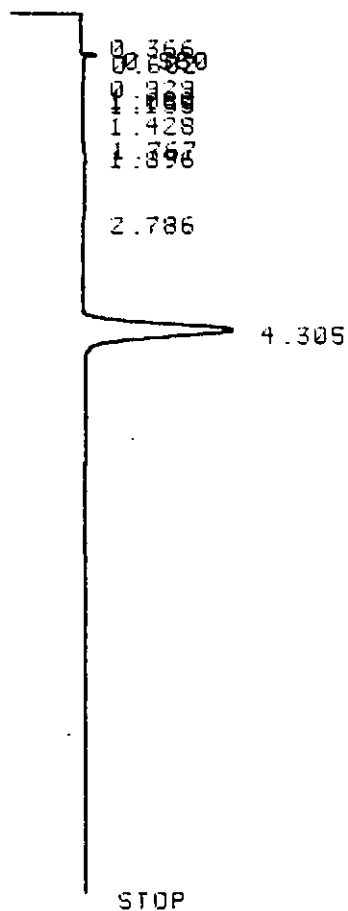
STOP

RUN# 751 APR 12, 1997 16:49:24

| RT    | AREA     | TYPE | CAL# | AMOUNT  |
|-------|----------|------|------|---------|
| 1.907 | 0494     | UU   | 1    | .357    |
| 4.316 | 11481928 | PB   | 2    | 113.671 |

TOTAL AREA=1.1656E+07  
 MUL FACTOR=1.0000E+00

\* RUN # 752 APR 12, 1997 17:03:13  
 START



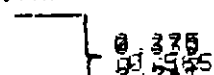
RUN# 752 APR 12, 1997 17:03:13

EXTD-AREA

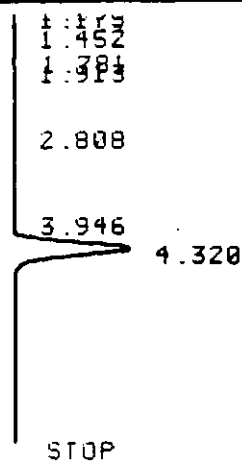
| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.896 | 7117    | UU   | 1    | .299   |
| 4.305 | 3457654 | PB   | 2    | 34.231 |

TOTAL AREA=3635797  
 MUL FACTOR=1.0000E+00

\* RUN # 753 APR 12, 1997 17:15:49  
 START







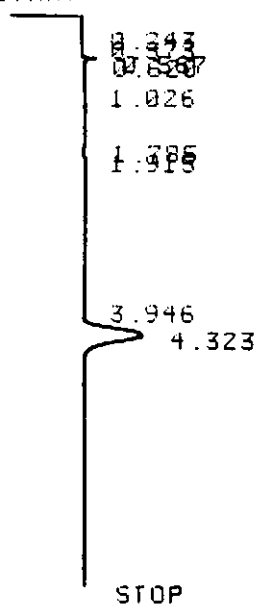
RUN# 753 APR 12, 1997 17:15:49

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.913 | 7903    | UP   | 1    | .332   |
| 4.320 | 2677834 | PB   | 2    | 26.511 |

TOTAL AREA=2825040  
MUL FACTOR=1.0000E+00

\* RUN # 754 APR 12, 1997 17:25:22  
START



RUN# 754 APR 12, 1997 17:25:22

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.915 | 7304    | UU   | 1    | .307   |
| 4.323 | 1404304 | PB   | 2    | 13.903 |

TOTAL AREA=1512023  
MUL FACTOR=1.0000E+00

\* RUN # 755      APR 12, 1997 17:34:20  
START

0.393  
~~0.619~~  
1.082  
  
1.905  
  
2.790  
  
3.955  
4.315

STOP

RUN# 755      APR 12, 1997 17:34:20

ESTD-AREA

| RT    | AREA   | TYPE | CALC | AMOUNT |
|-------|--------|------|------|--------|
| 1.903 | 8719   | UU   | 1    | .366   |
| 4.315 | 852964 | PR   | 2    | 8.444  |

TOTAL AREA= 977102.  
MUL FACTOR=1.0000E+00

\* RUN # 756      APR 12, 1997 17:42:43  
START

0.355  
~~0.608~~  
  
1.440  
1.905

4.313

STOP

RUN# 756      APR 12, 1997 17:42:43

ESTD-AREA

TOTAL AREA= 75.6136  
MUL FACTOR= 1.0000E+00

\* RUN #: 757 APR 12, 1997 17:52:44

START

1.101  
1.372

3.926  
► 4.324

STOP

RUN# 757 APR 12, 1997 17:52:44

ESTO-AREA

| RT    | AREA   | TYPE | CALC | AMOUNT |
|-------|--------|------|------|--------|
| 1.912 | 6884   | UU   | 1    | .289   |
| 4.324 | 405837 | UU   | 2    | 4.810  |

TOTAL AREA= 627003  
MUL FACTOR=1.0000E+00

\* RUN # 750 APR 12, 1997 18:01:26

START

0.351  
0.5365  
0.772  
1.069  
  
1.893

4.305

STOP

RUN# 758 APR 12, 1997 18:01:26

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.895 | 6637   | UP   | 1    | .279   |
| 4.305 | 331359 | UU   | 2    | 3.280  |

TOTAL AREA= 415943  
MUL FACTOR=1.0000E+00

\* RUN # 759 APR 12, 1997 18:16:24  
START

0.352  
0.049

4.321

RUN# 759 APR 12, 1997 18:16:24

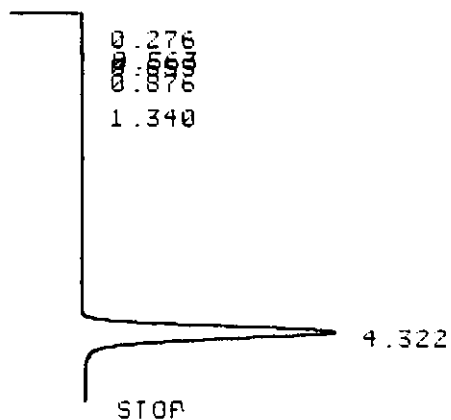
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.321 | 5525818 | PB   | 2    | 54.706 |

TOTAL AREA=5621645  
MUL FACTOR=1.0000E+00

\* RUN # 760 APR 12, 1997 18:29:44

START



RUN# 760 APR 12, 1997 18:29:44

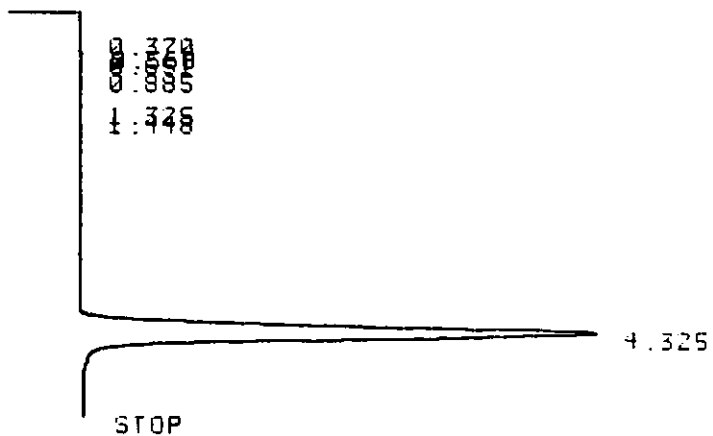
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.322 | 5794490 | PB   | 2    | 57.366 |

TOTAL AREA=5949789  
MUL FACTOR=1.0000E+00

\* RUN # 761 APR 12, 1997 18:37:38

START



RUN# 761 APR 12, 1997 18:37:38

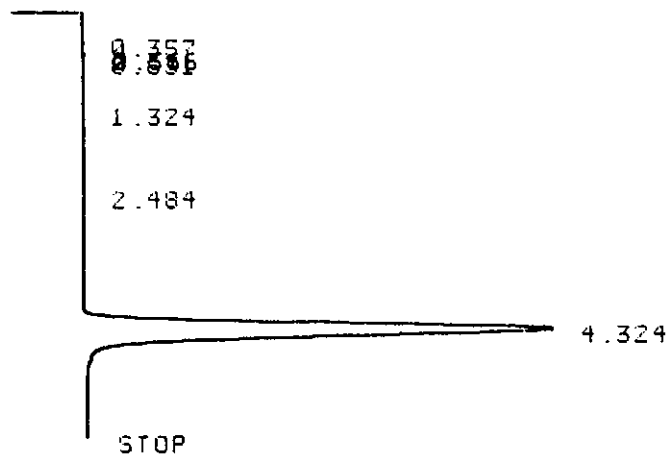
ESTD-AREA

| RT    | AREA     | TYPE | CAL# | AMOUNT  |
|-------|----------|------|------|---------|
| 4.325 | 11881803 | PA   | 2    | 117.630 |

TOTAL AREA=1.2083E+07  
MUL FACTOR=1.0000E+00

\* RUN # 762 APR 12, 1997 18:43:56

START



RUN# 762 APR 12, 1997 18:43:56

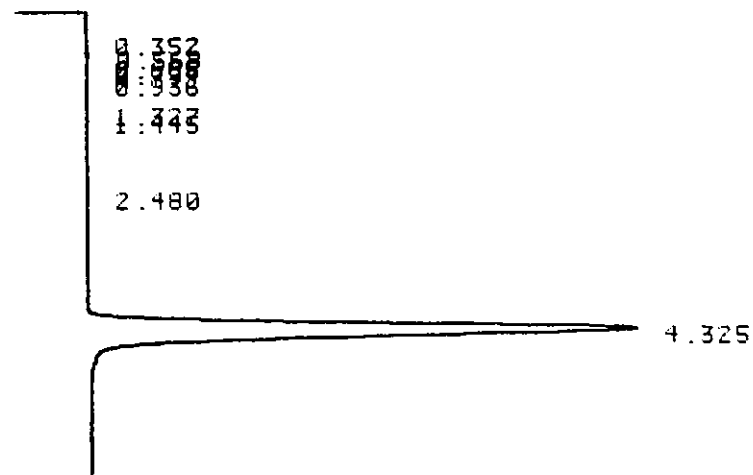
ESTD-AREA

| RT    | AREA     | TYPE | CAL# | AMOUNT  |
|-------|----------|------|------|---------|
| 4.324 | 10850036 | PA   | 2    | 107.416 |

TOTAL AREA=1.0992E+07  
MUL FACTOR=1.0000E+00

\* RUN # 763 APR 12, 1997 18:54:10

START



RUN# 763 APR 12, 1997 18:54:10

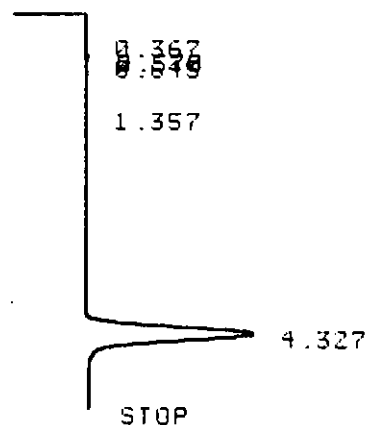
ESTD-AREA

| RT    | AREA     | TYPE | CAL# | AMOUNT  |
|-------|----------|------|------|---------|
| 4.325 | 12705496 | PR   | 2    | 125.784 |

TOTAL AREA=1.2935E+07  
MUL FACTOR=1.0000E+00

\* RUN # 764 APR 12, 1997 19:03:32

START



RUN# 764 APR 12, 1997 19:03:32

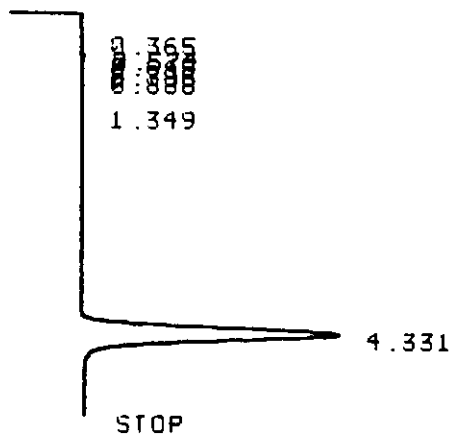
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.327 | 3883941 | PR   | 2    | 38.451 |

TOTAL AREA=3900533  
MUL FACTOR=1.0000E+00

\* RUN # 765 APR 12, 1997 19:09:24

START



RUN# 765 APR 12, 1997 19:09:24

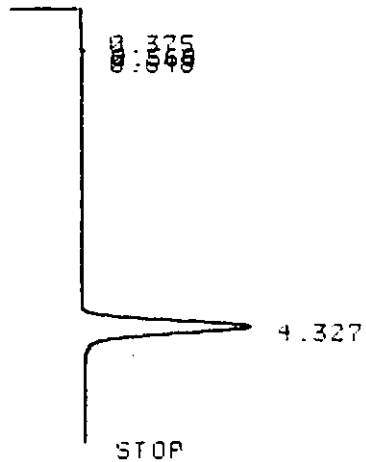
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.331 | 5943869 | PB   | 2    | 58.844 |

TOTAL AREA=6174822

MUL FACTOR=1.0000E+00

\* RUN # 766 APR 12, 1997 19:17:18  
START



RUN# 766 APR 12, 1997 19:17:18

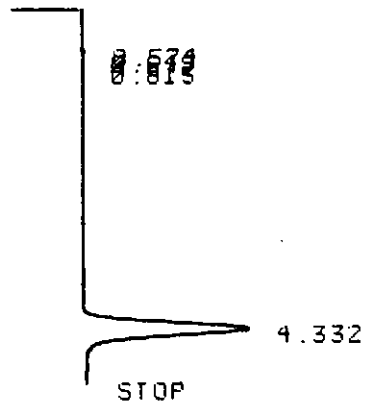
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.327 | 3917018 | PB   | 2    | 38.778 |

TOTAL AREA=4020394

MUL FACTOR=1.0000E+00

\* RUN # 767 APR 12, 1997 19:23:54  
START





RUN# 767

APR 12, 1997 19:23:54

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.332 | 3856778 | PB   | 2    | 38.182 |

TOTAL AREA=395711.4

MUL FACTOR=1.0000E+00

① 1/2

4/12/97

04121 online @ 0812 <sup>TEST</sup> NMMA - 11-3 (Run 2 uncontrolled spray) CFA 35%

Initial resin 201.91

Start 0815 End 0818

Final resin 194.93

Flow @ 0825 DAS = 0.17 AP, -2.7 P<sub>3</sub> Done 0830

H8 .22

V8 .20

P<sub>b</sub> = 30.12

7 .24

7 .22

RH = 34% @ 43°

6 .25

6 .24

Q = 3321

5 .25

5 .24

T<sub>s</sub> = 71

4 .22

4 .24

THC = 47.9 = 1.17# Styrene = 47.8%

3 .21

3 .24

Θ = 66"

2 .21

2 .22

# Resin = 6.98 = 2.44# Styrene

1 .19

1 .20

End 0919

Online 1100 - 0412-02: NMMA - 5-118 Neck 43%

Resin initial 246.27

Spray on 1100 OE

Flamout - Spray off 1102

Back on @ 1104 Resin = 236.03

Spray on 1105

Shin. drive 1137

Lam on ~ 1150

Lam down ~ 1208

Final resin 226.32

End 1334

7.24# Resin  
"uncharacterized"

Air Supply  
down to  
21V DC

Air @ 31.5 US  
32 for run  
(suppressed @  
flamout)  
~ 11.7 @ 1102

Flow @ 1223 DAS = 1.16 <sup>DP</sup> -2.6 P<sub>3</sub>

H8 .21

V8 .19

Done 1230

7 .24

7 .21

T<sub>s</sub> = 71

6 .24

6 .22

P<sub>b</sub> = 30.04

5 .24

5 .22

RH = 30% @ 53°

4 .21

4 .22

Q = 3225

3 .21

3 .22

Resin = 11.45

2 .19

2 .21

# Sty = 41.98

1 .18

1 .17

50.4 Avail

Θ = 155"

THC = 173

# Sty = 102

% Avail = 24.3% 20.6

Post TAC's weren't so great. Outlet analyzer also jump to X after electronic cal 0412B.CAB  
proper span voltage. (drops to 8.9, should be 9.0) Did QC, cal (0412.B) A Pre - 2  
did zero (out) span (in), Recal out span (0412C) B  
5 Recal out span (0412C) C. ONLY  
out span value changed from cal B to C.

20/2

4/12 cont

Air pressures corrected + sampling continued on same cal.

204 STYRENE

204 STYRENE-2 (than to GC) ✓

59.2 STYRENE

Need to investigate responses when time allows

- On line 1512: 0412-3, Test NMEA-2-12 18'Hull 42% Resin

Resin = 375.20

Skin on @ 1512, 1/2 done ~ 1520, boat rolled

Skin restart 1525, done ~ 1531

Lam on ~ 1600, 1/2 done @ 1614

Restart Lam 1635 240.9956 382 STKs

Lam done ~ 1646

Net resin = 134.64

Flow @ 1706 DAS: 0.15 DP - 2.6 P<sub>3</sub> Done 1710

#8 :20 18 16

.23 .20

.23 .20

.22 .21

.20 .22

.19 .22

.19 .20

1 .16 1 .16

T<sub>3</sub> = 72

P<sub>0</sub> = 29.92

RH = 27% @ 60°

# Resin = 134.64 # 56.55 # Styrene

Q = 3,141

# Resin = 134.64 = 56.55 # Styrene

T<sub>H</sub>C = 184.9 → 12.7 # Styrene → 22.5% Avail

Θ = 197"

CALIBRATION SUMMARY

04-12-1997 07:35:27

CALIBRATION FILE NAME = c:\cendata\0412a.CAL

4/12/97  
km Cals

| Chan. | Name  | Units | Zero  |       | Span  |       | Slope  | Int.      |
|-------|-------|-------|-------|-------|-------|-------|--------|-----------|
|       |       |       | Conc. | Resp. | Conc. | Resp. |        |           |
| 1     | THC o | ppm   | 0     | 0     | 914   | 8.9   | 102.84 | -.0807    |
| 2     | THC i | ppm   | 0     | .04   | 45.5  | 9.2   | 4.96   | -.1779    |
| 3     | Flow  | inH2O | 0     | 2.96  | .4    | 3.2   | 1.97   | -5.8162   |
| 4     | Temp  | F     | 32    | 1.98  | 212   | 3.3   | 137.51 | -240.4591 |
| 5     | Resin | lb    | 0     | 1.46  | 600   | 4.3   | 212.27 | -310.8426 |
| 6     | Ps    | inH2O | 0     | .7    | -1.1  | .9    | -4.67  | 3.2787    |

## RADIANT CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-12-1997 Current Time = 07:42:30

File Name = c:\cendata\041297.PRM Calibration File: c:\cendata\0412a.CAL

Test #: Pre out 914 in 45.5

| 04-12-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 07:42:34           | 920.7        | 45.0         | 0.2           | 74.4      | 1810.7      | -2.8        |
| 07:42:36           | 920.7        | 45.0         | 0.2           | 74.4      | 1810.7      | -2.8        |
| 07:42:37           | 920.7        | 45.0         | 0.2           | 74.4      | 1810.7      | -2.8        |
| 07:42:45           | 919.1        | 45.1         | 0.2           | 75.3      | 1810.5      | -2.9        |
| 07:42:55           | 919.2        | 45.1         | 0.2           | 75.1      | 1810.5      | -2.9        |
| 07:43:05           | 919.2        | 45.1         | 0.3           | 75.4      | 1810.5      | -2.9        |
| 07:43:15           | 919.9        | 45.1         | 0.3           | 75.2      | 1810.5      | -2.9        |
| 07:43:25           | 920.4        | 45.1         | 0.3           | 76.0      | 1810.4      | -2.9        |
| 07:43:35           | 919.7        | 45.1         | 0.3           | 75.3      | 1810.5      | -2.9        |
| 07:43:45           | 919.6        | 45.1         | 0.2           | 75.0      | 1810.6      | -2.8        |
| Avg =              | 919.9        | 45.1         | 0.2           | 75.0      | 1810.5      | -2.9        |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-12-1997 Current Time = 07:47:09

File Name = c:\ceedata\041297.PRM Calibration File: c:\ceedata\0412a.CAL

Test #: ore Out 600 in 30.4

| 04-12-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 07:47:13           | 623.9        | 30.1         | 0.2           | 68.2      | -361.0      | -2.7        |
| 07:47:15           | 623.9        | 30.1         | 0.2           | 68.2      | -361.0      | -2.7        |
| 07:47:16           | 623.9        | 30.1         | 0.2           | 68.2      | -361.0      | -2.7        |
| 07:47:25           | 623.5        | 30.0         | 0.2           | 68.5      | -360.0      | -2.7        |
| 07:47:35           | 621.7        | 30.0         | 0.2           | 68.5      | -355.8      | -2.7        |
| 07:47:45           | 623.1        | 30.0         | 0.2           | 68.6      | -356.9      | -2.7        |
| 07:47:55           | 623.1        | 30.0         | 0.2           | 68.7      | -356.9      | -2.7        |
| 07:48:05           | 622.1        | 30.0         | 0.2           | 68.8      | -357.2      | -2.7        |
| 07:48:15           | 622.4        | 30.0         | 0.2           | 68.9      | -357.3      | -2.7        |
| 07:48:25           | 622.1        | 30.0         | 0.2           | 68.9      | -357.4      | -2.7        |
| 07:48:35           | 621.8        | 30.0         | 0.2           | 68.8      | -357.8      | -2.6        |
| 07:48:45           | 622.5        | 30.0         | 0.2           | 68.9      | -358.4      | -2.7        |
| avg =              | 622.9        | 30.0         | 0.2           | 68.6      | -358.4      | -2.7        |

RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, MA  
 Performed for: NMMA  
 Date Printed = 04-12-1997 Current Time = 07:51:56  
 File Name = c:\cemdata\041297.PRN Calibration File:c:\cemdata\0412a.CAL

Test #: Pre out 297 in 15.0

| 04-12-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 07:52:01           | 304.9        | 14.8         | 0.2           | 68.7      | -431.4      | -2.6        |
| 07:52:02           | 304.9        | 14.8         | 0.2           | 68.7      | -431.4      | -2.6        |
| 07:52:05           | 305.9        | 14.8         | 0.2           | 68.7      | -458.6      | -2.7        |
| 07:52:15           | 305.7        | 14.8         | 0.2           | 68.7      | -405.2      | -2.6        |
| 07:52:25           | 305.0        | 14.8         | 0.2           | 68.8      | -407.8      | -2.7        |
| 07:52:35           | 305.9        | 14.8         | 0.2           | 68.9      | -408.4      | -2.7        |
| 07:52:45           | 305.5        | 14.8         | 0.2           | 69.0      | -410.4      | -2.6        |
| 07:52:55           | 304.9        | 14.8         | 0.2           | 69.0      | -411.4      | -2.6        |
| 07:53:05           | 305.2        | 14.8         | 0.2           | 69.0      | -412.3      | -2.6        |
| Avg =              | 305.3        | 14.8         | 0.2           | 68.8      | -419.6      | -2.6        |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-12-1997 Current Time = 07:54:39

File Name = c:\cendata\041297.PRM Calibration File: c:\cendata\0412a.CAL

Test #: Pre out 0

| 04-12-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 07:54:44           | 0.0          | 2.4          | 0.2           | 69.3      | -443.6      | -2.6        |
| 07:54:46           | 0.0          | 2.4          | 0.2           | 69.3      | -443.6      | -2.6        |
| 07:54:55           | 0.0          | 2.5          | 0.2           | 68.9      | -455.4      | -2.6        |
| 07:55:05           | 0.0          | 2.5          | 0.2           | 68.7      | -436.7      | -2.6        |
| 07:55:15           | 0.0          | 2.5          | 0.2           | 68.8      | -438.6      | -2.6        |
| 07:55:25           | 0.0          | 2.5          | 0.2           | 68.8      | -439.3      | -2.7        |
| 07:55:35           | 0.0          | 2.6          | 0.2           | 68.9      | -439.8      | -2.6        |
| Avg =              | 0.0          | 2.5          | 0.2           | 69.0      | -442.4      | -2.6        |



RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-12-1997 Current Time = 07:58:10

File Name = c:\cendata\041297.PRN Calibration File: c:\cendata\0412a.CAL

Test #: Pre in 0

| 04-12-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 07:58:15           | 2.0          | -0.1         | 0.2           | 69.5      | -468.2      | -2.6        |
| 07:58:16           | 2.0          | -0.1         | 0.2           | 69.5      | -468.2      | -2.6        |
| 07:58:25           | 2.0          | -0.2         | 0.2           | 69.5      | -462.0      | -2.6        |
| 07:58:35           | 2.0          | -0.2         | 0.2           | 69.5      | -439.5      | -2.6        |
| 07:58:45           | 2.0          | -0.2         | 0.2           | 69.5      | -441.9      | -2.7        |
| 07:58:55           | 2.0          | -0.2         | 0.2           | 69.5      | -443.3      | -2.7        |
| 07:59:05           | 2.0          | -0.2         | 0.2           | 69.4      | -444.2      | -2.7        |
| 07:59:15           | 2.0          | -0.2         | 0.2           | 69.5      | -444.4      | -2.6        |
| 07:59:25           | 2.0          | -0.2         | 0.2           | 69.5      | -445.0      | -2.7        |
| 07:59:35           | 2.0          | -0.2         | 0.2           | 69.6      | -445.5      | -2.6        |
| 07:59:45           | 2.0          | -0.2         | 0.2           | 69.6      | -445.8      | -2.6        |
| 07:59:55           | 2.0          | -0.2         | 0.2           | 69.6      | -445.9      | -2.7        |
| 08:00:05           | 2.0          | -0.3         | 0.2           | 69.5      | -445.9      | -2.7        |
| Avg =              | 2.0          | -0.2         | 0.2           | 69.5      | -449.2      | -2.6        |

## RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for:

NMMA

Date Printed = 04-12-1997 Current Time = 08:12:24

File Name = c:\ceadata\041297.PRN Calibration File:c:\ceadata\0412a.CAL

0412-01

NMMA-11-3

CPA mold

35% styrene Resin

Test #: 0412-01

| 04-12-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 08:13:05           | 3.0          | 2.6          | 0.2           | 69.3      | 201.9       | -2.7        |
| 08:14:05           | 3.0          | 2.6          | 0.2           | 69.7      | 201.9       | -2.7        |
| 08:15:05           | 20.4         | 2.5          | 0.2           | 70.1      | 200.8       | -2.7        |
| 08:16:05           | 90.7         | 2.5          | 0.2           | 70.3      | 198.5       | -2.7        |
| 08:17:05           | 229.1        | 2.5          | 0.2           | 70.4      | 195.4       | -2.7        |
| 08:18:05           | 208.0        | 2.6          | 0.2           | 70.4      | 194.9       | -2.7        |
| 08:19:05           | 170.8        | 2.7          | 0.2           | 70.4      | 194.9       | -2.7        |
| 08:20:05           | 148.5        | 2.5          | 0.2           | 70.1      | 194.9       | -2.7        |
| 08:21:05           | 157.6        | 2.4          | 0.2           | 70.3      | 195.1       | -2.7        |
| 08:22:05           | 147.4        | 2.4          | 0.2           | 70.5      | 195.1       | -2.7        |
| 08:23:05           | 130.2        | 2.4          | 0.2           | 70.7      | 195.1       | -2.7        |
| 08:24:05           | 118.1        | 2.5          | 0.2           | 70.8      | 195.1       | -2.7        |
| 08:25:05           | 104.0        | 2.5          | 0.2           | 70.8      | 195.1       | -2.7        |
| 08:26:05           | 101.4        | 2.5          | 0.2           | 71.0      | 195.1       | -2.7        |
| 08:27:05           | 93.3         | 2.4          | 0.1           | 70.7      | 195.0       | -1.9        |
| 08:28:05           | 86.2         | 2.5          | 0.1           | 70.5      | 195.0       | -2.7        |
| 08:29:05           | 79.6         | 2.5          | 0.1           | 71.0      | 195.0       | -2.5        |
| 08:30:05           | 74.0         | 2.4          | 0.1           | 70.8      | 195.0       | -2.2        |
| 08:31:05           | 70.9         | 2.4          | 0.2           | 71.1      | 195.0       | -2.7        |
| 08:32:05           | 67.0         | 2.4          | 0.2           | 71.2      | 195.0       | -2.7        |
| 08:33:05           | 61.3         | 2.3          | 0.2           | 71.3      | 195.0       | -2.7        |
| 08:34:05           | 57.0         | 2.3          | 0.2           | 71.3      | 195.0       | -2.7        |
| 08:35:05           | 52.7         | 2.3          | 0.2           | 71.3      | 195.0       | -2.7        |
| 08:36:05           | 50.1         | 2.3          | 0.2           | 71.4      | 195.0       | -2.7        |
| 08:37:05           | 47.7         | 2.3          | 0.2           | 71.5      | 195.0       | -2.7        |
| 08:38:05           | 45.0         | 2.3          | 0.2           | 71.5      | 195.0       | -2.7        |
| 08:39:05           | 42.6         | 2.3          | 0.2           | 71.6      | 194.9       | -2.7        |
| 08:40:05           | 40.0         | 2.3          | 0.2           | 71.5      | 194.9       | -2.7        |
| 08:41:05           | 38.6         | 2.3          | 0.2           | 71.6      | 194.9       | -2.7        |
| 08:42:05           | 36.8         | 2.3          | 0.2           | 71.6      | 194.9       | -2.7        |
| 08:43:05           | 34.4         | 2.4          | 0.2           | 71.6      | 194.9       | -2.7        |
| 08:44:05           | 33.5         | 2.3          | 0.2           | 71.7      | 194.9       | -2.7        |
| 08:45:05           | 31.0         | 2.3          | 0.2           | 71.7      | 194.9       | -2.7        |
| 08:46:05           | 30.5         | 2.4          | 0.2           | 71.8      | 194.9       | -2.7        |
| 08:47:05           | 28.2         | 2.4          | 0.2           | 71.9      | 194.9       | -2.7        |
| 08:48:05           | 27.2         | 2.4          | 0.2           | 72.0      | 194.9       | -2.7        |
| 08:49:05           | 26.0         | 2.4          | 0.2           | 72.0      | 194.9       | -2.7        |
| 08:50:05           | 25.3         | 2.3          | 0.2           | 72.1      | 194.9       | -2.7        |
| 08:51:05           | 25.0         | 2.3          | 0.2           | 72.2      | 194.9       | -2.7        |
| 08:52:05           | 23.2         | 2.3          | 0.2           | 72.2      | 194.9       | -2.7        |

Test #: 0412-01

| 04-12-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 08:53:05           | 22.4         | 2.3          | 0.2           | 72.2      | 194.9       | -2.7        |
| 08:54:05           | 20.9         | 2.3          | 0.2           | 72.2      | 194.9       | -2.7        |
| 08:55:05           | 20.4         | 2.3          | 0.2           | 72.2      | 194.9       | -2.7        |
| 08:56:05           | 20.1         | 2.4          | 0.2           | 72.3      | 194.9       | -2.7        |
| 08:57:05           | 18.9         | 2.3          | 0.2           | 72.2      | 194.9       | -2.7        |
| 08:58:05           | 18.2         | 2.3          | 0.2           | 72.3      | 194.9       | -2.7        |
| 08:59:05           | 17.3         | 2.3          | 0.2           | 72.4      | 194.9       | -2.7        |
| 09:00:05           | 16.5         | 2.3          | 0.2           | 72.4      | 194.9       | -2.7        |
| 09:01:05           | 15.6         | 2.3          | 0.2           | 72.5      | 194.9       | -2.7        |
| 09:02:05           | 14.2         | 2.3          | 0.2           | 72.5      | 194.8       | -2.7        |
| 09:03:05           | 13.8         | 2.3          | 0.2           | 72.6      | 194.8       | -2.9        |
| 09:04:05           | 13.3         | 2.2          | 0.2           | 72.6      | 194.8       | -2.9        |
| 09:05:05           | 12.4         | 2.2          | 0.2           | 72.7      | 194.8       | -2.9        |
| 09:06:05           | 12.2         | 2.3          | 0.2           | 72.8      | 194.8       | -2.9        |
| 09:07:05           | 11.2         | 2.3          | 0.2           | 72.9      | 194.8       | -2.9        |
| 09:08:05           | 10.8         | 2.3          | 0.2           | 73.0      | 194.8       | -2.9        |
| 09:09:05           | 10.2         | 2.3          | 0.2           | 73.0      | 194.8       | -2.9        |
| 09:10:05           | 9.9          | 2.3          | 0.2           | 73.0      | 194.8       | -2.9        |
| 09:11:05           | 9.2          | 2.3          | 0.2           | 73.1      | 194.8       | -2.9        |
| 09:12:05           | 8.9          | 2.3          | 0.2           | 73.1      | 194.8       | -2.9        |
| 09:13:05           | 8.2          | 2.3          | 0.2           | 73.2      | 194.8       | -2.9        |
| 09:14:05           | 8.1          | 2.3          | 0.2           | 73.4      | 194.7       | -2.9        |
| 09:15:05           | 8.1          | 2.3          | 0.2           | 73.4      | 194.7       | -2.9        |
| 09:16:05           | 7.1          | 2.4          | 0.2           | 73.5      | 194.7       | -2.9        |
| 09:17:05           | 7.0          | 2.4          | 0.2           | 73.4      | 194.7       | -2.9        |
| 09:18:05           | 7.0          | 2.4          | 0.2           | 73.4      | 194.7       | -2.9        |
| 09:19:05           | 6.6          | 2.4          | 0.2           | 73.3      | 194.7       | -2.9        |
| Avg =              | 47.9         | 2.4          | 0.2           | 71.8      | 195.3       | -2.7        |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-12-1997 Current Time = 09:27:16

File Name = c:\cemdata\041297.PRN Calibration File: c:\cemdata\0412a.CAL

Test #: Post-1 out 297 in 0

| 04-12-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 09:27:19           | 304.0        | -0.4         | 0.2           | 72.5      | -557.6      | -2.9        |
| 09:27:20           | 304.0        | -0.4         | 0.2           | 72.5      | -557.6      | -2.9        |
| 09:27:25           | 304.1        | -0.4         | 0.2           | 67.6      | -588.8      | -2.9        |
| 09:27:35           | 304.7        | -0.4         | 0.2           | 64.9      | -521.8      | -2.9        |
| 09:27:45           | 304.9        | -0.4         | 0.2           | 62.6      | -538.9      | -2.9        |
| 09:27:55           | 304.8        | -0.5         | 0.2           | 61.4      | -542.9      | -2.9        |
| 09:28:05           | 304.1        | -0.4         | 0.2           | 60.7      | -547.3      | -2.9        |
| 09:28:15           | 304.2        | -0.4         | 0.2           | 60.1      | -546.0      | -2.9        |
| Avg =              | 304.4        | -0.4         | 0.2           | 65.3      | -550.1      | -2.9        |

RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-12-1997 Current Time = 09:30:48  
 File Name = c:\cemdata\041297.PRN Calibration File: c:\cemdata\0412a.CAL

Test #: Post-1 out 600 in 30.4

| 04-12-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 09:30:51           | 626.2        | 29.7         | 0.2           | 55.7      | -446.0      | -3.0        |
| 09:30:52           | 626.2        | 29.7         | 0.2           | 55.7      | -446.0      | -3.0        |
| 09:30:55           | 628.9        | 29.6         | 0.2           | 55.6      | -459.2      | -2.5        |
| 09:31:05           | 627.1        | 29.6         | 0.2           | 55.5      | -402.5      | -3.0        |
| 09:31:15           | 625.6        | 29.6         | 0.2           | 55.5      | -386.2      | -3.0        |
| 09:31:25           | 626.0        | 29.5         | 0.2           | 55.6      | -375.7      | -3.0        |
| 09:31:35           | 628.4        | 29.8         | 0.2           | 55.8      | -368.9      | -3.0        |
| 09:31:45           | 630.7        | 30.1         | 0.2           | 56.0      | -363.5      | -3.0        |
| 09:31:55           | 627.4        | 29.6         | 0.2           | 56.1      | -357.9      | -3.0        |
| 09:32:05           | 627.0        | 29.6         | 0.2           | 56.0      | -356.8      | -3.0        |
| 09:32:15           | 627.0        | 29.6         | 0.2           | 55.9      | -356.7      | -3.0        |
| Avg =              | 627.5        | 29.7         | 0.2           | 55.8      | -392.7      | -3.0        |

## RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, MA

Performed for: NMMA

Date Printed = 04-12-1997 Current Time = 09:40:33

File Name = c:\ce\data\041297.PRM Calibration File: c:\ce\data\0412a.CAL

Test #: Post 1 out 0 in 15.0

| 04-12-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 09:40:37           | -0.0         | 13.7         | 0.2           | 58.8      | -398.3      | -2.9        |
| 09:40:38           | -0.0         | 13.7         | 0.2           | 58.8      | -398.3      | -2.9        |
| 09:40:45           | -0.0         | 13.7         | 0.2           | 59.5      | -402.4      | -2.9        |
| 09:40:55           | 0.0          | 13.8         | 0.2           | 59.8      | -386.3      | -2.9        |
| 09:41:05           | 0.0          | 13.7         | 0.2           | 60.0      | -387.1      | -2.9        |
| 09:41:15           | -0.0         | 13.7         | 0.2           | 60.3      | -390.8      | -2.9        |
| 09:41:25           | 0.0          | 13.7         | 0.2           | 60.6      | -392.2      | -2.9        |
| 09:41:35           | 0.0          | 13.7         | 0.2           | 61.0      | -392.5      | -2.9        |
| Avg =              | 0.0          | 13.7         | 0.2           | 59.9      | -393.7      | -2.9        |

CALIBRATION SUMMARY:

04-12-1997 09:51:02

CALIBRATION FILE NAME = c:\cendata\0412b.CAL

| Chan. | Name  | Units | Zero  |       | Scan  |       | Slope  | Int.      |
|-------|-------|-------|-------|-------|-------|-------|--------|-----------|
|       |       |       | Conc. | Reso. | Conc. | Reso. |        |           |
| 1     | THC o | ppm   | 0     | 0     | 914   | 8.8   | 103.35 | -.1014    |
| 2     | THC i | ppm   | 0     | .02   | 45.5  | 9.2   | 4.94   | -.1206    |
| 3     | Flow  | inH2O | 0     | 2.96  | .4    | 3.2   | 1.97   | -5.8162   |
| 4     | Temp  | F     | 32    | 1.98  | 212   | 3.3   | 137.51 | -240.4591 |
| 5     | Resin | lb    | 0     | 1.46  | 600   | 4.3   | 212.27 | -310.8426 |
| 6     | Ps    | inH2O | 0     | .7    | -1.1  | .9    | -4.67  | 3.2787    |

0412-02 (Pre)  
NMMA-S-1  
18-ft Deck 42% Styrene

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-12-1997 Current Time = 09:53:09

File Name = c:\ceadata\041297.PRN Calibration File: c:\ceadata\0412b.CAL

Test #: Pre-2 out 0 in 45.5

| 04-12-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 09:53:14           | 0.1          | 45.9         | 0.2           | 67.4      | -28.6       | -2.9        |
| 09:53:17           | -0.0         | 45.6         | 0.2           | 67.4      | -32.2       | -2.9        |
| 09:53:27           | 0.0          | 45.7         | 0.2           | 67.4      | -12.7       | -2.9        |
| 09:53:37           | 0.0          | 45.6         | 0.2           | 67.5      | -3.6        | -2.9        |
| 09:53:47           | 0.0          | 45.6         | 0.2           | 67.5      | -9.0        | -2.9        |
| 09:53:57           | 0.0          | 45.5         | 0.2           | 67.6      | -7.8        | -2.9        |
| 09:54:07           | 0.0          | 45.5         | 0.2           | 67.6      | -4.5        | -2.9        |
| 09:54:17           | -0.0         | 45.5         | 0.2           | 67.6      | -5.3        | -2.9        |
| 09:54:27           | 0.0          | 45.5         | 0.2           | 67.6      | -8.5        | -2.9        |
| 09:54:37           | 0.0          | 45.5         | 0.2           | 67.7      | -8.4        | -2.9        |
| 09:54:47           | 0.0          | 45.6         | 0.2           | 67.7      | -8.3        | -2.9        |
| avg =              | 0.0          | 45.6         | 0.2           | 67.5      | -12.2       | -2.9        |



RADIAN CORPORATION  
Environmental Measurement and Analysis Department  
Continuous Emissions Monitoring Data  
US Marine  
Arlington, MA

Performed for: NMMA

Date Printed = 04-12-1997 Current Time = 10:00:25

File Name = c:\cemdata\041297.PRN Calibration File: c:\cemdata\0412c.CAL

*note  
change*

Test #: Pre-2 out 914 in 30.4

| 04-12-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 10:00:30           | 912.3        | 30.7         | 0.2           | 68.2      | -429.9      | -2.9        |
| 10:00:31           | 912.3        | 30.7         | 0.2           | 68.2      | -429.9      | -2.9        |
| 10:00:33           | 912.3        | 30.7         | 0.2           | 68.2      | -429.9      | -2.9        |
| 10:00:42           | 913.2        | 30.8         | 0.2           | 68.3      | -402.6      | -2.9        |
| 10:00:52           | 913.5        | 30.8         | 0.2           | 68.3      | -377.2      | -2.9        |
| 10:01:10           | 913.5        | 30.8         | 0.2           | 68.3      | -377.2      | -2.9        |
| 10:01:12           | 914.8        | 30.7         | 0.2           | 68.4      | -410.7      | -2.9        |
| Avg =              | 913.1        | 30.8         | 0.2           | 68.3      | -408.2      | -2.9        |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-12-1997 Current Time = 10:05:24

File Name = c:\cemdata\041297.PRN Calibration File:c:\cemdata\0412c.CAL

Test #: Pre-2 out 600 in 15.0

| 04-12-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 10:05:26           | 602.9        | 15.1         | 0.2           | 68.5      | -460.8      | -2.9        |
| 10:05:27           | 602.9        | 15.1         | 0.2           | 68.5      | -460.8      | -2.9        |
| 10:05:32           | 600.8        | 15.3         | 0.2           | 68.4      | -442.7      | -2.9        |
| 10:05:42           | 601.3        | 15.3         | 0.2           | 68.4      | -406.8      | -2.9        |
| 10:05:52           | 601.6        | 15.3         | 0.2           | 68.5      | -412.7      | -2.9        |
| 10:06:02           | 601.2        | 15.3         | 0.2           | 68.5      | -417.6      | -2.9        |
| 10:06:12           | 601.7        | 15.3         | 0.2           | 68.5      | -420.1      | -2.9        |
| 10:06:22           | 601.8        | 15.3         | 0.2           | 68.5      | -421.5      | -2.9        |
| 10:06:32           | 600.3        | 15.3         | 0.2           | 68.5      | -422.4      | -2.9        |
| 10:06:42           | 601.9        | 15.3         | 0.2           | 68.6      | -422.7      | -2.9        |
| 10:06:52           | 600.3        | 15.3         | 0.2           | 68.6      | -423.2      | -2.9        |
| avg =              | 601.5        | 15.3         | 0.2           | 68.5      | -428.3      | -2.9        |

RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-12-1997 Current Time = 10:09:34  
 File Name = c:\ceadata\041297.PRN Calibration File: c:\ceadata\0412c.CAL

Test #: Pre 2 out 297 in 0

| 04-12-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 10:09:36           | 296.6        | 0.2          | 0.2           | 68.7      | -587.6      | -2.6        |
| 10:09:42           | 295.8        | 0.2          | 0.2           | 68.7      | -573.1      | -2.6        |
| 10:09:52           | 295.4        | 0.2          | 0.2           | 68.7      | -517.6      | -2.6        |
| 10:10:02           | 294.9        | 0.2          | 0.2           | 68.6      | -533.1      | -2.6        |
| 10:10:12           | 294.9        | 0.2          | 0.2           | 68.6      | -540.3      | -2.6        |
| 10:10:22           | 294.8        | 0.2          | 0.2           | 68.6      | -545.3      | -2.6        |
| 10:10:32           | 295.6        | 0.2          | 0.2           | 68.6      | -547.4      | -2.6        |
| 10:10:42           | 294.8        | 0.1          | 0.2           | 68.7      | -551.5      | -2.6        |
| 10:10:52           | 294.7        | 0.1          | 0.2           | 68.7      | -550.9      | -2.6        |
| 10:11:02           | 294.8        | 0.1          | 0.2           | 68.6      | -547.7      | -2.6        |
| 10:11:12           | 294.9        | 0.1          | 0.2           | 68.6      | -547.1      | -2.6        |
| 10:11:22           | 294.8        | 0.1          | 0.2           | 68.6      | -551.0      | -2.6        |
| Avg =              | 295.2        | 0.2          | 0.2           | 68.6      | -549.4      | -2.6        |

## RADIAM CORPORATION

Environmental Measurement and Analysis Department  
Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-12-1997 Current Time = 10:59:25

File Name = c:\ce\data\041297.PRN Calibration File: c:\ce\data\0412c.CAL

Test #: 0412-02

| 04-12-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 10:59:52           | -0.0         | -0.8         | 0.2           | 69.2      | 248.3       | -2.7        |
| 11:00:52           | -0.0         | -0.8         | 0.2           | 69.2      | 244.1       | -2.7        |
| 11:01:52           | -0.0         | -0.8         | 0.2           | 69.2      | 237.7       | -2.7        |
| 11:02:52           | 0.0          | -0.8         | 0.2           | 69.1      | 236.1       | -2.7        |
| 11:03:52           | 45.6         | 1.2          | 0.2           | 69.2      | 236.0       | -2.7        |
| 11:04:52           | 125.6        | 3.8          | 0.2           | 69.3      | 236.1       | -2.7        |
| 11:05:52           | 100.9        | 3.7          | 0.2           | 69.2      | 232.3       | -2.7        |
| 11:06:52           | 165.8        | 3.7          | 0.2           | 69.2      | 229.6       | -2.7        |
| 11:07:52           | 342.7        | 3.7          | 0.2           | 69.2      | 225.1       | -2.7        |
| 11:08:52           | 368.8        | 3.7          | 0.2           | 69.1      | 220.1       | -2.7        |
| 11:09:52           | 369.4        | 3.7          | 0.2           | 69.1      | 215.8       | -2.7        |
| 11:10:52           | 425.0        | 3.7          | 0.2           | 69.1      | 212.3       | -2.7        |
| 11:11:52           | 480.1        | 3.7          | 0.2           | 69.1      | 206.1       | -2.7        |
| 11:12:52           | 563.0        | 3.7          | 0.2           | 69.0      | 200.3       | -2.7        |
| 11:13:52           | 534.7        | 3.7          | 0.2           | 69.0      | 199.6       | -2.7        |
| 11:14:52           | 450.6        | 3.8          | 0.2           | 69.1      | 199.6       | -2.7        |
| 11:15:52           | 384.7        | 3.7          | 0.2           | 69.2      | 199.6       | -2.7        |
| 11:16:52           | 349.2        | 3.6          | 0.2           | 69.2      | 199.6       | -2.7        |
| 11:17:52           | 311.0        | 3.5          | 0.2           | 69.2      | 199.7       | -2.7        |
| 11:18:52           | 280.2        | 3.5          | 0.2           | 69.3      | 199.6       | -2.7        |
| 11:19:52           | 248.5        | 3.5          | 0.2           | 69.3      | 199.6       | -2.7        |
| 11:20:52           | 222.1        | 3.6          | 0.2           | 69.2      | 199.6       | -2.7        |
| 11:21:52           | 206.6        | 3.7          | 0.2           | 69.0      | 199.6       | -2.7        |
| 11:22:52           | 193.7        | 3.7          | 0.2           | 69.0      | 199.6       | -2.7        |
| 11:23:52           | 181.9        | 3.7          | 0.2           | 69.1      | 199.6       | -2.7        |
| 11:24:52           | 172.5        | 3.3          | 0.2           | 69.2      | 199.6       | -2.7        |
| 11:25:52           | 167.3        | 3.1          | 0.2           | 69.3      | 199.6       | -2.7        |
| 11:26:52           | 156.2        | 2.6          | 0.2           | 69.3      | 199.6       | -2.7        |
| 11:27:52           | 155.5        | 3.9          | 0.2           | 69.4      | 199.6       | -2.7        |
| 11:28:52           | 148.5        | 3.9          | 0.2           | 69.4      | 199.6       | -2.7        |
| 11:29:52           | 142.4        | 3.9          | 0.2           | 69.4      | 199.6       | -2.7        |
| 11:30:52           | 136.1        | 3.8          | 0.2           | 69.5      | 199.6       | -2.7        |
| 11:31:52           | 131.6        | 3.8          | 0.2           | 69.5      | 199.6       | -2.7        |
| 11:32:52           | 129.3        | 3.8          | 0.2           | 69.6      | 199.6       | -2.7        |
| 11:33:52           | 123.5        | 3.8          | 0.2           | 69.6      | 199.6       | -2.7        |
| 11:34:52           | 118.2        | 3.8          | 0.2           | 69.6      | 199.6       | -2.7        |
| 11:35:52           | 112.9        | 3.8          | 0.2           | 69.6      | 199.6       | -2.7        |
| 11:36:52           | 114.9        | 3.8          | 0.2           | 69.6      | 199.6       | -2.7        |
| 11:37:52           | 111.1        | 3.8          | 0.2           | 69.7      | 199.6       | -2.7        |
| 11:38:52           | 112.1        | 3.7          | 0.2           | 69.7      | 199.6       | -2.7        |

Test #: 0412-02

| 04-12-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 11:39:52           | 111.5        | 3.7          | 0.2           | 69.7      | 199.6       | -2.7        |
| 11:40:52           | 108.7        | 3.7          | 0.2           | 69.7      | 199.6       | -2.7        |
| 11:41:52           | 103.6        | 3.7          | 0.2           | 69.8      | 199.6       | -2.7        |
| 11:42:52           | 103.9        | 3.7          | 0.2           | 69.8      | 199.6       | -2.7        |
| 11:43:52           | 104.3        | 3.7          | 0.2           | 69.8      | 199.6       | -2.7        |
| 11:44:52           | 99.0         | 3.7          | 0.2           | 69.9      | 199.6       | -2.7        |
| 11:45:52           | 98.7         | 3.7          | 0.2           | 69.9      | 199.6       | -2.7        |
| 11:46:52           | 95.8         | 3.6          | 0.2           | 70.0      | 199.6       | -2.7        |
| 11:47:52           | 94.6         | 3.7          | 0.2           | 70.0      | 199.6       | -2.7        |
| 11:48:52           | 90.8         | 3.6          | 0.2           | 70.0      | 199.6       | -2.7        |
| 11:49:52           | 93.4         | 3.6          | 0.2           | 70.1      | 199.6       | -2.7        |
| 11:50:52           | 89.7         | 3.6          | 0.2           | 70.1      | 199.6       | -2.7        |
| 11:51:52           | 87.5         | 3.7          | 0.2           | 70.1      | 199.6       | -2.7        |
| 11:52:52           | 141.0        | 3.7          | 0.2           | 70.2      | 196.6       | -2.8        |
| 11:54:08           | 212.0        | 3.7          | 0.2           | 70.2      | 193.4       | -2.8        |
| 11:54:52           | 291.0        | 3.6          | 0.2           | 70.2      | 185.8       | -2.7        |
| 11:55:52           | 399.8        | 3.7          | 0.2           | 70.2      | 181.9       | -2.7        |
| 11:56:52           | 378.9        | 3.6          | 0.2           | 70.2      | 177.4       | -2.7        |
| 11:57:52           | 487.5        | 3.6          | 0.2           | 70.3      | 171.0       | -2.7        |
| 11:58:52           | 474.5        | 3.6          | 0.2           | 70.3      | 168.5       | -2.7        |
| 11:59:52           | 475.5        | 3.6          | 0.2           | 70.3      | 165.0       | -2.7        |
| 12:00:52           | 520.6        | 3.6          | 0.2           | 70.3      | 160.3       | -2.7        |
| 12:01:52           | 617.9        | 3.6          | 0.2           | 70.3      | 154.0       | -2.7        |
| 12:02:52           | 561.3        | 3.6          | 0.2           | 70.3      | 150.2       | -2.7        |
| 12:03:52           | 551.8        | 3.5          | 0.2           | 70.4      | 147.0       | -2.7        |
| 12:04:52           | 568.2        | 3.5          | 0.2           | 70.3      | 142.1       | -2.7        |
| 12:05:52           | 516.7        | 3.5          | 0.2           | 70.3      | 137.4       | -2.7        |
| 12:06:52           | 566.4        | 3.5          | 0.2           | 70.4      | 136.5       | -2.7        |
| 12:07:52           | 568.7        | 3.5          | 0.2           | 70.4      | 131.0       | -2.7        |
| 12:08:52           | 511.2        | 3.5          | 0.2           | 70.3      | 126.4       | -2.7        |
| 12:09:52           | 534.2        | 3.5          | 0.2           | 70.4      | 126.3       | -2.7        |
| 12:10:52           | 475.0        | 3.5          | 0.2           | 70.4      | 126.3       | -2.7        |
| 12:11:52           | 423.0        | 3.5          | 0.2           | 70.5      | 126.3       | -2.7        |
| 12:12:52           | 375.9        | 3.6          | 0.2           | 70.5      | 126.3       | -2.7        |
| 12:13:52           | 327.5        | 3.6          | 0.2           | 70.5      | 126.3       | -2.7        |
| 12:14:52           | 300.0        | 3.6          | 0.2           | 70.6      | 126.3       | -2.7        |
| 12:15:52           | 277.7        | 3.6          | 0.2           | 70.6      | 126.3       | -2.7        |
| 12:16:52           | 259.1        | 3.7          | 0.2           | 70.6      | 126.3       | -2.7        |
| 12:17:52           | 240.2        | 3.7          | 0.2           | 70.5      | 126.3       | -2.7        |
| 12:18:52           | 232.9        | 3.7          | 0.2           | 70.5      | 126.3       | -2.7        |
| 12:19:52           | 224.4        | 3.7          | 0.2           | 70.6      | 126.3       | -2.7        |
| 12:20:52           | 214.6        | 3.6          | 0.2           | 70.7      | 126.4       | -2.7        |
| 12:21:52           | 207.9        | 3.7          | 0.2           | 70.8      | 126.3       | -2.6        |
| 12:22:52           | 205.9        | 3.6          | 0.2           | 70.8      | 126.3       | -2.6        |
| 12:23:52           | 201.0        | 3.7          | 0.2           | 70.8      | 126.3       | -2.6        |
| 12:24:52           | 198.3        | 3.8          | 0.2           | 70.9      | 126.3       | -2.6        |
| 12:25:52           | 197.5        | 3.8          | 0.1           | 70.9      | 126.3       | -2.6        |
| 12:26:52           | 186.2        | 3.8          | 0.1           | 70.7      | 126.3       | -1.8        |
| 12:27:52           | 187.5        | 3.8          | 0.1           | 70.9      | 126.3       | -2.6        |
| 12:28:52           | 183.4        | 3.8          | 0.1           | 71.1      | 126.3       | -2.2        |
| 12:29:52           | 181.0        | 3.8          | 0.2           | 70.9      | 126.2       | -2.6        |
| 12:30:52           | 176.3        | 3.8          | 0.2           | 70.9      | 126.2       | -2.6        |
| 12:31:52           | 176.8        | 3.8          | 0.2           | 70.9      | 126.2       | -2.6        |
| 12:32:52           | 172.6        | 3.8          | 0.2           | 71.0      | 126.2       | -2.6        |
| 12:33:52           | 168.2        | 3.8          | 0.2           | 71.0      | 126.2       | -2.6        |
| 12:34:52           | 162.4        | 3.6          | 0.2           | 71.0      | 126.2       | -2.6        |

Test #: 0412-02

| 04-12-1997<br>Time | THC o<br>con | THC i<br>con | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 12:35:52           | 159.0        | 3.6          | 0.2           | 71.1      | 126.2       | -2.6        |
| 12:36:52           | 153.8        | 3.6          | 0.2           | 71.1      | 126.2       | -2.6        |
| 12:37:52           | 145.5        | 3.6          | 0.2           | 71.2      | 126.2       | -2.6        |
| 12:38:52           | 140.3        | 3.6          | 0.2           | 71.2      | 126.2       | -2.6        |
| 12:39:52           | 133.6        | 3.6          | 0.2           | 71.3      | 126.2       | -2.6        |
| 12:40:52           | 128.0        | 3.6          | 0.2           | 71.4      | 126.2       | -2.6        |
| 12:41:52           | 118.3        | 3.6          | 0.2           | 71.4      | 126.2       | -2.6        |
| 12:42:52           | 109.9        | 3.5          | 0.2           | 71.5      | 126.2       | -2.6        |
| 12:43:52           | 104.4        | 3.5          | 0.2           | 71.5      | 126.2       | -2.6        |
| 12:44:52           | 98.3         | 3.5          | 0.2           | 71.6      | 126.2       | -2.6        |
| 12:45:52           | 91.4         | 3.5          | 0.2           | 71.6      | 126.2       | -2.6        |
| 12:46:52           | 83.8         | 3.5          | 0.2           | 71.6      | 126.2       | -2.6        |
| 12:47:52           | 77.6         | 3.5          | 0.2           | 71.7      | 126.2       | -2.6        |
| 12:48:52           | 72.8         | 3.5          | 0.2           | 71.7      | 126.2       | -2.6        |
| 12:49:52           | 68.6         | 3.5          | 0.2           | 71.7      | 126.2       | -2.6        |
| 12:50:52           | 62.4         | 3.5          | 0.2           | 71.7      | 126.2       | -2.6        |
| 12:51:52           | 57.6         | 3.5          | 0.2           | 71.8      | 126.2       | -2.6        |
| 12:52:52           | 53.3         | 3.4          | 0.2           | 71.8      | 126.2       | -2.6        |
| 12:53:52           | 47.4         | 3.4          | 0.2           | 71.8      | 126.2       | -2.6        |
| 12:54:52           | 46.4         | 3.4          | 0.2           | 71.8      | 126.2       | -2.6        |
| 12:55:52           | 42.9         | 3.4          | 0.2           | 71.8      | 126.2       | -2.6        |
| 12:56:52           | 40.2         | 3.4          | 0.2           | 71.8      | 126.2       | -2.6        |
| 12:57:52           | 37.4         | 3.5          | 0.2           | 71.8      | 126.2       | -2.6        |
| 12:58:52           | 34.9         | 3.4          | 0.2           | 71.9      | 126.2       | -2.6        |
| 12:59:52           | 32.4         | 3.4          | 0.2           | 71.9      | 126.2       | -2.6        |
| 13:00:52           | 30.1         | 3.4          | 0.2           | 71.9      | 126.2       | -2.6        |
| 13:01:52           | 28.4         | 3.4          | 0.2           | 71.9      | 126.2       | -2.6        |
| 13:02:52           | 26.7         | 3.4          | 0.2           | 72.0      | 126.2       | -2.6        |
| 13:03:52           | 25.2         | 3.4          | 0.2           | 72.0      | 126.2       | -2.6        |
| 13:04:52           | 23.4         | 3.4          | 0.2           | 72.0      | 126.2       | -2.6        |
| 13:05:52           | 21.3         | 3.3          | 0.2           | 72.0      | 126.1       | -2.6        |
| 13:06:52           | 19.1         | 3.4          | 0.2           | 72.0      | 126.2       | -2.6        |
| 13:07:52           | 19.8         | 3.3          | 0.2           | 72.0      | 126.2       | -2.6        |
| 13:08:52           | 18.6         | 3.3          | 0.2           | 72.0      | 126.1       | -2.6        |
| 13:09:52           | 17.7         | 3.3          | 0.2           | 72.0      | 126.1       | -2.6        |
| 13:10:52           | 15.9         | 3.3          | 0.2           | 72.0      | 126.1       | -2.6        |
| 13:11:52           | 16.2         | 3.3          | 0.2           | 72.1      | 126.1       | -2.6        |
| 13:12:52           | 15.4         | 3.2          | 0.2           | 72.1      | 126.1       | -2.6        |
| 13:13:52           | 14.6         | 3.2          | 0.2           | 72.1      | 126.1       | -2.6        |
| 13:14:52           | 13.8         | 3.0          | 0.2           | 72.1      | 126.1       | -2.6        |
| 13:15:52           | 13.2         | 2.8          | 0.2           | 72.1      | 126.1       | -2.6        |
| 13:16:52           | 12.9         | 3.1          | 0.2           | 72.1      | 126.1       | -2.6        |
| 13:17:52           | 12.3         | 3.1          | 0.2           | 72.1      | 126.1       | -2.6        |
| 13:18:52           | 11.9         | 3.1          | 0.2           | 72.2      | 126.1       | -2.6        |
| 13:19:52           | 11.1         | 3.1          | 0.2           | 72.2      | 126.1       | -2.6        |
| 13:20:52           | 10.9         | 3.1          | 0.2           | 72.2      | 126.1       | -2.6        |
| 13:21:52           | 10.4         | 3.1          | 0.2           | 72.1      | 126.1       | -2.6        |
| 13:22:52           | 9.9          | 3.1          | 0.2           | 72.2      | 126.1       | -2.6        |
| 13:23:52           | 9.9          | 3.1          | 0.2           | 72.2      | 126.1       | -2.6        |
| 13:24:52           | 9.6          | 3.1          | 0.2           | 72.2      | 126.1       | -2.6        |
| 13:25:52           | 9.1          | 3.1          | 0.2           | 72.2      | 126.1       | -2.6        |
| 13:26:52           | 9.0          | 3.1          | 0.2           | 72.2      | 126.1       | -2.6        |
| 13:27:52           | 9.0          | 3.1          | 0.2           | 72.2      | 126.1       | -2.6        |
| 13:28:52           | 8.7          | 3.1          | 0.2           | 72.2      | 126.1       | -2.6        |
| 13:29:52           | 7.9          | 3.1          | 0.2           | 72.2      | 126.1       | -2.6        |
| 13:30:52           | 7.9          | 3.0          | 0.2           | 72.1      | 126.1       | -2.6        |

Test #: 0412-02

| 04-12-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Res. o<br>inH2O | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-----------------|-------------|
| 13:31:52           | 7.9          | 3.0          | 0.2           | 72.1      | 126.1           | -2.7        |
| 13:32:52           | 7.8          | 3.1          | 0.2           | 72.1      | 126.1           | -2.6        |
| 13:33:52           | 6.8          | 3.1          | 0.2           | 72.1      | 126.1           | -2.7        |
| 13:34:52           | 6.8          | 3.1          | 0.2           | 72.1      | 126.1           | -2.7        |
| Avg =              | 173.0        | 3.4          | 0.2           | 70.7      | 157.3           | -2.7        |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-12-1997 Current Time = 13:39:47

File Name = c:\cemd\041297.PRN Calibration File: c:\cemd\0412c.CAL

Test #: Post-2 out 297 in 0

| 04-12-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 13:39:51           | 284.0        | 0.2          | 0.2           | 72.1      | 126.1       | -2.7        |
| 13:39:52           | 284.0        | 0.2          | 0.2           | 72.1      | 126.1       | -2.7        |
| 13:39:53           | 284.0        | 0.2          | 0.2           | 72.1      | 126.1       | -2.7        |
| 13:40:02           | 284.4        | 0.2          | 0.2           | 72.1      | 126.1       | -2.6        |
| 13:40:12           | 284.0        | 0.2          | 0.2           | 72.1      | 126.0       | -2.6        |
| 13:40:22           | 284.8        | 0.2          | 0.2           | 72.1      | 126.1       | -2.7        |
| 13:40:32           | 284.5        | 0.2          | 0.2           | 72.1      | 126.1       | -2.6        |
| 13:40:42           | 284.1        | 0.2          | 0.2           | 72.1      | 126.1       | -2.6        |
| 13:40:52           | 284.4        | 0.2          | 0.2           | 72.1      | 126.1       | -2.7        |
| 13:41:02           | 285.4        | 0.2          | 0.2           | 72.1      | 126.0       | -2.7        |
| Avg =              | 284.4        | 0.2          | 0.2           | 72.1      | 126.1       | -2.7        |



RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-12-1997 Current Time = 13:44:49  
 File Name = c:\ce\data\041297.PRM Calibration File: c:\ce\data\0412c.CAL

Test #: Post-2 out 600 in 30.4

| 04-12-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 13:44:53           | 584.5        | 31.7         | 0.2           | 72.2      | -284.8      | -2.7        |
| 13:44:55           | 584.5        | 31.7         | 0.2           | 72.2      | -284.8      | -2.7        |
| 13:45:02           | 586.5        | 31.5         | 0.2           | 72.1      | -293.0      | -2.7        |
| 13:45:12           | 585.0        | 31.5         | 0.2           | 72.1      | -326.7      | -2.6        |
| 13:45:22           | 584.6        | 31.5         | 0.2           | 72.1      | -341.8      | -2.6        |
| 13:45:32           | 586.1        | 31.5         | 0.2           | 72.1      | -339.6      | -2.6        |
| 13:45:42           | 586.5        | 31.6         | 0.2           | 72.1      | -337.7      | -2.6        |
| 13:45:52           | 585.1        | 31.6         | 0.2           | 72.1      | -336.1      | -2.6        |
| Avg =              | 585.4        | 31.6         | 0.2           | 72.1      | -318.1      | -2.7        |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-12-1997 Current Time = 13:48:37

File Name = c:\cemdata\041297.PRN Calibration File: c:\cemdata\0412c.CAL

Test #: Post-2 out 0 in 15.0

| 04-12-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 13:48:42           | -0.0         | 15.7         | 0.2           | 71.8      | -443.8      | -2.6        |
| 13:48:43           | -0.0         | 15.7         | 0.2           | 71.8      | -443.8      | -2.6        |
| 13:48:52           | -0.0         | 15.7         | 0.2           | 71.8      | -418.4      | -2.6        |
| 13:49:02           | -0.0         | 15.7         | 0.2           | 71.8      | -408.6      | -2.6        |
| 13:49:12           | -0.0         | 15.7         | 0.2           | 71.7      | -411.0      | -2.6        |
| 13:49:22           | -0.0         | 15.7         | 0.2           | 71.7      | -412.4      | -2.6        |
| 13:49:32           | -0.0         | 15.6         | 0.2           | 71.7      | -413.3      | -2.6        |
| Avg =              | -0.0         | 15.7         | 0.2           | 71.8      | -421.6      | -2.6        |

RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-12-1997 Current Time = 14:20:26  
 File Name = c:\ce\data\041297.PRN Calibration File: c:\ce\data\0412c.CAL

Test #: out 204 styrene

| 04-12-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 14:20:29           | 470.3        | 3.0          | 0.2           | 67.1      | -576.4      | -2.7        |
| 14:20:32           | 470.3        | 3.4          | 0.2           | 67.2      | -608.3      | -2.7        |
| 14:20:42           | 470.3        | 3.2          | 0.2           | 67.1      | -502.3      | -2.7        |
| 14:20:52           | 469.7        | 3.0          | 0.2           | 67.1      | -552.3      | -2.7        |
| 14:21:02           | 468.9        | 2.7          | 0.2           | 67.0      | -532.4      | -2.7        |
| 14:21:12           | 469.1        | 2.8          | 0.2           | 67.0      | -521.1      | -2.8        |
| 14:21:22           | 470.3        | 2.8          | 0.2           | 67.0      | -516.7      | -2.7        |
| 14:21:32           | 469.8        | 2.8          | 0.2           | 67.0      | -515.1      | -2.8        |
| 14:21:42           | 469.3        | 2.7          | 0.2           | 67.0      | -512.0      | -2.7        |
| 14:21:52           | 469.2        | 2.7          | 0.2           | 67.0      | -554.4      | -2.7        |
| 14:22:02           | 469.5        | 2.7          | 0.2           | 67.0      | -534.4      | -2.7        |
| 14:22:12           | 470.3        | 2.7          | 0.2           | 67.1      | -525.1      | -2.7        |
| 14:22:22           | 470.3        | 2.6          | 0.2           | 67.0      | -519.6      | -2.7        |
| 14:22:32           | 470.0        | 2.7          | 0.2           | 66.8      | -519.0      | -2.7        |
| 14:22:42           | 469.3        | 2.6          | 0.2           | 66.6      | -517.2      | -2.7        |
| 14:22:52           | 468.9        | 2.6          | 0.2           | 66.4      | -515.5      | -2.7        |
| 14:23:02           | 468.7        | 2.5          | 0.2           | 66.3      | -513.8      | -2.7        |
| 14:23:12           | 468.8        | 2.3          | 0.2           | 66.3      | -549.8      | -2.7        |
| 14:23:22           | 470.3        | 2.3          | 0.2           | 66.4      | -533.7      | -2.7        |
| 14:23:32           | 469.3        | 2.3          | 0.2           | 66.6      | -525.0      | -2.7        |
| 14:23:42           | 467.5        | 2.3          | 0.2           | 66.7      | -523.1      | -2.7        |
| 14:23:52           | 469.8        | 2.6          | 0.2           | 66.7      | -519.5      | -2.7        |
| 14:24:02           | 469.7        | 2.5          | 0.2           | 66.7      | -518.5      | -2.7        |
| 14:24:12           | 467.9        | 2.3          | 0.2           | 66.7      | -517.5      | -2.7        |
| 14:24:22           | 468.1        | 2.3          | 0.2           | 66.8      | -519.3      | -2.7        |
| 14:24:32           | 469.9        | 2.3          | 0.2           | 66.8      | -518.3      | -2.7        |
| 14:24:42           | 468.4        | 2.2          | 0.2           | 66.9      | -519.6      | -2.7        |
| Avg =              | 469.4        | 2.6          | 0.2           | 66.8      | -528.9      | -2.7        |

## RADIANT CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-12-1997 Current Time = 14:29:19

File Name = c:\ce\data\041297.PRN Calibration File: c:\ce\data\0412c.CAL

Test #: Out 204 styrene-2

| 04-12-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 14:29:22           | 468.4        | 2.3          | 0.2           | 69.4      | -568.5      | -2.7        |
| 14:29:24           | 468.4        | 2.3          | 0.2           | 69.4      | -568.5      | -2.7        |
| 14:29:32           | 467.4        | 2.3          | 0.2           | 69.5      | -526.3      | -2.7        |
| 14:29:42           | 468.4        | 2.3          | 0.2           | 69.6      | -533.8      | -2.7        |
| 14:29:52           | 467.4        | 2.4          | 0.2           | 69.7      | -528.9      | -2.7        |
| 14:30:02           | 467.3        | 2.4          | 0.2           | 69.7      | -522.3      | -2.7        |
| 14:30:12           | 468.4        | 2.3          | 0.2           | 69.7      | -519.9      | -2.7        |
| 14:30:22           | 467.5        | 2.3          | 0.2           | 69.8      | -520.4      | -2.7        |
| 14:30:32           | 467.4        | 2.3          | 0.2           | 69.8      | -520.3      | -2.7        |
| 14:30:42           | 467.4        | 2.3          | 0.2           | 69.9      | -521.8      | -2.7        |
| 14:30:52           | 467.4        | 2.3          | 0.2           | 70.0      | -521.4      | -2.6        |
| 14:31:02           | 467.4        | 2.3          | 0.2           | 70.0      | -521.3      | -2.7        |
| 14:31:12           | 467.4        | 2.3          | 0.2           | 70.0      | -520.9      | -2.7        |
| 14:31:22           | 467.4        | 2.3          | 0.2           | 70.1      | -520.9      | -2.7        |
| 14:31:32           | 467.4        | 2.3          | 0.2           | 70.1      | -520.8      | -2.7        |
| 14:31:42           | 467.4        | 2.3          | 0.2           | 70.2      | -520.4      | -2.6        |
| 14:31:52           | 467.4        | 2.3          | 0.2           | 70.2      | -520.5      | -2.7        |
| 14:32:02           | 466.4        | 2.4          | 0.2           | 70.2      | -520.4      | -2.7        |
| 14:32:12           | 467.5        | 2.4          | 0.2           | 70.2      | -520.0      | -2.7        |
| 14:32:22           | 468.0        | 2.4          | 0.2           | 70.3      | -520.5      | -2.6        |
| 14:32:32           | 466.7        | 2.4          | 0.2           | 70.3      | -520.6      | -2.7        |
| 14:32:42           | 467.6        | 2.4          | 0.2           | 70.4      | -520.3      | -2.7        |
| 14:32:52           | 467.8        | 2.4          | 0.2           | 70.4      | -520.1      | -2.7        |
| Avg =              | 467.6        | 2.3          | 0.2           | 70.0      | -526.0      | -2.7        |

RADIANT CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-12-1997 Current Time = 14:43:53  
 File Name = c:\cemdata\041297.PRN Calibration File: c:\cemdata\0412c.CAL

Test #: Out 59.2 styrene

| 04-12-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 14:43:58           | 140.8        | 2.8          | 0.2           | 71.2      | -454.5      | -2.7        |
| 14:44:00           | 140.8        | 2.8          | 0.2           | 71.2      | -454.5      | -2.7        |
| 14:44:02           | 146.5        | 2.7          | 0.2           | 71.3      | -550.6      | -2.7        |
| 14:44:12           | 148.1        | 2.6          | 0.2           | 71.3      | -463.4      | -2.7        |
| 14:44:22           | 146.2        | 2.6          | 0.2           | 71.3      | -452.3      | -2.7        |
| 14:44:32           | 144.6        | 2.6          | 0.2           | 71.3      | -456.6      | -2.6        |
| 14:44:42           | 144.4        | 2.6          | 0.2           | 71.4      | -470.6      | -2.6        |
| 14:44:52           | 145.7        | 2.8          | 0.2           | 71.3      | -471.3      | -2.6        |
| 14:45:02           | 147.4        | 2.8          | 0.2           | 71.4      | -470.6      | -2.7        |
| 14:45:12           | 147.1        | 2.8          | 0.2           | 71.4      | -470.1      | -2.7        |
| 14:45:22           | 146.6        | 2.8          | 0.2           | 71.4      | -470.2      | -2.7        |
| 14:45:32           | 148.8        | 2.8          | 0.2           | 71.4      | -470.3      | -2.7        |
| 14:45:42           | 149.6        | 2.6          | 0.2           | 71.4      | -473.3      | -2.7        |
| 14:45:52           | 149.4        | 2.6          | 0.2           | 71.3      | -470.9      | -2.6        |
| 14:46:02           | 149.6        | 2.6          | 0.2           | 71.3      | -471.0      | -2.7        |
| 14:46:12           | 148.2        | 2.9          | 0.2           | 71.3      | -472.6      | -2.6        |
| 14:46:22           | 149.7        | 2.8          | 0.2           | 71.3      | -471.7      | -2.6        |
| 14:46:32           | 149.5        | 2.7          | 0.2           | 71.3      | -475.1      | -2.7        |
| 14:46:42           | 148.0        | 2.7          | 0.2           | 71.4      | -471.2      | -2.7        |
| 14:46:52           | 147.8        | 2.6          | 0.2           | 71.3      | -471.8      | -2.6        |
| 14:47:02           | 150.7        | 2.6          | 0.2           | 71.3      | -471.1      | -2.7        |
| 14:47:12           | 150.3        | 2.6          | 0.2           | 71.3      | -471.4      | -2.7        |
| 14:47:22           | 149.3        | 2.7          | 0.2           | 71.2      | -472.1      | -2.7        |
| 14:47:32           | 150.8        | 2.9          | 0.2           | 71.3      | -471.3      | -2.7        |
| 14:47:42           | 151.1        | 2.7          | 0.2           | 71.3      | -471.4      | -2.6        |
| 14:47:52           | 150.3        | 2.6          | 0.2           | 71.3      | -472.2      | -2.7        |
| 14:48:02           | 150.4        | 2.8          | 0.2           | 71.3      | -472.0      | -2.6        |
| 14:48:12           | 151.2        | 2.9          | 0.2           | 71.3      | -471.2      | -2.7        |
| 14:48:22           | 151.3        | 2.7          | 0.1           | 71.3      | -471.2      | -2.7        |
| 14:48:32           | 151.2        | 2.7          | 0.2           | 71.3      | -471.9      | -2.7        |
| 14:48:42           | 151.1        | 2.7          | 0.2           | 71.4      | -471.9      | -2.7        |
| 14:48:52           | 151.2        | 2.7          | 0.2           | 71.4      | -471.7      | -2.7        |
| 14:49:02           | 150.8        | 2.7          | 0.2           | 71.3      | -472.2      | -2.7        |
| Avg =              | 148.4        | 2.7          | 0.2           | 71.3      | -471.6      | -2.7        |

## RADIANT CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for:

NMMA

Date Printed = 04-12-1997 Current Time = 15:11:48

File Name = c:\cendata\041297.PRN Calibration File: c:\cendata\0412c.CAL

0412-3

NMMA-2-1

K8' Hull 42% Styrene Spray

Test #: 0412-3

| 04-12-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 15:12:12           | 2.6          | 2.7          | 0.2           | 71.9      | 375.2       | -2.7        |
| 15:13:12           | 3.0          | 2.7          | 0.2           | 71.9      | 374.9       | -2.7        |
| 15:14:43           | 29.9         | 2.7          | 0.2           | 71.9      | 373.2       | -2.7        |
| 15:15:12           | 190.5        | 2.7          | 0.2           | 71.9      | 366.2       | -2.7        |
| 15:16:12           | 340.0        | 2.7          | 0.2           | 71.8      | 361.2       | -2.7        |
| 15:17:12           | 458.8        | 2.7          | 0.2           | 71.8      | 354.4       | -2.7        |
| 15:18:12           | 578.0        | 2.7          | 0.2           | 71.8      | 349.8       | -2.7        |
| 15:19:12           | 464.5        | 2.7          | 0.2           | 71.8      | 349.8       | -2.7        |
| 15:20:12           | 518.8        | 2.7          | 0.2           | 71.8      | 347.0       | -2.7        |
| 15:21:12           | 454.9        | 2.7          | 0.2           | 71.8      | 346.4       | -2.7        |
| 15:22:12           | 369.9        | 2.7          | 0.2           | 72.0      | 346.3       | -2.7        |
| 15:23:12           | 232.2        | 2.7          | 0.2           | 72.0      | 346.3       | -2.7        |
| 15:24:12           | 216.3        | 2.7          | 0.2           | 72.0      | 346.7       | -2.7        |
| 15:25:12           | 229.8        | 2.7          | 0.2           | 72.1      | 347.3       | -2.7        |
| 15:26:12           | 189.0        | 2.7          | 0.2           | 72.1      | 346.1       | -2.7        |
| 15:27:12           | 233.8        | 2.7          | 0.2           | 72.0      | 341.0       | -2.7        |
| 15:28:12           | 420.5        | 2.7          | 0.2           | 71.9      | 333.9       | -2.7        |
| 15:29:12           | 599.1        | 2.7          | 0.2           | 71.8      | 327.4       | -2.7        |
| 15:30:12           | 781.2        | 2.7          | 0.2           | 71.8      | 320.4       | -2.7        |
| 15:31:12           | 913.8        | 2.7          | 0.2           | 71.7      | 315.9       | -2.7        |
| 15:32:12           | 674.0        | 2.7          | 0.2           | 71.8      | 315.9       | -2.7        |
| 15:33:12           | 579.0        | 2.7          | 0.2           | 71.8      | 315.9       | -2.7        |
| 15:34:12           | 458.3        | 2.7          | 0.2           | 71.9      | 315.9       | -2.7        |
| 15:35:12           | 407.3        | 2.7          | 0.2           | 72.0      | 315.9       | -2.7        |
| 15:36:12           | 352.0        | 2.7          | 0.2           | 72.0      | 315.9       | -2.7        |
| 15:37:12           | 298.9        | 2.8          | 0.2           | 72.0      | 316.0       | -2.7        |
| 15:38:12           | 257.6        | 2.7          | 0.2           | 71.9      | 316.0       | -2.7        |
| 15:39:12           | 245.5        | 2.8          | 0.2           | 71.9      | 316.0       | -2.7        |
| 15:40:12           | 223.7        | 2.8          | 0.2           | 72.0      | 316.0       | -2.7        |
| 15:41:12           | 195.8        | 2.8          | 0.2           | 72.0      | 316.0       | -2.7        |
| 15:42:12           | 191.1        | 2.8          | 0.2           | 72.0      | 316.0       | -2.7        |
| 15:43:12           | 194.9        | 2.8          | 0.2           | 72.0      | 316.0       | -2.7        |
| 15:44:12           | 171.6        | 2.8          | 0.2           | 72.0      | 316.0       | -2.7        |
| 15:45:12           | 167.9        | 2.8          | 0.2           | 72.0      | 316.0       | -2.7        |
| 15:46:12           | 174.4        | 2.7          | 0.2           | 72.0      | 316.0       | -2.7        |
| 15:47:12           | 167.7        | 2.8          | 0.2           | 72.1      | 316.0       | -2.7        |
| 15:48:12           | 150.5        | 2.7          | 0.2           | 72.1      | 316.0       | -2.7        |
| 15:49:12           | 143.8        | 2.7          | 0.2           | 72.1      | 316.0       | -2.7        |
| 15:50:12           | 145.2        | 2.7          | 0.2           | 72.1      | 316.0       | -2.7        |
| 15:51:12           | 139.3        | 2.7          | 0.2           | 72.1      | 316.0       | -2.7        |

Test #: 0412-3

| 04-12-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 15:52:12           | 147.6        | 2.7          | 0.2           | 72.1      | 316.0       | -2.7        |
| 15:53:12           | 139.1        | 2.7          | 0.2           | 72.2      | 316.0       | -2.7        |
| 15:54:12           | 130.5        | 2.7          | 0.2           | 72.2      | 316.0       | -2.7        |
| 15:55:12           | 125.1        | 2.7          | 0.2           | 72.2      | 316.0       | -2.7        |
| 15:56:12           | 122.7        | 2.7          | 0.2           | 72.2      | 316.0       | -2.7        |
| 15:57:12           | 120.4        | 2.7          | 0.2           | 72.2      | 316.0       | -2.7        |
| 15:58:12           | 115.8        | 2.7          | 0.2           | 72.2      | 316.0       | -2.7        |
| 15:59:12           | 107.5        | 2.7          | 0.2           | 72.2      | 316.0       | -2.7        |
| 16:00:12           | 103.5        | 2.7          | 0.2           | 72.2      | 316.1       | -2.7        |
| 16:01:12           | 116.4        | 2.7          | 0.2           | 72.3      | 316.6       | -2.7        |
| 16:02:12           | 116.1        | 2.7          | 0.2           | 72.3      | 315.5       | -2.7        |
| 16:03:12           | 230.7        | 2.7          | 0.2           | 72.2      | 310.4       | -2.7        |
| 16:04:12           | 424.5        | 2.7          | 0.2           | 72.2      | 306.6       | -2.7        |
| 16:05:12           | 412.1        | 2.7          | 0.2           | 72.2      | 303.6       | -2.7        |
| 16:06:12           | 532.9        | 2.7          | 0.2           | 72.2      | 297.9       | -2.7        |
| 16:07:12           | 518.2        | 2.7          | 0.2           | 72.2      | 295.2       | -2.7        |
| 16:08:12           | 552.4        | 2.7          | 0.2           | 72.2      | 292.7       | -2.7        |
| 16:09:12           | 572.2        | 2.7          | 0.2           | 72.1      | 290.6       | -2.7        |
| 16:10:12           | 471.3        | 2.7          | 0.2           | 72.2      | 290.3       | -2.7        |
| 16:11:12           | 525.5        | 2.7          | 0.2           | 72.2      | 285.3       | -2.7        |
| 16:12:12           | 612.5        | 2.7          | 0.2           | 72.2      | 282.5       | -2.7        |
| 16:13:12           | 481.1        | 2.7          | 0.2           | 72.2      | 282.5       | -2.7        |
| 16:14:12           | 391.1        | 2.7          | 0.2           | 72.2      | 282.0       | -2.7        |
| 16:15:12           | 462.7        | 2.6          | 0.2           | 72.2      | 279.9       | -2.7        |
| 16:16:12           | 413.5        | 2.6          | 0.2           | 72.2      | 279.9       | -2.7        |
| 16:17:12           | 390.3        | 2.6          | 0.2           | 72.2      | 279.9       | -2.9        |
| 16:18:12           | 337.8        | 2.6          | 0.2           | 72.3      | 279.9       | -2.9        |
| 16:19:12           | 293.4        | 2.6          | 0.2           | 72.3      | 279.9       | -2.9        |
| 16:20:12           | 282.4        | 2.6          | 0.2           | 72.3      | 279.9       | -2.9        |
| 16:21:12           | 264.3        | 2.6          | 0.2           | 72.3      | 279.9       | -2.9        |
| 16:22:12           | 232.4        | 2.6          | 0.2           | 72.3      | 279.9       | -2.9        |
| 16:23:12           | 213.0        | 2.7          | 0.2           | 72.3      | 279.9       | -2.9        |
| 16:24:12           | 191.6        | 2.8          | 0.2           | 72.3      | 279.9       | -2.9        |
| 16:25:12           | 172.7        | 2.8          | 0.2           | 72.3      | 279.9       | -2.9        |
| 16:26:12           | 174.9        | 2.8          | 0.2           | 72.3      | 280.5       | -2.9        |
| 16:27:12           | 154.2        | 2.9          | 0.2           | 72.4      | 280.2       | -2.9        |
| 16:28:12           | 141.3        | 2.9          | 0.2           | 72.3      | 280.2       | -2.9        |
| 16:29:12           | 127.4        | 2.9          | 0.2           | 72.3      | 280.3       | -2.9        |
| 16:30:12           | 119.8        | 2.9          | 0.2           | 72.3      | 280.3       | -2.9        |
| 16:31:12           | 118.3        | 2.8          | 0.2           | 72.3      | 280.3       | -2.9        |
| 16:32:12           | 107.4        | 2.8          | 0.2           | 72.3      | 280.3       | -2.9        |
| 16:33:12           | 105.2        | 2.8          | 0.2           | 72.3      | 280.3       | -2.6        |
| 16:34:12           | 100.0        | 2.8          | 0.2           | 72.3      | 280.3       | -2.6        |
| 16:35:12           | 99.0         | 2.9          | 0.2           | 72.3      | 280.3       | -2.6        |
| 16:36:12           | 135.1        | 2.8          | 0.2           | 72.3      | 276.2       | -2.6        |
| 16:37:12           | 311.6        | 2.8          | 0.2           | 72.4      | 271.1       | -2.6        |
| 16:38:12           | 350.9        | 2.9          | 0.2           | 72.4      | 268.6       | -2.6        |
| 16:39:12           | 437.1        | 2.9          | 0.2           | 72.3      | 262.6       | -2.6        |
| 16:40:12           | 464.5        | 2.8          | 0.2           | 72.3      | 261.1       | -2.6        |
| 16:41:12           | 502.5        | 2.8          | 0.1           | 72.3      | 257.5       | -2.6        |
| 16:42:12           | 420.5        | 2.7          | 0.2           | 72.3      | 257.3       | -2.6        |
| 16:43:12           | 503.0        | 2.8          | 0.2           | 72.3      | 252.1       | -2.6        |
| 16:44:12           | 616.5        | 2.8          | 0.1           | 72.3      | 246.4       | -2.6        |
| 16:45:12           | 576.2        | 2.8          | 0.1           | 72.2      | 244.6       | -2.6        |
| 16:46:12           | 553.5        | 2.8          | 0.2           | 72.2      | 242.4       | -2.6        |
| 16:47:12           | 572.5        | 2.7          | 0.2           | 72.2      | 241.0       | -2.6        |

Test #: 0412-3

| 04-12-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 16:48:12           | 485.4        | 2.7          | 0.1           | 72.2      | 241.0       | -2.6        |
| 16:49:12           | 439.1        | 2.8          | 0.1           | 72.2      | 240.6       | -2.6        |
| 16:50:12           | 388.0        | 2.8          | 0.1           | 72.3      | 240.6       | -2.6        |
| 16:51:12           | 348.3        | 2.8          | 0.2           | 72.3      | 240.3       | -2.6        |
| 16:52:12           | 307.2        | 2.9          | 0.1           | 72.2      | 238.8       | -2.6        |
| 16:53:12           | 256.5        | 2.9          | 0.1           | 72.2      | 238.8       | -2.6        |
| 16:54:12           | 223.5        | 3.0          | 0.2           | 72.2      | 238.8       | -2.6        |
| 16:55:12           | 208.9        | 3.0          | 0.2           | 72.2      | 238.8       | -2.6        |
| 16:56:12           | 193.9        | 3.0          | 0.2           | 72.1      | 238.8       | -2.6        |
| 16:57:12           | 187.1        | 3.0          | 0.2           | 72.2      | 238.8       | -2.6        |
| 16:58:12           | 172.5        | 3.0          | 0.2           | 72.2      | 238.8       | -2.6        |
| 16:59:12           | 152.7        | 3.0          | 0.1           | 72.1      | 238.8       | -2.6        |
| 17:00:12           | 140.2        | 2.9          | 0.1           | 72.1      | 238.8       | -2.6        |
| 17:01:12           | 140.2        | 2.9          | 0.1           | 72.1      | 238.9       | -2.6        |
| 17:02:12           | 120.9        | 2.9          | 0.2           | 72.0      | 238.9       | -2.6        |
| 17:03:12           | 116.9        | 2.9          | 0.2           | 72.0      | 238.9       | -2.6        |
| 17:04:12           | 113.5        | 2.9          | 0.2           | 72.0      | 238.9       | -2.6        |
| 17:05:12           | 133.5        | 2.9          | 0.1           | 72.1      | 238.9       | -2.6        |
| 17:06:12           | 147.2        | 2.9          | 0.2           | 72.2      | 238.9       | -2.6        |
| 17:07:12           | 139.6        | 2.9          | 0.1           | 72.2      | 238.9       | -2.6        |
| 17:08:12           | 132.6        | 2.8          | 0.1           | 72.2      | 238.9       | -2.6        |
| 17:09:12           | 123.3        | 2.8          | 0.1           | 72.3      | 238.9       | -2.6        |
| 17:10:12           | 116.2        | 2.8          | 0.1           | 72.1      | 238.9       | -1.6        |
| 17:11:12           | 116.3        | 2.8          | 0.2           | 72.3      | 238.9       | -2.6        |
| 17:12:12           | 112.5        | 2.8          | 0.2           | 72.3      | 238.9       | -2.6        |
| 17:13:12           | 103.8        | 2.7          | 0.2           | 72.3      | 238.9       | -2.6        |
| 17:14:12           | 95.3         | 2.6          | 0.2           | 72.3      | 238.9       | -2.6        |
| 17:15:12           | 89.9         | 2.7          | 0.2           | 72.3      | 238.9       | -2.6        |
| 17:16:12           | 86.1         | 2.7          | 0.2           | 72.3      | 238.9       | -2.6        |
| 17:17:12           | 81.0         | 2.7          | 0.2           | 72.3      | 238.9       | -2.6        |
| 17:18:12           | 74.0         | 2.7          | 0.2           | 72.3      | 239.0       | -2.6        |
| 17:19:12           | 70.7         | 2.7          | 0.2           | 72.3      | 238.9       | -2.6        |
| 17:20:12           | 66.3         | 2.7          | 0.2           | 72.3      | 238.9       | -2.6        |
| 17:21:12           | 62.0         | 2.7          | 0.1           | 72.3      | 239.0       | -2.6        |
| 17:22:12           | 57.3         | 2.7          | 0.1           | 72.3      | 238.9       | -2.6        |
| 17:23:12           | 53.3         | 2.7          | 0.2           | 72.3      | 239.0       | -2.6        |
| 17:24:12           | 49.0         | 2.7          | 0.2           | 72.2      | 238.9       | -2.6        |
| 17:25:12           | 44.8         | 2.7          | 0.1           | 72.2      | 238.9       | -2.6        |
| 17:26:12           | 43.7         | 2.7          | 0.2           | 72.2      | 238.9       | -2.6        |
| 17:27:12           | 40.4         | 2.7          | 0.1           | 72.2      | 238.9       | -2.6        |
| 17:28:12           | 37.8         | 2.7          | 0.2           | 72.2      | 238.9       | -2.6        |
| 17:29:12           | 36.1         | 2.7          | 0.1           | 72.2      | 238.9       | -2.6        |
| 17:30:12           | 33.9         | 2.7          | 0.2           | 72.2      | 238.9       | -2.6        |
| 17:31:12           | 32.0         | 2.7          | 0.1           | 72.2      | 238.9       | -2.6        |
| 17:32:12           | 30.2         | 2.7          | 0.2           | 72.2      | 238.9       | -2.6        |
| 17:33:12           | 28.3         | 2.7          | 0.1           | 72.2      | 238.9       | -2.6        |
| 17:34:12           | 27.0         | 2.7          | 0.2           | 72.2      | 238.9       | -2.6        |
| 17:35:12           | 26.5         | 2.7          | 0.1           | 72.2      | 238.9       | -2.6        |
| 17:36:12           | 25.0         | 2.7          | 0.2           | 72.2      | 238.9       | -2.6        |
| 17:37:12           | 23.9         | 2.7          | 0.1           | 72.2      | 238.9       | -2.6        |
| 17:38:12           | 23.3         | 2.7          | 0.1           | 72.2      | 239.0       | -2.6        |
| 17:39:12           | 22.3         | 2.7          | 0.1           | 72.2      | 239.0       | -2.6        |
| 17:40:12           | 20.8         | 2.6          | 0.1           | 72.1      | 239.0       | -2.6        |
| 17:41:12           | 20.0         | 2.6          | 0.1           | 72.1      | 239.0       | -2.6        |
| 17:42:12           | 19.4         | 2.6          | 0.1           | 72.1      | 239.0       | -2.6        |
| 17:43:12           | 18.8         | 2.6          | 0.2           | 72.1      | 238.9       | -2.6        |



Test #: 0412-3

| 04-12-1997<br>Time | THC o<br>oom | THC i<br>oom | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 17:44:12           | 18.8         | 2.6          | 0.1           | 72.1      | 239.0       | -2.6        |
| 17:45:12           | 18.1         | 2.6          | 0.1           | 72.0      | 239.0       | -2.6        |
| 17:46:12           | 17.1         | 2.6          | 0.1           | 71.9      | 239.0       | -2.6        |
| 17:47:12           | 16.7         | 2.6          | 0.2           | 71.9      | 238.9       | -2.6        |
| 17:48:12           | 16.0         | 2.6          | 0.1           | 71.9      | 239.0       | -2.6        |
| 17:49:12           | 15.9         | 2.6          | 0.1           | 71.9      | 238.9       | -2.6        |
| 17:50:12           | 15.0         | 2.5          | 0.1           | 71.8      | 239.0       | -2.6        |
| 17:51:12           | 14.7         | 2.5          | 0.1           | 71.7      | 239.0       | -2.6        |
| 17:52:12           | 14.7         | 2.6          | 0.1           | 71.7      | 239.0       | -2.6        |
| 17:53:12           | 14.0         | 2.5          | 0.1           | 71.7      | 239.0       | -2.6        |
| 17:54:12           | 13.8         | 2.5          | 0.2           | 71.7      | 239.0       | -2.6        |
| 17:55:12           | 13.4         | 2.5          | 0.1           | 71.7      | 239.0       | -2.6        |
| 17:56:12           | 13.0         | 2.5          | 0.1           | 71.7      | 239.0       | -2.6        |
| 17:57:12           | 13.0         | 2.5          | 0.1           | 71.7      | 239.0       | -2.6        |
| 17:58:12           | 12.9         | 2.5          | 0.1           | 71.6      | 239.0       | -2.6        |
| 17:59:12           | 12.1         | 2.5          | 0.2           | 71.6      | 239.0       | -2.6        |
| 18:00:12           | 11.9         | 2.4          | 0.1           | 71.5      | 239.0       | -2.6        |
| 18:01:12           | 11.9         | 2.4          | 0.1           | 71.5      | 239.0       | -2.6        |
| 18:02:12           | 11.8         | 2.5          | 0.1           | 71.5      | 239.0       | -2.6        |
| 18:03:12           | 11.5         | 2.4          | 0.1           | 71.4      | 239.0       | -2.6        |
| 18:04:12           | 10.9         | 2.4          | 0.1           | 71.4      | 239.0       | -2.6        |
| 18:05:12           | 10.9         | 2.4          | 0.1           | 71.4      | 239.0       | -2.6        |
| 18:06:12           | 10.7         | 2.4          | 0.1           | 71.4      | 239.0       | -2.6        |
| 18:07:12           | 10.1         | 2.4          | 0.1           | 71.4      | 239.0       | -2.6        |
| 18:08:12           | 9.9          | 2.4          | 0.1           | 71.4      | 239.0       | -2.6        |
| 18:09:12           | 9.9          | 2.4          | 0.2           | 71.4      | 239.0       | -2.6        |
| 18:10:12           | 9.9          | 2.4          | 0.1           | 71.4      | 239.0       | -2.6        |
| 18:11:12           | 9.9          | 2.4          | 0.1           | 71.3      | 239.0       | -2.6        |
| 18:12:12           | 9.7          | 2.4          | 0.1           | 71.3      | 239.0       | -2.6        |
| 18:13:12           | 9.1          | 2.4          | 0.1           | 71.3      | 239.0       | -2.6        |
| 18:14:12           | 9.0          | 2.4          | 0.1           | 71.3      | 239.0       | -2.6        |
| 18:15:12           | 9.0          | 2.4          | 0.1           | 71.3      | 239.0       | -2.6        |
| 18:16:12           | 9.0          | 2.4          | 0.1           | 71.2      | 239.0       | -2.6        |
| 18:17:12           | 9.0          | 2.4          | 0.1           | 71.2      | 239.0       | -2.6        |
| 18:18:12           | 9.0          | 2.4          | 0.1           | 71.2      | 239.0       | -2.6        |
| 18:19:12           | 8.1          | 2.4          | 0.1           | 71.1      | 239.0       | -2.6        |
| 18:20:12           | 7.9          | 2.3          | 0.1           | 71.1      | 239.0       | -2.6        |
| 18:21:12           | 7.9          | 2.3          | 0.1           | 71.1      | 239.0       | -2.6        |
| 18:22:12           | 7.9          | 2.3          | 0.1           | 71.1      | 239.0       | -2.6        |
| 18:23:12           | 7.9          | 2.3          | 0.1           | 71.0      | 239.0       | -2.6        |
| 18:24:12           | 7.9          | 2.4          | 0.1           | 71.0      | 239.0       | -2.6        |
| 18:25:12           | 7.9          | 2.4          | 0.1           | 71.0      | 239.0       | -2.6        |
| 18:26:12           | 7.6          | 2.4          | 0.1           | 71.0      | 239.0       | -2.6        |
| 18:27:12           | 7.4          | 2.4          | 0.1           | 71.0      | 239.0       | -2.6        |
| 18:28:12           | 7.0          | 2.3          | 0.1           | 70.9      | 239.0       | -2.6        |
| 18:29:12           | 6.8          | 2.3          | 0.1           | 70.9      | 239.0       | -2.6        |
| Avg =              | 184.9        | 2.7          | 0.2           | 72.0      | 270.8       | -2.7        |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-12-1997 Current Time = 18:34:28

File Name = c:\cemdata\041297.PRN Calibration File: c:\cemdata\0412c.CAL

Test #: Post-3 out 0 in 30.4

| 04-12-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 18:34:31           | -0.0         | 30.5         | -0.0          | 70.3      | 239.0       | 0.0         |
| 18:34:32           | -0.0         | 30.5         | -0.0          | 70.3      | 239.0       | 0.0         |
| 18:34:33           | -0.0         | 30.5         | -0.0          | 70.3      | 239.0       | 0.0         |
| 18:34:35           | -0.0         | 30.5         | -0.0          | 70.3      | 239.0       | 0.0         |
| 18:34:42           | -0.0         | 30.5         | -0.0          | 70.3      | 239.0       | 0.0         |
| 18:34:52           | -0.0         | 30.5         | -0.0          | 70.2      | 239.0       | 0.0         |
| 18:35:02           | -0.0         | 30.5         | -0.0          | 70.2      | 239.0       | 0.0         |
| 18:35:12           | -0.0         | 30.5         | -0.0          | 70.2      | 239.0       | 0.0         |
| 18:35:22           | -0.0         | 30.6         | -0.0          | 70.2      | 239.0       | 0.0         |
| 18:35:32           | -0.0         | 30.5         | -0.0          | 70.2      | 239.0       | 0.0         |
| 18:35:42           | -0.0         | 30.5         | -0.0          | 70.1      | 239.0       | 0.0         |
| avg =              | -0.0         | 30.5         | -0.0          | 70.3      | 239.0       | 0.0         |

RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-12-1997 Current Time = 18:39:35  
 File Name = c:\cemdata\041297.PRN Calibration File: c:\cemdata\0412c.CAL

Test #: Post-3 out 297 in 15.0

| 04-12-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 18:39:39           | 285.9        | 15.0         | -0.0          | 69.8      | 239.0       | 0.0         |
| 18:39:40           | 285.9        | 15.0         | -0.0          | 69.8      | 239.0       | 0.0         |
| 18:39:42           | 285.9        | 15.0         | -0.0          | 69.7      | 239.0       | 0.0         |
| 18:39:52           | 285.9        | 15.0         | -0.0          | 69.7      | 239.0       | 0.0         |
| 18:40:02           | 286.8        | 15.0         | -0.0          | 69.7      | 239.0       | 0.0         |
| 18:40:12           | 286.3        | 15.0         | -0.0          | 69.7      | 239.0       | 0.0         |
| 18:40:22           | 285.9        | 15.0         | -0.0          | 69.7      | 239.0       | 0.0         |
| 18:40:32           | 286.3        | 15.0         | -0.0          | 69.7      | 239.0       | 0.0         |
| 18:40:42           | 286.2        | 14.9         | -0.0          | 69.7      | 239.0       | 0.0         |
| Avg =              | 286.1        | 15.0         | -0.0          | 69.7      | 239.0       | 0.0         |

## RADIANT CORPORATION

Environmental Measurement and Analysis Department  
Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-12-1997 Current Time = 18:47:19

File Name = c:\cemdata\041297.PRN Calibration File: c:\cemdata\0412c.CAL

Test #: Post-3 out 600 in 0

| 04-12-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|

|          |       |     |      |      |       |     |
|----------|-------|-----|------|------|-------|-----|
| 18:47:23 | 586.9 | 0.1 | -0.0 | 69.3 | 238.9 | 0.0 |
| 18:47:24 | 586.9 | 0.1 | -0.0 | 69.3 | 238.9 | 0.0 |
| 18:47:32 | 586.7 | 0.1 | -0.0 | 69.2 | 238.9 | 0.0 |
| 18:47:42 | 587.1 | 0.1 | -0.0 | 69.2 | 238.9 | 0.0 |
| 18:47:52 | 586.3 | 0.1 | -0.0 | 69.2 | 238.9 | 0.0 |
| 18:48:02 | 586.6 | 0.1 | -0.0 | 69.2 | 238.9 | 0.0 |
| 18:48:12 | 587.2 | 0.1 | -0.0 | 69.1 | 238.9 | 0.0 |
| 18:48:22 | 585.7 | 0.1 | -0.0 | 69.2 | 238.9 | 0.0 |
| 18:48:32 | 585.4 | 0.1 | -0.0 | 69.1 | 238.9 | 0.0 |
| 18:48:42 | 587.2 | 0.1 | -0.0 | 69.2 | 238.9 | 0.0 |
| 18:48:52 | 586.0 | 0.1 | -0.0 | 69.2 | 238.9 | 0.0 |

|     |       |     |      |      |       |     |
|-----|-------|-----|------|------|-------|-----|
| o = | 586.5 | 0.1 | -0.0 | 69.2 | 238.9 | 0.0 |
|-----|-------|-----|------|------|-------|-----|

**April 14, 1997**

**0414-01/NMMA-5-2: 18-ft Deck 42% Styrene Resin Spray Up Lamination**

**0414-02/NMMA-2-2: 18-ft Hull 42% Styrene Resin Spray Up Lamination**

DAILY SPRAY EQUIPMENT CALIBRATION

Date: 4-14-97

Initial: Larry Oargitz

Spray Gun: \_\_\_\_\_

Resin Flow Calibration (15-second evaluation)

|                | Pre-Test | Post-Test |
|----------------|----------|-----------|
| Run 1 Mass (g) | 798      | 774       |
| Run 2 Mass (g) |          |           |
| Run 3 Mass (g) |          |           |
| Average        |          |           |

Resin:Glass Ratio

|                |      |  |
|----------------|------|--|
| Mass resin (g) | 378  |  |
| Mass glass (g) | 201  |  |
| TOTAL          | 579  |  |
| Percent glass  | 34.7 |  |

| Material     | Drum No. | Gel Time (min) | Catalyst % Vol. | Setting |
|--------------|----------|----------------|-----------------|---------|
| Gelcoat      |          |                |                 |         |
| Resin (skin) | 2        |                |                 |         |
| Resin (lam)  |          |                |                 |         |

Thickness Checks

| Run         | 1 | 2 | 3 | 4 | 5 |
|-------------|---|---|---|---|---|
| 60 mil skin |   |   |   |   |   |
| 150 mil     |   |   |   |   |   |
| 90 mil skin |   |   |   |   |   |
| 60 mil Rov  |   |   |   |   |   |
| 30 mil Rov  |   |   |   |   |   |
| 60 mil Rov  |   |   |   |   |   |

Deck

Hull

Bottom

Side and Transom

|          |          |
|----------|----------|
| 42%      | Resin    |
| Catalyst | Gel time |
| 1 1/2%   | 23.25    |
| 2%       | 19.08    |
| 2 1/2%   | 16.17    |

4/14/97 lab results

DAILY GAS CHROMATOGRAPHY LOG

Date: 4/14/97

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Initial: DND

Run 0414-01 9 0414-02

Test MMA-5-2 18' deck 42%  
MMA-7-2 18' Hull 42%

| Run No. | Time  | Comments                     | THC  | MMA Area | Styrene Area      |
|---------|-------|------------------------------|------|----------|-------------------|
| 168     | 0650  | Ø Air 4.310                  |      |          | 352952            |
| 169     | 06700 | Ø Air 4.312                  |      |          | 203009            |
| 170     | 0710  | 59.2 sty 4.316               |      |          | 4755664           |
| 171     | 0722  | 59.2 4.316                   |      |          | 4161448           |
| 172     | 0729  | 59.2 4.316                   |      |          | 4384538           |
| 173     | 0737  | 122 4.317                    |      |          | 9803558           |
| 174     | 0743  | 122 4.316                    |      |          | 8547834           |
| 175     | 0748  | 122 4.314                    |      |          | 8905798           |
| 176     | 0758  | 204 4.313                    |      |          | 1682226/16823296  |
| 177     | 08104 | 204 4.312 4.312              |      |          | 16853072          |
| 178     | 0810  | 204 4.311                    |      |          | 17030400          |
| 179     | 0940  | 1                            | 52   |          | 1785250           |
| 180     | 0946  | 2                            | 260  |          | 6617882           |
| 181     | 0952  | 3                            | 170  |          | 11096048          |
| 182     | 1001  | 4                            | 334  |          | 5074253           |
| 183     | 1009  | 5                            | 161  |          | 3876508           |
| 184     | 1016  | 6                            | 127  |          | 3225021           |
| 185     | 1024  | 7                            | 108  |          | 2559440           |
| 186     | 1038  | 8                            | 90   |          | 2204029           |
| 187     | 1038  | 9                            | 470  |          | 11530448          |
| 188     | 1048  | 10                           | 825  |          | 18091048          |
| 189     | 1054  | 11                           | 421  |          | 9953050           |
| 190     | 1105  | 12                           | 221  |          | 6049504           |
| 191     | 1112  | 13                           | 170  |          | 4419344           |
| 192     | 1129  | 14                           | 134  |          | 3660350           |
| 193     | 1136  | 15                           | 49   |          | 1276744           |
| 194     | 1148  | 16                           | 20.6 |          | 516467            |
| 195     | 1203  | 17                           | 10   |          | 243757            |
| 196     |       | 204 sty                      |      |          | 17182512          |
| 197     |       | 204                          |      |          | 16387544          |
| 198     |       | 204 - delay in 1 Delay start |      |          | 16322544/16256032 |
| 199     | 1342  | 1                            | 135  |          | 3605650           |
| 800     | 1348  | 2                            | 333  |          | 8010685           |
| 801     | 1354  | 23                           | 584  |          | 11811864          |

Ami ent

0414-01  
MMA-5-2  
18' deck 42%

END

Post  
0414-01

0414-02  
MMA-2-2



**Radian International LLC  
Stelling Engineering, P.A.  
Air Tech Environmental LLC**

Date: 4/14/97

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Initial: AO

Test WUWA-2-2 18' Hull, 42% Resin

[illegible]

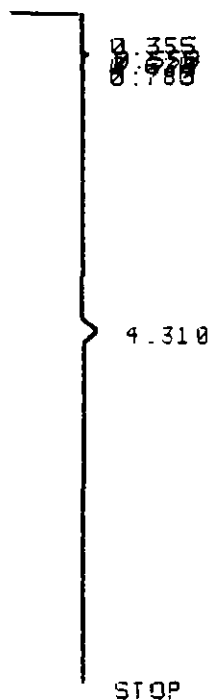
ATTN=8  
ATTN=5  
ATTN=7

End  
POST  
0414-02  
b

purge regulator

4/14/97  
0414-01202  
Nmma-5-2  
-2-2

\* RUN # 768      APR 14, 1997    06:50:17  
START

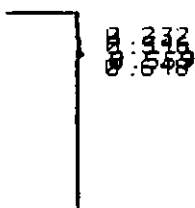


RUN# 768      APR 14, 1997    06:50:17

| ESTD-AREA | RT    | AREA   | TYPE | CAL# | AMOUNT |
|-----------|-------|--------|------|------|--------|
|           | 4.310 | 352952 | BU   | 2    | 3.494  |

TOTAL AREA = 186298  
MUL FACTOR = 1.0000E+00

\* RUN # 769      APR 14, 1997    07:00:27  
START



4.312

STOP

RUN# 769 APR 14, 1997 07:00:27

ESTD-AREA

| RT    | AREA TYPE | CAL# | AMOUNT |
|-------|-----------|------|--------|
| 4.312 | 203009 BP | 2    | 2.010  |

TOTAL AREA= 329413

MUL FACTOR=1.0000E+00

\* RUN # 770 APR 14, 1997 07:10:22

START

00000000  
00000000  
00000000

4.316

STOP

RUN# 770 APR 14, 1997 07:10:22

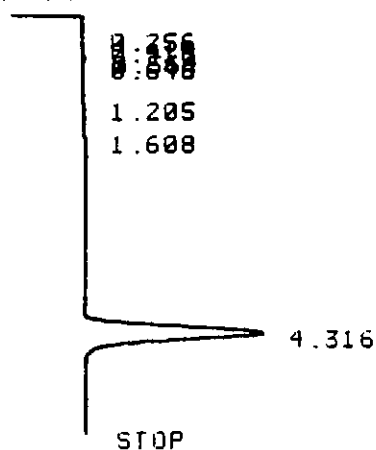
ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT |
|-------|------------|------|--------|
| 4.316 | 4755664 PB | 2    | 47.081 |

TOTAL AREA=4861216

MUL FACTOR=1.0000E+00

\* RUN # 771      APR 14, 1997 07:22:49  
START

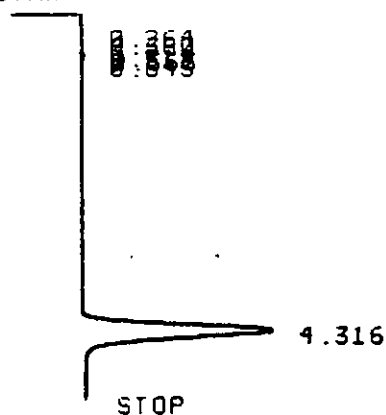


RUN# 771      APR 14, 1997 07:22:49

| ESTD-AREA | RT    | AREA TYPE  | CAL# | AMOUNT |
|-----------|-------|------------|------|--------|
|           | 4.316 | 4167498 PB | 2    | 41.258 |

TOTAL AREA=4143152  
MUL FACTOR=1.0000E+00

\* RUN # 772      APR 14, 1997 07:29:28  
START

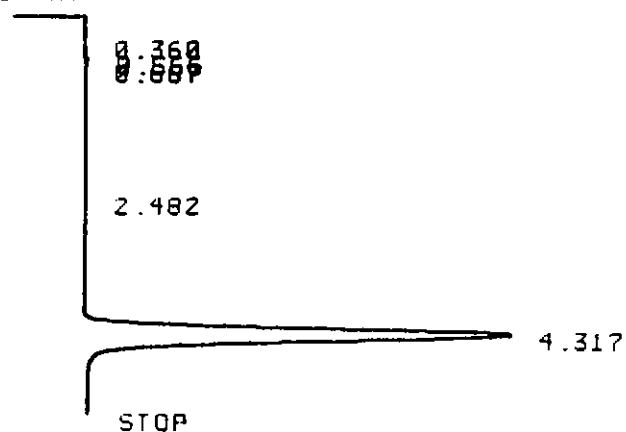


RUN# 772      APR 14, 1997 07:29:28

| ESTD-AREA | RT    | AREA TYPE  | CAL# | AMOUNT |
|-----------|-------|------------|------|--------|
|           | 4.316 | 4384530 PB | 2    | 43.407 |

TOTAL AREA=4482406  
MUL FACTOR=1.0000E+00

\* RUN # 773      APR 14, 1997 07:37:44  
START



RUN# 773      APR 14, 1997 07:37:44

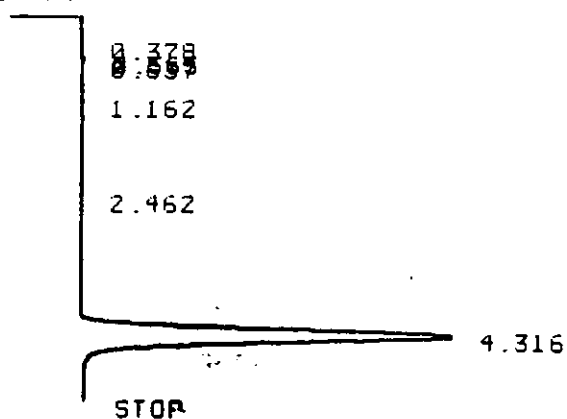
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.317 | 9803558 | PB   | 2    | 97.055 |

TOTAL AREA=9.9064E+06

MUL FACTOR=1.0000E+00

\* RUN # 774      APR 14, 1997 07:43:22  
START



RUN# 774      APR 14, 1997 07:43:22

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.316 | 8547834 | PB   | 2    | 84.624 |

TOTAL AREA=8.6393E+06

MUL FACTOR=1.0000E+00

\* RUN # 775 APR 14, 1997 07:48:48

START

0.385  
0.894

1.168  
1.443

2.488

4.314

STOP

RUN# 775 APR 14, 1997 07:48:48

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.314 | 8905798 | PB   | 2    | 88.167 |

TOTAL AREA=9.1479E+06

MUL FACTOR=1.0000E+00

\* RUN # 776 APR 14, 1997 07:58:15

START

0.186  
0.496

1.333

2.474

4.313

STOP

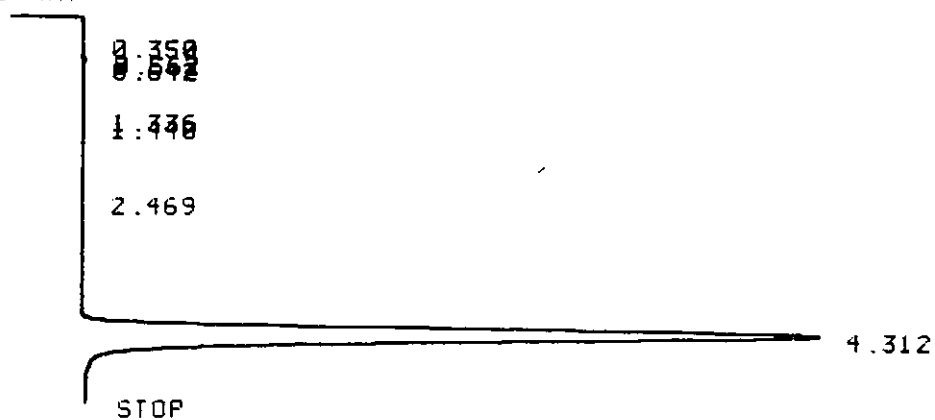
RUN# 776 APR 14, 1997 07:58:15

ESTD-AREA

| RT    | AREA     | TYPE | CAL# | AMOUNT  |
|-------|----------|------|------|---------|
| 4.313 | 16823296 | PB   | 2    | 166.551 |

TOTAL AREA=1.7051E+07

\* RUN # 777      APR 14, 1997 08:04:56  
START



RUN# 777      APR 14, 1997 08:04:56

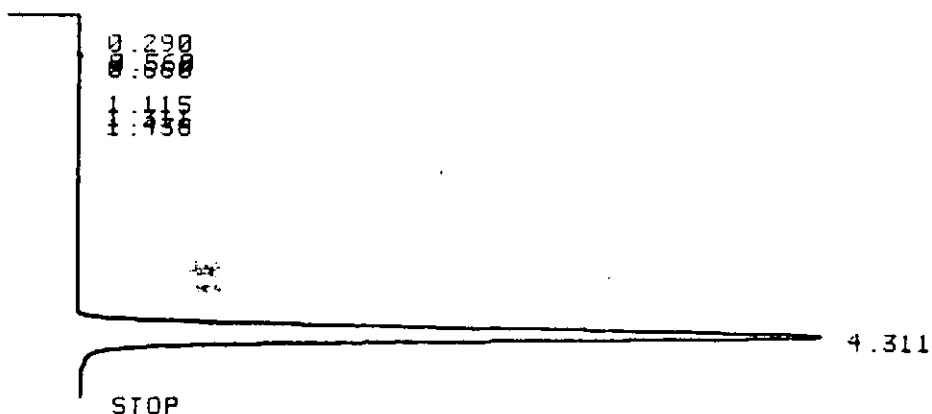
ESTD-AREA

| RT    | AREA     | TYPE | CAL# | AMOUNT  |
|-------|----------|------|------|---------|
| 4.312 | 16883072 | PA   | 2    | 167.142 |

TOTAL AREA=1.7029E+07

MUL FACTOR=1.0000E+00

\* RUN # 778      APR 14, 1997 08:10:53  
START



RUN# 778      APR 14, 1997 08:10:53

ESTD-AREA

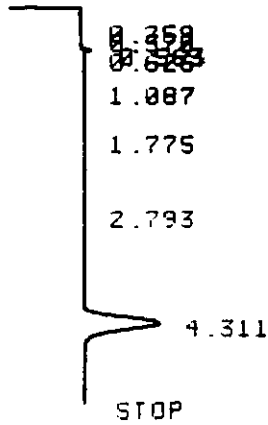
| RT    | AREA     | TYPE | CAL# | AMOUNT  |
|-------|----------|------|------|---------|
| 4.311 | 17030400 | PA   | 2    | 168.601 |

TOTAL AREA=1.7254E+07

MUL FACTOR=1.0000E+00

0414-01  
 NMAA S-2  
 18-ft Deck  
 42% Styrene Resin

\* RUN # 779 APR 14, 1997 09:40:31  
 START

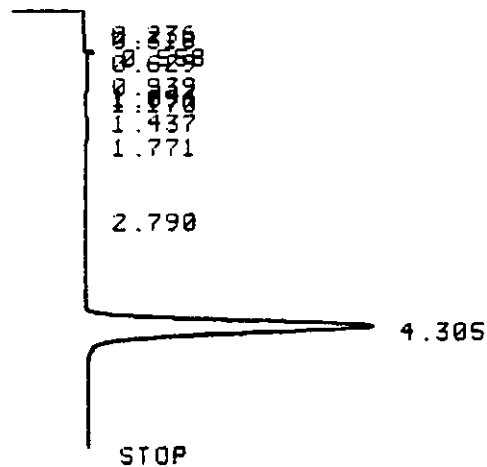


RUN# 779 APR 14, 1997 09:40:31

| ESTD-AREA | RT    | AREA TYPE | CAL# | AMOUNT |
|-----------|-------|-----------|------|--------|
|           | 4.311 | 1785250   | P0 2 | 17.674 |

TOTAL AREA=1922186  
 MUL FACTOR=1.0000E+00

\* RUN # 780 APR 14, 1997 09:46:13  
 START



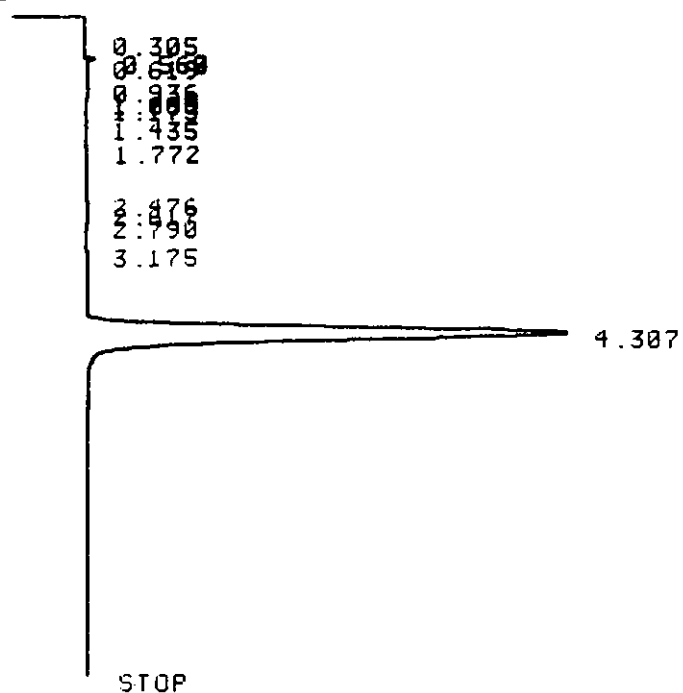
RUN# 780 APR 14, 1997 09:46:13

| ESTD-AREA | RT    | AREA TYPE | CAL# | AMOUNT |
|-----------|-------|-----------|------|--------|
|           | 4.305 | 6617882   | B0 2 | 65.517 |

TOTAL AREA=6871258  
 MUL FACTOR=1.0000E+00



\* RUN # 781      APR 14, 1997 09:52:27  
START

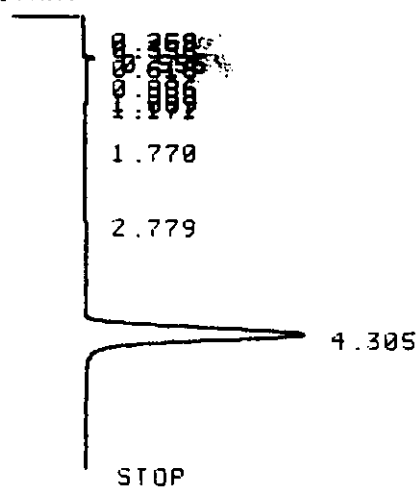


RUN# 781      APR 14, 1997 09:52:27

| ESTD-AREA | RT    | AREA     | TYPE | CAL# | AMOUNT  |
|-----------|-------|----------|------|------|---------|
|           | 4.307 | 11096048 | PR   | 2    | 109.851 |

TOTAL AREA=1.1429E+07  
MUL FACTOR=1.0000E+00

\* RUN # 782      APR 14, 1997 10:01:54  
START



ESTD-AREA

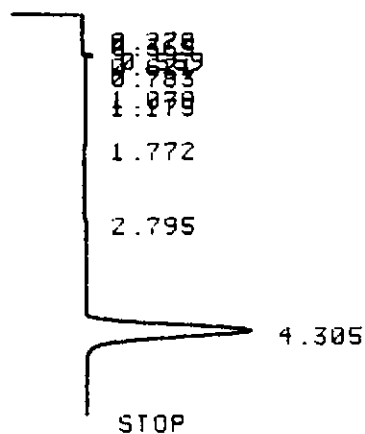
| RT    | AREA TYPE | CAL# | AMOUNT |
|-------|-----------|------|--------|
| 4.305 | 5074253   | 80 2 | 50.235 |

TOTAL AREA=5352112

MUL FACTOR=1.0000E+00

\* RUN # 783 APR 14, 1997 10:08:51

START



RUN# 783 APR 14, 1997 10:08:51

ESTD-AREA

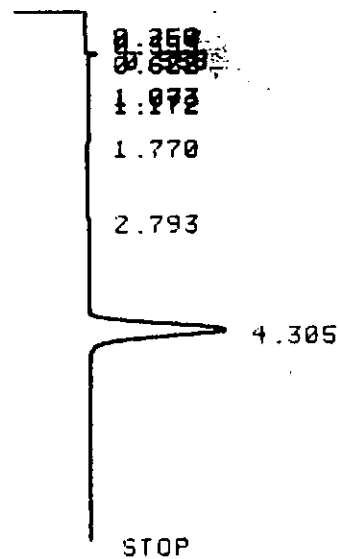
| RT    | AREA TYPE | CAL# | AMOUNT |
|-------|-----------|------|--------|
| 4.305 | 3876000   | PB 2 | 38.380 |

TOTAL AREA=4125038

MUL FACTOR=1.0000E+00

\* RUN # 784 APR 14, 1997 10:16:23

START



RUN# 784

APR 14, 1997 10:16:23

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.305 | 3725021 | PB   | 2    | 31.928 |

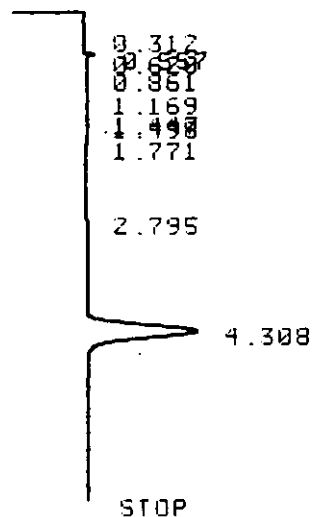
TOTAL AREA=3340880

MUL FACTOR=1.0000E+00

\* RUN # 785

APR 14, 1997 10:24:07

START



RUN# 785

APR 14, 1997 10:24:07

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.308 | 2559440 | PB   | 2    | 25.339 |

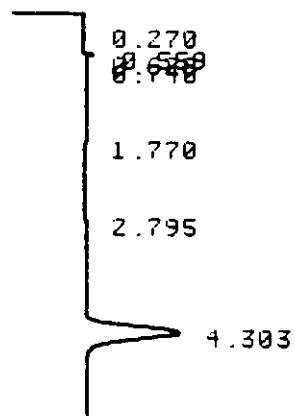
TOTAL AREA=2670274

MUL FACTOR=1.0000E+00

\* RUN # 786

APR 14, 1997 10:31:38

START



STOP

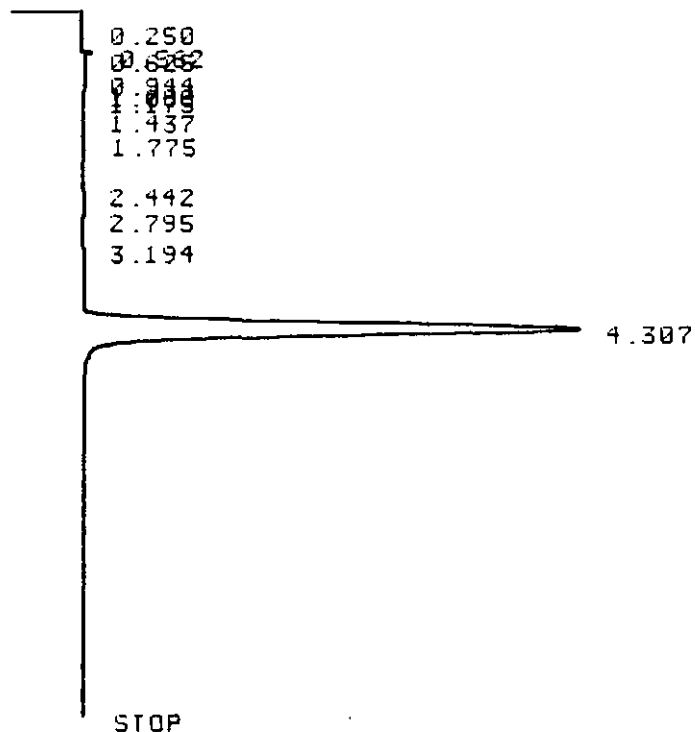
RUN# 786 APR 14, 1997 10:31:38

ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT |
|-------|------------|------|--------|
| 4.303 | 2209029 PB | 2    | 21.869 |

TOTAL AREA=2308869  
MUL FACTOR=1.0000E+00

\* RUN # 787 APR 14, 1997 10:30:21  
START



STOP

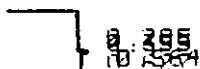
RUN# 787 APR 14, 1997 10:30:21

ESTD-AREA

| RT    | AREA TYPE   | CAL# | AMOUNT  |
|-------|-------------|------|---------|
| 4.307 | 11530418 PB | 2    | 114.151 |

TOTAL AREA=1.1838E+07  
MUL FACTOR=1.0000E+00

\* RUN # 788 APR 14, 1997 10:48:21  
START



1:075  
1:440  
1:775  
  
2:608  
2:793  
3:132  
3:431

4.309

STOP

RUN# 788 APR 14, 1997 10:48:21

ESTD-AREA

| RT    | AREA     | TYPE | CAL# | AMOUNT  |
|-------|----------|------|------|---------|
| 4.309 | 18091040 | BA   | 2    | 179.101 |

TOTAL AREA=1.8405E+07

MUL FACTOR=1.0000E+00

\* RUN # 789 APR 14, 1997 10:54:35

START

0:351  
0:602  
0:935  
1:165  
1:439  
1:775

2:484  
2:795

4.308

STOP

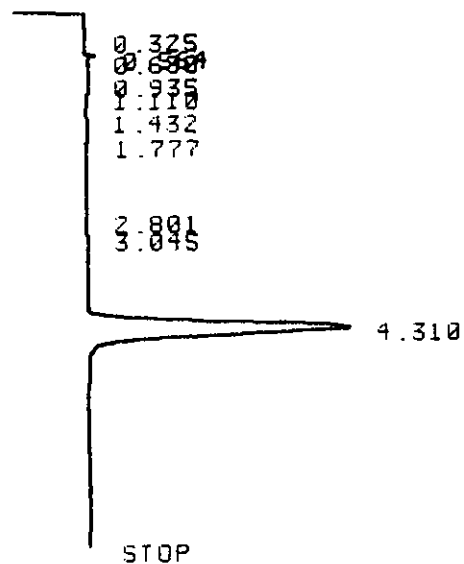
RUN# 789 APR 14, 1997 10:54:35

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.308 | 9953050 | PB   | 2    | 98.535 |

MUL FACTOR=1.0000E+00

\* RUN # 790 APR 14, 1997 11:05:03  
START

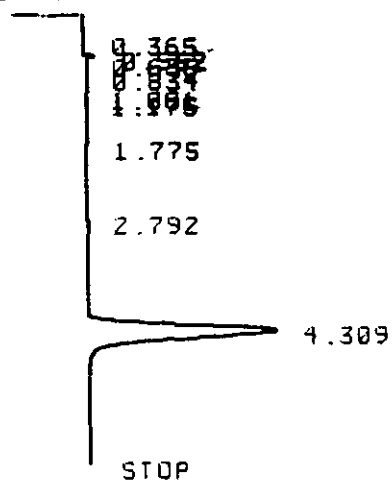


RUN# 790 APR 14, 1997 11:05:03

| ESTD-AREA | RT    | AREA TYPE | CAL# | AMOUNT |
|-----------|-------|-----------|------|--------|
|           | 4.310 | 6049504   | AD 2 | 59.890 |

TOTAL AREA=6228774  
MUL FACTOR=1.0000E+00

\* RUN # 791 APR 14, 1997 11:12:55  
START

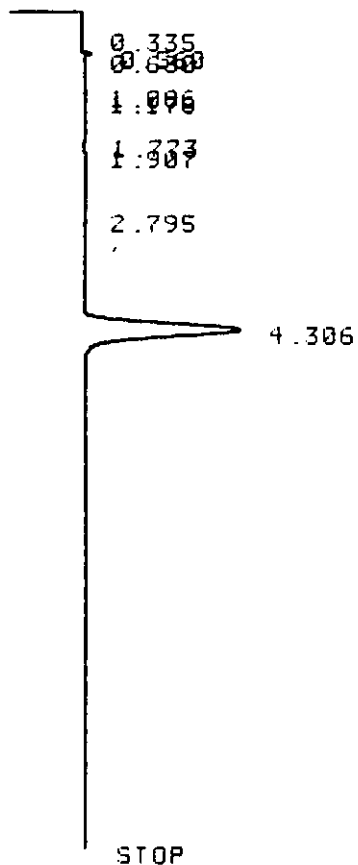


RUN# 791 APR 14, 1997 11:12:55

| ESTD-AREA | RT    | AREA TYPE  | CAL# | AMOUNT |
|-----------|-------|------------|------|--------|
|           | 4.309 | 4419344 PO | 2    | 43.751 |

TOTAL AREA=4564595  
MUL FACTOR=1.0000E+00

\* RUN # 792 APR 14, 1997 11:19:53  
START

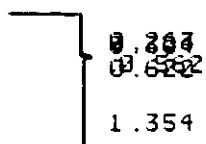


RUN# 792 APR 14, 1997 11:19:53

| ESTD-AREA | RT    | AREA TYPE  | CAL# | AMOUNT |
|-----------|-------|------------|------|--------|
|           | 1.907 | 7021 UU    | 1    | .295   |
|           | 4.306 | 3660850 PO | 2    | 36.242 |

TOTAL AREA=3792418  
MUL FACTOR=1.0000E+00

\* RUN # 793 APR 14, 1997 11:36:25  
START



2.787

4.309

STOP

RUN# 793 APR 14, 1997 11:36:25

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.909 | 29854   | UU   | 1    | 1.254  |
| 4.309 | 1276744 | FB   | 2    | 12.640 |

TOTAL AREA=1315782  
MUL FACTOR=1.0000E+00

\* RUN # 794 APR 14, 1997 11:48:34  
START

0.233  
0.689

1.176

1.897

4.298



STOP

RUN# 794 APR 14, 1997 11:48:34

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.897 | 10604  | UP   | 1    | .445   |
| 4.298 | 516467 | PB   | 2    | 5.113  |

TOTAL AREA= 663399

MUL FACTOR=1.0000E+00

\* RUN # 795 APR 14, 1997 12:03:11

START

0.250  
~~0.638~~  
1.030  
1.370

4.311

STOP

RUN# 795 APR 14, 1997 12:03:11

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.910 | 6232   | UP   | 1    | .262   |
| 4.311 | 243757 | BU   | 2    | 2.413  |

TOTAL AREA= 340021

MUL FACTOR=1.0000E+00

START

0:360  
0:090

1:433

2.476

4.312

STOP

RUN# 796 APR 14, 1997 12:10:31

ESTD-AREA

| RT    | AREA TYPE   | CAL# | AMOUNT  |
|-------|-------------|------|---------|
| 4.312 | 17182512 PA | 2    | 170.107 |

TOTAL AREA=1.7432E+07

MUL FACTOR=1.0000E+00

\* RUN # 797 APR 14, 1997 12:22:41

START

0:348  
0:090

1.185

1:440

1.783

2.481

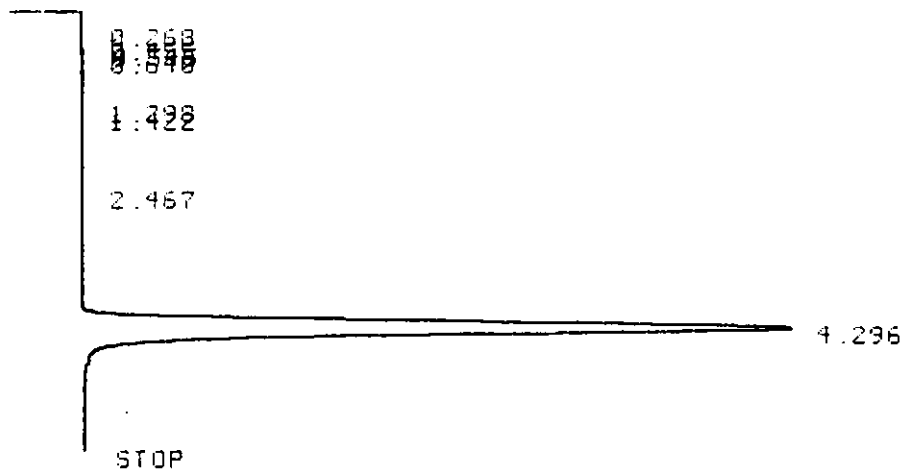
4.314

STOP

| ESTD-AREA | RT    | AREA TYPE | CALC | AMOUNT  |
|-----------|-------|-----------|------|---------|
|           | 4.314 | 16327544  | PB 2 | 161.643 |

TOTAL AREA=1.6442E+07  
 MUL FACTOR=1.0000E+00

\* RUN # 790 APR 14, 1997 12:29:06  
 START

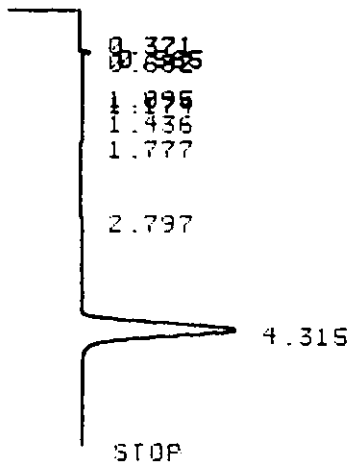


RUN# 798 APR 14, 1997 12:29:06

| ESTD-AREA | RT    | AREA TYPE | CALC | AMOUNT  |
|-----------|-------|-----------|------|---------|
|           | 4.296 | 16258032  | PB 2 | 160.955 |

TOTAL AREA=1.6407E+07  
 MUL FACTOR=1.0000E+00

\* RUN # 799 APR 14, 1997 13:42:21  
 START



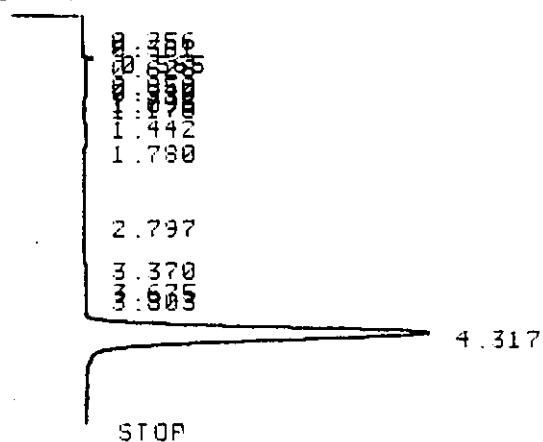
0414-02  
 NMMA-2-2  
 18-ft Hull  
 42% Styrene Resin

## ESTQ-ARCA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.315 | 3605650 | PD   | 2    | 35.696 |

TOTAL AREA=3757330  
MUL FACTOR=1.0000E+00

```
* RUN # 500      APR 14, 1997  13:40:40
START
```



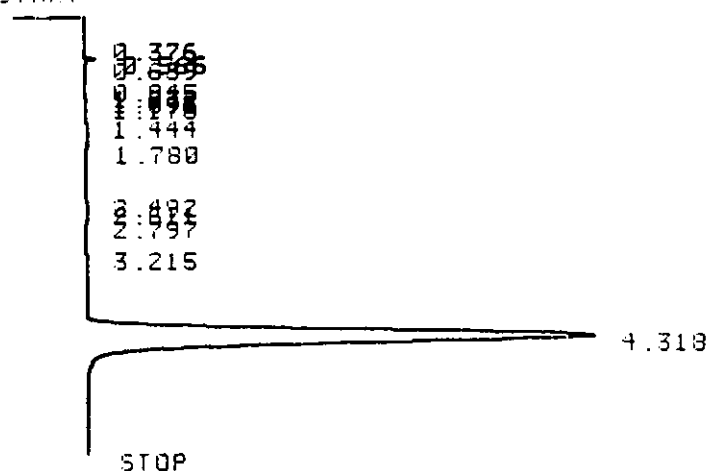
RUN# 300 APR 14, 1997 13:40:48

ESTD - AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.317 | 8010605 | PB   | 2    | 79.306 |

TOTAL AREA=0278070  
MUL FACTOR=1.0000E+00

```
* RUN # 001      APR 14, 1997  13:54:35
START
```



RUN# 801 APR 14, 1997 13:54:35

ESTD-AREA

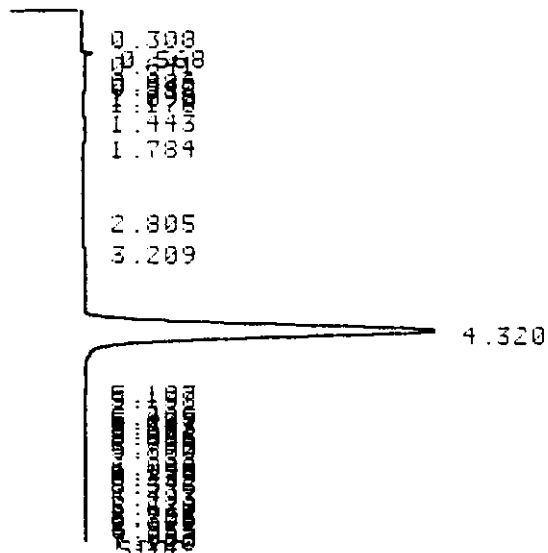
| RT    | AREA TYPE | CAL# | AMOUNT  |
|-------|-----------|------|---------|
| 4.318 | 11811864  | P8   | 2       |
|       |           |      | 116.937 |

TOTAL AREA=1.2183E+07

MUL FACTOR=1.0000E+00

\* RUN # 802 APR 14, 1997 14:00:49

START



RUN# 802 APR 14, 1997 14:00:49

ESTD-AREA

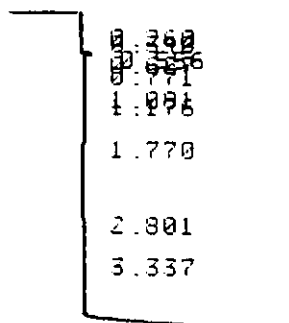
| RT    | AREA TYPE | CAL# | AMOUNT |
|-------|-----------|------|--------|
| 4.320 | 8118000   | P8   | 2      |
|       |           |      | 80.368 |

TOTAL AREA=8314730

MUL FACTOR=1.0000E+00

\* RUN # 803 APR 14, 1997 14:08:49

START



STOP

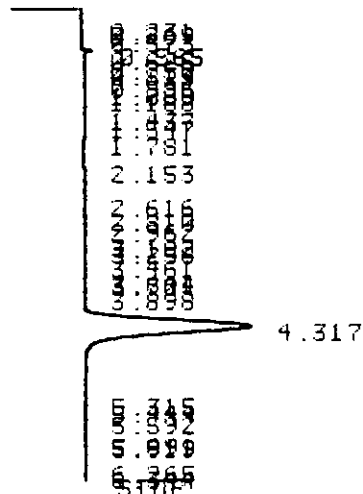
RUN# 803 APR 14, 1997 14:08:40

ESTD-AREA

| RT    | AREA    | TYPE | CALC | AMOUNT |
|-------|---------|------|------|--------|
| 4.308 | 5035171 | PB   | 2    | 42.848 |

TOTAL AREA=5256573  
MUL FACTOR=1.0000E+00

\* RUN # 804 APR 14, 1997 14:15:47  
START



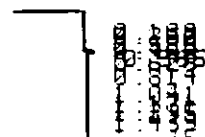
RUN# 804 APR 14, 1997 14:15:47

ESTD-AREA

| RT    | AREA    | TYPE | CALC | AMOUNT |
|-------|---------|------|------|--------|
| 4.317 | 3933746 | PB   | 2    | 38.944 |

TOTAL AREA=4162277  
MUL FACTOR=1.0000E+00

\* RUN # 805 APR 14, 1997 14:22:40  
START



STOP.

| RT    | AREA    | TYPE | CALC# | AMOUNT |
|-------|---------|------|-------|--------|
| 1.965 | 7445    | UU   | 1     | .313   |
| 4.315 | 3575351 | PB   | 2     | 35.390 |

TOTAL AREA=3677406  
MUL FACTOR=1.0000E+00

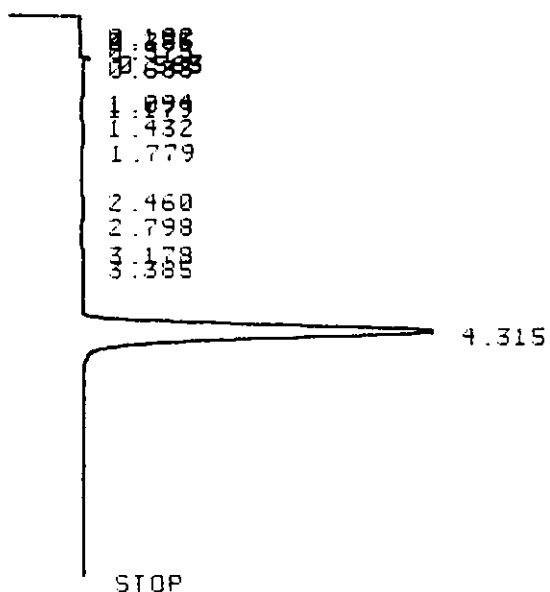
7:286  
7:529

STOP

| RT    | AREA    | TYPE | CALC | AMOUNT |
|-------|---------|------|------|--------|
| 4.317 | 6971277 | PS   | 2    | 69.016 |

TOTAL AREA=7208138

\* RUN # 807      APR 14, 1997    14:39:18  
START



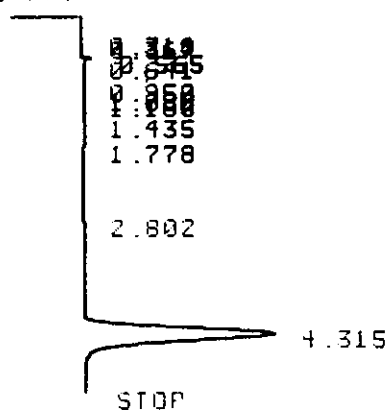
RUN#    807              APR 14, 1997    14:39:18

ESTD-AREA

| RT    | AREA    | TYPE | CALC | AMOUNT |
|-------|---------|------|------|--------|
| 4.315 | 8199200 | PS   | 2    | 81.172 |

TOTAL AREA=8.4914E+06  
MUL FACTOR=1.0000E+00

\* RUN # 808      APR 14, 1997    14:47:12  
START



RUN#    808              APR 14, 1997    14:47:12

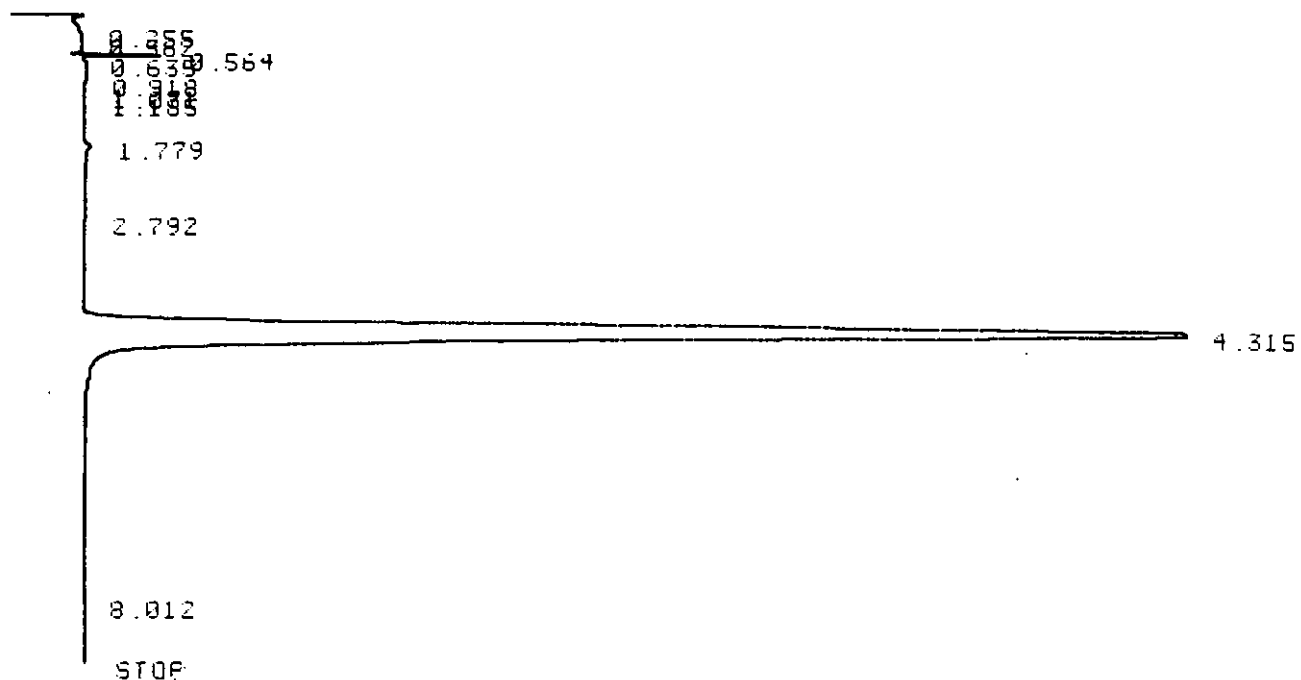
ESTD-AREA



4.315 +430733 88 2 43.864

TOTAL AREA=4624119  
MUL FACTOR=1.0000E+00

\* ATT 2^ 5 @  
\* RUN # 809 APR 14, 1997 14:53:06  
START

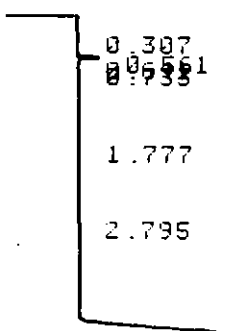


RUN# 809 APR 14, 1997 14:53:06

| ESTD-AREA | RT    | AREA TYPE | CAL# | AMOUNT |
|-----------|-------|-----------|------|--------|
|           | 4.315 | 3347350   | 88   | 2      |
|           |       |           |      | 33.139 |

TOTAL AREA=3495323  
MUL FACTOR=1.0000E+00

\* ATT 2^ 7 @  
\* RUN # 810 APR 14, 1997 15:03:17  
START



STOP

RUN# 810 APR 14, 1997 15:03:17

ESTD-AREA

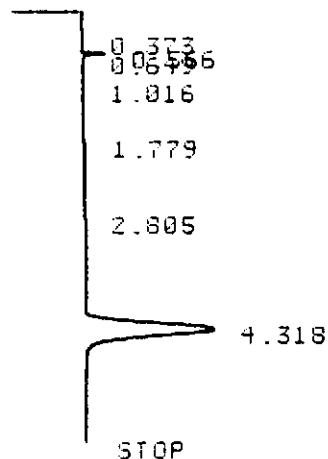
| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.313 | 1928095 | PB   | 2    | 19.038 |

TOTAL AREA=2010318

MUL FACTOR=1.0000E+00

\* RUN # 811 APR 14, 1997 15:03:07

START



RUN# 811 APR 14, 1997 15:03:07

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.318 | 1550519 | PB   | 2    | 15.241 |

TOTAL AREA=1703178

MUL FACTOR=1.0000E+00

\* RUN # 812 APR 14, 1997 15:16:15

START



STOP

RUN# 312 APR 14, 1997 15:16:15

ESTD-AREA

| RT    | AREA     | TYPE | CAL# | AMOUNT  |
|-------|----------|------|------|---------|
| 4.310 | 10703672 | PB   | 2    | 105.966 |

TOTAL AREA=1.10600E+07

MUL FACTOR=1.00000E+00

\* RUN # 313 APR 14, 1997 15:25:44

START

0.368  
0.06204

1.077  
1.437  
1.778

2.494  
2.794  
3.205

4.315

STOP

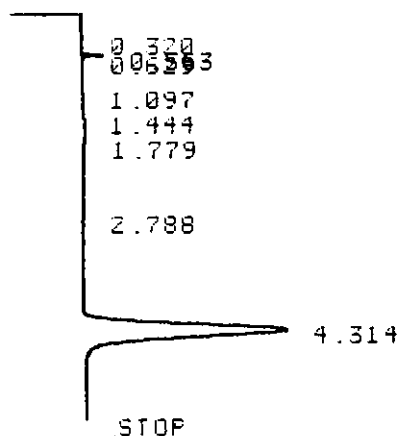
RUN# 813 APR 14, 1997 15:25:41

ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT |
|-------|------------|------|--------|
| 4.315 | 9611174 PB | 2    | 95.151 |

TOTAL AREA=9.0868E+06  
MUL FACTOR=1.0000E+00

\* RUN # 814 APR 14, 1997 15:43:25  
START



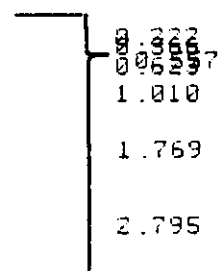
RUN# 814 APR 14, 1997 15:43:25

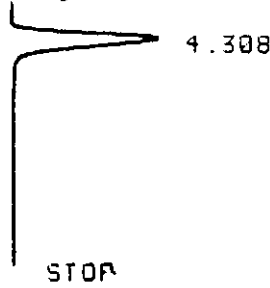
ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT |
|-------|------------|------|--------|
| 4.314 | 2370269 PB | 2    | 23.166 |

TOTAL AREA=2473701  
MUL FACTOR=1.0000E+00

\* RUN # 815 APR 14, 1997 15:49:19  
START



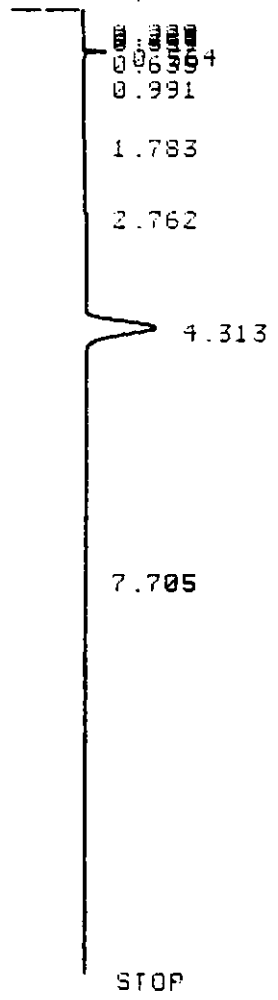


RUN# 815 APR 14, 1997 15:49:19

| ESTD-AREA | RT    | AREA TYPE  | CAL# | AMOUNT |
|-----------|-------|------------|------|--------|
|           | 4.308 | 1675250 PG | 2    | 16.585 |

TOTAL AREA=1611254  
 MUL FACTOR=1.0000E+00

\* RUN # 816 APR 14, 1997 15:58:25  
 START



RUN# 816 APR 14, 1997 15:58:25

| ESTD-AREA | RT    | AREA TYPE | CAL# | AMOUNT |
|-----------|-------|-----------|------|--------|
|           | 0.063 |           |      |        |
|           | 0.991 |           |      |        |
|           | 1.783 |           |      |        |
|           | 2.762 |           |      |        |
|           | 4.313 |           |      |        |
|           | 7.705 |           |      |        |

TOTAL AREA= 065008  
MUL FACTOR=1.0000E+00

\* RUN # 817 APR 14, 1997 16:11:52

START

0.363  
0.06298  
1.110  
1.782  
4.318  
STOP

RUN# 817 APR 14, 1997 16:11:52

ESTD-ARCH

| RT    | AREA TYPE | CAL# | AMOUNT |
|-------|-----------|------|--------|
| 4.318 | 354579 PU | 2    | 3.510  |

TOTAL AREA= 400341  
MUL FACTOR=1.0000E+00

\* RUN # 818 APR 14, 1997 16:19:15

START

0.356  
0.633  
1.433  
2.470  
4.512

STOP

RUN# 818 APR 14, 1997 16:19:15

ESTD-AREA

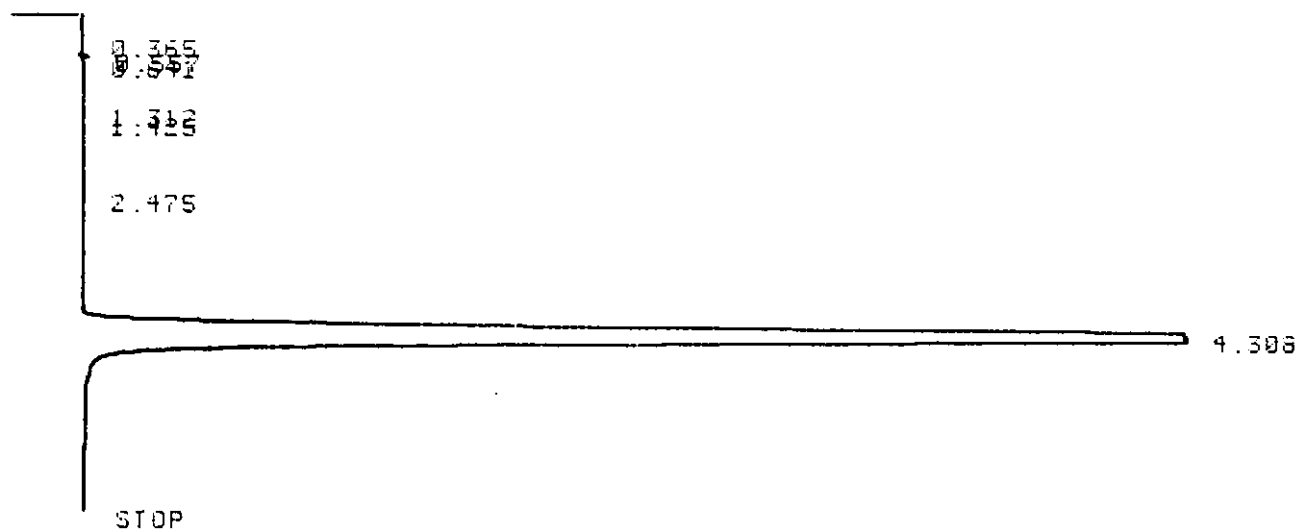
| RT    | AREA TYPE   | CALC | AMOUNT  |
|-------|-------------|------|---------|
| 4.312 | 17429600 PB | 2    | 172.554 |

TOTAL AREA=1.7534E+07

MUL FACTOR=1.0000E+00

\* RUN # 819 APR 14, 1997 16:37:01

START



STOP

RUN# 819 APR 14, 1997 16:37:01

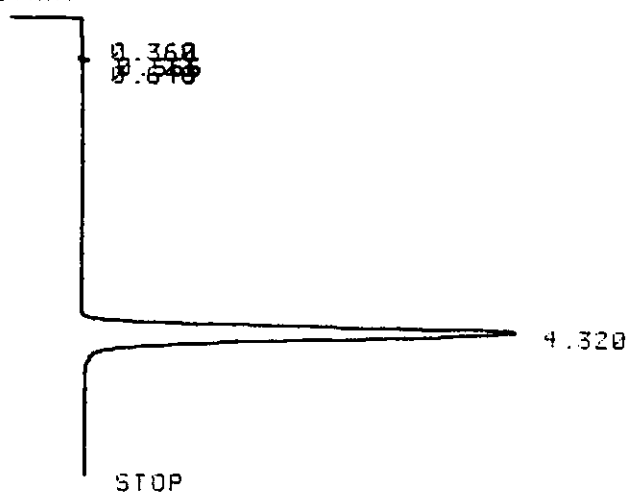
ESTD-AREA

| RT    | AREA TYPE   | CALC | AMOUNT  |
|-------|-------------|------|---------|
| 4.308 | 16991300 BB | 2    | 168.214 |

TOTAL AREA=1.7174E+07

MUL FACTOR=1.0000E+00

\* RUN # 820 APR 14, 1997 16:51:52  
START

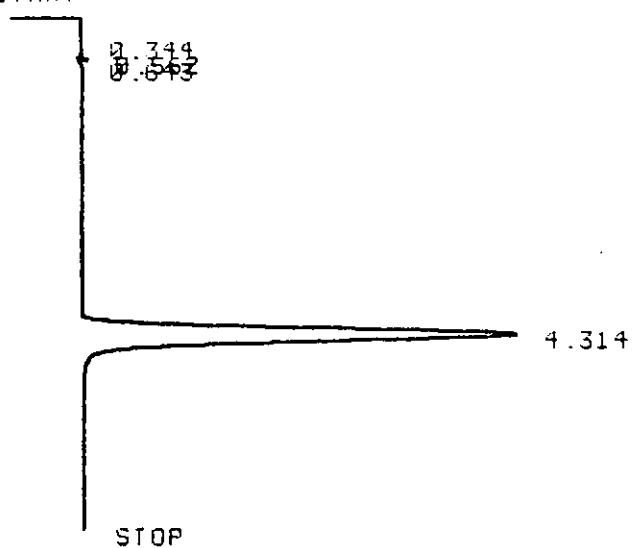


RUN# 820 APR 14, 1997 16:51:52

| ESTD-AREA | RT    | AREA TYPE  | CHL# | AMOUNT |
|-----------|-------|------------|------|--------|
|           | 4.320 | 5021901 PD | 2    | 10.717 |

TOTAL AREA=5117786  
MUL FACTOR=1.0000E+00

\* RUN # 821 APR 14, 1997 16:58:52  
START



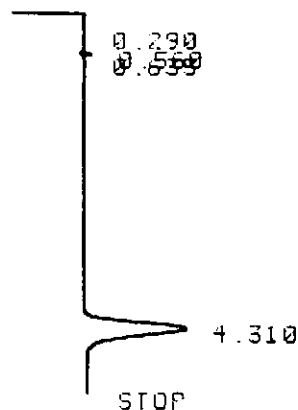
RUN# 821 APR 14, 1997 16:58:52

| ESTD-AREA | RT    | AREA TYPE  | CHL# | AMOUNT |
|-----------|-------|------------|------|--------|
|           | 4.314 | 5021901 PD | 2    | 10.717 |



TOTAL AREA=5155770  
MUL FACTOR=1.0000E+00

\* RUN # 822 APR 14, 1997 17:08:07  
START



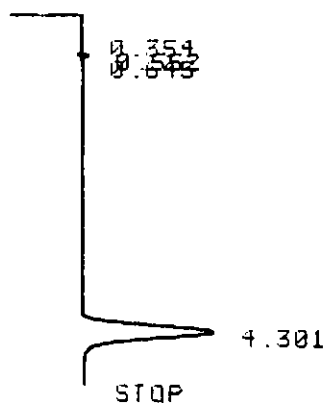
RUN# 822 APR 14, 1997 17:08:07

ESTD-AREA

| RT    | AREA    | TYPE | COL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.310 | 1187860 | P8   | 2    | 11.760 |

TOTAL AREA=1261555  
MUL FACTOR=1.0000E+00

\* RUN # 823 APR 14, 1997 17:13:31  
START



RUN# 823 APR 14, 1997 17:13:31

ESTD-AREA

| RT    | AREA    | TYPE | COL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.301 | 1519800 | P8   | 2    | 15.046 |

TOTAL AREA=1618001  
MUL FACTOR=1.0000E+00

\* RUN # 824 APR 14, 1997 17:19:32  
START

8.358  
~~8.358~~  
~~8.358~~  
1.288  
  
4.308  
STOP

RUN# 824 APR 14, 1997 17:19:32

ESTD-AREA

| RT.   | AREA TYPE | CHL# | AMOUNT |
|-------|-----------|------|--------|
| 4.308 | 136057 PU | 2    | 1.356  |

TOTAL AREA= 207714  
MUL FACTOR=1.0000E+00

041497

① 82

- Replaced batteries & cal  $\Delta P \uparrow P_s = 0414A \text{ cal}$

~~Both~~  $P_s$  down, -2.3". Probably line to previous cal, not change in  $P_s$ .

- 0414B cal contains only  $\ln \phi$  & out span, went back & added inlet span & out  $\phi$  @ 0414C cal

- TTE Filter change Pre 0414-01

$P_b = 30.04$

- Performed 297 ppm bias/bak  $\checkmark$  pre-01 @ THCo  $RH = 39\% @ 47^\circ$

0414-01 on line 0921 NMMA-5-2 18' deck 42%

Initial resin = 345.83

Spray on 0939

Skin done 0953

Lean on @ 1033 Off @ 1049 Final resin = 224.07

Flow: H 8 .20 V 8 .16 Start 1108 Done 1112

DASAP: 0.19 7 .22 7 .19

$T_s = 67$

$P_s = -2.3$  6 .22 6 .20

$P_b = 30.04$   $P_s = -2.3$

5 .21 5 .20

$RH = 39\% @ 47^\circ$

4 .19 4 .20

# Resin = 119.74 = 50.30% Styrene

3 .19 3 .20

Flow = 3.062 3027  $\Delta 19.2\%$

2 .18 2 .19

THC = 164.9 = 9.76% Styrene = 19.4% AS

1 .16 1 .16

$\theta = 172^\circ$

Inlet the air @ 1133 corresponds to styrene odor.

Inlet post 0414-01 30.4 um started w/ low gas flow

0414-02 on line @ 1337 Test - NMMA - 2-2 18' hull 42% Resin

Spray @ 1349 Initial resin = 357.03

~~the~~ skin done 1358

Start lean 1427, 1/2 done ~ 1434

Restart lean ~ 1511 Final = <sup>209.38</sup> ~~213.64~~

Net Resin = 147.65

2 of 2

4/14 cont.

Flow: 2414-02 H8 .18 VS .17

Ps = -2.3 } DAS 7.22 7.18

ΔP = .18 } 6.22 6.19

Start 1533 5.22 5.19

Line 1534 4.19 4.20

RH = 43% @ 49° 3.18 3.20

Pb = 30.06 2.18 2.19

Q = 3044 1.16 1.16

TS = 68°

Θ = 165°

TTC = 191.3 = 10.8% styrene  
= 17.4%

#2cm = 147.65 = 62.01% styrene

Post act 0 in 15 has TS cal vs NBS thermometer

TS = 66 (65.5) vs. 67.5 = NBS

↳ logged data 1° higher

RADIAN CORPORATION  
Environmental Measurement and Analysis Department  
Continuous Emissions Monitoring Data  
S Marine  
Arlington, WA  
Performed for: NMMA  
Date Printed = 04-14-1997 Current Time = 06:33:06  
File Name = c:\cemdata\041497.PRM Calibration File: c:\cemdata\0412c.CAL

Test #:

| 04-14-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 06:33:13           | 4.0          | -1.1         | 0.2           | 70.5      | -496.0      | -2.7        |
| Avg =              | 4.0          | -1.1         | 0.2           | 70.5      | -496.0      | -2.7        |

CALIBRATION SUMMARY

04-14-1997 07:23:06

CALIBRATION FILE NAME = c:\cendata\0414b.CAL

| Chan. | Name  | Units | Zero  |       | Span  |       | Slope  | Int.      |
|-------|-------|-------|-------|-------|-------|-------|--------|-----------|
|       |       |       | Conc. | Resp. | Conc. | Resp. |        |           |
| 1     | THC o | oom   | 0     | 0     | 914   | 9.2   | 99.73  | -.0978    |
| 2     | THC i | oom   | 0     | .01   | 45.5  | 9.2   | 4.93   | -.0285    |
| 3     | Flow  | inH2O | 0     | 2.97  | 1.7   | 3.8   | 2.09   | -6.2005   |
| 4     | Temp  | F     | 32    | 1.98  | 212   | 3.3   | 137.51 | -240.4591 |
| 5     | Resin | lb    | 0     | 1.46  | 600   | 4.3   | 212.27 | -310.8426 |
| 6     | Ps    | inH2O | 0     | .71   | -1.7  | 1.1   | -3.76  | 2.7997    |

CALIBRATION SUMMARY

04-14-1997 07:27:35

CALIBRATION FILE NAME = c:\cendata\0414c.CAL

| ===== |       |       |       |       |       |       |        |
|-------|-------|-------|-------|-------|-------|-------|--------|
| Chan. | Name  | Units | Zero  |       | Span  | Slope | Int.   |
|       |       |       | Conc. | Reso. | Conc. | Reso. |        |
| ===== |       |       |       |       |       |       |        |
| 1     | THC o | oom   | 0     | 0     | 914   | 9.2   | 99.73  |
| 2     | THC i | oom   | 0     | .01   | 45.5  | 9.2   | 4.93   |
| 3     | Flow  | inH2O | 0     | 2.77  | 1.7   | 3.8   | 2.09   |
| 4     | Temp  | F     | 32    | 1.98  | 212   | 3.3   | 137.51 |
| 5     | Resin | lb    | 0     | 1.46  | 600   | 4.3   | 212.27 |
| 6     | Ps    | inH2O | 0     | .71   | -1.7  | 1.1   | -3.96  |
| ===== |       |       |       |       |       |       |        |

RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, MA  
 Performed for: NMMA  
 Date Printed = 04-14-1997 Current Time = 07:31:03  
 File Name = c:\ceedata\041497.PRN Calibration File:c:\ceedata\0414c.CAL

Test #: Pre-1 out 0 in 45.5

| 04-14-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 07:31:06           | 0.0          | 45.4         | 0.2           | 58.0      | -250.5      | -2.4        |
| 07:31:09           | 0.0          | 45.6         | 0.2           | 57.5      | -259.6      | -2.4        |
| 07:31:19           | -0.0         | 45.6         | 0.2           | 57.4      | -209.5      | -2.4        |
| 07:31:29           | -0.0         | 45.6         | 0.2           | 57.2      | -182.1      | -2.4        |
| 07:31:39           | -0.0         | 45.6         | 0.2           | 57.1      | -164.3      | -2.4        |
| 07:31:49           | -0.0         | 45.7         | 0.2           | 57.4      | -150.9      | -2.4        |
| Avg =              | -0.0         | 45.6         | 0.2           | 57.4      | -202.8      | -2.4        |



RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-14-1997 Current Time = 07:33:55

File Name = c:\cendata\041497.PRN Calibration File: c:\cendata\0414c.CAL

Test #: Pre-1 out 914 in 30.4

| 04-14-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 07:33:59           | 903.8        | 30.8         | 0.2           | 57.4      | -409.6      | -2.4        |
| 07:34:01           | 903.8        | 30.8         | 0.2           | 57.4      | -409.6      | -2.4        |
| 07:34:09           | 903.2        | 30.9         | 0.2           | 57.3      | -389.2      | -2.4        |
| 07:34:19           | 903.2        | 30.9         | 0.2           | 57.2      | -371.2      | -2.4        |
| 07:34:29           | 903.3        | 30.9         | 0.2           | 57.1      | -362.8      | -2.4        |
| 07:34:39           | 903.2        | 30.9         | 0.2           | 57.1      | -356.8      | -2.4        |
| Avg =              | 903.4        | 30.8         | 0.2           | 57.3      | -393.2      | -2.4        |

RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-14-1997 Current Time = 07:41:07  
 File Name = c:\cemdata\041497.PRN Calibration File: c:\cemdata\0414c.CAL

Test #: Pre-1 out 600 in 15.0

| 04-14-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 07:41:11           | 612.1        | 15.3         | 0.2           | 58.7      | -445.8      | -2.3        |
| 07:41:13           | 612.1        | 15.3         | 0.2           | 58.7      | -445.8      | -2.3        |
| 07:41:19           | 612.2        | 15.3         | 0.2           | 58.2      | -451.5      | -2.3        |
| 07:41:29           | 611.3        | 15.3         | 0.2           | 58.1      | -419.2      | -2.3        |
| 07:41:39           | 611.2        | 15.3         | 0.2           | 58.2      | -424.0      | -2.3        |
| 07:41:49           | 611.2        | 15.3         | 0.2           | 58.2      | -427.0      | -2.3        |
| 07:41:59           | 612.0        | 15.3         | 0.2           | 58.1      | -428.6      | -2.3        |
| 07:42:09           | 610.3        | 15.3         | 0.2           | 58.3      | -429.2      | -2.3        |
| 07:42:19           | 609.9        | 15.3         | 0.2           | 58.6      | -429.6      | -2.3        |
| 07:42:29           | 611.2        | 15.3         | 0.2           | 58.6      | -429.5      | -2.3        |
| 07:42:39           | 610.7        | 15.3         | 0.2           | 58.5      | -429.8      | -2.3        |
| 07:42:49           | 609.4        | 15.3         | 0.2           | 58.6      | -429.5      | -2.4        |
| 07:42:59           | 611.2        | 15.3         | 0.2           | 58.7      | -429.2      | -2.3        |
| 07:43:09           | 610.5        | 15.3         | 0.2           | 58.8      | -429.3      | -2.3        |
| Avg =              | 611.1        | 15.3         | 0.2           | 58.5      | -432.0      | -2.3        |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-14-1997 Current Time = 07:45:16

File Name = c:\ceadata\041497.PRN Calibration File: c:\ceadata\0414c.CAL

Test #: Pre-1 out 297 in 0

| 04-14-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 07:45:20           | 299.7        | -0.0         | 0.2           | 57.5      | -568.7      | -2.3        |
| 07:45:22           | 299.7        | -0.0         | 0.2           | 57.5      | -568.7      | -2.3        |
| 07:45:29           | 298.9        | -0.1         | 0.2           | 57.2      | -583.8      | -2.3        |
| 07:45:39           | 298.8        | -0.1         | 0.2           | 57.2      | -543.5      | -2.3        |
| 07:45:49           | 299.2        | -0.1         | 0.2           | 57.0      | -554.3      | -2.3        |
| 07:45:59           | 299.4        | -0.1         | 0.2           | 57.0      | -558.6      | -2.3        |
| 07:46:09           | 298.8        | -0.1         | 0.2           | 57.3      | -575.7      | -2.3        |
| Avg =              | 299.2        | -0.1         | 0.2           | 57.2      | -564.7      | -2.3        |

RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-14-1997 Current Time = 08:05:46  
 File Name = c:\cemdata\041497.PRN Calibration File: c:\cemdata\0414c.CAL

Test #: Out 297 ppm bac

| 04-14-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 08:05:50           | 293.9        | 1.3          | 0.2           | 57.0      | -531.5      | -2.3        |
| 08:05:52           | 293.9        | 1.3          | 0.2           | 57.0      | -531.5      | -2.3        |
| 08:05:59           | 293.9        | 1.3          | 0.2           | 56.8      | -509.3      | -2.2        |
| 08:06:09           | 293.7        | 1.3          | 0.2           | 57.0      | -479.4      | -2.3        |
| 08:06:19           | 293.9        | 1.3          | 0.2           | 57.0      | -501.8      | -2.2        |
| 08:06:29           | 293.6        | 1.3          | 0.2           | 56.9      | -503.5      | -2.3        |
| 08:06:39           | 293.8        | 1.3          | 0.2           | 57.1      | -503.9      | -2.2        |
| 08:06:49           | 293.6        | 1.3          | 0.2           | 57.1      | -504.1      | -2.3        |
| 08:06:59           | 292.8        | 1.3          | 0.2           | 57.0      | -504.4      | -2.2        |
| 08:07:09           | 293.5        | 1.3          | 0.2           | 56.8      | -503.7      | -2.3        |
| 08:07:19           | 293.9        | 1.3          | 0.2           | 56.9      | -503.3      | -2.2        |
| 08:07:29           | 293.5        | 1.3          | 0.2           | 57.0      | -504.6      | -2.3        |
| 08:07:39           | 292.3        | 1.3          | 0.2           | 57.0      | -503.3      | -2.2        |
| 08:07:49           | 293.6        | 1.3          | 0.2           | 57.0      | -503.7      | -2.3        |
| 08:07:59           | 293.9        | 1.3          | 0.2           | 57.0      | -504.8      | -2.2        |
| 08:08:09           | 293.8        | 1.3          | 0.2           | 57.0      | -504.0      | -2.3        |
| 08:08:19           | 293.1        | 1.3          | 0.2           | 57.0      | -503.2      | -2.2        |
| 08:08:29           | 293.9        | 1.3          | 0.2           | 57.0      | -503.6      | -2.3        |
| 08:08:39           | 293.8        | 1.3          | 0.2           | 57.0      | -505.3      | -2.2        |
| 08:08:49           | 292.9        | 1.3          | 0.2           | 57.0      | -503.9      | -2.3        |
| 08:08:59           | 292.9        | 1.3          | 0.2           | 57.0      | -504.7      | -2.2        |
| 08:09:09           | 292.9        | 1.3          | 0.2           | 57.1      | -504.4      | -2.3        |
| 08:09:19           | 292.9        | 1.3          | 0.2           | 57.0      | -504.3      | -2.3        |
| 08:09:29           | 293.6        | 1.3          | 0.2           | 57.0      | -503.8      | -2.3        |
| 08:09:39           | 292.9        | 1.3          | 0.2           | 56.9      | -506.0      | -2.2        |
| 08:09:49           | 292.9        | 1.3          | 0.2           | 56.8      | -504.1      | -2.3        |
| 08:09:59           | 292.9        | 1.3          | 0.2           | 56.8      | -503.6      | -2.3        |
| 08:10:09           | 292.8        | 1.3          | 0.2           | 56.9      | -502.5      | -2.4        |
| 08:10:19           | 292.9        | 1.3          | 0.2           | 57.2      | -499.3      | -2.3        |
| 08:10:29           | 292.8        | 1.3          | 0.2           | 57.4      | -498.1      | -2.5        |
| 08:10:39           | 292.8        | 1.2          | 0.2           | 57.2      | -500.4      | -2.3        |
| 08:10:49           | 292.8        | 1.3          | 0.2           | 57.0      | -505.1      | -2.3        |
| 08:10:59           | 292.8        | 1.2          | 0.2           | 57.1      | -503.1      | -2.2        |
| 08:11:09           | 292.9        | 1.2          | 0.2           | 57.1      | -504.2      | -2.3        |
| 08:11:19           | 293.2        | 1.2          | 0.2           | 57.2      | -505.6      | -2.3        |
| 08:11:29           | 292.8        | 1.3          | 0.2           | 57.3      | -503.8      | -2.3        |
| 08:11:39           | 292.8        | 1.3          | 0.2           | 57.3      | -505.0      | -2.2        |
| 08:11:49           | 292.8        | 1.3          | 0.2           | 57.2      | -503.6      | -2.3        |
| Avg =              | 293.3        | 1.3          | 0.2           | 57.0      | -504.6      | -2.3        |

## RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-14-1997 Current Time = 09:21:11

File Name = c:\cemdata\041497.PRN Calibration File:c:\cemdata\0414c.CAL

Test #: 0414-01

| 04-14-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 09:21:52           | 1.0          | 1.4          | 0.2           | 59.5      | 345.5       | -2.7        |
| 09:22:52           | 1.0          | 1.4          | 0.2           | 61.1      | 345.6       | -2.3        |
| 09:23:52           | 1.0          | 1.3          | 0.2           | 62.4      | 345.7       | -2.7        |
| 09:24:52           | 1.0          | 1.3          | 0.2           | 62.7      | 345.7       | -2.3        |
| 09:25:52           | 0.8          | 1.3          | 0.2           | 62.7      | 345.7       | -2.7        |
| 09:26:52           | -0.0         | 1.2          | 0.2           | 62.9      | 345.7       | -2.3        |
| 09:27:52           | -0.0         | 1.2          | 0.2           | 63.2      | 345.8       | -2.7        |
| 09:28:52           | -0.0         | 1.3          | 0.2           | 63.3      | 345.8       | -2.3        |
| 09:29:52           | -0.0         | 1.2          | 0.2           | 63.3      | 345.8       | -2.7        |
| 09:30:52           | 0.2          | 1.2          | 0.2           | 63.1      | 345.8       | -2.3        |
| 09:31:52           | -0.0         | 1.2          | 0.2           | 63.4      | 345.8       | -2.7        |
| 09:32:52           | -0.0         | 1.2          | 0.2           | 63.5      | 345.8       | -2.3        |
| 09:33:52           | -0.0         | 1.2          | 0.2           | 63.6      | 345.8       | -2.7        |
| 09:34:52           | -0.0         | 1.2          | 0.2           | 63.9      | 345.8       | -2.3        |
| 09:35:52           | -0.0         | 1.2          | 0.2           | 63.9      | 345.8       | -2.4        |
| 09:36:52           | -0.0         | 1.2          | 0.2           | 63.9      | 345.8       | -2.3        |
| 09:37:52           | -0.0         | 1.2          | 0.2           | 63.8      | 345.8       | -2.7        |
| 09:38:52           | -0.0         | 1.2          | 0.2           | 63.3      | 345.8       | -2.3        |
| 09:39:52           | 0.8          | 1.2          | 0.2           | 62.2      | 345.2       | -2.7        |
| 09:40:52           | 78.8         | 1.2          | 0.2           | 60.8      | 339.8       | -2.3        |
| 09:41:52           | 152.6        | 1.1          | 0.2           | 61.2      | 335.1       | -2.7        |
| 09:42:52           | 236.9        | 1.1          | 0.2           | 62.1      | 329.3       | -2.3        |
| 09:43:52           | 223.3        | 1.1          | 0.2           | 62.7      | 326.8       | -2.7        |
| 09:44:52           | 253.2        | 1.1          | 0.2           | 63.5      | 324.0       | -2.3        |
| 09:45:52           | 248.7        | 1.1          | 0.2           | 64.1      | 322.3       | -2.4        |
| 09:46:52           | 246.6        | 1.1          | 0.2           | 64.8      | 321.1       | -2.4        |
| 09:47:52           | 287.7        | 1.1          | 0.2           | 65.4      | 317.4       | -2.4        |
| 09:48:52           | 326.8        | 1.1          | 0.2           | 65.2      | 314.4       | -2.4        |
| 09:49:52           | 359.1        | 1.1          | 0.2           | 65.1      | 310.6       | -2.4        |
| 09:50:52           | 339.9        | 1.2          | 0.2           | 65.1      | 309.8       | -2.4        |
| 09:51:52           | 421.1        | 1.2          | 0.2           | 65.4      | 304.5       | -2.4        |
| 09:52:52           | 469.3        | 1.2          | 0.2           | 65.6      | 300.6       | -2.4        |
| 09:53:52           | 420.9        | 1.2          | 0.2           | 65.8      | 300.6       | -2.4        |
| 09:54:52           | 392.2        | 1.2          | 0.2           | 66.1      | 300.6       | -2.4        |
| 09:55:52           | 335.3        | 1.2          | 0.2           | 66.0      | 300.6       | -2.4        |
| 09:56:52           | 296.5        | 1.2          | 0.2           | 66.0      | 300.6       | -2.4        |
| 09:57:52           | 276.2        | 1.2          | 0.2           | 65.9      | 300.6       | -2.4        |
| 09:58:52           | 249.6        | 1.2          | 0.2           | 66.0      | 300.6       | -2.4        |
| 09:59:52           | 225.3        | 1.2          | 0.2           | 65.5      | 300.6       | -2.4        |
| 10:00:52           | 209.8        | 1.3          | 0.2           | 65.0      | 300.6       | -2.4        |

Test #: 0414-01

| 04-14-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 10:01:52           | 207.0        | 1.5          | 0.2           | 65.2      | 300.6       | -2.4        |
| 10:02:52           | 206.8        | 1.5          | 0.2           | 65.7      | 300.6       | -2.4        |
| 10:03:52           | 194.6        | 1.5          | 0.2           | 66.0      | 300.6       | -2.4        |
| 10:04:52           | 190.5        | 1.5          | 0.2           | 66.2      | 300.6       | -2.4        |
| 10:05:52           | 186.3        | 1.4          | 0.2           | 66.3      | 300.6       | -2.4        |
| 10:06:52           | 180.7        | 1.4          | 0.2           | 66.4      | 300.6       | -2.4        |
| 10:07:52           | 170.6        | 1.3          | 0.2           | 66.5      | 300.6       | -2.5        |
| 10:08:52           | 163.3        | 1.3          | 0.2           | 66.7      | 300.6       | -2.6        |
| 10:09:52           | 159.1        | 1.2          | 0.2           | 66.6      | 300.6       | -2.5        |
| 10:10:52           | 151.1        | 1.2          | 0.2           | 66.6      | 300.6       | -2.4        |
| 10:11:52           | 150.9        | 1.2          | 0.2           | 66.6      | 300.6       | -2.4        |
| 10:12:52           | 144.8        | 1.2          | 0.2           | 66.7      | 300.6       | -2.4        |
| 10:13:52           | 142.7        | 1.2          | 0.2           | 66.8      | 300.5       | -2.4        |
| 10:14:52           | 134.7        | 1.2          | 0.2           | 66.8      | 300.6       | -2.4        |
| 10:15:52           | 132.0        | 1.2          | 0.2           | 66.9      | 300.5       | -2.4        |
| 10:16:52           | 128.8        | 1.2          | 0.2           | 66.9      | 300.5       | -2.4        |
| 10:17:52           | 125.6        | 1.2          | 0.2           | 66.9      | 300.5       | -2.4        |
| 10:18:52           | 121.5        | 1.2          | 0.2           | 67.0      | 300.6       | -2.4        |
| 10:19:52           | 118.4        | 1.1          | 0.2           | 67.0      | 300.5       | -2.4        |
| 10:20:52           | 115.6        | 1.1          | 0.2           | 67.0      | 300.5       | -2.3        |
| 10:21:52           | 113.5        | 1.1          | 0.2           | 67.0      | 300.5       | -2.3        |
| 10:22:52           | 111.5        | 1.1          | 0.2           | 67.0      | 300.5       | -2.3        |
| 10:23:52           | 109.6        | 1.1          | 0.2           | 67.0      | 300.5       | -2.3        |
| 10:24:52           | 104.4        | 1.1          | 0.2           | 66.9      | 300.5       | -2.3        |
| 10:25:52           | 102.7        | 1.1          | 0.2           | 66.9      | 300.5       | -2.3        |
| 10:26:52           | 99.6         | 1.1          | 0.2           | 66.8      | 300.5       | -2.3        |
| 10:27:52           | 96.8         | 1.1          | 0.2           | 66.8      | 300.5       | -2.3        |
| 10:28:52           | 89.5         | 1.1          | 0.2           | 66.1      | 300.5       | -2.3        |
| 10:29:52           | 92.3         | 1.1          | 0.2           | 65.8      | 300.5       | -2.3        |
| 10:30:52           | 92.7         | 1.1          | 0.2           | 66.2      | 300.5       | -2.3        |
| 10:31:52           | 90.5         | 1.1          | 0.2           | 66.1      | 300.5       | -2.3        |
| 10:32:52           | 89.6         | 1.1          | 0.2           | 66.4      | 300.5       | -2.3        |
| 10:33:52           | 83.2         | 1.0          | 0.2           | 66.2      | 300.6       | -2.3        |
| 10:34:52           | 120.8        | 1.1          | 0.2           | 66.2      | 298.4       | -2.3        |
| 10:35:52           | 203.7        | 1.1          | 0.2           | 66.4      | 291.4       | -2.3        |
| 10:36:52           | 322.9        | 1.2          | 0.2           | 66.5      | 285.2       | -2.3        |
| 10:37:52           | 381.5        | 1.2          | 0.2           | 66.5      | 279.4       | -2.3        |
| 10:38:52           | 436.1        | 1.2          | 0.2           | 66.3      | 273.0       | -2.3        |
| 10:39:52           | 404.2        | 1.2          | 0.2           | 66.4      | 270.3       | -2.3        |
| 10:40:52           | 406.1        | 1.2          | 0.2           | 66.6      | 268.0       | -2.3        |
| 10:41:52           | 540.1        | 1.2          | 0.2           | 66.7      | 263.5       | -2.3        |
| 10:42:52           | 515.3        | 1.2          | 0.2           | 66.8      | 259.1       | -2.3        |
| 10:43:52           | 571.6        | 1.2          | 0.2           | 66.7      | 253.4       | -2.3        |
| 10:44:52           | 589.1        | 1.2          | 0.2           | 66.2      | 249.0       | -2.3        |
| 10:45:52           | 665.6        | 1.2          | 0.2           | 66.4      | 244.0       | -2.3        |
| 10:46:52           | 694.7        | 1.2          | 0.2           | 66.4      | 238.7       | -2.3        |
| 10:47:52           | 766.8        | 1.2          | 0.2           | 66.7      | 232.9       | -2.3        |
| 10:48:52           | 808.8        | 1.2          | 0.2           | 66.8      | 227.1       | -2.3        |
| 10:49:52           | 709.3        | 1.2          | 0.2           | 66.9      | 226.1       | -2.3        |
| 10:50:52           | 616.9        | 1.2          | 0.2           | 66.9      | 226.1       | -2.3        |
| 10:51:52           | 551.8        | 1.2          | 0.2           | 66.9      | 226.1       | -2.3        |
| 10:52:52           | 500.5        | 1.2          | 0.2           | 66.9      | 226.1       | -2.3        |
| 10:53:52           | 443.5        | 1.2          | 0.2           | 66.7      | 226.1       | -2.3        |
| 10:54:52           | 413.8        | 1.2          | 0.2           | 66.8      | 226.1       | -2.3        |
| 10:55:52           | 375.1        | 1.2          | 0.2           | 66.9      | 226.1       | -2.3        |
| 10:56:52           | 342.9        | 1.2          | 0.2           | 67.0      | 226.1       | -2.3        |

Test #: 0414-01

| 04-14-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 10:57:52           | 283.4        | 1.4          | 0.2           | 66.3      | 226.1       | -2.7        |
| 10:58:52           | 302.9        | 1.4          | 0.2           | 66.7      | 226.1       | -2.3        |
| 10:59:52           | 279.6        | 1.5          | 0.2           | 66.8      | 226.1       | -2.7        |
| 11:00:52           | 265.2        | 1.5          | 0.2           | 66.9      | 226.1       | -2.3        |
| 11:01:52           | 255.4        | 1.5          | 0.2           | 66.9      | 226.1       | -2.7        |
| 11:02:52           | 242.5        | 1.5          | 0.2           | 66.9      | 226.1       | -2.3        |
| 11:03:52           | 232.9        | 1.5          | 0.2           | 66.8      | 226.1       | -2.7        |
| 11:04:52           | 220.8        | 1.4          | 0.2           | 66.8      | 226.1       | -2.3        |
| 11:05:52           | 214.6        | 1.4          | 0.2           | 66.8      | 226.1       | -2.7        |
| 11:06:52           | 206.8        | 1.3          | 0.2           | 66.8      | 226.1       | -2.4        |
| 11:07:52           | 201.3        | 1.3          | 0.2           | 66.8      | 226.1       | -2.4        |
| 11:08:52           | 187.6        | 1.3          | 0.1           | 66.8      | 226.1       | -2.0        |
| 11:09:52           | 187.5        | 1.3          | 0.2           | 66.9      | 226.1       | -2.4        |
| 11:10:52           | 176.8        | 1.3          | 0.1           | 66.9      | 226.1       | -1.9        |
| 11:11:52           | 172.6        | 1.3          | 0.2           | 66.7      | 226.1       | -2.4        |
| 11:12:52           | 170.0        | 1.3          | 0.2           | 66.6      | 226.1       | -2.4        |
| 11:13:52           | 164.3        | 1.3          | 0.2           | 66.6      | 226.1       | -2.4        |
| 11:14:52           | 159.3        | 1.3          | 0.2           | 66.5      | 226.1       | -2.4        |
| 11:15:52           | 153.2        | 1.3          | 0.2           | 66.5      | 226.1       | -2.4        |
| 11:16:52           | 148.7        | 1.4          | 0.2           | 66.4      | 226.1       | -2.4        |
| 11:17:52           | 145.8        | 1.5          | 0.2           | 66.3      | 226.1       | -2.4        |
| 11:18:52           | 139.2        | 1.5          | 0.2           | 66.3      | 226.1       | -2.4        |
| 11:19:52           | 133.9        | 1.5          | 0.2           | 66.4      | 226.1       | -2.4        |
| 11:20:52           | 128.7        | 1.5          | 0.2           | 66.4      | 226.1       | -2.4        |
| 11:21:52           | 124.2        | 1.6          | 0.2           | 66.4      | 226.1       | -2.4        |
| 11:22:52           | 116.4        | 1.6          | 0.2           | 66.3      | 226.1       | -2.4        |
| 11:23:52           | 110.2        | 1.7          | 0.2           | 66.3      | 226.1       | -2.4        |
| 11:24:52           | 103.8        | 1.6          | 0.2           | 66.2      | 226.1       | -2.4        |
| 11:25:52           | 98.5         | 1.6          | 0.2           | 66.3      | 226.1       | -2.4        |
| 11:26:52           | 92.4         | 1.6          | 0.2           | 66.3      | 226.1       | -2.4        |
| 11:27:52           | 98.0         | 1.6          | 0.2           | 66.2      | 226.1       | -2.4        |
| 11:28:52           | 92.1         | 1.6          | 0.2           | 66.3      | 226.1       | -2.4        |
| 11:29:52           | 76.1         | 1.6          | 0.2           | 66.3      | 226.1       | -2.4        |
| 11:30:52           | 71.6         | 1.6          | 0.2           | 66.4      | 226.1       | -2.4        |
| 11:31:52           | 66.1         | 1.7          | 0.2           | 66.6      | 226.1       | -2.4        |
| 11:32:52           | 61.9         | 1.7          | 0.2           | 66.8      | 226.1       | -2.4        |
| 11:33:52           | 57.9         | 1.9          | 0.2           | 66.9      | 226.1       | -2.4        |
| 11:34:52           | 52.8         | 2.3          | 0.2           | 66.9      | 226.2       | -2.4        |
| 11:35:52           | 49.3         | 2.8          | 0.2           | 66.9      | 226.1       | -2.4        |
| 11:36:52           | 45.7         | 2.6          | 0.2           | 66.9      | 226.1       | -2.4        |
| 11:37:52           | 42.3         | 2.4          | 0.2           | 66.8      | 226.1       | -2.4        |
| 11:38:52           | 39.5         | 2.2          | 0.2           | 66.8      | 226.1       | -2.4        |
| 11:39:52           | 36.5         | 2.1          | 0.2           | 66.9      | 226.1       | -2.4        |
| 11:40:52           | 33.4         | 2.1          | 0.2           | 66.8      | 226.1       | -2.4        |
| 11:41:52           | 31.1         | 2.0          | 0.2           | 66.9      | 226.1       | -2.4        |
| 11:42:52           | 28.9         | 1.9          | 0.2           | 66.7      | 226.1       | -2.4        |
| 11:43:52           | 27.0         | 1.8          | 0.2           | 66.6      | 226.1       | -2.4        |
| 11:44:52           | 25.4         | 1.7          | 0.2           | 66.5      | 226.1       | -2.4        |
| 11:45:52           | 23.7         | 1.7          | 0.2           | 66.4      | 226.1       | -2.4        |
| 11:46:52           | 22.6         | 1.7          | 0.2           | 66.5      | 226.1       | -2.4        |
| 11:47:52           | 20.8         | 1.7          | 0.2           | 66.5      | 226.2       | -2.4        |
| 11:48:52           | 19.8         | 1.6          | 0.2           | 66.4      | 226.1       | -2.4        |
| 11:49:52           | 19.7         | 1.6          | 0.2           | 66.4      | 226.1       | -2.4        |
| 11:50:52           | 17.5         | 1.6          | 0.2           | 66.4      | 226.1       | -2.4        |
| 11:51:52           | 16.5         | 1.5          | 0.2           | 66.4      | 226.1       | -2.4        |
| 11:52:52           | 15.8         | 1.5          | 0.2           | 66.4      | 226.1       | -2.4        |

Test #: 0414-01

| 04-14-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 11:53:52           | 14.7         | 1.5          | 0.2           | 66.5      | 226.1       | -2.4        |
| 11:54:52           | 13.9         | 1.5          | 0.2           | 66.4      | 226.1       | -2.4        |
| 11:55:52           | 13.3         | 1.4          | 0.2           | 66.4      | 226.1       | -2.4        |
| 11:56:52           | 12.8         | 1.4          | 0.2           | 66.3      | 226.1       | -2.4        |
| 11:57:52           | 11.8         | 1.4          | 0.2           | 66.3      | 226.1       | -2.4        |
| 11:58:52           | 11.8         | 1.4          | 0.2           | 66.3      | 226.1       | -2.4        |
| 11:59:52           | 11.0         | 1.4          | 0.2           | 66.4      | 226.1       | -2.4        |
| 12:00:52           | 10.7         | 1.3          | 0.2           | 66.3      | 226.1       | -2.4        |
| 12:01:52           | 9.8          | 1.3          | 0.2           | 66.2      | 226.1       | -2.4        |
| 12:02:52           | 9.8          | 1.3          | 0.2           | 66.3      | 226.1       | -2.4        |
| 12:03:52           | 9.4          | 1.2          | 0.2           | 66.3      | 226.1       | -2.4        |
| 12:04:52           | 8.9          | 0.8          | 0.2           | 66.0      | 226.1       | -2.4        |
| 12:05:52           | 8.8          | 0.9          | 0.2           | 65.9      | 226.1       | -2.4        |
| 12:06:52           | 8.8          | 0.9          | 0.2           | 66.3      | 226.1       | -2.4        |
| 12:07:52           | 8.5          | 0.9          | 0.2           | 66.6      | 226.1       | -2.4        |
| 12:08:52           | 7.9          | 0.9          | 0.2           | 66.7      | 226.1       | -2.4        |
| 12:09:52           | 7.9          | 0.9          | 0.2           | 66.8      | 226.1       | -2.4        |
| 12:10:52           | 7.0          | 1.0          | 0.2           | 66.7      | 226.1       | -2.4        |
| 12:11:52           | 6.8          | 1.0          | 0.2           | 66.8      | 226.1       | -2.4        |
| 12:12:52           | 6.8          | 0.9          | 0.2           | 66.8      | 226.1       | -2.4        |
| 12:13:52           | 6.8          | 0.9          | 0.2           | 66.8      | 226.1       | -2.3        |
| Avg =              | 164.9        | 1.3          | 0.2           | 65.9      | 267.0       | -2.3        |



RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-14-1997 Current Time = 12:16:38

File Name = c:\cemdata\041497.PRN Calibration File:c:\cemdata\0414c.CAL

Test #: Post-1 out 297 in 0

| 04-14-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 12:16:41           | 297.9        | -0.4         | 0.2           | 64.4      | -593.1      | -2.3        |
| 12:16:42           | 297.7        | -0.3         | 0.2           | 63.9      | -670.4      | -2.3        |
| 12:16:52           | 297.9        | -0.5         | 0.2           | 63.6      | -532.7      | -2.3        |
| 12:17:02           | 297.9        | -0.4         | 0.2           | 63.0      | -556.7      | -2.3        |
| 12:17:12           | 297.9        | -0.5         | 0.2           | 62.6      | -554.0      | -2.3        |
| 12:17:22           | 297.8        | -0.6         | 0.2           | 62.1      | -548.4      | -2.3        |
| 12:17:32           | 297.9        | -0.5         | 0.2           | 61.6      | -533.9      | -2.3        |
| 12:17:42           | 297.9        | -0.5         | 0.2           | 61.3      | -535.3      | -2.3        |
| Avg =              | 297.8        | -0.5         | 0.2           | 62.8      | -565.6      | -2.3        |

## RADIANT CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-14-1997 Current Time = 12:20:29

File Name = c:\cendata\041497.PRN Calibration File: c:\cendata\0414c.CAL

Test #: Post-1 out 600 in 30.4

| 04-14-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 12:20:33           | 611.2        | 28.6         | 0.2           | 60.0      | -397.6      | -2.3        |
| 12:20:34           | 611.2        | 28.6         | 0.2           | 60.0      | -397.6      | -2.3        |
| 12:20:42           | 612.1        | 28.7         | 0.2           | 59.8      | -386.7      | -2.7        |
| 12:20:52           | 612.2        | 28.7         | 0.2           | 59.7      | -378.4      | -2.3        |
| 12:21:02           | 611.2        | 28.7         | 0.2           | 59.4      | -380.4      | -2.7        |
| 12:21:12           | 611.4        | 28.7         | 0.2           | 59.4      | -381.1      | -2.3        |
| 12:21:22           | 611.9        | 29.0         | 0.2           | 59.4      | -382.7      | -2.7        |
| 12:21:32           | 611.2        | 29.2         | 0.2           | 59.3      | -381.1      | -2.3        |
| 12:21:42           | 611.8        | 29.2         | 0.2           | 59.3      | -378.9      | -2.7        |
| 12:21:52           | 611.8        | 29.2         | 0.1           | 59.4      | -377.4      | -2.3        |
| 12:22:02           | 611.2        | 29.2         | -0.1          | 60.1      | -390.1      | 0.6         |
| 12:22:12           | 612.4        | 29.2         | -0.0          | 60.7      | -390.2      | 0.0         |
| 12:22:22           | 612.2        | 29.2         | -0.0          | 61.1      | -389.1      | 0.6         |
| 12:22:32           | 612.1        | 29.2         | -0.0          | 61.5      | -389.5      | 0.0         |
| 12:22:42           | 611.3        | 29.2         | -0.0          | 61.8      | -390.0      | 0.6         |
| 12:22:52           | 612.2        | 29.2         | -0.0          | 62.0      | -390.5      | 0.0         |
| 12:23:02           | 612.2        | 29.2         | -0.0          | 62.2      | -391.0      | 0.6         |
| 12:23:12           | 612.2        | 29.2         | -0.0          | 62.4      | -390.9      | 0.0         |
| Avg =              | 611.8        | 29.0         | 0.1           | 60.4      | -386.8      | -1.3        |

RADIAM CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-14-1997 Current Time = 12:25:16

File Name = c:\cendata\041497.PRN Calibration File: c:\cendata\0414c.CAL

Test #: Post-1 out 0 in 15.0

| 04-14-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 12:25:19           | -0.0         | 14.6         | -0.0          | 64.1      | -395.8      | 0.0         |
| 12:25:22           | -0.0         | 14.6         | -0.0          | 64.3      | -406.0      | 0.0         |
| 12:25:32           | -0.0         | 14.6         | -0.0          | 64.3      | -381.0      | 0.0         |
| 12:25:42           | -0.0         | 14.6         | -0.0          | 64.3      | -378.1      | 0.0         |
| 12:25:52           | -0.0         | 14.6         | -0.0          | 64.3      | -377.5      | 0.0         |
| 12:26:02           | -0.0         | 14.6         | -0.0          | 64.4      | -377.0      | 0.0         |
| 12:26:12           | -0.0         | 14.6         | -0.0          | 64.3      | -376.8      | 0.0         |
| 12:26:22           | -0.0         | 14.6         | -0.0          | 64.3      | -376.4      | 0.0         |
| 12:26:32           | -0.0         | 14.6         | -0.0          | 64.3      | -376.3      | 0.0         |
| Avg =              | -0.0         | 14.6         | -0.0          | 64.3      | -382.8      | 0.0         |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-14-1997 Current Time = 13:27:37

File Name = C:\CEMDATA\041497.PRN Calibration File: C:\CEMDATA\0414C.CAL

Test #:

| 04-14-1997 | THC o | THC i | Flow  | Temp | Resin | Ps    |
|------------|-------|-------|-------|------|-------|-------|
| Time       | ppm   | ppm   | inH2O | F    | lb    | inH2O |

|       |      |      |      |      |      |      |
|-------|------|------|------|------|------|------|
| Avg = | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|-------|------|------|------|------|------|------|

## RADIANT CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-14-1997 Current Time = 13:37:32

File Name = C:\CENDATA\041497.PRN Calibration File: C:\CENDATA\0414C.CAL

Test #: 0414-02

| 04-14-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 13:38:13           | 1.29         | 1.57         | 0.21          | 62.18     | 356.87      | -2.34       |
| 13:39:12           | 1.05         | 1.46         | 0.20          | 62.57     | 357.03      | -2.35       |
| 13:40:13           | 2.04         | 1.41         | 0.21          | 62.97     | 357.02      | -2.35       |
| 13:41:12           | 17.53        | 1.39         | 0.20          | 63.57     | 354.93      | -2.37       |
| 13:42:12           | 113.00       | 1.37         | 0.20          | 64.38     | 348.75      | -2.35       |
| 13:43:12           | 238.36       | 1.37         | 0.20          | 64.76     | 342.46      | -2.38       |
| 13:44:12           | 338.65       | 1.34         | 0.20          | 65.30     | 336.12      | -2.36       |
| 13:45:12           | 381.45       | 1.34         | 0.20          | 65.59     | 331.33      | -2.38       |
| 13:46:12           | 424.43       | 1.32         | 0.20          | 65.72     | 325.05      | -2.36       |
| 13:47:12           | 412.82       | 1.29         | 0.20          | 65.76     | 322.72      | -2.38       |
| 13:48:12           | 352.14       | 1.28         | 0.20          | 65.90     | 322.72      | -2.36       |
| 13:49:12           | 315.64       | 1.26         | 0.20          | 65.95     | 324.13      | -2.38       |
| 13:50:12           | 271.11       | 1.26         | 0.20          | 65.96     | 322.93      | -2.36       |
| 13:51:12           | 317.21       | 1.24         | 0.20          | 65.87     | 318.28      | -2.38       |
| 13:52:12           | 497.37       | 1.23         | 0.20          | 65.90     | 311.41      | -2.37       |
| 13:53:13           | 559.88       | 1.22         | 0.20          | 65.94     | 305.72      | -2.38       |
| 13:54:12           | 587.35       | 1.23         | 0.20          | 66.00     | 299.76      | -2.37       |
| 13:55:12           | 579.34       | 1.21         | 0.20          | 65.91     | 295.83      | -2.39       |
| 13:56:12           | 513.37       | 1.24         | 0.20          | 66.02     | 293.98      | -2.35       |
| 13:57:12           | 539.18       | 1.22         | 0.20          | 66.05     | 288.99      | -2.38       |
| 13:58:12           | 485.29       | 1.20         | 0.20          | 65.99     | 288.74      | -2.36       |
| 13:59:12           | 391.25       | 1.20         | 0.20          | 65.91     | 288.74      | -2.37       |
| 14:00:12           | 333.51       | 1.37         | 0.20          | 65.34     | 288.74      | -2.36       |
| 14:01:12           | 327.68       | 1.24         | 0.20          | 65.55     | 288.76      | -2.39       |
| 14:02:12           | 295.25       | 1.34         | 0.20          | 65.87     | 288.76      | -2.35       |
| 14:03:12           | 290.02       | 1.48         | 0.20          | 66.08     | 288.77      | -2.39       |
| 14:04:12           | 272.00       | 1.48         | 0.20          | 66.08     | 288.77      | -2.36       |
| 14:05:12           | 239.14       | 1.43         | 0.20          | 66.13     | 288.76      | -2.38       |
| 14:06:12           | 221.92       | 1.36         | 0.20          | 66.19     | 288.76      | -2.37       |
| 14:07:13           | 207.69       | 1.34         | 0.20          | 66.22     | 288.74      | -2.37       |
| 14:08:12           | 197.52       | 1.31         | 0.20          | 66.10     | 288.76      | -2.37       |
| 14:09:12           | 193.02       | 1.27         | 0.20          | 66.08     | 288.75      | -2.36       |
| 14:10:12           | 193.83       | 1.25         | 0.20          | 66.11     | 288.76      | -2.37       |
| 14:11:12           | 187.31       | 1.23         | 0.20          | 66.08     | 288.76      | -2.38       |
| 14:12:12           | 178.84       | 1.21         | 0.20          | 66.07     | 288.75      | -2.37       |
| 14:13:12           | 171.61       | 1.18         | 0.20          | 66.04     | 288.73      | -2.37       |
| 14:14:12           | 166.66       | 1.17         | 0.20          | 66.07     | 288.73      | -2.36       |
| 14:15:12           | 166.42       | 1.16         | 0.20          | 66.04     | 288.73      | -2.38       |
| 14:16:12           | 158.73       | 1.14         | 0.20          | 66.10     | 288.73      | -2.35       |
| 14:17:12           | 159.84       | 1.15         | 0.20          | 66.27     | 288.72      | -2.39       |

Test #: 0414-02

| 04-14-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 14:18:12           | 161.77       | 1.17         | 0.21          | 66.60     | 288.71      | -2.39       |
| 14:19:12           | 151.21       | 1.20         | 0.21          | 66.74     | 288.72      | -2.39       |
| 14:20:12           | 146.44       | 1.23         | 0.20          | 66.79     | 288.72      | -2.39       |
| 14:21:12           | 152.33       | 1.24         | 0.20          | 66.89     | 288.70      | -2.39       |
| 14:22:12           | 139.80       | 1.23         | 0.20          | 67.10     | 288.68      | -2.39       |
| 14:23:12           | 134.75       | 1.29         | 0.20          | 67.30     | 288.68      | -2.39       |
| 14:24:12           | 139.29       | 1.29         | 0.20          | 67.44     | 288.66      | -2.39       |
| 14:25:12           | 132.37       | 1.30         | 0.20          | 67.54     | 288.58      | -2.39       |
| 14:26:12           | 131.18       | 1.32         | 0.20          | 67.66     | 289.33      | -2.39       |
| 14:27:12           | 131.76       | 1.33         | 0.21          | 67.84     | 287.90      | -2.45       |
| 14:28:12           | 223.28       | 1.33         | 0.21          | 67.92     | 281.51      | -2.55       |
| 14:29:12           | 321.20       | 1.32         | 0.22          | 67.91     | 276.65      | -2.54       |
| 14:30:12           | 406.98       | 1.32         | 0.21          | 67.79     | 270.76      | -2.57       |
| 14:31:12           | 462.02       | 1.26         | 0.21          | 67.64     | 266.85      | -2.53       |
| 14:32:12           | 438.25       | 1.26         | 0.21          | 67.61     | 265.29      | -2.54       |
| 14:33:12           | 491.63       | 1.22         | 0.21          | 67.42     | 259.32      | -2.54       |
| 14:34:12           | 506.40       | 1.21         | 0.21          | 67.18     | 254.15      | -2.55       |
| 14:35:12           | 576.07       | 1.19         | 0.21          | 67.02     | 249.93      | -2.52       |
| 14:36:12           | 527.08       | 1.23         | 0.21          | 67.11     | 249.48      | -2.57       |
| 14:37:12           | 456.19       | 1.31         | 0.21          | 67.20     | 249.48      | -2.54       |
| 14:38:12           | 377.16       | 1.27         | 0.22          | 66.94     | 249.47      | -2.55       |
| 14:39:12           | 360.22       | 1.27         | 0.22          | 66.85     | 249.47      | -2.55       |
| 14:40:12           | 326.61       | 1.30         | 0.22          | 66.77     | 249.47      | -2.55       |
| 14:41:12           | 293.53       | 1.42         | 0.21          | 66.68     | 249.46      | -2.54       |
| 14:42:12           | 268.92       | 1.47         | 0.21          | 66.54     | 249.48      | -2.54       |
| 14:43:12           | 247.57       | 1.54         | 0.21          | 66.60     | 249.48      | -2.54       |
| 14:44:12           | 219.21       | 1.55         | 0.21          | 66.42     | 249.46      | -2.57       |
| 14:45:12           | 214.84       | 1.54         | 0.21          | 66.56     | 249.46      | -2.53       |
| 14:46:12           | 200.80       | 1.50         | 0.21          | 66.62     | 249.46      | -2.57       |
| 14:47:12           | 185.91       | 1.48         | 0.21          | 66.73     | 249.46      | -2.54       |
| 14:48:12           | 169.49       | 1.52         | 0.22          | 66.77     | 249.46      | -2.52       |
| 14:49:12           | 164.49       | 1.48         | 0.21          | 66.71     | 249.47      | -2.53       |
| 14:50:12           | 158.18       | 1.39         | 0.22          | 66.76     | 249.46      | -2.54       |
| 14:51:12           | 148.15       | 1.39         | 0.21          | 66.69     | 249.46      | -2.53       |
| 14:52:12           | 133.87       | 1.41         | 0.22          | 66.21     | 249.45      | -2.57       |
| 14:53:12           | 135.97       | 1.35         | 0.21          | 66.47     | 249.46      | -2.54       |
| 14:54:12           | 132.98       | 1.34         | 0.22          | 66.65     | 249.45      | -2.55       |
| 14:55:12           | 124.85       | 1.31         | 0.21          | 66.56     | 249.45      | -2.52       |
| 14:56:12           | 118.05       | 1.31         | 0.22          | 66.38     | 249.25      | -2.54       |
| 14:57:12           | 114.29       | 1.32         | 0.21          | 66.28     | 249.01      | -2.52       |
| 14:58:12           | 105.76       | 1.30         | 0.21          | 66.31     | 249.63      | -2.51       |
| 14:59:12           | 97.42        | 1.28         | 0.21          | 66.22     | 249.65      | -2.52       |
| 15:00:12           | 91.89        | 1.29         | 0.21          | 66.24     | 249.66      | -2.51       |
| 15:01:12           | 85.11        | 1.31         | 0.21          | 66.31     | 249.66      | -2.52       |
| 15:02:12           | 83.10        | 1.28         | 0.21          | 66.29     | 249.66      | -2.57       |
| 15:03:12           | 81.21        | 1.26         | 0.21          | 66.49     | 249.66      | -2.54       |
| 15:04:12           | 78.45        | 1.29         | 0.21          | 66.66     | 249.66      | -2.54       |
| 15:05:12           | 75.12        | 1.25         | 0.21          | 66.78     | 249.66      | -2.52       |
| 15:06:12           | 72.66        | 1.24         | 0.21          | 66.84     | 249.66      | -2.54       |
| 15:07:12           | 69.72        | 1.23         | 0.21          | 66.75     | 249.66      | -2.51       |
| 15:08:12           | 67.47        | 1.23         | 0.21          | 66.80     | 249.66      | -2.57       |
| 15:09:12           | 64.74        | 1.22         | 0.22          | 66.81     | 249.65      | -2.54       |
| 15:10:12           | 59.71        | 1.23         | 0.22          | 66.43     | 249.15      | -2.57       |
| 15:11:12           | 59.43        | 1.27         | 0.22          | 66.43     | 247.38      | -2.52       |
| 15:12:12           | 103.97       | 1.31         | 0.20          | 66.73     | 244.25      | -2.47       |
| 15:13:12           | 229.10       | 1.36         | 0.20          | 66.98     | 239.78      | -2.31       |

Test #: 0414-02

| 14-1997<br>Date | THC o<br>oom | THC i<br>oom | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|-----------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 15:14:12        | 289.31       | 1.30         | 0.20          | 67.13     | 234.94      | -2.33       |
| 15:15:12        | 377.47       | 1.23         | 0.20          | 67.14     | 229.26      | -2.31       |
| 15:16:12        | 396.08       | 1.20         | 0.20          | 67.14     | 226.57      | -2.31       |
| 15:17:12        | 385.42       | 1.22         | 0.20          | 67.05     | 226.20      | -2.33       |
| 15:18:12        | 347.36       | 1.28         | 0.20          | 66.99     | 225.16      | -2.33       |
| 15:19:12        | 393.40       | 1.24         | 0.19          | 67.10     | 219.82      | -2.32       |
| 15:20:12        | 424.13       | 1.23         | 0.19          | 67.01     | 213.64      | -2.33       |
| 15:21:13        | 493.43       | 1.21         | 0.19          | 67.04     | 209.38      | -2.33       |
| 15:22:12        | 444.24       | 1.62         | 0.20          | 67.03     | 209.15      | -2.32       |
| 15:23:12        | 420.34       | 1.28         | 0.19          | 66.93     | 209.17      | -2.32       |
| 15:24:12        | 405.18       | 1.26         | 0.20          | 67.10     | 207.61      | -2.32       |
| 15:25:12        | 347.90       | 1.39         | 0.19          | 66.96     | 207.56      | -2.32       |
| 15:26:12        | 329.51       | 1.36         | 0.20          | 67.04     | 207.56      | -2.32       |
| 15:27:12        | 292.45       | 1.25         | 0.20          | 67.03     | 207.57      | -2.32       |
| 15:28:12        | 274.75       | 1.44         | 0.20          | 67.08     | 207.59      | -2.32       |
| 15:29:13        | 249.26       | 1.64         | 0.19          | 66.97     | 207.61      | -2.32       |
| 15:30:12        | 223.31       | 1.58         | 0.19          | 66.96     | 207.63      | -2.32       |
| 15:31:12        | 205.81       | 1.49         | 0.19          | 67.11     | 207.63      | -2.32       |
| 15:32:12        | 194.42       | 1.52         | 0.19          | 67.17     | 207.62      | -2.32       |
| 15:33:12        | 171.57       | 1.63         | 0.18          | 67.31     | 207.60      | -2.32       |
| 15:34:12        | 157.32       | 2.20         | 0.19          | 67.35     | 207.59      | -2.11       |
| 15:35:12        | 147.61       | 1.61         | 0.17          | 67.40     | 207.57      | -2.09       |
| 15:36:12        | 144.73       | 1.55         | 0.18          | 67.45     | 207.59      | -2.32       |
| 15:37:12        | 133.58       | 1.51         | 0.15          | 67.51     | 207.59      | -1.96       |
| 15:38:12        | 125.83       | 1.49         | 0.20          | 67.52     | 207.58      | -2.32       |
| 15:39:13        | 116.43       | 1.47         | 0.20          | 67.54     | 207.59      | -2.32       |
| 15:40:12        | 108.05       | 1.44         | 0.20          | 67.50     | 207.60      | -2.32       |
| 15:41:12        | 101.75       | 1.41         | 0.19          | 67.54     | 207.59      | -2.32       |
| 15:42:12        | 94.85        | 1.37         | 0.20          | 67.54     | 207.59      | -2.32       |
| 15:43:12        | 89.59        | 1.38         | 0.19          | 67.55     | 207.58      | -2.32       |
| 15:44:12        | 83.58        | 1.33         | 0.19          | 67.56     | 207.59      | -2.32       |
| 15:45:12        | 77.63        | 1.34         | 0.19          | 67.48     | 207.57      | -2.32       |
| 15:46:12        | 74.29        | 1.31         | 0.19          | 67.49     | 207.58      | -2.32       |
| 15:47:12        | 68.55        | 1.32         | 0.19          | 67.34     | 207.56      | -2.32       |
| 15:48:12        | 65.62        | 1.30         | 0.19          | 67.33     | 207.56      | -2.32       |
| 15:49:12        | 61.44        | 1.32         | 0.19          | 67.38     | 207.56      | -2.33       |
| 15:50:12        | 56.41        | 1.29         | 0.19          | 67.35     | 207.55      | -2.32       |
| 15:51:12        | 53.01        | 1.26         | 0.19          | 67.32     | 207.56      | -2.33       |
| 15:52:12        | 50.00        | 1.27         | 0.20          | 67.42     | 207.56      | -2.32       |
| 15:53:12        | 44.82        | 1.26         | 0.20          | 67.48     | 207.54      | -2.32       |
| 15:54:12        | 41.81        | 1.26         | 0.20          | 67.48     | 207.55      | -2.32       |
| 15:55:12        | 39.86        | 1.25         | 0.20          | 67.53     | 207.54      | -2.32       |
| 15:56:12        | 37.11        | 1.28         | 0.19          | 67.58     | 207.55      | -2.32       |
| 15:57:13        | 34.47        | 1.28         | 0.19          | 67.58     | 207.54      | -2.32       |
| 15:58:12        | 31.45        | 1.18         | 0.19          | 67.58     | 207.55      | -2.32       |
| 15:59:12        | 28.91        | 1.02         | 0.20          | 67.60     | 207.55      | -2.33       |
| 16:00:12        | 27.12        | 0.93         | 0.20          | 67.58     | 207.55      | -2.32       |
| 16:01:12        | 25.00        | 0.90         | 0.20          | 67.61     | 207.57      | -2.33       |
| 16:02:12        | 22.91        | 0.95         | 0.20          | 67.62     | 207.55      | -2.32       |
| 16:03:12        | 20.68        | 0.99         | 0.20          | 67.56     | 207.54      | -2.32       |
| 16:04:12        | 19.29        | 0.94         | 0.20          | 67.61     | 207.53      | -2.32       |
| 16:05:12        | 17.62        | 0.96         | 0.20          | 67.57     | 207.54      | -2.33       |
| 16:06:12        | 17.13        | 0.94         | 0.20          | 67.65     | 207.54      | -2.34       |
| 16:07:12        | 16.01        | 0.96         | 0.20          | 67.63     | 207.53      | -2.34       |
| 16:08:12        | 14.67        | 0.97         | 0.19          | 67.68     | 207.53      | -2.32       |
| 16:09:12        | 13.67        | 1.13         | 0.20          | 67.65     | 207.53      | -2.33       |

Test #: 0414-02

| 04-14-1997<br>Time | THC o<br>oob | THC i<br>oob | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 16:10:12           | 12.92        | 1.20         | 0.20          | 67.65     | 207.51      | -2.33       |
| 16:11:12           | 12.12        | 1.22         | 0.19          | 67.61     | 207.52      | -2.33       |
| 16:12:13           | 11.43        | 1.28         | 0.19          | 67.58     | 207.50      | -2.33       |
| 16:13:12           | 10.80        | 1.29         | 0.19          | 67.58     | 207.51      | -2.33       |
| 16:14:12           | 10.09        | 1.28         | 0.20          | 67.57     | 207.51      | -2.34       |
| 16:15:12           | 9.81         | 1.27         | 0.20          | 67.56     | 207.51      | -2.33       |
| 16:16:12           | 9.20         | 1.27         | 0.20          | 67.49     | 207.50      | -2.33       |
| 16:17:13           | 8.94         | 1.27         | 0.19          | 67.48     | 207.51      | -2.33       |
| 16:18:12           | 8.53         | 1.28         | 0.20          | 67.47     | 207.51      | -2.34       |
| 16:19:12           | 7.84         | 1.25         | 0.20          | 67.37     | 207.49      | -2.33       |
| 16:20:13           | 7.55         | 1.23         | 0.20          | 67.16     | 207.49      | -2.32       |
| 16:21:12           | 6.75         | 1.22         | 0.19          | 67.07     | 207.49      | -2.33       |
| 16:22:13           | 6.72         | 1.20         | 0.20          | 67.17     | 207.50      | -2.34       |
| 16:23:12           | 6.73         | 1.19         | 0.20          | 67.31     | 207.50      | -2.33       |
| Avg =              | 191.31       | 1.30         | 0.20          | 66.76     | 249.53      | -2.39       |



RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-14-1997 Current Time = 16:31:02

File Name = C:\CEM\DATA\041497.PRN Calibration File: C:\CEM\DATA\0414C.CAL

Test #: Post-03 out 0 in 15.0

| 04-14-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 16:31:06           | -0.03        | 14.29        | 0.21          | 66.18     | 207.44      | -2.31       |
| 16:31:07           | -0.03        | 14.29        | 0.21          | 66.18     | 207.44      | -2.31       |
| 16:31:12           | -0.03        | 14.27        | 0.20          | 65.97     | 207.47      | -2.32       |
| 16:31:22           | -0.03        | 14.30        | 0.20          | 65.96     | 207.49      | -2.32       |
| 16:31:32           | -0.02        | 14.32        | 0.19          | 65.91     | 207.47      | -2.32       |
| 16:31:42           | -0.02        | 14.33        | 0.20          | 65.89     | 207.48      | -2.34       |
| 16:31:52           | -0.04        | 14.33        | 0.20          | 65.89     | 207.48      | -2.32       |
| 16:32:02           | -0.04        | 14.32        | 0.19          | 65.88     | 207.48      | -2.31       |
| 16:32:12           | -0.03        | 14.32        | 0.20          | 65.88     | 207.50      | -2.32       |
| 16:32:22           | -0.04        | 14.31        | 0.21          | 65.75     | 207.49      | -2.31       |
| 16:32:32           | -0.03        | 14.29        | 0.20          | 65.77     | 207.49      | -2.32       |
| Avg =              | -0.03        | 14.31        | 0.20          | 65.93     | 207.47      | -2.32       |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-14-1997 Current Time = 16:35:42

File Name = C:\CEM\DATA\041497.PRN Calibration File: C:\CEM\DATA\0414C.CAL

Test #: Post-3 out 297 in 30.4

| 04-14-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 16:35:46           | 297.89       | 29.48        | 0.20          | 65.56     | 207.50      | -2.31       |
| 16:35:48           | 297.89       | 29.48        | 0.20          | 65.56     | 207.50      | -2.31       |
| 16:35:52           | 297.87       | 29.52        | 0.20          | 65.67     | 207.52      | -2.32       |
| 16:36:02           | 297.86       | 29.58        | 0.19          | 65.74     | 207.50      | -2.31       |
| 16:36:13           | 297.88       | 29.57        | 0.20          | 65.71     | 207.49      | -2.32       |
| 16:36:22           | 297.87       | 29.56        | 0.20          | 65.70     | 207.50      | -2.32       |
| 16:36:32           | 297.86       | 29.55        | 0.20          | 65.72     | 207.48      | -2.32       |
| 16:36:42           | 297.87       | 29.55        | 0.20          | 65.77     | 207.47      | -2.32       |
| Avg =              | 297.87       | 29.54        | 0.20          | 65.68     | 207.50      | -2.32       |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-14-1997 Current Time = 16:39:50

File Name = C:\CEM\DATA\041497.PRN Calibration File: C:\CEM\DATA\04140.CAL

Test #: Post-3 out 600 in 0

| 04-14-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 16:39:54           | 613.07       | -0.17        | 0.20          | 66.15     | 207.45      | -2.35       |
| 16:39:56           | 613.07       | -0.17        | 0.20          | 66.15     | 207.45      | -2.35       |
| 16:40:02           | 612.71       | -0.19        | 0.19          | 66.45     | 207.50      | -2.30       |
| 16:40:12           | 612.99       | -0.19        | 0.19          | 66.51     | 207.46      | -2.32       |
| 16:40:22           | 612.15       | -0.19        | 0.20          | 66.52     | 207.46      | -2.34       |
| 16:40:33           | 612.22       | -0.19        | 0.19          | 66.52     | 207.48      | -2.33       |
| 16:40:42           | 612.20       | -0.20        | 0.20          | 66.75     | 207.49      | -2.35       |
| 16:40:52           | 612.52       | -0.19        | 0.20          | 66.71     | 207.46      | -2.34       |
| 16:41:02           | 612.11       | -0.20        | 0.19          | 66.72     | 207.47      | -2.32       |
| 16:41:12           | 612.13       | -0.20        | 0.20          | 66.75     | 207.45      | -2.33       |
| Avg =              | 612.53       | -0.19        | 0.20          | 66.54     | 207.47      | -2.34       |

**April 15, 1997**

**Styrene Audit (3)**

**Audit (4)**

**0415-01/NMMA-16-1: 18-ft Deck 42% Styrene Resin Flow Coat**

**Flow Audit**

**0415-02/NMMA-15-1: 18-ft Hull 42% Styrene Resin Flow Coat**

**Resin Scale QC Test**

DAILY SPRAY EQUIPMENT CALIBRATION

Date: 4-15-97

Initial: Larry Dargatz

Spray Gun: \_\_\_\_\_

Resin Flow Calibration (15-second evaluation)

|                | Pre-Test | Post-Test |
|----------------|----------|-----------|
| Run 1 Mass (g) | 791      | 847       |
| Run 2 Mass (g) |          |           |
| Run 3 Mass (g) |          |           |
| Average        |          |           |

Resin:Glass Ratio

|                |      |  |
|----------------|------|--|
| Mass resin (g) | 406  |  |
| Mass glass (g) | 192  |  |
| TOTAL          | 598  |  |
| Percent glass  | 32.1 |  |

| Material     | Drum No. | Gel Time (min) | Catalyst % Vol. | Setting |
|--------------|----------|----------------|-----------------|---------|
| Gelcoat      |          |                |                 |         |
| Resin (skin) | 2        |                |                 |         |
| Resin (lam)  |          |                |                 |         |

Thickness Checks

| Run                         | 1 | 2 | 3 | 4 | 5 |
|-----------------------------|---|---|---|---|---|
| Deck 60 mil skin            |   |   |   |   |   |
| 150 mil                     |   |   |   |   |   |
| Hull 90 mil skin            |   |   |   |   |   |
| 60 mil Rov                  |   |   |   |   |   |
| Bottom 30 mil Rov           |   |   |   |   |   |
| side and Transom 60 mil Rov |   |   |   |   |   |

DAILY GAS CHROMATOGRAPHY LOG

Date: 4/15/97

Initial: [Signature]

Run 0415-01 902

Test MMA-16-1 18' deck 42% FC  
MMA-15-1 18' deck 42% FC

| Run No. | Time | Comments                  | THC | MMA Area | Styrene Area         |
|---------|------|---------------------------|-----|----------|----------------------|
| 825     |      | BAir                      |     |          | 1239071              |
| 826     |      | BAir, reg. purge 4.320    |     |          | 176395               |
| 827     |      | BAir 4.321                |     |          | 213703               |
| 828     |      | 59.2 4.312 4.315          |     |          | 33460042<br>33460042 |
| 829     |      | 59.2 4.315                |     |          | 3346936              |
| 830     |      | 59.2 4.315                |     |          | 4179248              |
| 831     |      | 59.2 4.315                |     |          | 532379               |
| 832     |      | 122 4.316                 |     |          | 9615066              |
| 833     |      | 122 4.315                 |     |          | 9712975              |
| 834     |      | 204 4.312                 |     |          | 17192032             |
| 835     |      | 204 4.314                 |     |          | 16329160             |
| 836     | 0951 | 1                         | 40  |          | 1283739              |
| 837     | 0957 | 2                         | 130 |          | 2849688              |
| 838     | 1008 | 3                         | 182 |          | 5175330              |
| 839     | 1018 | 4                         | 121 |          | 3053062              |
| 840     | 1026 | 5                         | 107 |          | 2581154              |
| 841     | 1034 | 6                         | 96  |          | 2414952              |
| 842     | 1044 | 7                         | 94  |          | 3672360              |
| 843     | 1051 | 8 - failed to inject (62) | 245 |          |                      |
| 844     | 1100 | 8                         | 340 |          | 9195130              |
| 845     | 1106 | 9                         | 253 |          | 5991587              |
| 846     | 1115 | 10                        | 170 |          | 4736778              |
| 847     | 1122 | 11                        | 150 |          | 4231245              |
| 848     | 1129 | 12                        | 136 |          | 3369664              |
| 849     | 1130 | 13                        | 99  |          | 2470118              |
| 850     | 1149 | 14                        | 48  |          | 1381485              |
| 851     | 1155 | 15                        | 27  |          | 869409               |
| 852     | 1206 | 16                        | 12  |          | 338874               |
| 853     | 1213 | 17                        | 9   |          | 211325               |
| 854     |      | 204 4.316                 | 204 |          | 1724432              |
| 855     |      | 59.2 4.311                |     |          | 4923560              |
| 856     | 1407 | 1                         | 140 |          | 3033627              |
| 857     | 1414 | 2                         | 186 |          | 5384074              |
| 858     | 1421 | 3                         | 250 |          | 7477741              |

0415-01  
MMA-16-1

end  
PST-01

0415-02

**Radian International LLC**  
**Stelling Engineering, P.A.**  
**Air Tech Environmental LLC**

Date: 4/15/97

Initial: OO

Run 0415-02

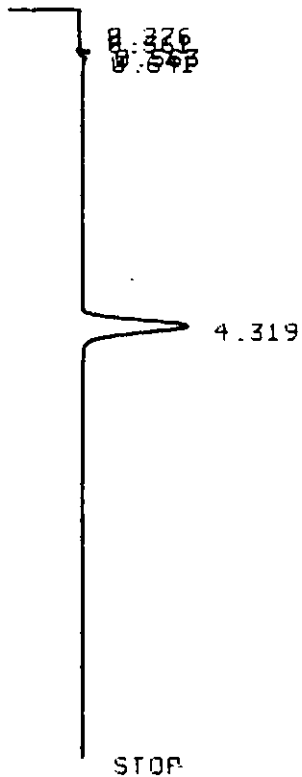
Test MMA-15-1 18' H<sub>2</sub>O 42% FC

[illegible]

4/15/97

Am Cals

\* RUN # 825      APR 15, 1997    06:39:02  
START



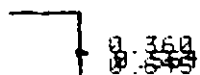
RUN# 825      APR 15, 1997    06:39:02

ESTD-AREA

| RT    | AREA    | TYPE | CALC | AMOUNT |
|-------|---------|------|------|--------|
| 4.319 | 1239871 | PA   | 2    | 12.275 |

TOTAL AREA=1485564  
NUL FACTOR=1.0000E+00

\* RUN # 826      APR 15, 1997    06:50:44  
START





4.320

STOP

RUN# 826 APR 15, 1997 06:50:44

ESTD-AREA

| RT    | AREA   | TYPE | CALC | AMOUNT |
|-------|--------|------|------|--------|
| 4.320 | 176395 | PV   | 2    | 1.746  |

TOTAL AREA= 276197  
MUL FACTOR= 1.0000E+00

\* RUN # 827 APR 15, 1997 06:50:27  
START

0.366  
0.366  
0.366

4.322

STOP

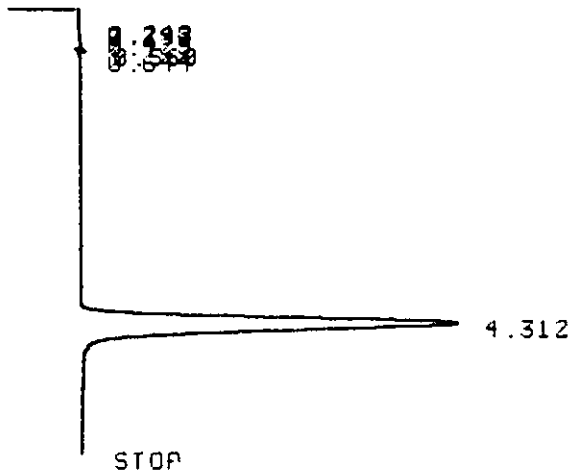
RUN# 827 APR 15, 1997 06:58:27

ESTD-AREA

| RT    | AREA TYPE | CAL# | AMOUNT |
|-------|-----------|------|--------|
| 4.322 | 213703 PU | 2    | 2.116  |

TOTAL AREA= 343095  
MUL FACTOR=1.0000E+00

\* RUN # 828 APR 15, 1997 07:17:46  
START; not ready



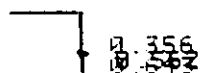
RUN# 828 APR 15, 1997 07:17:46

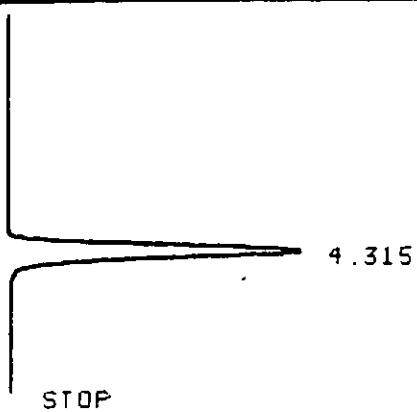
ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT |
|-------|------------|------|--------|
| 4.312 | 4300047 00 | 2    | 43.164 |

TOTAL AREA=1509440  
MUL FACTOR=1.0000E+00

\* RUN # 829 APR 15, 1997 07:24:37  
START





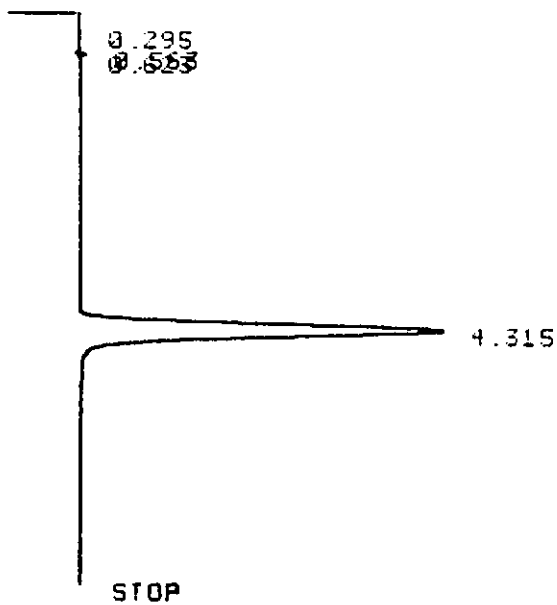
RUN# 829 APR 15, 1997 07:24:37

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.315 | 3340036 | BA   | 2    | 33.135 |

TOTAL AREA=3400851  
MUL FACTOR=1.0000E+00

\* RUN # 830 APR 15, 1997 07:31:39  
START



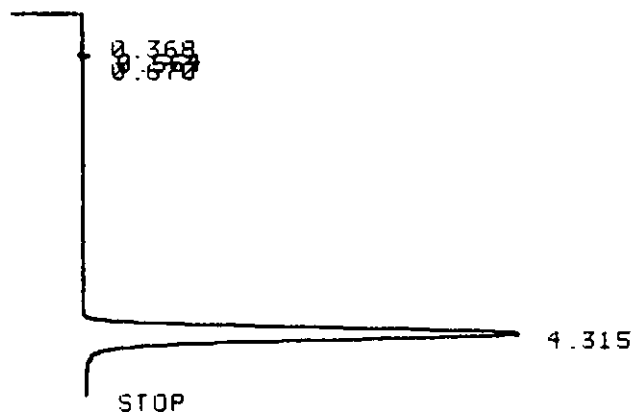
RUN# 830 APR 15, 1997 07:31:39

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.315 | 4179248 | PA   | 2    | 41.375 |

TOTAL AREA=4257219  
MUL FACTOR=1.0000E+00

\* RUN # 831 APR 15, 1997 07:41:34  
START



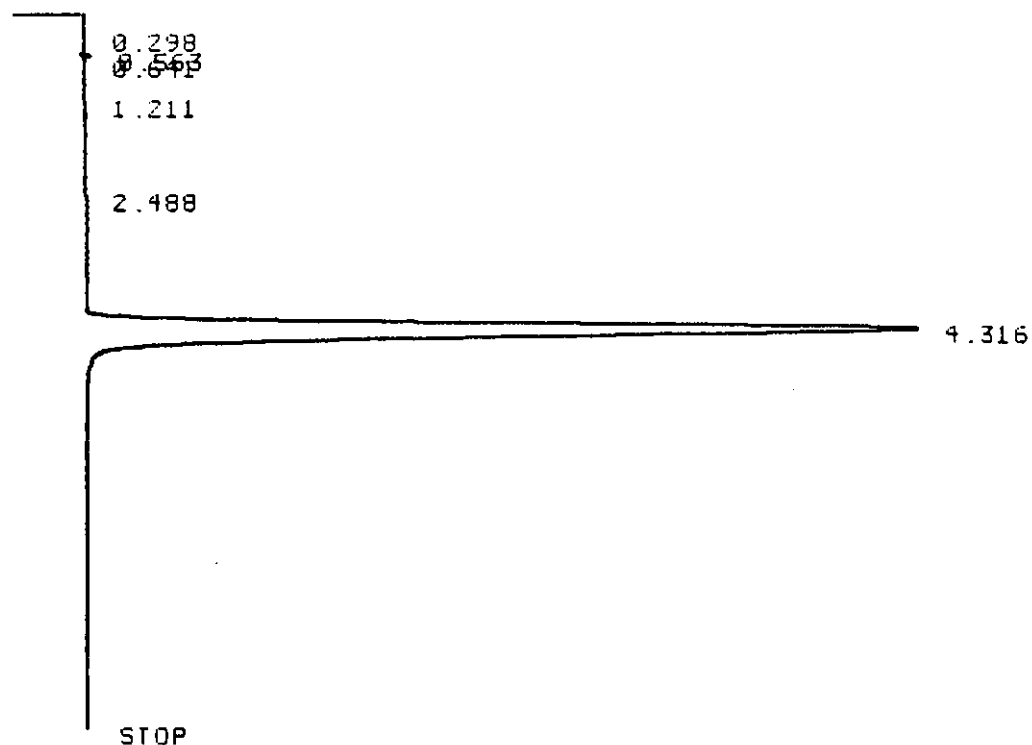
RUN# 831 APR 15, 1997 07:41:34

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.315 | 5030979 | PB   | 2    | 49.807 |

TOTAL AREA=5124502  
MUL FACTOR=1.0000E+00

\* RUN # 832 APR 15, 1997 07:49:17  
START



RUN# 832 APR 15, 1997 07:49:17

ESTD-AREA

| RT | AREA | TYPE | CAL# | AMOUNT |
|----|------|------|------|--------|
|----|------|------|------|--------|

5

TOTAL AREA=9.6737E+06  
MUL FACTOR=1.0000E+00

\* RUN # 833 APR 15, 1997 08:11:39  
START

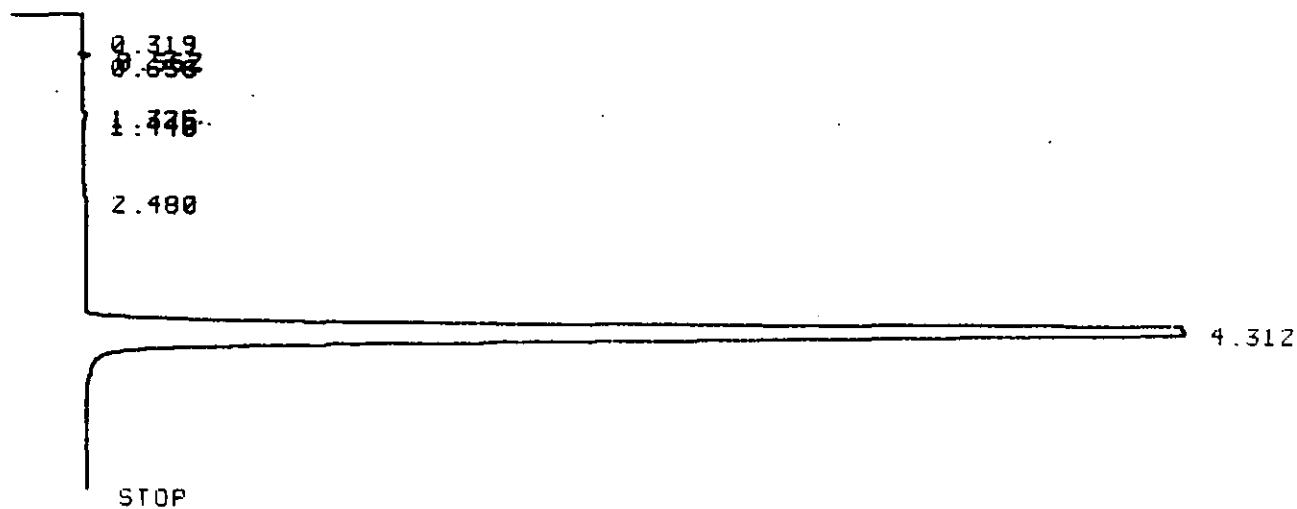


RUN# 833 APR 15, 1997 08:11:39

| ESTD-AREA | RT    | AREA    | TYPE | CAL# | AMOUNT |
|-----------|-------|---------|------|------|--------|
|           | 4.315 | 9712979 | PB   | 2    | 96.158 |

TOTAL AREA=9.8275E+06  
MUL FACTOR=1.0000E+00

\* RUN # 834 APR 15, 1997 08:20:22  
START



RUN# 834 APR 15, 1997 08:20:22

| ESTD-AREA | RT    | AREA TYPE | CAL# | AMOUNT  |
|-----------|-------|-----------|------|---------|
|           | 4.312 | 17192032  | P0   | 2       |
|           |       |           |      | 170.201 |

TOTAL AREA=1.7321E+07  
MUL FACTOR=1.0000E+00

\* RUN # 835 APR 15, 1997 08:29:16  
START

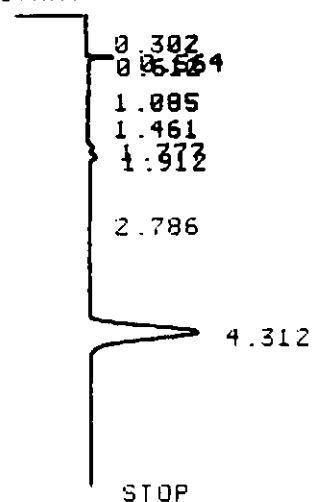


RUN# 835 APR 15, 1997 08:29:16

| ESTD-AREA | RT    | AREA TYPE | CAL# | AMOUNT  |
|-----------|-------|-----------|------|---------|
|           | 4.314 | 16329160  | P0   | 2       |
|           |       |           |      | 161.659 |

TOTAL AREA=1.6500E+07  
MUL FACTOR=1.0000E+00

\* RUN # 836 APR 15, 1997 09:51:03  
START



0415-01  
NMMA-16-1  
18-Pr Dull  
42% Styrene resin  
Flow cont

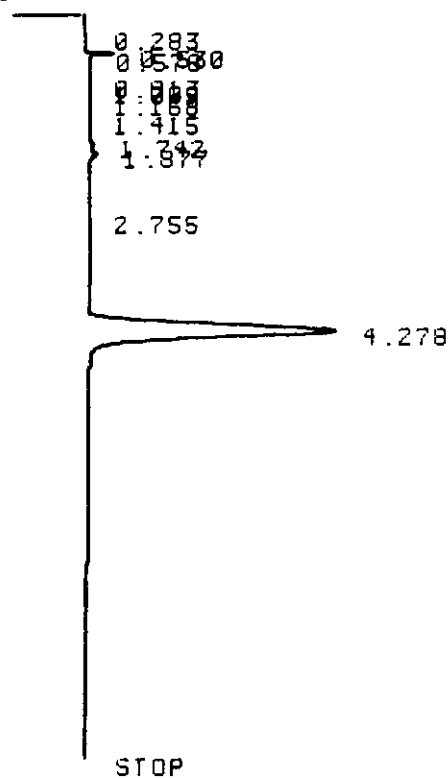
## ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.912 | 68738   | UU   | 1    | 2.887  |
| 4.312 | 1283739 | PB   | 2    | 12.709 |

TOTAL AREA=1562552

MUL FACTOR=1.0000E+00

\* RUN # 837 APR 15, 1997 09:57:40  
START



RUN# 837 APR 15, 1997 09:57:40

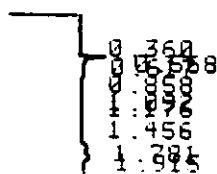
## ESTD-AREA

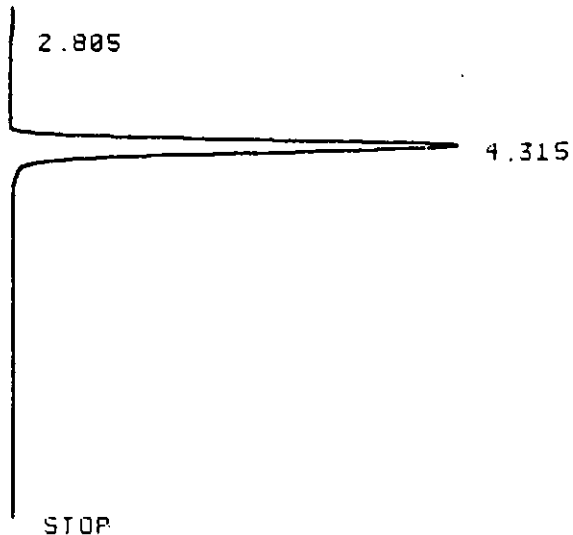
| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.877 | 52842   | UB   | 1    | 2.219  |
| 4.278 | 2849688 | BB   | 2    | 28.212 |

TOTAL AREA=3106267

MUL FACTOR=1.0000E+00

\* RUN # 838 APR 15, 1997 10:08:18  
START





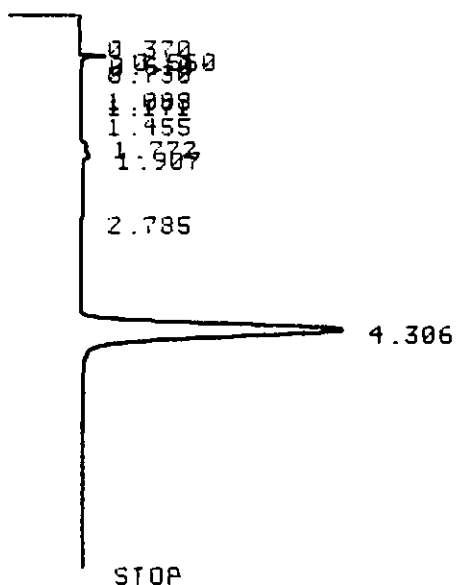
RUN# 838 APR 15, 1997 10:08:18

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.915 | 68761   | UU   | 1    | 2.888  |
| 4.315 | 5175338 | PB   | 2    | 51.236 |

TOTAL AREA=5510320  
NUL FACTOR=1.0000E+00

\* RUN # 839 APR 15, 1997 10:18:19  
START



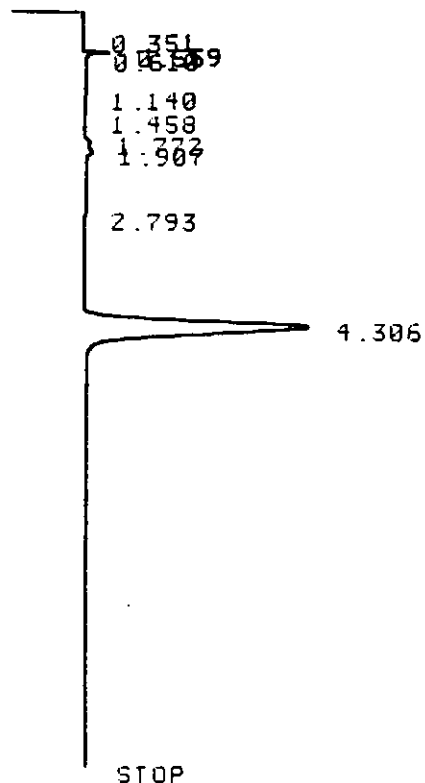
RUN# 839 APR 15, 1997 10:18:19

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.907 | 68402   | UU   | 1    | 2.876  |
| 4.306 | 3053062 | BB   | 2    | 30.225 |



\* RUN # 840      APR 15, 1997 10:26:10  
START



RUN# 840      APR 15, 1997 10:26:10

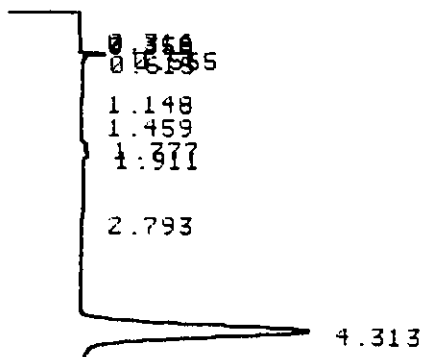
## ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.907 | 73113   | UU   | 1    | 3.071  |
| 4.306 | 2581154 | PB   | 2    | 25.553 |

TOTAL AREA=2869010

MUL FACTOR=1.0000E+00

\* RUN # 841      APR 15, 1997 10:36:45  
START



STOP

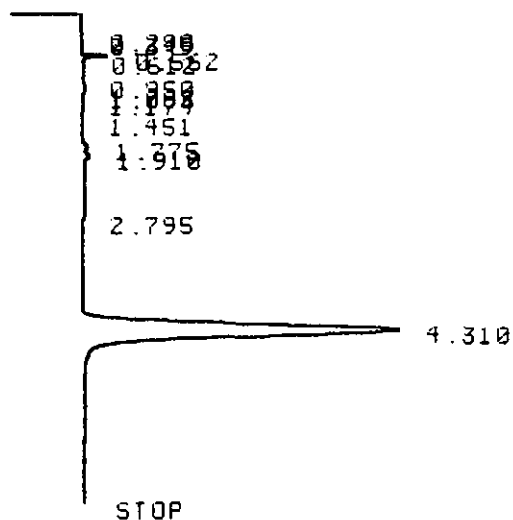
RUN# 841 APR 15, 1997 10:36:45

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.911 | 69230   | UU   | 1    | 2.908  |
| 4.313 | 2614952 | PB   | 2    | 25.888 |

TOTAL AREA=2927726  
MUL FACTOR=1.0000E+00

\* RUN # 842 APR 15, 1997 10:44:37  
START



STOP

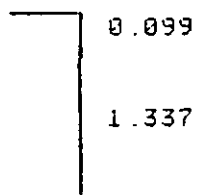
RUN# 842 APR 15, 1997 10:44:37

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.910 | 39659   | UU   | 1    | 1.666  |
| 4.310 | 3672360 | PB   | 2    | 36.356 |

TOTAL AREA=3861411  
MUL FACTOR=1.0000E+00

\* RUN # 843 APR 15, 1997 10:51:46  
START



1.337

STOP

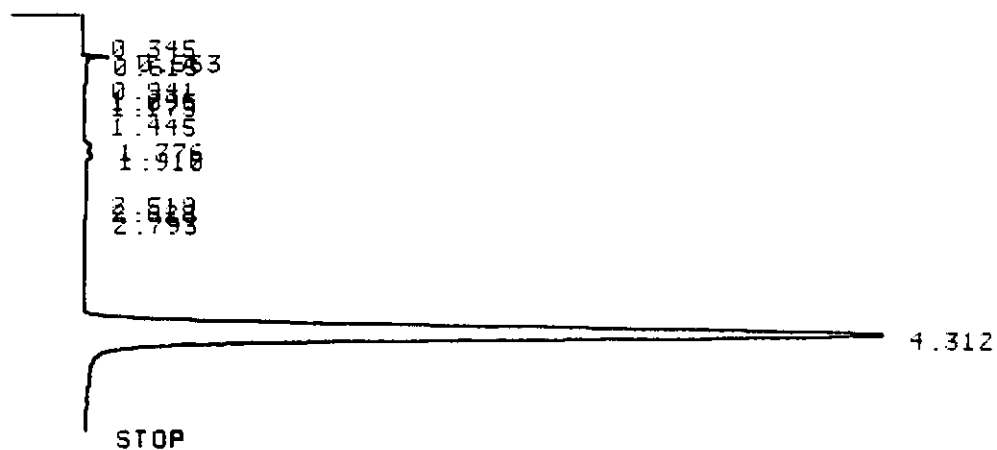
RUN# 843 APR 15, 1997 10:51:46

NO CALIB PEAKS FOUND  
AREA%

| RT    | AREA | TYPE | WIDTH | AREA%    |
|-------|------|------|-------|----------|
| .099  | 309  | BU   | .029  | 26.84627 |
| 1.337 | 842  | BP   | .058  | 73.15379 |

TOTAL AREA= 1151  
MUL FACTOR=1.0000E+00

\* RUN # 844 APR 15, 1997 11:00:52  
START



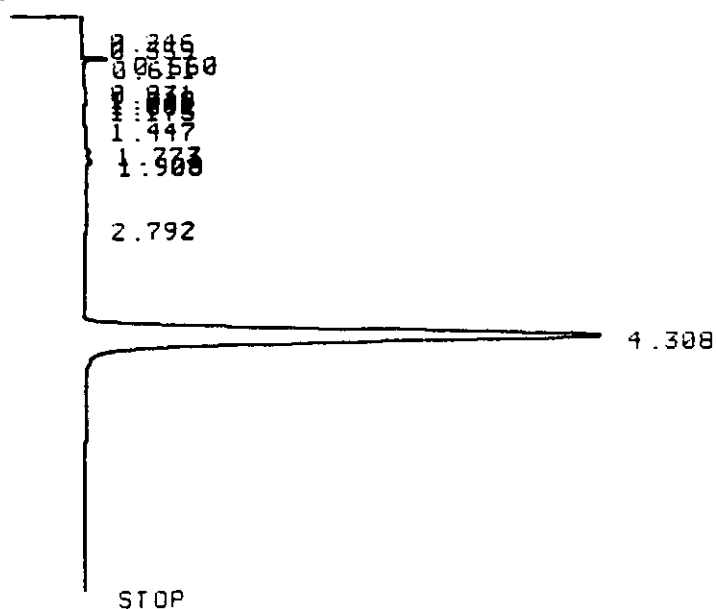
RUN# 844 APR 15, 1997 11:00:52

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.910 | 71931   | UU   | 1    | 3.021  |
| 4.312 | 9195738 | PQ   | 2    | 91.038 |

TOTAL AREA=9.5736E+06  
MUL FACTOR=1.0000E+00

• RUN # 845 APR 15, 1997 11:06:56  
START



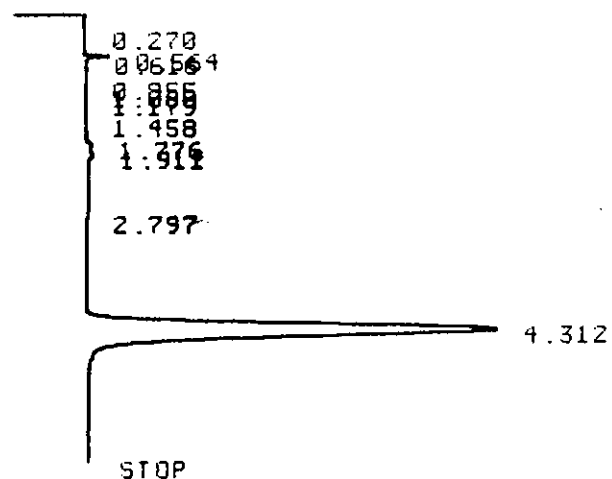
RUN# 845 APR 15, 1997 11:06:56

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.908 | 66089   | UU   | 1    | 2.776  |
| 4.308 | 5991587 | 88   | 2    | 59.317 |

TOTAL AREA=6360678  
MUL FACTOR=1.0000E+00

\* RUN # 846 APR 15, 1997 11:15:05  
START



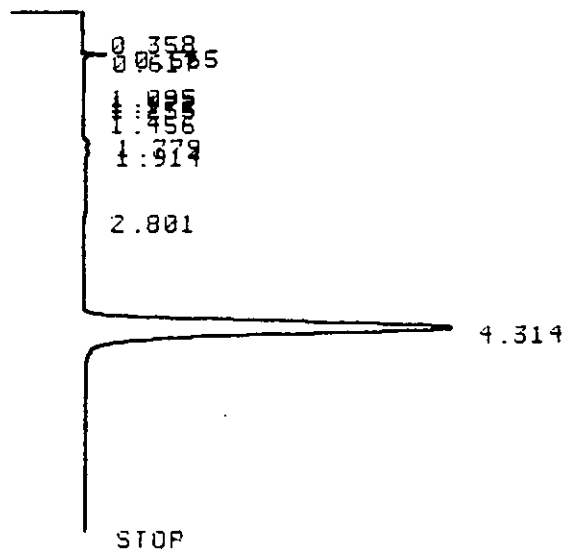
RUN# 846 APR 15, 1997 11:15:05

ESTD-AREA

| RT    | AREA  | TYPE | CAL# | AMOUNT |
|-------|-------|------|------|--------|
| 1.911 | 47126 | UU   | 1    | 1.979  |

TOTAL AREA=4988867  
MUL FACTOR=1.0000E+00

\* RUN # 847 APR 15, 1997 11:22:09  
START

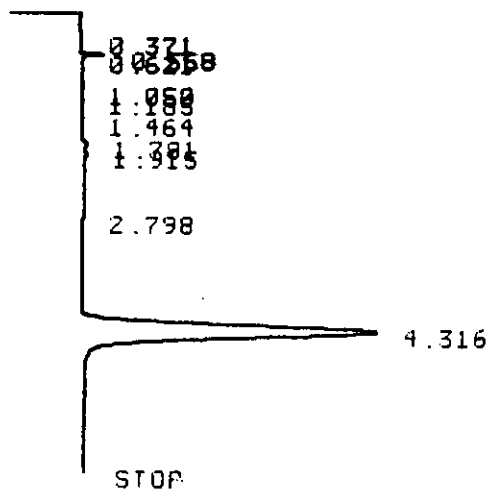


RUN# 847 APR 15, 1997 11:22:09

| ESTD-AREA | RT    | AREA TYPE  | CAL# | AMOUNT |
|-----------|-------|------------|------|--------|
|           | 1.914 | 73139 UU   | 1    | 3.072  |
|           | 4.314 | 4231245 PB | 2    | 41.889 |

TOTAL AREA=4569782  
MUL FACTOR=1.0000E+00

\* RUN # 848 APR 15, 1997 11:29:38  
START



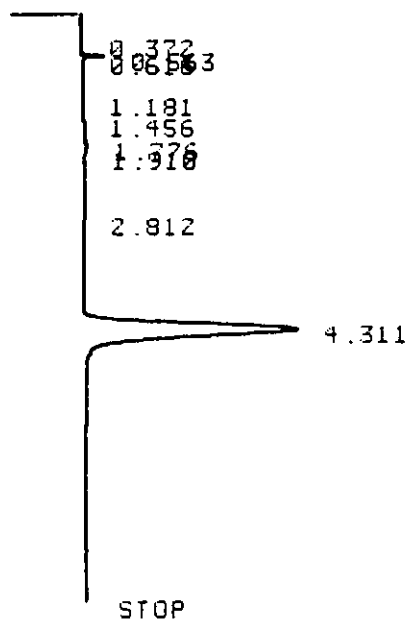
RUN# 849 APR 15, 1997 11:29:38

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.915 | 43032   | UU   | 1    | 1.807  |
| 4.316 | 3369664 | PB   | 2    | 33.360 |

TOTAL AREA=3622307  
MUL FACTOR=1.0000E+00

\* RUN # 849 APR 15, 1997 11:38:55  
START



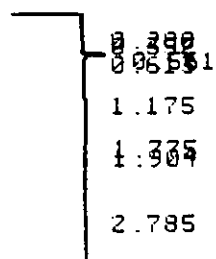
RUN# 849 APR 15, 1997 11:38:55

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.910 | 45745   | UU   | 1    | 1.921  |
| 4.311 | 2470118 | PB   | 2    | 24.454 |

TOTAL AREA=2729397  
MUL FACTOR=1.0000E+00

\* RUN # 850 APR 15, 1997 11:49:19  
START



4.308  
STOP

RUN# 850 APR 15, 1997 11:49:19

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.904 | 38106   | UU   | 1    | 1.600  |
| 4.308 | 1381485 | PB   | 2    | 13.677 |

TOTAL AREA=1579697  
MUL FACTOR=1.0000E+00

\* RUN # 851 APR 15, 1997 11:55:50  
START

0.288  
0.06586  
0.785  
  
1.858  
  
2.790  
  
4.294  
  
STOP

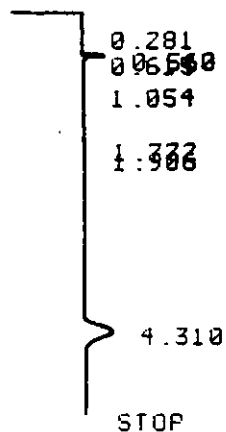
RUN# 851 APR 15, 1997 11:55:50

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.890 | 36422  | UU   | 1    | 1.530  |
| 4.294 | 869409 | PB   | 2    | 8.607  |

TOTAL AREA=1072834  
MUL FACTOR=1.0000E+00

\* RUN # 852      APR 15, 1997 12:06:56  
START

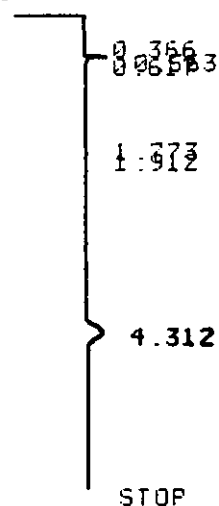


RUN# 852      APR 15, 1997 12:06:56

| ESTD-AREA |        |      |      |        |
|-----------|--------|------|------|--------|
| RT        | AREA   | TYPE | CAL# | AMOUNT |
| 1.906     | 9590   | UU   | 1    | .403   |
| 4.310     | 338074 | QU   | 2    | 3.355  |

TOTAL AREA= 436204  
MUL FACTOR=1.0000E+00

\* RUN # 853      APR 15, 1997 12:13:10  
START



RUN# 853      APR 15, 1997 12:13:10

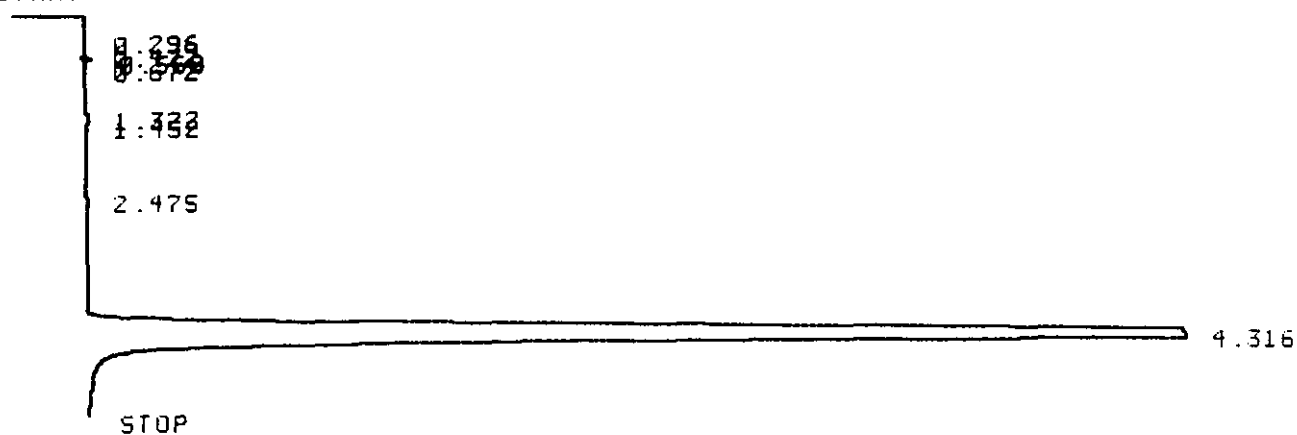
| ESTD-AREA |        |      |      |        |
|-----------|--------|------|------|--------|
| RT        | AREA   | TYPE | CAL# | AMOUNT |
| 1.912     | 9804   | UP   | 1    | .412   |
| 4.312     | 211325 | PV   | 2    | 2.092  |

TOTAL AREA= 340382



\* RUN # 854 APR 15, 1997 12:30:09

START



RUN# 854 APR 15, 1997 12:30:09

ESTD-AREA

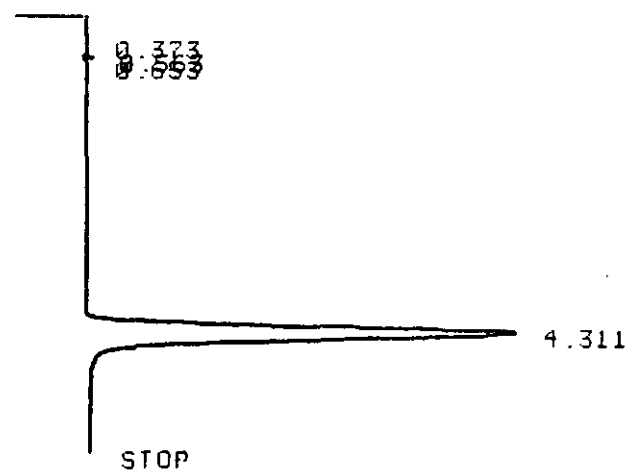
| RT    | AREA     | TYPE | CAL# | AMOUNT  |
|-------|----------|------|------|---------|
| 4.316 | 17244432 | PB   | 2    | 170.720 |

TOTAL AREA=1.7335E+07

MUL FACTOR=1.0000E+00

\* RUN # 855 APR 15, 1997 12:38:31

START



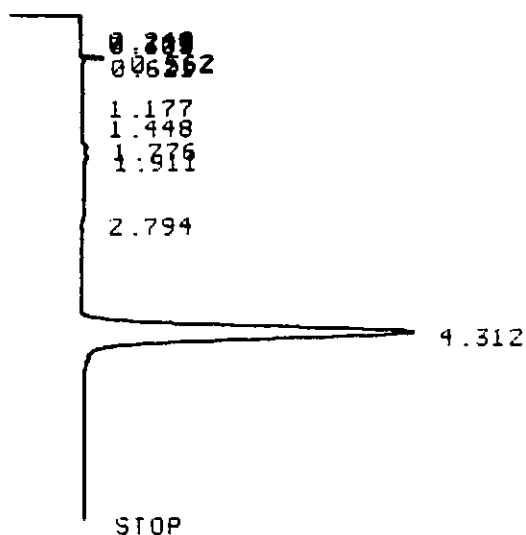
RUN# 855 APR 15, 1997 12:38:31

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.311 | 4923500 | PB   | 2    | 48.743 |

TOTAL AREA=5032026

\* RUN # 856 APR 15, 1997 14:07:22  
START



0415-02  
NMMA-15-1  
18-ft Hull 42% Styrene  
FC

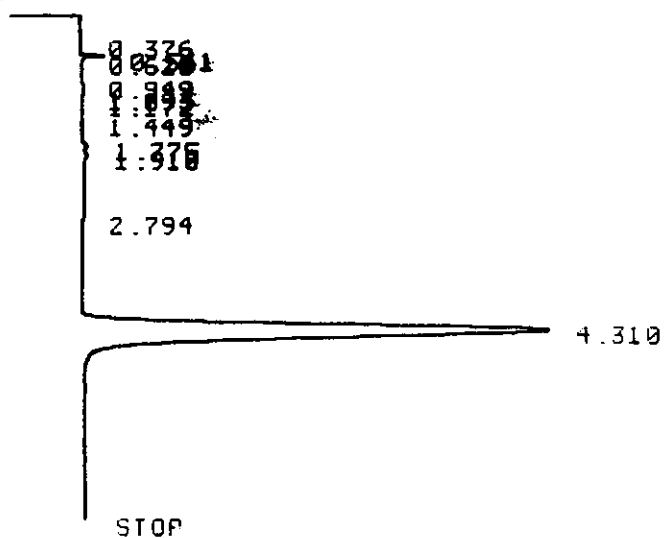
RUN# 856 APR 15, 1997 14:07:22

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.911 | 27240   | UU   | 1    | 1.144  |
| 4.312 | 3832637 | PB   | 2    | 37.943 |

TOTAL AREA=3973808  
MUL FACTOR=1.0000E+00

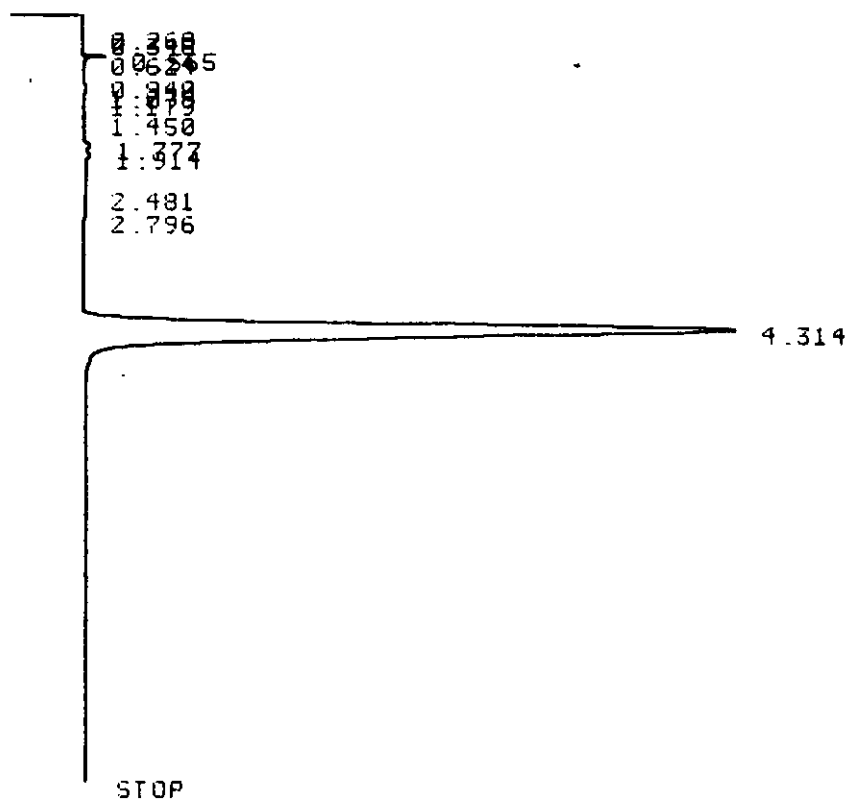
\* RUN # 857 APR 15, 1997 14:14:29  
START



| ESTD-AREA |         |      |      |        |
|-----------|---------|------|------|--------|
| RT        | AREA    | TYPE | CAL# | AMOUNT |
| 1.910     | 39424   | UU   | 1    | 1.650  |
| 4.310     | 5384074 | PB   | 2    | 53.310 |

TOTAL AREA=5662186  
MUL FACTOR=1.0000E+00

\* RUN # 853      APR 15, 1997 14:21:43  
START

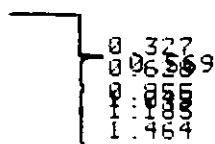


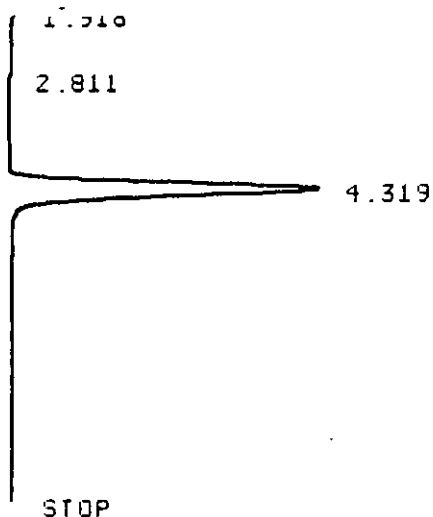
RUN# 858      APR 15, 1997 14:21:43

| ESTD-AREA |         |      |      |        |
|-----------|---------|------|------|--------|
| RT        | AREA    | TYPE | CAL# | AMOUNT |
| 1.914     | 44212   | UU   | 1    | 1.857  |
| 4.314     | 7477741 | PB   | 2    | 74.030 |

TOTAL AREA=7726906  
MUL FACTOR=1.0000E+00

\* RUN # 859      APR 15, 1997 14:32:53  
START





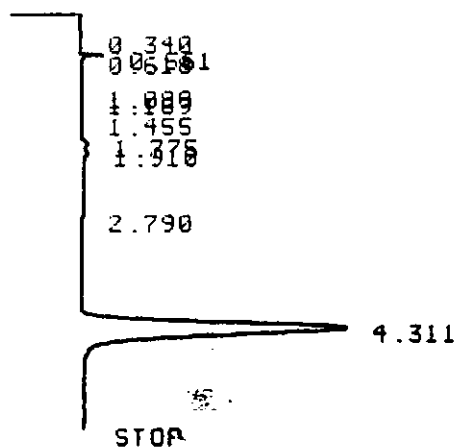
RUN# 859 APR 15, 1997 14:32:33

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.918 | 56895   | UU   | 1    | 2.390  |
| 4.319 | 3587285 | PB   | 2    | 35.514 |

TOTAL AREA=3842370  
MUL FACTOR=1.0000E+00

\* RUN # 860 APR 15, 1997 14:42:07  
START



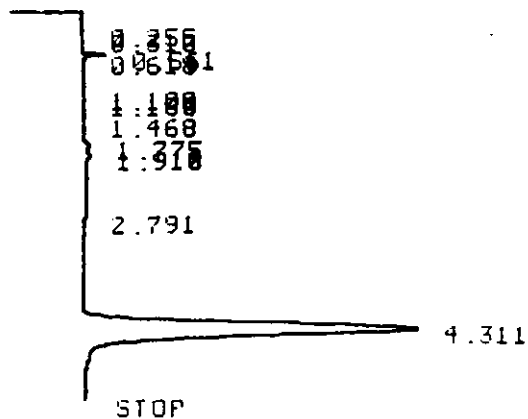
RUN# 860 APR 15, 1997 14:42:07

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.910 | 44429   | UU   | 1    | 1.866  |
| 4.311 | 3067045 | BB   | 2    | 30.364 |

TOTAL AREA=3271779  
MUL FACTOR=1.0000E+00

\* RUN # 861 APR 15, 1997 14:54:55  
START



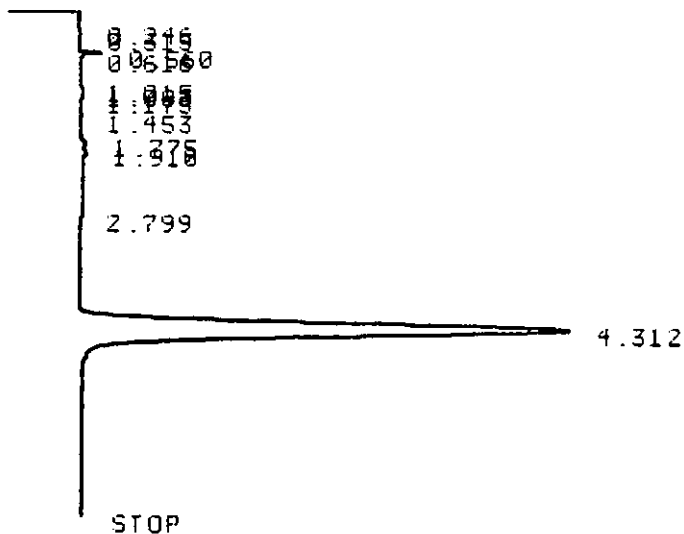
RUN# 861 APR 15, 1997 14:54:55

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.910 | 45542   | UU   | 1    | 1.913  |
| 4.311 | 3819214 | PB   | 2    | 37.810 |

TOTAL AREA=4062286  
MUL FACTOR=1.0000E+00

\* RUN # 862 APR 15, 1997 15:00:37  
START



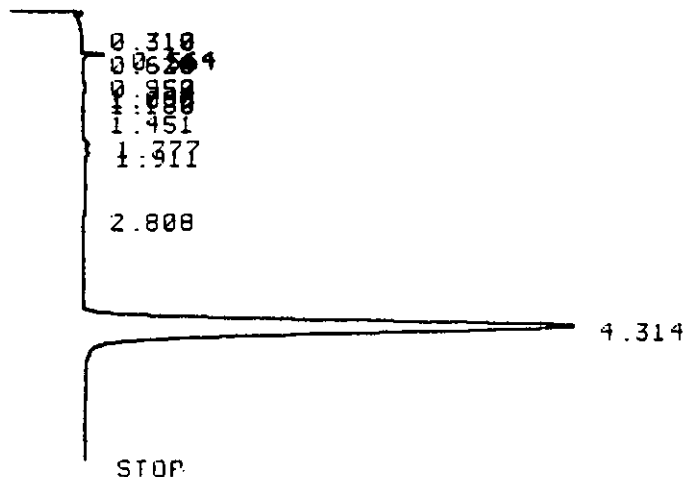
RUN# 862 APR 15, 1997 15:00:37

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.910 | 56545   | UU   | 1    | 2.375  |
| 4.312 | 5637917 | PB   | 2    | 55.815 |

TOTAL AREA=5945258  
MUL FACTOR=1.0000E+00

\* RUN # 863      APR 15, 1997 15:07:51  
START



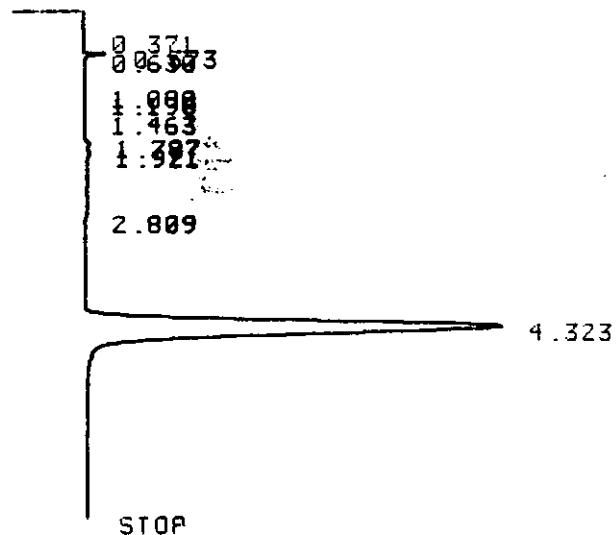
RUN# 863      APR 15, 1997 15:07:51

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.911 | 114701  | UU   | 1    | 4.817  |
| 4.314 | 5660490 | BD   | 2    | 56.039 |

TOTAL AREA=6439002  
MUL FACTOR=1.0000E+00

\* RUN # 864      APR 15, 1997 15:15:18  
START

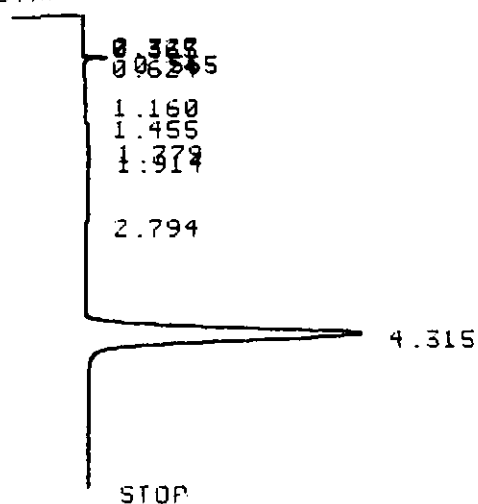


RUN# 864      APR 15, 1997 15:15:18

| RT    | AREA    | TYPE | CAL # | AMOUNT |
|-------|---------|------|-------|--------|
| 1.921 | 47304   | UU   | 1     | 1.987  |
| 4.323 | 4797546 | PB   | 2     | 47.496 |

TOTAL AREA=5062990  
MUL FACTOR=1.0000E+00

\* RUN # 865 APR 15, 1997 15:22:54  
START



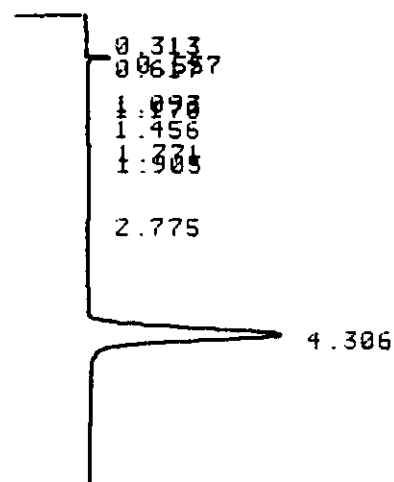
RUN# 865 APR 15, 1997 15:22:54

ESTD-AREA

| RT    | AREA    | TYPE | CAL # | AMOUNT |
|-------|---------|------|-------|--------|
| 1.914 | 45320   | UU   | 1     | 1.904  |
| 4.315 | 3159824 | PB   | 2     | 31.282 |

TOTAL AREA=3428142  
MUL FACTOR=1.0000E+00

\* RUN # 866 APR 15, 1997 15:30:26  
START



STOP

RUN# 866 APR 15, 1997 15:30:26

ESTD-AREA

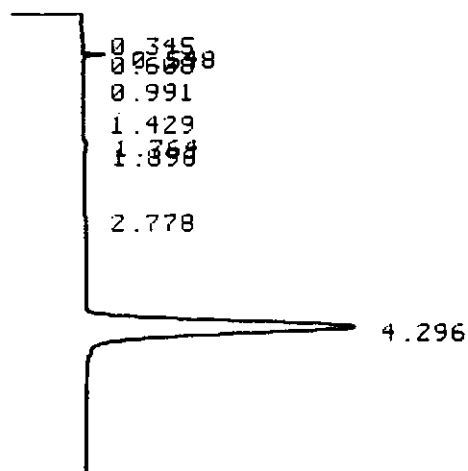
| RT    | AREA     | TYPE | CAL# | AMOUNT |
|-------|----------|------|------|--------|
| 1.905 | 14041    | UP   | 1    | .623   |
| 4.306 | 221.2590 | PO   | 2    | 21.905 |

TOTAL AREA=2352058

MUL FACTOR=1.0000E+00

\* RUN # 867 APR 15, 1997 15:42:53

START



STOP

RUN# 867 APR 15, 1997 15:42:53

ESTD-AREA

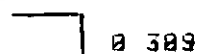
| RT    | AREA     | TYPE | CAL# | AMOUNT |
|-------|----------|------|------|--------|
| 1.896 | 9723     | UP   | 1    | .408   |
| 4.296 | 3121.314 | PO   | 2    | 30.901 |

TOTAL AREA=3247326

MUL FACTOR=1.0000E+00

\* RUN # 868 APR 15, 1997 15:40:26

START





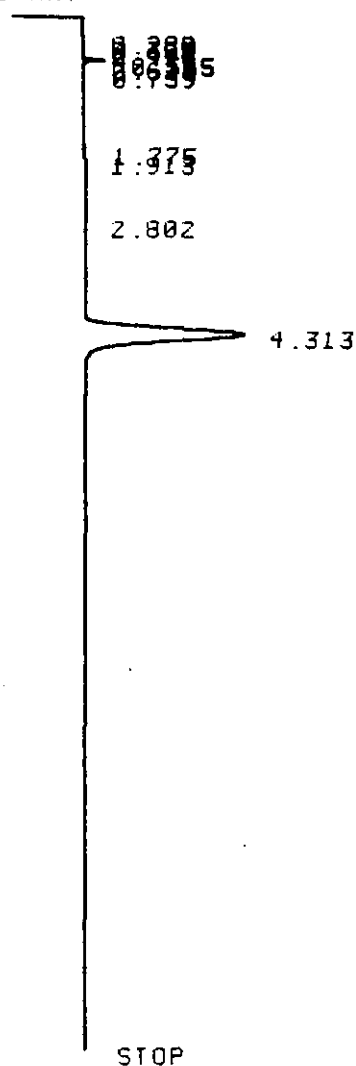
STOP

TOTAL AREA=6034530  
MUL FACTOR=1.0000E+00

STOP

TOTAL AREA=3631166  
MUL FACTOR=1.0000E+00

\* RUN # 870 APR 15, 1997 16:13:29  
START



RUN# 870 APR 15, 1997 16:13:29

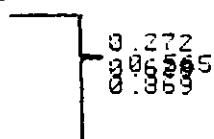
ESTO-AREA

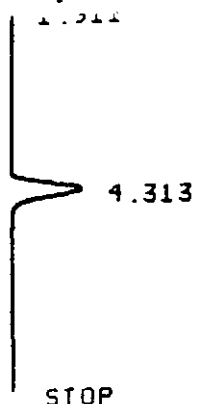
| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.913 | 12941   | UU   | 1    | .544   |
| 4.313 | 1858754 | PB   | 2    | 18.402 |

TOTAL AREA=2038832

MUL FACTOR=1.0000E+00

\* RUN # 871 APR 15, 1997 16:28:07  
START



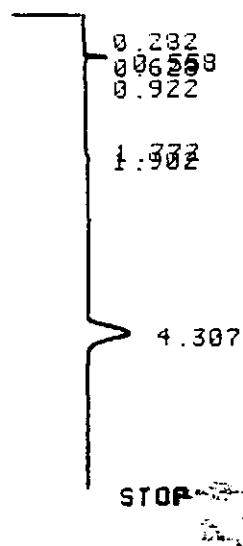


RUN# 871 APR 15, 1997 16:28:07

| ESTD-AREA |        |      |      |        |
|-----------|--------|------|------|--------|
| RT        | AREA   | TYPE | CAL# | AMOUNT |
| 1.911     | 9802   | UU   | 1    | .412   |
| 4.313     | 826363 | PB   | 2    | 8.181  |

TOTAL AREA= 910272  
MUL FACTOR=1.0000E+00

\* RUN # 872 APR 15, 1997 16:35:42  
START



RUN# 872 APR 15, 1997 16:35:42

| ESTD-AREA |        |      |      |        |
|-----------|--------|------|------|--------|
| RT        | AREA   | TYPE | CAL# | AMOUNT |
| 1.902     | 25420  | UU   | 1    | 1.068  |
| 4.307     | 400927 | PB   | 2    | 4.949  |

TOTAL AREA= 663245  
MUL FACTOR=1.0000E+00

• RUN # 873 APR 15, 1997 16:42:50  
START

```

      0.365
      0.06500
      1.348
      1.308
      4.309
      STOP
  
```

RUN# 873 APR 15, 1997 16:42:56

| ESTD-AREA | RT    | AREA TYPE | CAL# | AMOUNT |
|-----------|-------|-----------|------|--------|
|           | 1.980 | 13162 UU  | 1    | .553   |
|           | 4.309 | 311104 DU | 2    | 3.080  |

TOTAL AREA= 472865  
MUL FACTOR=1.0000E+00

\* RUN # 874 APR 15, 1997 16:49:11  
START

```

      0.063
      0.06300
      0.048
      1.375
      4.310
      STOP
  
```

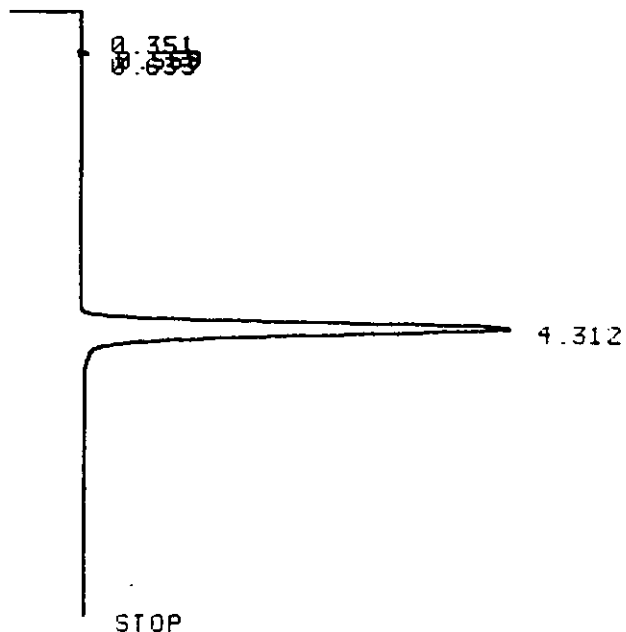
RUN# 874 APR 15, 1997 16:49:11

| ESTD-AREA | RT    | AREA TYPE | CAL# | AMOUNT |
|-----------|-------|-----------|------|--------|
|           | 1.910 | 6725 UU   | 1    | .282   |
|           | 4.310 | 234774 BU | 2    | 2.324  |

ESTD AREA= 71227

MUL FACTOR=1.0000E+00

• RUN # 875 APR 15, 1997 16:50:20  
START



RUN# 875 APR 15, 1997 16:50:20

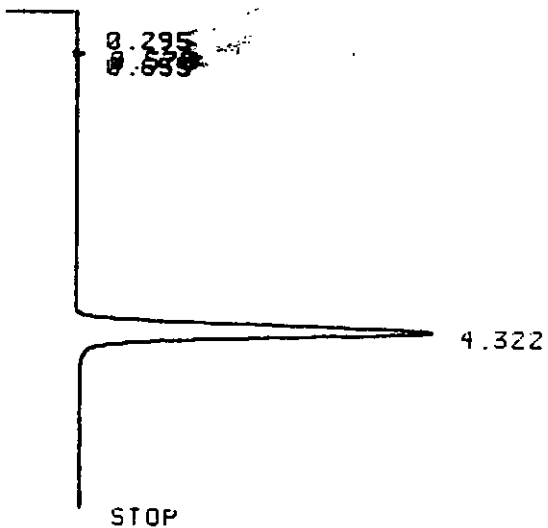
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.312 | 4028013 | PB   | 2    | 48.787 |

TOTAL AREA=5015010

MUL FACTOR=1.0000E+00

\* RUN # 876 APR 15, 1997 17:07:40  
START



RUN# 876 APR 15, 1997 17:07:40

ESTD-AREA

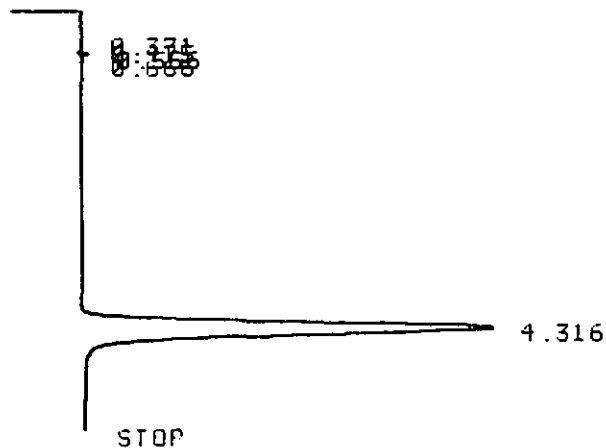
| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.322 | 4053978 | PB   | 2    | 40.134 |

TOTAL AREA=4163018

MUL FACTOR=1.0000E+00

\* RUN # 877 APR 15, 1997 17:16:05

START



RUN# 877 APR 15, 1997 17:16:05

ESTD-AREA

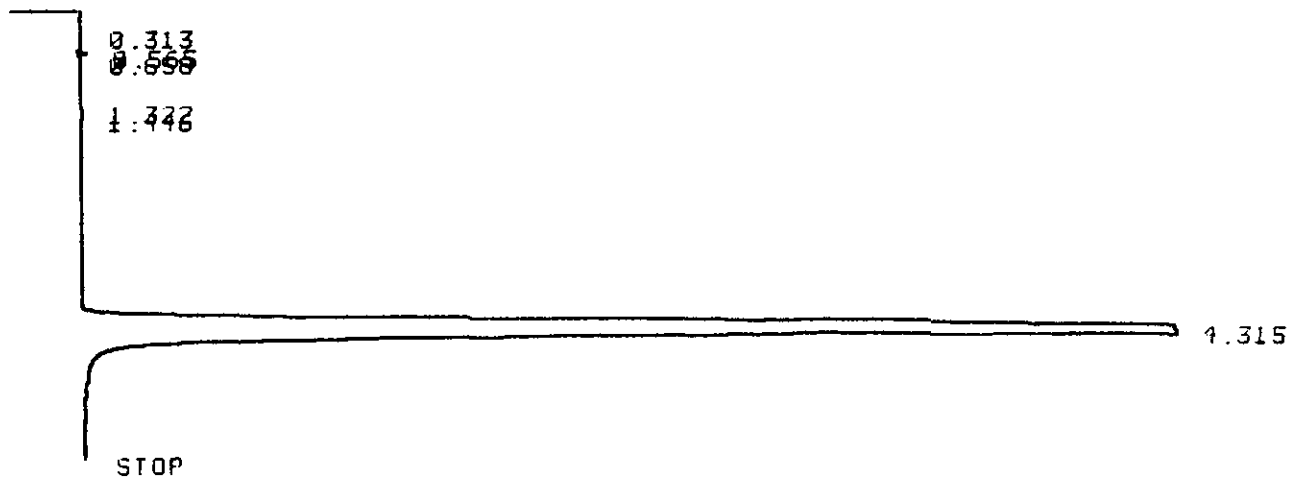
| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.316 | 4739306 | PB   | 2    | 46.920 |

TOTAL AREA=4873470

MUL FACTOR=1.0000E+00

• RUN # 878 APR 15, 1997 17:23:53

START



RUNK 878

APR 15, 1997 17:23:53

ESTD-AREA

| RT    | AREA TYPE | CALC | AMOUNT  |
|-------|-----------|------|---------|
| 4.315 | 17330048  | P8 2 | 171.567 |

TOTAL AREA=1.7405E+07

MUL FACTOR=1.0000E+00

\*

4/15 cont

Post-1 out 297 in 0 mislabeled, should be out 600

Did Flow audit performed pre-02, pre/post measurements made  
program crash, went out into program + it ran.

Q = 3220 during audit

0415-02: NMMA-15-1 @ 18' Hall 42% FC

Inlet @ 1400

Resin = ~~385.98~~ 386.68

Spray @ 1402 - Skin coat

Shimmed @ 1416

Lamination in 1452 done 1548

237.11 - Final resin Net = 149.55

Inlet ~~not~~ THC pegged @ zero 1602-1609, edit later

Flow - DAS = 0.23  $\pm$  2.21 @ 16:17

H8 .20 J8 .17

T<sub>5</sub> = 67

7 .23 1 .20

RH = 51% @ 54°

6 .23 6 .20

P<sub>b</sub> = 29.99

5 .22 5 .20

Q = 7159

4 .21 4 .22

#Resin = 149.55 = 62.81 #resin styrene

3 .21 3 .22

Q =

2 .21 2 .20

THC

1 .18 1 .18

Performed balance  $\checkmark$  post 03

- Resin Tank

- Resin Tank + 100

- Resin Tank + 150

Resin Tank + 200



4/15

THC doing its 9.1V  $\rightarrow$  8.9V thing. Cal @ 9.1, record @ 8.9 - get better data @ mid range that way.

- Styrene audit = Audit @ outlet probe

Audit RF

- Out 59.2 = 59.2 styrene @ outlet probe.

Bias

- Out 59.2 direct = 59.2 sty @ analyzer (small bp change)

RH = 45% @ 46°

P<sub>b</sub> = 30.06

Audit 4 is bogus prop & needs to be deleted - Actually is not audit gas & bag is near empty, was empty prior to more than a quick look, which was ~~unreliable~~ inaccurate due to low back press.

0415-01 on line @ 0938 NMMA-16-1 18' deck 42% R FC

Initial resin = ~~379.48~~ <sup>380.39</sup>

Back pressure corrected prior to skin spray (0943)

- Change due to run out 59.2 direct

Skin in @ 0949 ~~done @ 0954~~

Skin done @ 1003

Cam in @ 1042 ~~done~~ 1102

Resin final = 251.97

Probe had been pushed in to point

Flow: P<sub>b</sub> = 30.06

H8 .20

V8 .18

THC = 117.78

RH = 45% @ 46°

7 .25

7 .21

$\Theta = 159'' = 26.91''$  styrene  
= 12.8% AS

OAS  $P_s = -2.45$

6 .26

6 .21

$\Delta P = 0.24$

5 .25

5 .23

Start @ 1110

4 .23

4 .23.24

Done @ 1113

3 .22

3 .23

T<sub>o</sub> = 67

2 .21

2 .23

Q = 3.287

1 .20

1 .19

#Resin = 128.42  $\rightarrow$  53.54 # Styrene

Flows down slightly post traverse, ~3,074 ACFM based in cfm

### CALIBRATION SUMMARY

04-15-1997 07:11:49

CALIBRATION FILE NAME = C:\CENDATA\0415a.CAL

Page Number 1

| Chan. | Name  | Units | Zero        | Soan        | Slope | Int.  |        |           |
|-------|-------|-------|-------------|-------------|-------|-------|--------|-----------|
|       |       |       | Conc. Resp. | Conc. Reso. |       |       |        |           |
| 1     | THC o | oom   | 0           | .0013       | 914   | 9.166 | 99.73  | -.1287    |
| 2     | THC i | oom   | 0           | .0058       | 45.5  | 9.23  | 4.93   | -.0285    |
| 3     | Flow  | inH2O | 0           | 2.9683      | 1.7   | 3.773 | 2.09   | -6.2005   |
| 4     | Temp  | F     | 32          | 1.9813      | 212   | 3.29  | 137.51 | -240.4591 |
| 5     | Resin | lb    | 0           | 1.4644      | 600   | 4.291 | 212.27 | -310.8426 |
| 6     | Ps    | inH2O | 0           | .7078       | -1.7  | 1.133 | -3.96  | 2.7997    |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-15-1997 Current Time = 07:14:43

File Name = C:\CEMDATA\041597.PRN Calibration File: C:\CEMDATA\0415a.CAL

Test #: Pre out 914 in 45.5

| 04-15-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 07:14:44           | 884.29       | 45.60        | 0.15          | 75.42     | 1809.99     | -0.33       |
| 07:14:45           | 884.29       | 45.60        | 0.15          | 75.42     | 1809.99     | -0.33       |
| 07:14:48           | 883.67       | 45.59        | 0.15          | 74.52     | 1810.09     | -0.30       |
| 07:14:58           | 882.08       | 45.68        | 0.15          | 75.05     | 1810.01     | -0.32       |
| 07:15:08           | 882.44       | 45.68        | 0.16          | 75.41     | 1809.98     | -0.32       |
| 07:15:18           | 882.48       | 45.68        | 0.15          | 75.33     | 1809.98     | -0.33       |
| 07:15:28           | 882.91       | 45.66        | 0.16          | 75.44     | 1809.95     | -0.32       |
| 07:15:38           | 882.79       | 45.70        | 0.16          | 76.39     | 1809.89     | -0.35       |
| 07:15:48           | 882.77       | 45.67        | 0.16          | 75.68     | 1809.94     | -0.34       |
| 07:15:58           | 881.93       | 45.69        | 0.15          | 75.21     | 1810.04     | -0.32       |
| Avg =              | 882.97       | 45.66        | 0.15          | 75.39     | 1809.99     | -0.33       |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, MA

Performed for: NMMA

Date Printed = 04-15-1997 Current Time = 07:20:05

File Name = C:\CEM DATA\041597.PRN Calibration File: C:\CEM DATA\0415a.CAL

Test #: Pre out 0 in 30.4

| 04-15-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 07:20:06           | -0.03        | 30.97        | 0.02          | 64.27     | 698.66      | 0.01        |
| 07:20:08           | -0.03        | 30.97        | 0.02          | 64.27     | 698.66      | 0.01        |
| 07:20:18           | -0.11        | 31.07        | 0.02          | 64.10     | 643.61      | 0.01        |
| 07:20:28           | -0.14        | 31.08        | 0.02          | 64.18     | 717.40      | 0.01        |
| 07:20:38           | -0.10        | 31.08        | 0.02          | 64.16     | 717.59      | 0.01        |
| 07:20:48           | -0.10        | 31.06        | 0.02          | 64.16     | 713.38      | 0.01        |
| 07:20:58           | -0.09        | 31.07        | 0.02          | 64.06     | 714.11      | 0.01        |
| 07:21:08           | -0.10        | 31.07        | 0.02          | 64.16     | 717.44      | 0.01        |
| 07:21:18           | -0.09        | 31.07        | 0.02          | 64.14     | 717.44      | 0.01        |
| 07:21:28           | -0.08        | 31.11        | 0.02          | 64.15     | 717.84      | 0.01        |
| 07:21:38           | -0.05        | 31.11        | 0.02          | 64.15     | 713.59      | 0.01        |
| Avg =              | -0.08        | 31.06        | 0.02          | 64.16     | 706.34      | 0.01        |

RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-15-1997 Current Time = 07:24:42  
 File Name = C:\CEMDATA\041597.PRN Calibration File: C:\CEMDATA\0415a.CAL

Test #: Pre out 297 in 15.0

| 04-15-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 07:24:44           | 294.86       | 15.48        | 0.02          | 63.98     | 704.34      | 0.01        |
| 07:24:46           | 294.86       | 15.48        | 0.02          | 63.98     | 704.34      | 0.01        |
| 07:24:48           | 295.11       | 15.44        | 0.02          | 63.96     | -110.52     | 0.01        |
| 07:24:58           | 294.82       | 15.44        | 0.02          | 64.11     | 637.61      | 0.01        |
| 07:25:08           | 294.09       | 15.37        | 0.02          | 64.10     | 709.65      | 0.01        |
| 07:25:18           | 293.85       | 15.29        | 0.02          | 64.15     | 710.64      | 0.01        |
| 07:25:28           | 294.85       | 15.29        | 0.02          | 64.41     | 711.50      | 0.01        |
| 07:25:38           | 294.83       | 15.30        | 0.02          | 64.25     | 707.29      | 0.01        |
| 07:25:48           | 293.80       | 15.29        | 0.02          | 64.18     | 711.99      | 0.01        |
| 07:25:58           | 294.08       | 15.29        | 0.02          | 64.18     | 711.43      | 0.01        |
| Avg =              | 294.52       | 15.37        | 0.02          | 64.13     | 619.83      | 0.01        |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-15-1997 Current Time = 07:29:04

File Name = C:\CEM DATA\041597.PRN Calibration File: C:\CEM DATA\0415a.CAL

Test #: Pre out 600 in 0

| 04-15-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 07:29:07           | 598.28       | -0.02        | 0.02          | 63.72     | -969.28     | 0.01        |
| 07:29:08           | 598.28       | -0.02        | 0.02          | 63.72     | -969.28     | 0.01        |
| 07:29:18           | 598.96       | -0.03        | 0.02          | 63.72     | -950.31     | 0.01        |
| 07:29:28           | 599.86       | -0.02        | 0.02          | 63.65     | -922.45     | 0.01        |
| 07:29:38           | 598.93       | -0.02        | 0.02          | 63.71     | -922.50     | 0.01        |
| 07:29:48           | 599.14       | -0.02        | 0.02          | 63.91     | -918.71     | 0.01        |
| 07:29:58           | 601.95       | -0.03        | 0.02          | 63.89     | -922.42     | 0.01        |
| 07:30:08           | 600.79       | -0.03        | 0.02          | 63.90     | -920.76     | 0.01        |
| Avg =              | 599.52       | -0.02        | 0.02          | 63.78     | -936.97     | 0.01        |

## RADIANT CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-15-1997 Current Time = 07:49:51

File Name = C:\CEM DATA\041597.PRN Calibration File: C:\CEM DATA\0415a.CAL

Test #: Styrene audit 3

| 04-15-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 07:49:55           | 79.85        | 2.76         | 0.02          | 65.07     | %-1141.42   | 0.01        |
| 07:49:58           | 80.24        | 2.96         | 0.02          | 65.04     | %-1288.10   | 0.01        |
| 07:50:08           | 80.37        | 2.95         | 0.02          | 65.11     | %-1116.94   | 0.01        |
| 07:50:18           | 80.38        | 2.94         | 0.02          | 65.13     | %-1111.96   | 0.01        |
| 07:50:28           | 81.31        | 2.89         | 0.02          | 65.22     | %-1114.63   | 0.01        |
| 07:50:38           | 81.41        | 2.96         | 0.02          | 65.17     | %-1112.70   | 0.01        |
| 07:50:48           | 81.42        | 3.18         | 0.02          | 65.27     | %-1112.25   | 0.01        |
| 07:50:58           | 81.39        | 3.37         | 0.02          | 65.34     | %-1112.96   | 0.01        |
| 07:51:08           | 81.54        | 3.44         | 0.02          | 65.66     | %-1113.57   | 0.01        |
| 07:51:18           | 82.42        | 3.48         | 0.02          | 65.65     | %-1113.04   | 0.01        |
| 07:51:28           | 82.42        | 3.27         | 0.02          | 65.61     | %-1112.59   | 0.01        |
| 07:51:38           | 82.42        | 3.25         | 0.02          | 65.54     | %-1112.48   | 0.01        |
| 07:51:48           | 82.41        | 3.25         | 0.02          | 65.44     | %-1112.56   | 0.01        |
| 07:51:58           | 82.41        | 3.21         | 0.02          | 65.35     | %-1112.43   | 0.01        |
| 07:52:08           | 82.42        | 3.23         | 0.02          | 65.27     | %-1112.50   | 0.01        |
| 07:52:18           | 82.42        | 3.13         | 0.02          | 65.23     | %-1112.50   | 0.01        |
| 07:52:28           | 82.59        | 3.13         | 0.02          | 65.23     | %-1112.55   | 0.01        |
| 07:52:38           | 83.40        | 3.22         | 0.02          | 65.18     | %-1112.06   | 0.01        |
| 07:52:48           | 83.38        | 3.26         | 0.02          | 65.20     | %-1112.15   | 0.01        |
| 07:52:58           | 83.38        | 3.17         | 0.02          | 65.35     | %-1112.09   | 0.01        |
| 07:53:08           | 83.38        | 3.22         | 0.02          | 65.28     | %-1112.37   | 0.01        |
| 07:53:18           | 83.37        | 3.26         | 0.02          | 65.25     | %-1112.66   | 0.01        |
| 07:53:28           | 83.40        | 3.27         | 0.02          | 65.17     | %-1113.01   | 0.01        |
| 07:53:38           | 83.40        | 3.21         | 0.02          | 65.04     | %-1112.70   | 0.01        |

|          |       |      |      |         |          |      |
|----------|-------|------|------|---------|----------|------|
| 07:53:48 | 83.41 | 3.18 | 0.02 | 64.94 % | -1112.71 | 0.01 |
| 07:53:58 | 84.08 | 3.22 | 0.02 | 64.82 % | -1112.03 | 0.01 |
| 07:54:08 | 84.29 | 3.14 | 0.02 | 64.77 % | -1112.45 | 0.01 |
| 07:54:18 | 84.28 | 3.29 | 0.02 | 64.75 % | -1113.07 | 0.01 |
| 07:54:28 | 84.27 | 3.36 | 0.02 | 64.70 % | -1113.26 | 0.01 |
| 07:54:38 | 84.28 | 3.40 | 0.02 | 64.67 % | -1113.42 | 0.01 |

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|       |       |      |      |         |          |  |
|-------|-------|------|------|---------|----------|--|
| Avg = | 82.52 | 3.19 | 0.02 | 65.18 % | -1119.64 |  |
|-------|-------|------|------|---------|----------|--|

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0.01



RADIANT CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-15-1997 Current Time = 07:59:10  
 File Name = C:\CEM\DATA\041597.PRN Calibration File: C:\CEM\DATA\0415a.CAL

Test #: Out 59.2

| 04-15-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 07:59:15           | 132.37       | 4.18         | 0.02          | 64.84     | X-1123.36   | 0.01        |
| 07:59:18           | 132.68       | 4.32         | 0.02          | 64.85     | X-1215.70   | 0.01        |
| 07:59:28           | 133.65       | 4.46         | 0.02          | 64.83     | X-1101.46   | 0.01        |
| 07:59:38           | 133.61       | 4.22         | 0.02          | 64.88     | X-1097.96   | 0.01        |
| 07:59:48           | 133.59       | 4.12         | 0.02          | 64.84     | X-1096.73   | 0.01        |
| 07:59:58           | 133.57       | 4.35         | 0.02          | 64.84     | X-1097.23   | 0.01        |
| 08:00:08           | 134.28       | 4.49         | 0.02          | 64.81     | X-1097.93   | 0.01        |
| 08:00:18           | 134.59       | 4.51         | 0.02          | 64.88     | X-1100.46   | 0.01        |
| 08:00:28           | 134.55       | 4.60         | 0.02          | 64.92     | X-1103.70   | 0.01        |
| 08:00:38           | 134.59       | 4.68         | 0.02          | 64.97     | X-1114.99   | 0.01        |
| 08:00:48           | 134.94       | 4.52         | 0.02          | 64.99     | X-1114.94   | 0.01        |
| 08:00:58           | 135.48       | 4.48         | 0.02          | 64.99     | X-1115.11   | 0.01        |
| 08:01:08           | 135.46       | 4.55         | 0.02          | 65.08     | X-1114.75   | 0.01        |
| 08:01:18           | 135.47       | 4.77         | 0.02          | 65.15     | X-1116.76   | 0.01        |
| Avg =              | 134.20       | 4.45         | 0.02          | 64.92     | X-1115.08   | 0.01        |

## RADIAM CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-15-1997 Current Time = 08:04:00

File Name = C:\CEM\DATA\041597.PRN Calibration File: C:\CEM\DATA\0415a.CAL

Test #: Out 59.2 stv direct

| 04-15-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|

|          |        |      |      |       |           |      |
|----------|--------|------|------|-------|-----------|------|
| 08:04:06 | 141.47 | 5.51 | 0.02 | 65.33 | %-1127.36 | 0.01 |
| 08:04:07 | 141.47 | 5.51 | 0.02 | 65.33 | %-1127.36 | 0.01 |
| 08:04:09 | 141.47 | 5.51 | 0.02 | 65.33 | %-1127.36 | 0.01 |
| 08:04:18 | 141.49 | 5.49 | 0.02 | 65.29 | %-1128.99 | 0.01 |
| 08:04:28 | 141.48 | 5.39 | 0.02 | 65.28 | %-1115.69 | 0.01 |
| 08:04:38 | 141.47 | 5.76 | 0.02 | 65.29 | %-1116.62 | 0.01 |
| 08:04:48 | 141.50 | 5.59 | 0.02 | 65.30 | %-1116.33 | 0.01 |
| 08:04:58 | 141.47 | 5.64 | 0.02 | 65.33 | %-1116.12 | 0.01 |
| 08:05:08 | 140.86 | 5.91 | 0.02 | 65.30 | %-1116.61 | 0.01 |
| 08:05:18 | 141.47 | 5.60 | 0.02 | 65.32 | %-1116.26 | 0.01 |
| 08:05:28 | 141.48 | 5.82 | 0.02 | 65.39 | %-1116.53 | 0.01 |
| 08:05:38 | 140.69 | 5.73 | 0.02 | 65.57 | %-1116.86 | 0.01 |
| 08:05:48 | 141.46 | 5.29 | 0.02 | 65.63 | %-1115.50 | 0.01 |
| 08:05:58 | 141.48 | 4.89 | 0.02 | 65.66 | %-1114.83 | 0.01 |
| 08:06:08 | 141.47 | 4.87 | 0.02 | 65.68 | %-1114.71 | 0.01 |
| 08:06:18 | 141.07 | 4.81 | 0.02 | 65.56 | %-1114.55 | 0.01 |
| 08:06:28 | 140.62 | 4.82 | 0.02 | 65.57 | %-1117.81 | 0.01 |
| 08:06:38 | 141.47 | 4.92 | 0.02 | 65.59 | %-1116.08 | 0.01 |
| 08:06:48 | 141.48 | 4.72 | 0.02 | 65.61 | %-1114.41 | 0.01 |

|       |        |      |      |       |           |      |
|-------|--------|------|------|-------|-----------|------|
| Avg = | 141.34 | 5.36 | 0.02 | 65.44 | %-1118.42 | 0.01 |
|-------|--------|------|------|-------|-----------|------|

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-15-1997 Current Time = 08:11:46

File Name = C:\CEM\DATA\041597.PRN Calibration File: C:\CEM\DATA\0415a.CAL

Test #: Audit 4

| 04-15-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 08:11:52           | 138.91       | 4.55         | 0.01          | 64.37     | %-1109.81   | 0.01        |
| 09:11:53           | 138.91       | 4.55         | 0.01          | 64.37     | %-1109.81   | 0.01        |
| 08:11:58           | 140.13       | 4.57         | 0.01          | 64.77     | %-1167.89   | 0.01        |
| 08:12:08           | 140.80       | 4.91         | 0.01          | 64.82     | %-1114.45   | 0.01        |
| 09:12:18           | 142.91       | 5.18         | 0.01          | 64.86     | %-1115.13   | 0.01        |
| 09:12:28           | 145.16       | 5.17         | 0.01          | 64.80     | %-1114.36   | 0.01        |
| 09:12:38           | 94.02        | 4.77         | 0.01          | 64.71     | %-1114.86   | 0.01        |
| Avg =              | 134.41       | 4.82         | 0.01          | 64.67     | %-1120.90   | 0.01        |

## RADIANT CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for:

NMMA

Date Printed = 04-15-1997 Current Time = 09:38:38

File Name = C:\CEM DATA\041597.PRM Calibration File: C:\CEM DATA\0415a.CAL

Test #: 0415-01

| 04-15-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 09:39:18           | 3.45         | 4.96         | 0.23          | 62.09     | 379.78      | -2.25       |
| 09:40:18           | 3.90         | 4.92         | 0.23          | 62.59     | 379.99      | -2.28       |
| 09:41:18           | 3.90         | 4.81         | 0.23          | 63.76     | 380.20      | -2.30       |
| 09:42:18           | 3.90         | 4.82         | 0.23          | 64.69     | 380.28      | -2.31       |
| 09:43:18           | 3.89         | 4.80         | 0.23          | 65.31     | 380.32      | -2.32       |
| 09:44:18           | 3.89         | 4.81         | 0.23          | 65.67     | 380.34      | -2.31       |
| 09:45:18           | 3.89         | 4.79         | 0.22          | 65.87     | 380.36      | -2.31       |
| 09:46:18           | 3.90         | 4.80         | 0.23          | 66.02     | 380.37      | -2.31       |
| 09:47:18           | 3.90         | 4.83         | 0.23          | 66.13     | 380.39      | -2.31       |
| 09:48:18           | 3.89         | 4.84         | 0.23          | 66.22     | 380.38      | -2.30       |
| 09:49:18           | 3.89         | 4.84         | 0.23          | 66.31     | 380.39      | -2.30       |
| 09:50:18           | 16.57        | 4.88         | 0.23          | 66.39     | 375.82      | -2.32       |
| 09:51:18           | 47.41        | 4.87         | 0.23          | 66.44     | 369.53      | -2.32       |
| 09:52:18           | 77.62        | 4.87         | 0.23          | 66.50     | 363.62      | -2.32       |
| 09:53:18           | 114.56       | 4.84         | 0.23          | 66.61     | 359.91      | -2.32       |
| 09:54:18           | 153.80       | 4.82         | 0.23          | 66.70     | 357.23      | -2.32       |
| 09:55:18           | 147.47       | 4.86         | 0.23          | 66.77     | 357.24      | -2.30       |
| 09:56:18           | 133.82       | 4.82         | 0.23          | 66.78     | 357.24      | -2.31       |
| 09:57:18           | 133.64       | 4.83         | 0.23          | 66.82     | 357.23      | -2.31       |
| 09:58:18           | 128.74       | 4.84         | 0.23          | 66.83     | 357.27      | -2.31       |
| 09:59:18           | 137.77       | 4.82         | 0.23          | 66.82     | 355.95      | -2.32       |
| 10:00:18           | 159.16       | 4.85         | 0.23          | 66.59     | 349.98      | -2.32       |
| 10:01:18           | 172.78       | 4.89         | 0.23          | 66.29     | 345.77      | -2.32       |
| 10:02:18           | 202.04       | 4.89         | 0.23          | 66.09     | 339.09      | -2.32       |
| 10:03:18           | 244.95       | 4.85         | 0.23          | 65.88     | 332.65      | -2.25       |
| 10:04:18           | 234.20       | 4.70         | 0.23          | 65.94     | 330.55      | -2.26       |
| 10:05:18           | 201.64       | 4.65         | 0.22          | 66.12     | 330.55      | -2.25       |
| 10:06:18           | 197.29       | 4.57         | 0.23          | 66.23     | 330.56      | -2.29       |
| 10:07:18           | 191.61       | 4.52         | 0.22          | 66.29     | 330.55      | -2.28       |
| 10:08:18           | 185.72       | 4.48         | 0.22          | 66.36     | 330.56      | -2.25       |
| 10:09:18           | 186.94       | 4.42         | 0.22          | 66.44     | 330.56      | -2.28       |
| 10:10:18           | 165.10       | 4.35         | 0.22          | 66.52     | 330.59      | -2.28       |
| 10:11:18           | 161.72       | 4.34         | 0.23          | 66.58     | 330.55      | -2.31       |
| 10:12:18           | 162.37       | 4.41         | 0.23          | 66.60     | 330.55      | -2.36       |
| 10:13:18           | 146.04       | 4.45         | 0.25          | 66.58     | 330.55      | -2.40       |
| 10:14:18           | 158.79       | 4.58         | 0.24          | 66.59     | 330.55      | -2.48       |
| 10:15:18           | 140.37       | 4.88         | 0.24          | 66.60     | 330.56      | -2.40       |
| 10:16:18           | 133.33       | 4.97         | 0.24          | 66.62     | 330.55      | -2.48       |
| 10:17:18           | 134.93       | 5.04         | 0.24          | 66.63     | 330.55      | -2.46       |
| 10:18:18           | 123.98       | 5.19         | 0.24          | 66.58     | 330.55      | -2.44       |

Test #: 0415-01

| 04-15-1997<br>Time | THC o<br>oom | THC i<br>oom | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 10:19:18           | 122.67       | 5.20         | 0.24          | 66.55     | 330.56      | -2.45       |
| 10:20:18           | 126.58       | 5.21         | 0.24          | 66.59     | 330.55      | -2.43       |
| 10:21:18           | 121.71       | 5.17         | 0.24          | 66.61     | 330.55      | -2.44       |
| 10:22:18           | 114.87       | 5.01         | 0.24          | 66.53     | 330.56      | -2.45       |
| 10:23:18           | 112.89       | 4.85         | 0.24          | 66.59     | 330.55      | -2.45       |
| 10:24:18           | 113.24       | 4.77         | 0.24          | 66.59     | 330.55      | -2.43       |
| 10:25:18           | 115.87       | 4.70         | 0.24          | 66.58     | 330.54      | -2.45       |
| 10:26:18           | 108.28       | 4.72         | 0.23          | 66.57     | 330.54      | -2.43       |
| 10:27:18           | 112.78       | 4.71         | 0.24          | 66.57     | 330.54      | -2.45       |
| 10:28:18           | 111.04       | 4.61         | 0.24          | 66.55     | 330.54      | -2.43       |
| 10:29:18           | 108.79       | 4.58         | 0.24          | 66.52     | 330.53      | -2.44       |
| 10:30:18           | 110.41       | 4.59         | 0.24          | 66.56     | 330.54      | -2.43       |
| 10:31:18           | 108.59       | 4.53         | 0.24          | 66.58     | 330.53      | -2.44       |
| 10:32:18           | 98.79        | 4.47         | 0.24          | 66.44     | 330.54      | -2.43       |
| 10:33:18           | 103.52       | 4.43         | 0.24          | 66.39     | 330.54      | -2.45       |
| 10:34:18           | 102.31       | 4.39         | 0.24          | 66.40     | 330.54      | -2.43       |
| 10:35:18           | 95.73        | 4.38         | 0.23          | 66.41     | 330.54      | -2.44       |
| 10:36:18           | 96.69        | 4.37         | 0.24          | 66.44     | 330.53      | -2.44       |
| 10:37:18           | 94.45        | 4.32         | 0.24          | 66.46     | 330.53      | -2.44       |
| 10:38:18           | 90.85        | 4.26         | 0.24          | 66.41     | 330.53      | -2.44       |
| 10:39:18           | 90.87        | 4.22         | 0.24          | 66.44     | 330.53      | -2.46       |
| 10:40:18           | 84.04        | 4.18         | 0.24          | 66.46     | 330.51      | -2.42       |
| 10:41:18           | 85.94        | 4.16         | 0.24          | 66.53     | 330.59      | -2.45       |
| 10:42:18           | 84.38        | 4.15         | 0.24          | 66.59     | 330.55      | -2.42       |
| 10:43:18           | 90.71        | 4.13         | 0.24          | 66.63     | 327.40      | -2.44       |
| 10:44:18           | 127.39       | 4.15         | 0.24          | 66.62     | 320.59      | -2.45       |
| 10:45:18           | 139.95       | 4.08         | 0.24          | 66.60     | 314.49      | -2.45       |
| 10:46:18           | 172.50       | 4.02         | 0.24          | 66.60     | 308.35      | -2.46       |
| 10:47:18           | 227.33       | 4.00         | 0.24          | 66.64     | 301.55      | -2.45       |
| 10:48:18           | 235.87       | 4.01         | 0.24          | 66.66     | 296.95      | -2.45       |
| 10:49:18           | 246.20       | 4.02         | 0.24          | 66.67     | 292.08      | -2.45       |
| 10:50:18           | 268.74       | 4.01         | 0.24          | 66.71     | 291.34      | -2.48       |
| 10:51:18           | 240.95       | 3.97         | 0.24          | 66.71     | 291.36      | -2.46       |
| 10:52:18           | 233.34       | 3.93         | 0.24          | 66.72     | 291.30      | -2.48       |
| 10:53:18           | 226.45       | 3.97         | 0.24          | 66.79     | 291.04      | -2.45       |
| 10:54:18           | 230.67       | 4.13         | 0.24          | 66.85     | 288.69      | -2.45       |
| 10:55:18           | 253.71       | 4.29         | 0.24          | 66.88     | 283.12      | -2.46       |
| 10:56:18           | 274.23       | 4.47         | 0.24          | 66.90     | 277.49      | -2.45       |
| 10:57:18           | 257.37       | 4.37         | 0.25          | 66.89     | 277.05      | -2.46       |
| 10:58:18           | 264.18       | 4.40         | 0.24          | 66.89     | 274.00      | -2.46       |
| 10:59:18           | 292.55       | 4.42         | 0.24          | 66.89     | 267.12      | -2.45       |
| 11:00:18           | 326.41       | 4.47         | 0.24          | 66.88     | 260.36      | -2.45       |
| 11:01:18           | 347.75       | 4.47         | 0.24          | 66.90     | 253.68      | -2.45       |
| 11:02:18           | 300.48       | 4.42         | 0.24          | 66.90     | 252.00      | -2.45       |
| 11:03:18           | 279.81       | 4.40         | 0.24          | 66.90     | 251.97      | -2.45       |
| 11:04:18           | 250.68       | 4.33         | 0.24          | 66.90     | 251.98      | -2.46       |
| 11:05:18           | 238.31       | 4.32         | 0.24          | 66.91     | 251.99      | -2.45       |
| 11:06:18           | 233.27       | 4.30         | 0.24          | 66.96     | 252.00      | -2.46       |
| 11:07:18           | 236.81       | 4.25         | 0.24          | 66.99     | 252.04      | -2.45       |
| 11:08:18           | 206.65       | 4.21         | 0.24          | 66.94     | 252.03      | -2.46       |
| 11:09:18           | 201.79       | 4.19         | 0.23          | 66.87     | 252.03      | -2.45       |
| 11:10:18           | 195.97       | 4.15         | 0.23          | 66.89     | 252.02      | -2.46       |
| 11:11:18           | 182.59       | 4.09         | 0.12          | 66.67     | 252.03      | -1.65       |
| 11:12:18           | 179.47       | 4.11         | 0.22          | 66.78     | 252.03      | -2.37       |
| 11:13:18           | 172.06       | 4.10         | 0.19          | 66.74     | 252.04      | -1.95       |
| 11:14:18           | 177.33       | 4.15         | 0.23          | 66.77     | 252.02      | -2.35       |

Test #: 0415-01

| 04-15-1997<br>Time | THC o<br>oom | THC i<br>oom | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 11:15:18           | 170.25       | 4.18         | 0.23          | 66.72     | 252.02      | -2.34       |
| 11:16:18           | 168.96       | 4.06         | 0.23          | 66.65     | 252.01      | -2.35       |
| 11:17:18           | 162.35       | 3.82         | 0.23          | 66.62     | 252.01      | -2.35       |
| 11:18:18           | 155.68       | 3.81         | 0.23          | 66.49     | 251.98      | -2.34       |
| 11:19:18           | 156.21       | 3.64         | 0.22          | 66.35     | 252.00      | -2.14       |
| 11:20:18           | 154.65       | 3.55         | 0.21          | 66.32     | 252.02      | -2.13       |
| 11:21:18           | 152.64       | 3.45         | 0.21          | 66.32     | 251.98      | -2.14       |
| 11:22:18           | 147.56       | 3.44         | 0.21          | 66.27     | 251.99      | -2.12       |
| 11:23:18           | 152.30       | 3.32         | 0.21          | 66.25     | 252.02      | -2.13       |
| 11:24:18           | 148.31       | 3.27         | 0.22          | 66.27     | 252.00      | -2.14       |
| 11:25:18           | 144.72       | 3.20         | 0.22          | 66.26     | 252.00      | -2.21       |
| 11:26:18           | 141.64       | 3.23         | 0.22          | 66.22     | 251.99      | -2.14       |
| 11:27:18           | 140.05       | 3.12         | 0.22          | 66.23     | 252.01      | -2.14       |
| 11:28:18           | 136.03       | 2.98         | 0.22          | 66.16     | 251.98      | -2.14       |
| 11:29:18           | 124.55       | 2.85         | 0.22          | 66.14     | 252.02      | -2.13       |
| 11:30:18           | 134.58       | 2.86         | 0.21          | 66.22     | 251.99      | -2.14       |
| 11:31:18           | 129.78       | 2.79         | 0.22          | 66.26     | 252.00      | -2.14       |
| 11:32:18           | 119.20       | 2.74         | 0.22          | 66.27     | 252.02      | -2.13       |
| 11:33:18           | 119.48       | 2.69         | 0.22          | 66.28     | 252.01      | -2.14       |
| 11:34:18           | 120.28       | 2.67         | 0.22          | 66.30     | 252.00      | -2.15       |
| 11:35:18           | 117.60       | 2.57         | 0.22          | 66.39     | 251.98      | -2.13       |
| 11:36:18           | 105.00       | 2.33         | 0.21          | 66.37     | 251.97      | -2.15       |
| 11:37:18           | 100.99       | 2.25         | 0.22          | 66.28     | 251.97      | -2.15       |
| 11:38:18           | 97.64        | 2.31         | 0.21          | 66.28     | 251.98      | -2.14       |
| 11:39:18           | 94.92        | 2.34         | 0.22          | 66.25     | 251.98      | -2.13       |
| 11:40:18           | 89.73        | 2.33         | 0.22          | 66.25     | 251.98      | -2.14       |
| 11:41:18           | 86.61        | 2.27         | 0.22          | 66.29     | 251.98      | -2.21       |
| 11:42:18           | 81.49        | 2.27         | 0.22          | 66.35     | 251.98      | -2.23       |
| 11:43:18           | 77.62        | 2.30         | 0.22          | 66.44     | 251.99      | -2.14       |
| 11:44:18           | 71.26        | 2.34         | 0.21          | 66.55     | 252.01      | -2.15       |
| 11:45:18           | 64.41        | 2.25         | 0.22          | 66.52     | 252.00      | -2.14       |
| 11:46:18           | 61.17        | 2.28         | 0.21          | 66.55     | 251.97      | -2.13       |
| 11:47:18           | 56.57        | 2.24         | 0.21          | 66.59     | 251.96      | -2.14       |
| 11:48:18           | 52.71        | 2.21         | 0.22          | 66.60     | 251.97      | -2.13       |
| 11:49:18           | 48.36        | 2.21         | 0.21          | 66.62     | 251.97      | -2.13       |
| 11:50:18           | 44.00        | 2.10         | 0.22          | 66.65     | 251.96      | -2.15       |
| 11:51:18           | 40.63        | 2.09         | 0.21          | 66.65     | 251.96      | -2.13       |
| 11:52:18           | 37.00        | 2.04         | 0.21          | 66.66     | 251.96      | -2.13       |
| 11:53:18           | 34.30        | 2.02         | 0.21          | 66.65     | 251.98      | -2.13       |
| 11:54:18           | 31.36        | 1.98         | 0.22          | 66.67     | 251.97      | -2.14       |
| 11:55:18           | 28.37        | 1.98         | 0.21          | 66.69     | 251.96      | -2.14       |
| 11:56:18           | 26.42        | 1.95         | 0.22          | 66.72     | 251.97      | -2.14       |
| 11:57:18           | 23.92        | 1.90         | 0.22          | 66.71     | 251.97      | -2.13       |
| 11:58:18           | 21.86        | 1.89         | 0.21          | 66.72     | 251.96      | -2.13       |
| 11:59:18           | 20.02        | 1.86         | 0.21          | 66.72     | 251.96      | -2.13       |
| 12:00:18           | 18.17        | 1.86         | 0.22          | 66.66     | 251.95      | -2.13       |
| 12:01:18           | 15.85        | 1.83         | 0.21          | 66.69     | 251.95      | -2.14       |
| 12:02:18           | 15.36        | 1.79         | 0.22          | 66.71     | 251.95      | -2.14       |
| 12:03:18           | 13.90        | 1.78         | 0.22          | 66.76     | 251.95      | -2.14       |
| 12:04:18           | 13.05        | 1.76         | 0.21          | 66.78     | 251.94      | -2.13       |
| 12:05:18           | 11.92        | 1.74         | 0.22          | 66.79     | 251.95      | -2.13       |
| 12:06:18           | 11.16        | 1.72         | 0.23          | 66.85     | 251.95      | -2.27       |
| 12:07:18           | 10.48        | 1.72         | 0.22          | 66.88     | 251.94      | -2.20       |
| 12:08:18           | 9.64         | 1.78         | 0.22          | 66.89     | 251.95      | -2.16       |
| 12:09:18           | 9.03         | 1.90         | 0.22          | 66.90     | 251.93      | -2.13       |
| 12:10:18           | 8.59         | 1.74         | 0.22          | 66.90     | 251.93      | -2.16       |

Test #: 0415-01

| 04-15-1997<br>Time | THC o<br>oom | THC i<br>oom | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 12:11:18           | 7.86         | 1.94         | 0.22          | 66.91     | 251.93      | -2.16       |
| 12:12:18           | 6.95         | 1.93         | 0.22          | 66.92     | 251.93      | -2.18       |
| 12:13:18           | 6.76         | 1.94         | 0.22          | 66.89     | 251.93      | -2.20       |
| 12:14:18           | 6.51         | 1.91         | 0.23          | 66.93     | 251.93      | -2.26       |
| 12:15:18           | 5.75         | 1.89         | 0.22          | 66.93     | 251.92      | -2.17       |
| 12:16:18           | 5.77         | 1.74         | 0.22          | 66.94     | 251.92      | -2.18       |
| 12:17:18           | 5.61         | 2.01         | 0.22          | 66.96     | 251.92      | -2.16       |
| 12:18:18           | 4.70         | 2.04         | 0.22          | 66.98     | 251.91      | -2.18       |
| Avg =              | 117.78       | 3.69         | 0.23          | 66.48     | 293.52      | -2.30       |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-15-1997 Current Time = 12:22:04

File Name = C:\CEM\DATA\041597.PRN Calibration File: C:\CEM\DATA\0415a.CAL

Test #: Post-1 out <sup>1500</sup>297 in 0

| 04-15-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 12:22:08           | 589.43       | 0.01         | 0.23          | 67.03     | 251.87      | -2.24       |
| 12:22:10           | 589.43       | 0.01         | 0.23          | 67.03     | 251.87      | -2.24       |
| 12:22:18           | 588.47       | -0.02        | 0.24          | 66.95     | 251.88      | -2.26       |
| 12:22:28           | 588.50       | -0.02        | 0.24          | 66.91     | 251.88      | -2.26       |
| 12:22:38           | 588.54       | -0.02        | 0.24          | 66.95     | 81.84       | -2.25       |
| 12:22:48           | 588.26       | -0.02        | 0.24          | 66.96     | -345.04     | -2.26       |
| 12:22:58           | 588.50       | -0.02        | 0.23          | 66.94     | -623.02     | -2.24       |
| Ave =              | 588.73       | -0.01        | 0.24          | 66.97     | -11.25      | -2.25       |



RADIAN CORPORATION  
Environmental Measurement and Analysis Department  
Continuous Emissions Monitoring Data  
US Marine  
Arlington, MA  
Performed for: NMMA  
Date Printed = 04-15-1997 Current Time = 12:25:35  
File Name = C:\CEM\DATA\041597.PRM Calibration File: C:\CEM\DATA\0415a.CAL

Test #: Post-1 out 297 in 30.4

| 04-15-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 12:25:40           | 288.87       | 30.53        | 0.23          | 67.00     | -404.42     | -2.14       |
| 12:25:41           | 288.87       | 30.53        | 0.23          | 67.00     | -404.42     | -2.14       |
| 12:25:48           | 288.88       | 30.42        | 0.23          | 66.90     | -384.83     | -2.14       |
| 12:25:58           | 288.82       | 30.32        | 0.23          | 66.92     | -368.59     | -2.15       |
| 12:26:08           | 288.00       | 30.31        | 0.23          | 66.88     | -365.86     | -2.13       |
| 12:26:18           | 288.84       | 30.34        | 0.23          | 66.81     | -364.54     | -2.14       |
| 12:26:28           | 288.43       | 30.56        | 0.23          | 66.80     | -362.84     | -2.13       |
| 12:26:38           | 288.02       | 30.56        | 0.23          | 66.72     | -360.99     | -2.13       |
| Avg =              | 288.59       | 30.45        | 0.23          | 66.88     | -377.06     | -2.14       |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-15-1997 Current Time = 12:29:10

File Name = C:\CEM\DATA\041597.PRN Calibration File: C:\CEM\DATA\0415a.CAL

Test #: Post-1 out 0 in 15.0

| 04-15-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 12:29:15           | -0.03        | 15.19        | 0.24          | 66.46     | -414.63     | -2.23       |
| 12:29:18           | 0.08         | 15.14        | 0.24          | 66.49     | -468.78     | -2.26       |
| 12:29:28           | -0.06        | 15.13        | 0.23          | 66.52     | -411.04     | -2.23       |
| 12:29:38           | -0.05        | 14.86        | 0.23          | 66.57     | -407.73     | -2.22       |
| 12:29:48           | -0.10        | 15.19        | 0.24          | 66.56     | -409.20     | -2.24       |
| 12:29:58           | -0.11        | 15.17        | 0.24          | 66.62     | -409.39     | -2.24       |
| 12:30:08           | -0.06        | 15.11        | 0.23          | 66.63     | -409.77     | -2.23       |
| 12:30:18           | -0.11        | 15.08        | 0.24          | 66.63     | -410.33     | -2.23       |
| Avg =              | -0.06        | 15.11        | 0.24          | 66.56     | -417.53     | -2.23       |

RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-15-1997 Current Time = 13:43:19  
 File Name = C:\CEM DATA\041597.PRN Calibration File: C:\CEM DATA\0415a.CAL

Test #: Flow audit

| 04-15-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 13:43:27           | 2.82         | 3.70         | 0.25          | 67.52     | -458.07     | -2.32       |
| 13:43:28           | 2.82         | 3.70         | 0.25          | 67.52     | -458.07     | -2.32       |
| 13:43:38           | 2.87         | 3.68         | 0.25          | 67.50     | -428.08     | -2.29       |
| 13:43:48           | 2.46         | 3.68         | 0.25          | 67.50     | -421.89     | -2.31       |
| 13:43:58           | 2.87         | 3.70         | 0.25          | 67.50     | -424.06     | -2.31       |
| 13:44:08           | 2.19         | 3.70         | 0.25          | 67.47     | -425.49     | -2.31       |
| Avg =              | 2.67         | 3.69         | 0.25          | 67.50     | -435.95     | -2.31       |

## RADIANT CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-15-1997 Current Time = 13:54:17

File Name = C:\CEMDATA\041597.PRN Calibration File: C:\CEMDATA\0415a.CAL

Test #: Post flow audit

| 04-15-1997 | THC o | THC i | Flow  | Temp | Resin | Ps    |
|------------|-------|-------|-------|------|-------|-------|
| Time       | ppm   | ppm   | inH2O | F    | lb    | inH2O |

## RADIANT CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-15-1997 Current Time = 13:56:36

File Name = C:\CEMDATA\041597.PRN Calibration File: C:\CEMDATA\0415a.CAL

Test #: post flow audit

| 04-15-1997 | THC o | THC i | Flow  | Temp | Resin | Ps    |
|------------|-------|-------|-------|------|-------|-------|
| Time       | ppm   | ppm   | inH2O | F    | lb    | inH2O |

|          |      |      |      |       |         |       |
|----------|------|------|------|-------|---------|-------|
| 13:56:45 | 1.90 | 3.66 | 0.25 | 67.55 | -423.93 | -2.32 |
| 13:56:46 | 1.90 | 3.66 | 0.25 | 67.55 | -423.93 | -2.32 |
| 13:56:47 | 1.90 | 3.66 | 0.25 | 67.55 | -423.93 | -2.32 |
| 13:56:56 | 2.87 | 3.66 | 0.26 | 67.52 | -409.22 | -2.30 |
| 13:57:06 | 2.87 | 3.65 | 0.26 | 67.55 | -408.20 | -2.31 |
| 13:57:16 | 2.88 | 3.65 | 0.26 | 67.55 | -415.24 | -2.31 |
| 13:57:26 | 2.90 | 3.66 | 0.25 | 67.55 | -420.04 | -2.31 |
| 13:57:36 | 2.90 | 3.67 | 0.25 | 67.54 | -422.57 | -2.31 |
| 13:57:46 | 2.88 | 3.68 | 0.26 | 67.59 | -424.30 | -2.33 |

|       |      |      |      |       |         |       |
|-------|------|------|------|-------|---------|-------|
| Avg = | 2.56 | 3.66 | 0.25 | 67.55 | -419.04 | -2.31 |
|-------|------|------|------|-------|---------|-------|

## RADIAM CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-15-1997 Current Time = 13:59:41

File Name = C:\CEMDATA\041597.PRN Calibration File: C:\CEMDATA\0415a.CAL

Test #: 0415-02

| 04-15-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 14:00:25           | 2.89         | 3.62         | 0.25          | 67.79     | 385.98      | -2.37       |
| 14:01:25           | 2.88         | 3.62         | 0.25          | 67.85     | 386.13      | -2.32       |
| 14:02:25           | 3.28         | 3.63         | 0.25          | 67.95     | 383.66      | -2.37       |
| 14:03:25           | 22.50        | 3.62         | 0.25          | 68.03     | 376.61      | -2.34       |
| 14:04:25           | 75.13        | 3.62         | 0.24          | 68.08     | 369.62      | -2.35       |
| 14:05:25           | 103.70       | 3.65         | 0.24          | 68.14     | 362.54      | -2.34       |
| 14:06:25           | 138.86       | 3.68         | 0.25          | 68.19     | 360.23      | -2.34       |
| 14:07:25           | 138.80       | 3.68         | 0.24          | 68.22     | 359.99      | -2.34       |
| 14:08:25           | 140.89       | 3.68         | 0.25          | 68.25     | 355.50      | -2.35       |
| 14:09:25           | 170.84       | 3.71         | 0.25          | 68.26     | 351.17      | -2.35       |
| 14:10:25           | 193.59       | 3.73         | 0.25          | 68.27     | 349.67      | -2.37       |
| 14:12:23           | 181.03       | 3.76         | 0.25          | 68.27     | 349.69      | -2.37       |
| 14:12:25           | 174.88       | 3.78         | 0.24          | 68.33     | 351.53      | -2.34       |
| 14:13:25           | 170.48       | 3.85         | 0.25          | 68.37     | 350.07      | -2.35       |
| 14:14:25           | 182.04       | 3.90         | 0.24          | 68.38     | 343.30      | -2.35       |
| 14:15:25           | 217.25       | 3.93         | 0.25          | 68.36     | 338.31      | -2.35       |
| 14:16:25           | 225.14       | 3.97         | 0.25          | 68.37     | 334.98      | -2.35       |
| 14:17:25           | 241.46       | 4.00         | 0.25          | 68.37     | 327.85      | -2.36       |
| 14:18:25           | 271.11       | 4.03         | 0.25          | 68.40     | 322.28      | -2.35       |
| 14:19:25           | 307.37       | 4.06         | 0.24          | 68.41     | 315.42      | -2.36       |
| 14:20:25           | 322.94       | 4.09         | 0.25          | 68.43     | 312.17      | -2.35       |
| 14:21:25           | 271.02       | 4.12         | 0.25          | 68.44     | 312.13      | -2.36       |
| 14:22:25           | 251.39       | 4.16         | 0.25          | 68.46     | 312.11      | -2.36       |
| 14:23:25           | 249.88       | 4.20         | 0.25          | 68.46     | 312.11      | -2.36       |
| 14:24:25           | 225.43       | 4.23         | 0.25          | 68.43     | 312.12      | -2.36       |
| 14:25:25           | 200.55       | 4.27         | 0.25          | 68.38     | 312.12      | -2.36       |
| 14:26:25           | 178.99       | 4.35         | 0.25          | 68.33     | 312.11      | -2.36       |
| 14:27:25           | 173.05       | 4.40         | 0.25          | 68.30     | 312.11      | -2.35       |
| 14:28:25           | 175.17       | 4.40         | 0.25          | 68.29     | 312.11      | -2.35       |
| 14:29:25           | 161.97       | 4.44         | 0.24          | 68.28     | 312.11      | -2.34       |
| 14:30:25           | 150.72       | 4.43         | 0.25          | 68.26     | 312.11      | -2.34       |
| 14:31:25           | 142.32       | 4.39         | 0.25          | 68.23     | 312.10      | -2.34       |
| 14:32:25           | 144.13       | 4.34         | 0.25          | 68.23     | 312.10      | -2.35       |
| 14:33:25           | 144.68       | 4.33         | 0.25          | 68.23     | 312.10      | -2.34       |
| 14:34:25           | 122.06       | 4.28         | 0.25          | 68.22     | 312.10      | -2.37       |
| 14:35:25           | 108.41       | 4.16         | 0.25          | 68.10     | 312.09      | -2.35       |
| 14:36:25           | 102.05       | 4.22         | 0.25          | 67.98     | 312.09      | -2.34       |
| 14:37:25           | 111.48       | 4.08         | 0.25          | 67.97     | 312.09      | -2.35       |
| 14:38:25           | 112.16       | 4.01         | 0.25          | 67.97     | 312.09      | -2.35       |
| 14:39:25           | 114.26       | 3.94         | 0.25          | 67.99     | 312.08      | -2.34       |

Test #: 0415-02

| 04-15-1997<br>Time | THC o<br>oom | THC i<br>oom | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 14:40:25           | 114.92       | 3.90         | 0.25          | 68.01     | 312.09      | -2.34       |
| 14:41:25           | 116.28       | 3.83         | 0.25          | 68.01     | 312.09      | -2.34       |
| 14:42:25           | 113.75       | 3.80         | 0.24          | 68.02     | 312.08      | -2.35       |
| 14:43:25           | 112.43       | 3.76         | 0.25          | 68.02     | 312.08      | -2.34       |
| 14:44:25           | 108.80       | 3.73         | 0.25          | 68.03     | 312.08      | -2.34       |
| 14:45:25           | 113.53       | 3.69         | 0.24          | 68.06     | 312.08      | -2.34       |
| 14:46:25           | 111.16       | 3.66         | 0.25          | 68.08     | 312.07      | -2.35       |
| 14:47:25           | 108.77       | 3.65         | 0.24          | 68.10     | 312.06      | -2.33       |
| 14:48:25           | 108.26       | 3.61         | 0.26          | 68.09     | 312.07      | -2.45       |
| 14:49:25           | 106.17       | 3.57         | 0.26          | 68.09     | 312.06      | -2.51       |
| 14:50:25           | 107.05       | 3.55         | 0.26          | 68.13     | 312.05      | -2.51       |
| 14:51:25           | 113.30       | 3.53         | 0.26          | 68.18     | 311.39      | -2.50       |
| 14:52:25           | 108.65       | 3.52         | 0.26          | 68.22     | 311.93      | -2.51       |
| 14:53:25           | 118.82       | 3.51         | 0.26          | 68.25     | 311.87      | -2.49       |
| 14:54:25           | 131.03       | 3.49         | 0.26          | 68.25     | 308.37      | -2.50       |
| 14:55:25           | 172.52       | 3.46         | 0.26          | 68.30     | 301.29      | -2.51       |
| 14:56:25           | 199.78       | 3.44         | 0.26          | 68.33     | 298.75      | -2.51       |
| 14:57:25           | 223.44       | 3.44         | 0.26          | 68.37     | 292.74      | -2.51       |
| 14:58:25           | 240.04       | 3.41         | 0.26          | 68.35     | 288.50      | -2.50       |
| 14:59:25           | 238.51       | 3.40         | 0.26          | 68.35     | 287.01      | -2.51       |
| 15:00:25           | 236.43       | 3.36         | 0.26          | 68.36     | 285.28      | -2.50       |
| 15:01:25           | 258.84       | 3.34         | 0.26          | 68.37     | 279.22      | -2.52       |
| 15:02:25           | 309.18       | 3.33         | 0.26          | 68.41     | 273.95      | -2.55       |
| 15:03:25           | 299.55       | 3.36         | 0.26          | 68.42     | 271.39      | -2.52       |
| 15:04:25           | 291.13       | 3.38         | 0.26          | 68.44     | 270.95      | -2.51       |
| 15:05:25           | 278.21       | 3.37         | 0.26          | 68.43     | 270.95      | -2.48       |
| 15:06:25           | 267.30       | 3.33         | 0.25          | 68.41     | 270.94      | -2.35       |
| 15:07:25           | 244.76       | 3.27         | 0.25          | 68.40     | 270.93      | -2.40       |
| 15:08:25           | 233.45       | 3.26         | 0.25          | 68.37     | 270.94      | -2.35       |
| 15:09:25           | 230.23       | 3.25         | 0.25          | 68.32     | 270.94      | -2.40       |
| 15:10:25           | 220.13       | 3.32         | 0.25          | 68.29     | 270.93      | -2.40       |
| 15:11:25           | 202.53       | 3.35         | 0.26          | 68.24     | 270.93      | -2.47       |
| 15:12:25           | 197.19       | 3.34         | 0.26          | 68.21     | 270.93      | -2.47       |
| 15:13:25           | 187.18       | 3.29         | 0.24          | 68.20     | 270.94      | -2.26       |
| 15:14:25           | 181.24       | 3.23         | 0.23          | 68.20     | 270.94      | -2.17       |
| 15:15:25           | 176.33       | 3.16         | 0.23          | 68.20     | 270.93      | -2.17       |
| 15:16:25           | 168.84       | 3.09         | 0.23          | 68.17     | 270.93      | -2.17       |
| 15:17:25           | 161.36       | 3.04         | 0.23          | 68.13     | 270.92      | -2.18       |
| 15:18:25           | 156.28       | 2.98         | 0.23          | 68.13     | 270.92      | -2.15       |
| 15:19:25           | 146.88       | 2.92         | 0.23          | 68.07     | 270.92      | -2.20       |
| 15:20:25           | 136.31       | 2.86         | 0.23          | 67.92     | 270.92      | -2.25       |
| 15:21:25           | 137.64       | 2.81         | 0.24          | 67.95     | 270.93      | -2.22       |
| 15:22:25           | 129.16       | 2.75         | 0.23          | 67.92     | 270.93      | -2.21       |
| 15:23:25           | 121.95       | 2.69         | 0.24          | 67.91     | 270.92      | -2.27       |
| 15:24:25           | 115.45       | 2.66         | 0.24          | 67.89     | 270.93      | -2.36       |
| 15:25:25           | 107.98       | 2.57         | 0.25          | 67.81     | 270.92      | -2.39       |
| 15:26:25           | 102.38       | 2.54         | 0.25          | 67.78     | 270.93      | -2.40       |
| 15:27:25           | 98.27        | 2.52         | 0.25          | 67.84     | 270.92      | -2.40       |
| 15:28:25           | 95.58        | 2.48         | 0.25          | 67.82     | 270.94      | -2.41       |
| 15:29:25           | 90.86        | 2.44         | 0.25          | 67.82     | 270.93      | -2.40       |
| 15:30:25           | 85.84        | 2.40         | 0.24          | 67.79     | 270.94      | -2.36       |
| 15:31:25           | 81.49        | 2.39         | 0.24          | 67.76     | 270.93      | -2.39       |
| 15:32:25           | 75.80        | 2.35         | 0.25          | 67.73     | 270.95      | -2.35       |
| 15:33:25           | 71.67        | 2.30         | 0.25          | 67.72     | 270.93      | -2.38       |
| 15:34:25           | 63.09        | 2.27         | 0.25          | 67.68     | 270.93      | -2.35       |
| 15:35:25           | 63.80        | 2.26         | 0.23          | 67.68     | 270.91      | -2.23       |

Test #: 0415-02

| 04-15-1997<br>Time | THC o<br>oem | THC i<br>oem | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 15:36:25           | 59.48        | 2.24         | 0.23          | 67.65     | 273.19      | -2.20       |
| 15:37:25           | 56.33        | 2.23         | 0.23          | 67.68     | 271.51      | -2.20       |
| 15:38:25           | 51.59        | 2.20         | 0.24          | 67.64     | 271.50      | -2.20       |
| 15:39:25           | 49.03        | 2.17         | 0.23          | 67.59     | 269.80      | -2.20       |
| 15:40:25           | 68.41        | 2.13         | 0.23          | 67.64     | 263.37      | -2.19       |
| 15:41:25           | 108.31       | 2.09         | 0.23          | 67.65     | 259.10      | -2.20       |
| 15:42:25           | 127.72       | 2.07         | 0.23          | 67.66     | 255.74      | -2.22       |
| 15:43:25           | 150.08       | 2.03         | 0.23          | 67.68     | 250.26      | -2.21       |
| 15:44:25           | 165.15       | 2.01         | 0.23          | 67.67     | 247.78      | -2.20       |
| 15:45:25           | 162.30       | 2.00         | 0.23          | 67.58     | 245.44      | -2.22       |
| 15:46:25           | 183.39       | 1.95         | 0.23          | 67.60     | 241.67      | -2.22       |
| 15:47:25           | 232.75       | 1.92         | 0.23          | 67.60     | 237.11      | -2.21       |
| 15:48:25           | 234.65       | 1.88         | 0.23          | 67.55     | 235.41      | -2.20       |
| 15:49:25           | 221.38       | 1.94         | 0.23          | 67.44     | 235.36      | -2.21       |
| 15:50:25           | 215.55       | 1.83         | 0.23          | 67.39     | 233.97      | -2.21       |
| 15:51:25           | 210.34       | 1.85         | 0.23          | 67.35     | 233.49      | -2.21       |
| 15:52:25           | 205.11       | 1.84         | 0.22          | 67.31     | 233.52      | -2.21       |
| 15:53:25           | 190.37       | 1.87         | 0.23          | 67.23     | 233.52      | -2.21       |
| 15:54:25           | 179.97       | 1.79         | 0.22          | 67.21     | 233.55      | -2.21       |
| 15:55:25           | 157.32       | 1.05         | 0.23          | 67.07     | 233.56      | -2.20       |
| 15:56:25           | 155.15       | 0.91         | 0.22          | 67.05     | 233.54      | -2.20       |
| 15:57:25           | 147.52       | 0.91         | 0.22          | 67.03     | 233.48      | -2.21       |
| 15:58:25           | 138.57       | 0.95         | 0.23          | 67.04     | 233.51      | -2.21       |
| 15:59:25           | 136.00       | 0.98         | 0.23          | 67.08     | 233.51      | -2.22       |
| 16:00:25           | 130.55       | 0.68         | 0.23          | 67.05     | 233.53      | -2.21       |
| 16:01:25           | 121.97       | 0.72         | 0.23          | 67.03     | 233.55      | -2.21       |
| 16:02:25           | 111.56       | -0.48        | 0.23          | 67.02     | 233.58      | -2.21       |
| 16:03:25           | 102.49       | -1.86        | 0.22          | 66.92     | 233.51      | -2.20       |
| 16:04:25           | 97.79        | -1.37        | 0.22          | 66.87     | 233.54      | -2.21       |
| 16:05:25           | 94.40        | -7.97        | 0.24          | 66.90     | 233.55      | -2.23       |
| 16:06:25           | 91.72        | -12.35       | 0.23          | 66.88     | 233.57      | -2.21       |
| 16:07:25           | 87.13        | -12.72       | 0.23          | 66.83     | 233.57      | -2.21       |
| 16:08:25           | 83.36        | -10.66       | 0.23          | 66.83     | 233.58      | -2.21       |
| 16:09:25           | 81.11        | 1.73         | 0.23          | 66.75     | 233.58      | -2.20       |
| 16:10:25           | 75.76        | 1.71         | 0.23          | 66.70     | 233.58      | -2.21       |
| 16:11:25           | 71.82        | 1.72         | 0.22          | 66.69     | 233.58      | -2.20       |
| 16:12:25           | 68.40        | 1.67         | 0.22          | 66.67     | 233.58      | -2.21       |
| 16:13:25           | 64.02        | 1.65         | 0.23          | 66.65     | 233.59      | -2.22       |
| 16:14:25           | 61.64        | 1.65         | 0.23          | 66.65     | 233.59      | -2.20       |
| 16:15:25           | 59.35        | 1.66         | 0.22          | 66.61     | 233.59      | -2.20       |
| 16:16:25           | 56.60        | 1.64         | 0.22          | 66.60     | 233.60      | -2.19       |
| 16:17:25           | 52.89        | 1.62         | 0.23          | 66.56     | 233.59      | -2.21       |
| 16:18:25           | 50.11        | 1.67         | 0.22          | 66.54     | 233.61      | -2.19       |
| 16:19:25           | 47.77        | 1.68         | 0.23          | 66.61     | 233.61      | -2.20       |
| 16:20:25           | 44.27        | 1.67         | 0.13          | 66.37     | 233.61      | -1.40       |
| 16:21:25           | 40.27        | 1.65         | 0.19          | 66.38     | 233.62      | -2.18       |
| 16:22:25           | 39.57        | 1.69         | 0.21          | 66.56     | 233.61      | -2.20       |
| 16:23:25           | 35.92        | 1.70         | 0.17          | 66.59     | 233.62      | -1.83       |
| 16:24:25           | 34.23        | 1.70         | 0.23          | 66.51     | 233.62      | -2.20       |
| 16:25:25           | 32.46        | 1.72         | 0.23          | 66.52     | 233.63      | -2.20       |
| 16:26:25           | 30.19        | 1.75         | 0.23          | 66.46     | 233.63      | -2.19       |
| 16:27:25           | 28.29        | 1.79         | 0.22          | 66.44     | 233.62      | -2.19       |
| 16:28:25           | 26.56        | 1.79         | 0.22          | 66.45     | 233.63      | -2.18       |
| 16:29:25           | 25.10        | 1.80         | 0.23          | 66.44     | 233.63      | -2.18       |
| 16:30:25           | 23.73        | 1.81         | 0.22          | 66.42     | 233.63      | -2.16       |
| 16:31:25           | 21.42        | 1.83         | 0.22          | 66.35     | 233.64      | -2.17       |

Test #: 0415-02

| 04-15-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 16:32:25           | 20.31        | 1.82         | 0.22          | 66.34     | 233.63      | -2.18       |
| 16:33:25           | 19.21        | 1.80         | 0.23          | 66.33     | 233.64      | -2.19       |
| 16:34:25           | 17.86        | 1.83         | 0.22          | 66.29     | 233.64      | -2.17       |
| 16:35:25           | 16.98        | 1.85         | 0.22          | 66.26     | 233.64      | -2.17       |
| 16:36:25           | 15.93        | 1.86         | 0.23          | 66.25     | 233.63      | -2.17       |
| 16:37:25           | 15.01        | 1.83         | 0.22          | 66.24     | 233.63      | -2.17       |
| 16:38:25           | 14.14        | 1.84         | 0.22          | 66.24     | 233.64      | -2.19       |
| 16:39:25           | 13.69        | 1.82         | 0.23          | 66.23     | 233.64      | -2.20       |
| 16:40:25           | 12.86        | 1.84         | 0.22          | 66.21     | 233.65      | -2.18       |
| 16:41:25           | 12.05        | 1.84         | 0.22          | 66.19     | 233.65      | -2.17       |
| 16:42:25           | 11.41        | 1.82         | 0.22          | 66.12     | 233.64      | -2.17       |
| 16:43:25           | 10.83        | 1.87         | 0.22          | 66.12     | 233.64      | -2.17       |
| 16:44:25           | 10.82        | 1.85         | 0.23          | 66.12     | 233.65      | -2.18       |
| 16:45:25           | 10.07        | 1.85         | 0.22          | 66.15     | 233.64      | -2.18       |
| 16:46:25           | 9.84         | 1.81         | 0.23          | 66.13     | 233.65      | -2.24       |
| 16:47:25           | 9.71         | 1.79         | 0.23          | 66.13     | 233.65      | -2.28       |
| 16:48:25           | 8.99         | 1.78         | 0.23          | 66.14     | 233.64      | -2.28       |
| 16:49:25           | 8.97         | 1.82         | 0.23          | 66.18     | 233.65      | -2.27       |
| 16:50:25           | 8.49         | 1.94         | 0.24          | 66.19     | 233.65      | -2.34       |
| 16:51:25           | 7.88         | 2.08         | 0.24          | 66.17     | 233.65      | -2.34       |
| 16:52:25           | 7.86         | 2.17         | 0.24          | 66.10     | 233.65      | -2.34       |
| 16:53:25           | 7.87         | 2.29         | 0.23          | 66.12     | 233.65      | -2.34       |
| 16:54:25           | 7.88         | 2.48         | 0.24          | 66.19     | 233.65      | -2.34       |
| 16:55:25           | 7.67         | 2.98         | 0.24          | 66.23     | 233.65      | -2.34       |
| 16:56:25           | 6.87         | 3.34         | 0.24          | 66.25     | 232.44      | -2.31       |
| 16:57:25           | 7.23         | 3.64         | 0.24          | 66.28     | 231.76      | -2.34       |
| 16:58:25           | 7.86         | 3.95         | 0.24          | 66.39     | 231.79      | -2.34       |
| Avg =              | 118.05       | 2.41         | 0.24          | 67.50     | 273.25      | -2.29       |



RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-15-1997 Current Time = 17:03:02

File Name = C:\CEM\DATA\041597.PRN Calibration File: C:\CEM\DATA\0415a.CAL

Test #: Post-3 out 600 in 15

| 04-15-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 17:03:03           | 590.19       | 15.42        | 0.03          | 66.42     | 231.78      | 0.02        |
| 17:03:05           | 591.72       | 15.09        | 0.03          | 66.62     | 231.82      | 0.02        |
| 17:03:15           | 590.01       | 15.34        | 0.03          | 66.42     | 231.78      | 0.02        |
| 17:03:25           | 590.07       | 15.34        | 0.03          | 66.42     | 231.77      | 0.02        |
| 17:03:35           | 589.93       | 15.33        | 0.03          | 66.43     | 231.77      | 0.02        |
| 17:03:45           | 590.46       | 15.32        | 0.03          | 66.42     | 231.77      | 0.02        |
| 17:03:55           | 590.66       | 15.30        | -0.84         | 23.36     | 231.76      | 0.41        |
| 17:04:05           | 590.64       | 15.29        | -6.20         | -240.50   | 231.74      | 2.80        |
| Avg =              | 590.46       | 15.30        | -0.86         | 22.70     | 231.77      | 0.42        |

## RADIANT CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-15-1997 Current Time = 17:06:39

File Name = C:\CEM\DATA\041597.PRN Calibration File: C:\CEM\DATA\0415a.CAL

Test #: Post-3 out 0 in 30.4

| 04-15-1997<br>Time | THC a<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 17:06:41           | 0.03         | 30.50        | -6.19         | -240.35   | 232.04      | 2.80        |
| 17:06:42           | 0.03         | 30.50        | -6.19         | -240.35   | 232.04      | 2.80        |
| 17:06:45           | 0.01         | 30.49        | -6.19         | -240.36   | 232.02      | 2.80        |
| 17:06:55           | 0.03         | 30.50        | -6.19         | -240.35   | 232.06      | 2.80        |
| 17:07:05           | 0.03         | 30.50        | -6.19         | -240.35   | 232.04      | 2.80        |
| 17:07:15           | 0.03         | 30.52        | -6.19         | -240.34   | 232.03      | 2.80        |
| 17:07:25           | 0.03         | 30.52        | -6.19         | -240.35   | 232.05      | 2.80        |
| 17:07:35           | 0.02         | 30.53        | -6.19         | -240.35   | 232.03      | 2.80        |
| 17:07:45           | 0.02         | 30.51        | -6.19         | -240.34   | 232.05      | 2.80        |
| 17:07:55           | 0.02         | 30.50        | -6.19         | -240.34   | 232.05      | 2.80        |
| Avg =              | 0.03         | 30.51        | -6.19         | -240.35   | 232.04      | 2.80        |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-15-1997 Current Time = 17:10:31

File Name = C:\CEM\DATA\041597.PRN Calibration File: C:\CEM\DATA\0415a.CAL

Test #: Post-3 out 297 in 0

| 04-15-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 17:10:33           | 289.03       | -0.14        | -6.20         | -240.49   | 231.70      | 2.80        |
| 17:10:35           | 288.83       | 0.06         | -6.20         | -240.47   | 231.84      | 2.80        |
| 17:10:45           | 288.76       | 0.02         | -6.20         | -240.51   | 231.70      | 2.80        |
| 17:10:55           | 287.90       | 0.02         | -6.20         | -240.51   | 231.71      | 2.80        |
| 17:11:05           | 287.97       | 0.05         | -6.20         | -240.51   | 231.69      | 2.80        |
| 17:11:15           | 287.97       | 0.06         | -6.20         | -240.51   | 231.69      | 2.80        |
| 17:11:25           | 287.96       | 0.05         | -6.20         | -240.51   | 231.67      | 2.80        |
| Avg =              | 288.34       | 0.02         | -6.20         | -240.50   | 231.71      | 2.80        |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, MA

Performed for: NMMA

Date Printed = 04-15-1997 Current Time = 17:16:38

File Name = C:\CEM\DATA\041597.PRM Calibration File: C:\CEM\DATA\0415a.CAL

Test #: Resin tare

| 04-15-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 17:16:40           | 4.80         | 0.12         | -6.20         | -240.48   | 231.73      | 2.80        |
| 17:16:41           | 4.80         | 0.12         | -6.20         | -240.48   | 231.73      | 2.80        |
| 17:16:51           | 3.81         | 0.11         | -6.20         | -240.49   | 231.74      | 2.80        |
| 17:17:01           | 3.82         | 0.11         | -6.20         | -240.49   | 231.73      | 2.80        |
| 17:17:11           | 3.81         | 0.11         | -6.20         | -240.49   | 231.73      | 2.80        |
| 17:17:21           | 3.82         | 0.10         | -6.20         | -240.49   | 231.72      | 2.80        |
| 17:17:31           | 3.81         | 0.11         | -6.20         | -240.49   | 231.73      | 2.80        |
| 17:17:41           | 3.80         | 0.11         | -6.20         | -240.49   | 231.73      | 2.80        |
| Avg =              | 4.06         | 0.11         | -6.20         | -240.49   | 231.73      | 2.80        |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-15-1997 Current Time = 17:18:55

File Name = C:\CENDATA\041597.PRM Calibration File: C:\CENDATA\0415a.CAL

Test #: Resin tare+100

| 04-15-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 17:18:57           | 3.82         | 0.10         | -6.20         | -240.49   | 331.67      | 2.80        |
| 17:19:01           | 3.85         | 0.09         | -6.20         | -240.48   | 331.68      | 2.80        |
| 17:19:11           | 3.83         | 0.09         | -6.20         | -240.49   | 331.65      | 2.80        |
| 17:19:21           | 3.81         | 0.10         | -6.20         | -240.49   | 331.66      | 2.80        |
| 17:19:31           | 3.81         | 0.10         | -6.20         | -240.49   | 331.68      | 2.80        |
| 17:19:41           | 3.82         | 0.09         | -6.20         | -240.49   | 331.68      | 2.80        |
| 17:19:51           | 3.83         | 0.09         | -6.20         | -240.49   | 331.67      | 2.80        |
| Avg =              | 3.82         | 0.10         | -6.20         | -240.49   | 331.67      | 2.80        |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-15-1997 Current Time = 17:21:20

File Name = C:\CEM\DATA\041597.PRN Calibration File: C:\CEM\DATA\0415a.CAL

Test #: Resin tare+200

| 04-15-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 17:21:23           | 3.78         | 0.12         | -6.20         | -240.49   | 431.83      | 2.80        |
| 17:21:24           | 3.78         | 0.12         | -6.20         | -240.49   | 431.83      | 2.80        |
| 17:21:30           | 3.80         | 0.10         | -6.20         | -240.49   | 431.87      | 2.80        |
| 17:21:41           | 3.40         | 0.10         | -6.20         | -240.50   | 431.86      | 2.80        |
| 17:21:51           | 3.34         | 0.11         | -6.20         | -240.50   | 431.85      | 2.80        |
| 17:22:01           | 3.27         | 0.10         | -6.20         | -240.50   | 431.85      | 2.80        |
| 17:22:11           | 3.81         | 0.10         | -6.20         | -240.50   | 431.85      | 2.80        |
| 17:22:21           | 3.80         | 0.11         | -6.20         | -240.50   | 431.85      | 2.80        |
| 17:22:31           | 3.81         | 0.10         | -6.20         | -240.50   | 431.84      | 2.80        |
| 17:22:41           | 3.82         | 0.10         | -6.20         | -240.50   | 431.85      | 2.80        |
| 17:22:51           | 3.81         | 0.11         | -6.20         | -240.50   | 431.86      | 2.80        |
| 17:23:01           | 3.82         | 0.10         | -6.20         | -240.50   | 431.86      | 2.80        |
| 17:23:11           | 3.79         | 0.12         | -6.20         | -240.49   | 431.86      | 2.80        |
| 17:23:21           | 3.80         | 0.11         | -6.20         | -240.49   | 431.88      | 2.80        |
| 17:23:31           | 3.82         | 0.11         | -6.20         | -240.50   | 431.86      | 2.80        |
| Avg =              | 3.71         | 0.11         | -6.20         | -240.49   | 431.85      | 2.80        |

RADIAM CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-15-1997 Current Time = 17:24:43  
 File Name = C:\CEM DATA\041597.PRM Calibration File: C:\CEM DATA\0415a.CAL

Test #: Resin tare +250

| 04-15-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 17:24:46           | 3.84         | 0.11         | -6.20         | -240.50   | 481.82      | 2.80        |
| 17:24:47           | 3.84         | 0.11         | -6.20         | -240.50   | 481.82      | 2.80        |
| 17:24:51           | 4.82         | 0.13         | -6.20         | -240.47   | 481.83      | 2.80        |
| 17:25:01           | 4.79         | 0.13         | -6.20         | -240.50   | 481.82      | 2.80        |
| 17:25:11           | 4.83         | 0.11         | -6.20         | -240.50   | 481.81      | 2.80        |
| 17:25:21           | 4.36         | 0.13         | -6.20         | -240.50   | 481.82      | 2.80        |
| 17:25:31           | 4.79         | 0.12         | -6.20         | -240.50   | 481.83      | 2.80        |
| 17:25:41           | 4.81         | 0.12         | -6.20         | -240.50   | 481.82      | 2.80        |
| Avg =              | 4.51         | 0.12         | -6.20         | -240.49   | 481.82      | 2.80        |

**April 16, 1997**

**Resin Scale Audit**

**Styrene Audit (4)**

**Propane Audits**

**0416-01/NMMA-16-2: 18-ft Deck 42% Styrene Resin Flow Coat**

**0416-02/NMMA-15-2: 18-ft Hull 42% Styrene Resin Flow Coat**



DAILY SPRAY EQUIPMENT CALIBRATION

Date: 4-16-97

Initial: Larry Dargitz

Spray Gun: \_\_\_\_\_

Resin Flow Calibration (15-second evaluation)

|                | Pre-Test | Post-Test |
|----------------|----------|-----------|
| Run 1 Mass (g) | 771      | 768       |
| Run 2 Mass (g) |          |           |
| Run 3 Mass (g) |          |           |
| Average        |          |           |

Resin:Glass Ratio

|                |      |  |
|----------------|------|--|
| Mass resin (g) | 317  |  |
| Mass glass (g) | 162  |  |
| TOTAL          | 479  |  |
| Percent glass  | 33.8 |  |

| Material     | Drum No. | Gel Time (min) | Catalyst % Vol. | Setting |
|--------------|----------|----------------|-----------------|---------|
| Gelcoat      |          |                |                 |         |
| Resin (skin) | 3        |                |                 |         |
| Resin (lam)  |          |                |                 |         |

Thickness Checks

| Run                | 1 | 2 | 3 | 4 | 5 |
|--------------------|---|---|---|---|---|
| Deck 60 mil skin   |   |   |   |   |   |
| 150 mil            |   |   |   |   |   |
| Hull 90 mil skin   |   |   |   |   |   |
| 60 mil Rov         |   |   |   |   |   |
| Bottom 100 mil Rov |   |   |   |   |   |
| 60 mil Rov         |   |   |   |   |   |
| side and Transom   |   |   |   |   |   |

DAILY GAS CHROMATOGRAPHY LOG

Date: 4/16/97

Initial: DD

Run 04/16-01

Test NMMA- ~~018~~ -2: 18' deck 42% FC

Pre 04/16-01  
"CALC"

04/16-01  
NMMA-16-2

end

"OMIT"  
FROM  
QC

| Run No. | Time    | Comments           | THC             | MMA Area | Styrene Area |
|---------|---------|--------------------|-----------------|----------|--------------|
| 879     | 0650    | Ø Air              |                 |          | —            |
| 880     | 0700    | Ø Air              |                 |          | —            |
| 881     | 0738    | 59.2 sty 4.352     |                 |          | 4915139      |
| 882     | 0742    | 122 sty 59.2 4.362 |                 |          | 4863680      |
| 883     | 0742    | 122 sty 4.350      |                 |          | 10774440     |
| 884     | 0748    | 122 sty 4.360      |                 |          | 9171008      |
| 885     | 0758    | 122 4.356          |                 |          | 10341320     |
| 886     | 0812    | 122 4.351          |                 |          | 10572206     |
| 887     | 0935    | 1                  | 82              |          | 2250389      |
| 888     | 0943    | 2                  | 233             |          | 7025201      |
| 889     | 0954    | 3                  | 194             |          | 4967596      |
| 890     | 1014    | 4                  | 125             |          | 4360362      |
| 891     | 1023    | 5                  | 93              |          | 34328362     |
| 892     | 1035    | 6                  | 223             |          | 3327066      |
| 893     | 1041    | 7                  | 368             |          | 2804412      |
| 894     | 1047    | 8                  | 267             |          | 2804917      |
| 895     | 1054    | 9                  | 205             |          | 6735869      |
| 896     | 1103    | 10                 | 162             |          | 416735869    |
| 897     | 1111    | 11                 | 123             |          | 4537888      |
| 898     | 1111    | 12                 | 76              |          | 9537888      |
| 899     | 1125.18 | 13                 | 43              |          | 6764222      |
| 900     | 1125    | 14                 | ~29             |          | 6764220      |
| 901     | 1131    | 15                 | 2826            |          | 5884938      |
| 902     | 1138    | 16                 | 17              |          | 7088930      |
| 903     | 1146    | 17                 | 11              |          | 4044430      |
| 904     | 1153    | 18                 | 8               |          | 4044436      |
| 905     | 1200    | 59.2 48.340        |                 |          | 4956816      |
| 906     | 1210    | 59.2 48.343        |                 |          | 4988835      |
| 907     | 1219    | 122 48.348         |                 |          | 4990438      |
| 908     | 1228    | 122 48.340         | Way high - inj? |          | 14172152     |
| 909     | 1238    | 122 4.338          |                 |          | 11932992     |
| 910     | 1248    | Ø 4.323            |                 |          | 660          |
| 911     | 1254    | 122 4.341          |                 |          | 11027728     |
| 912     | 1305    | 122                |                 |          | 10367112     |

Sample  
Post 1100P  
"Seems" faulty.  
Purged & recal.

122

DAILY GAS CHROMATOGRAPHY LOG

Date: 4/16/97

Initial: DD

Run 0416-02

Test NMMA-15-2 18' hull 42% FC

START  
0416-02

| Run No. | Time | Comments          | THC | MMA Area | Styrene Area |
|---------|------|-------------------|-----|----------|--------------|
| 913     | 1324 | 1 (bgnd)          | 2.7 |          | 65781        |
| 914     | 1336 | 2 (late start)    | 104 |          | 2897704      |
| 915     | 1342 | 3                 |     |          | 4461978      |
| 916     | 1350 | 4                 | 234 |          | 6706013      |
| 917     | 1356 | 5                 | 143 |          | 3824701      |
| 918     | 1403 | 6                 | 120 |          | 2074794      |
| 919     | 1415 | 7                 | 101 |          | 3010485      |
| 920     | 1421 | 8                 | 184 |          | 5310560      |
| 921     | 1428 | 9 (late start)    | 290 |          | 7218458      |
| 922     | 1434 | 10                | 170 |          | 3705642      |
| 923     | 1440 | 11                | 143 |          | 4085200      |
| 924     | 1455 | 12                | 256 |          | 6429534      |
| 925     | 1501 | 13                | 209 |          | 4903136      |
| 926     | 1509 | 14                | 149 |          | 4334771      |
| 927     | 1519 | 15                | 104 |          | 2799413      |
| 928     | 1524 | 16                | 68  |          | 1686089      |
| 929     | 1535 | 17                | 36  |          | 1059186      |
| 930     | 1541 | 18                | 22  |          | 627535       |
| 931     | 1548 | 19                | 15  |          | 423460       |
| 932     | 1558 | 20                | 10  |          | 234399       |
| 933     | 1606 | Ø Air 4.343       |     |          | 3379         |
| 934     | 1613 | Ø Air             |     |          |              |
| 935     | 1622 | 122 styrene 4.357 |     |          | 16505456     |
| 936     | 1628 | 122 4.358         |     |          | 10076096     |
| 937     | 1640 | SA.2 4.355        |     |          | 4985315      |
| 938     | 1647 | SA.2 4.355        |     |          | 5178906      |
|         |      |                   |     |          |              |
|         |      |                   |     |          |              |
|         |      |                   |     |          |              |
|         |      |                   |     |          |              |
|         |      |                   |     |          |              |
|         |      |                   |     |          |              |
|         |      |                   |     |          |              |
|         |      |                   |     |          |              |
|         |      |                   |     |          |              |
|         |      |                   |     |          |              |

END

\* RUN # 879 APR 16, 1997 06:50:24  
START

0.271  
0.574  
0.648  
1.195

STOP

RUN# 879 APR 16, 1997 06:50:24

NO CALIB PEAKS FOUND

AREA%

| RT    | AREA  | TYPE | WIDTH | AREA%    |
|-------|-------|------|-------|----------|
| .271  | 31824 | BU   | .149  | 21.32304 |
| .574  | 14269 | PV   | .021  | 9.56066  |
| .648  | 32448 | UU   | .098  | 21.74114 |
| 1.195 | 70706 | UU   | .270  | 47.37515 |

TOTAL AREA= 149247

MUL FACTOR=1.0000E+00

\* RUN # 880 APR 16, 1997 07:00:01  
START

0.365  
0.575  
0.651  
1.201  
1.586

STOP

RUN# 880 APR 16, 1997 07:00:01

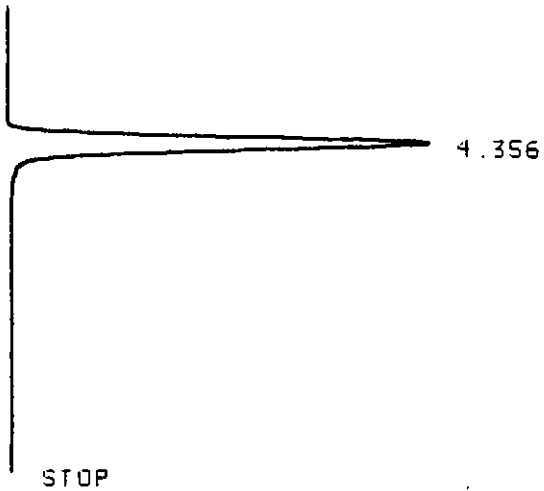
NO CALIB PEAKS FOUND  
AREA%

| RT    | AREA  | TYPE | WIDTH | AREA%    |
|-------|-------|------|-------|----------|
| .365  | 90595 | BP   | .393  | 35.60120 |
| .575  | 14146 | PV   | .021  | 5.10791  |
| .651  | 32430 | UU   | .099  | 11.70999 |
| .890  | 57399 | UU   | .183  | 20.72593 |
| 1.201 | 56362 | UU   | .257  | 20.35148 |
| 1.586 | 18011 | UU   | .134  | 6.50351  |

TOTAL AREA= 276943  
MUL FACTOR=1.0000E+00

\* RUN # 881 APR 16, 1997 07:20:50  
START

0.365  
0.575

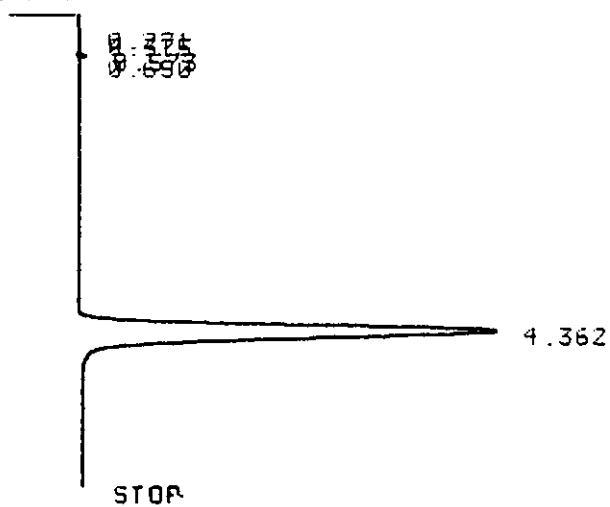


RUN# 881 APR 16, 1997 07:20:50

| ESTD-AREA | RT    | AREA TYPE | CAL# | AMOUNT |
|-----------|-------|-----------|------|--------|
|           | 4.356 | 4915139   | PB 2 | 48.660 |

TOTAL AREA=5032877  
MUL FACTOR=1.0000E+00

\* RUN # 882 APR 16, 1997 07:30:27  
START

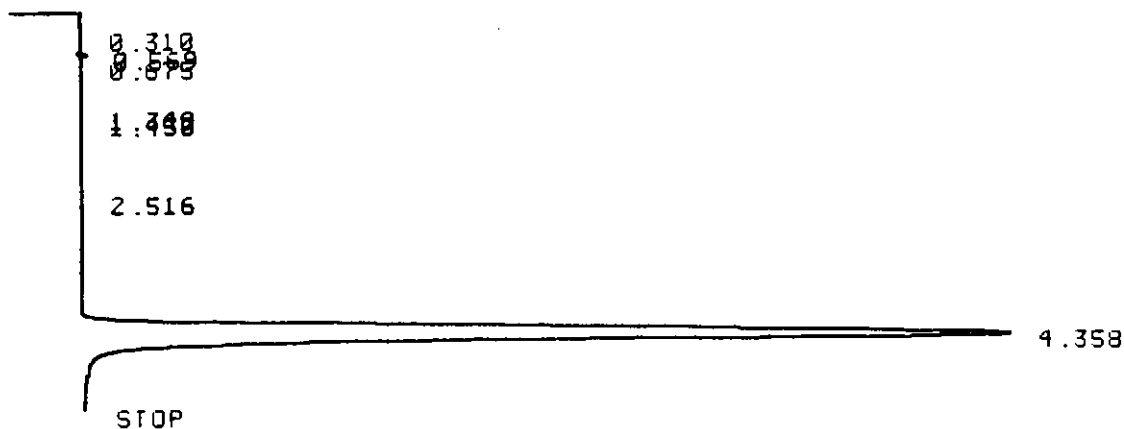


RUN# 882 APR 16, 1997 07:30:27

| ESTD-AREA | RT    | AREA TYPE | CAL# | AMOUNT |
|-----------|-------|-----------|------|--------|
|           | 4.362 | 4863680   | PB 2 | 48.150 |

TOTAL AREA=4955363  
MUL FACTOR=1.0000E+00

• RUN # 883 APR 16, 1997 07:42:00  
START



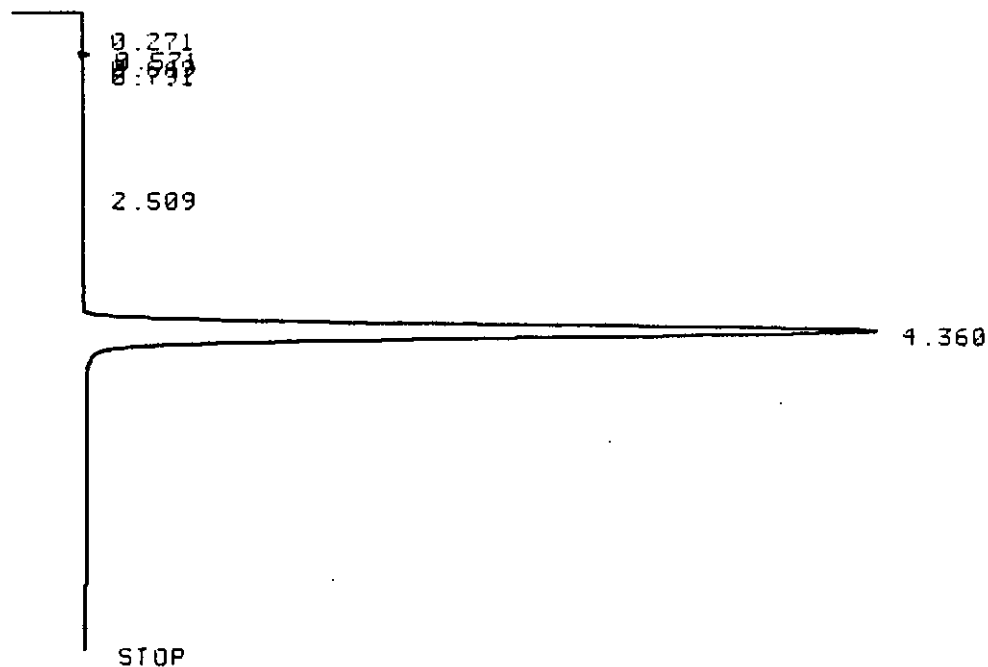
RUN# 883 APR 16, 1997 07:42:00

ESTD-AREA

| RT    | AREA     | TYPE | CAL# | AMOUNT  |
|-------|----------|------|------|---------|
| 4.350 | 10776440 | PO   | 2    | 106.687 |

TOTAL AREA=1.0881E+07  
MUL FACTOR=1.0000E+00

\* RUN # 884 APR 16, 1997 07:40:02  
START



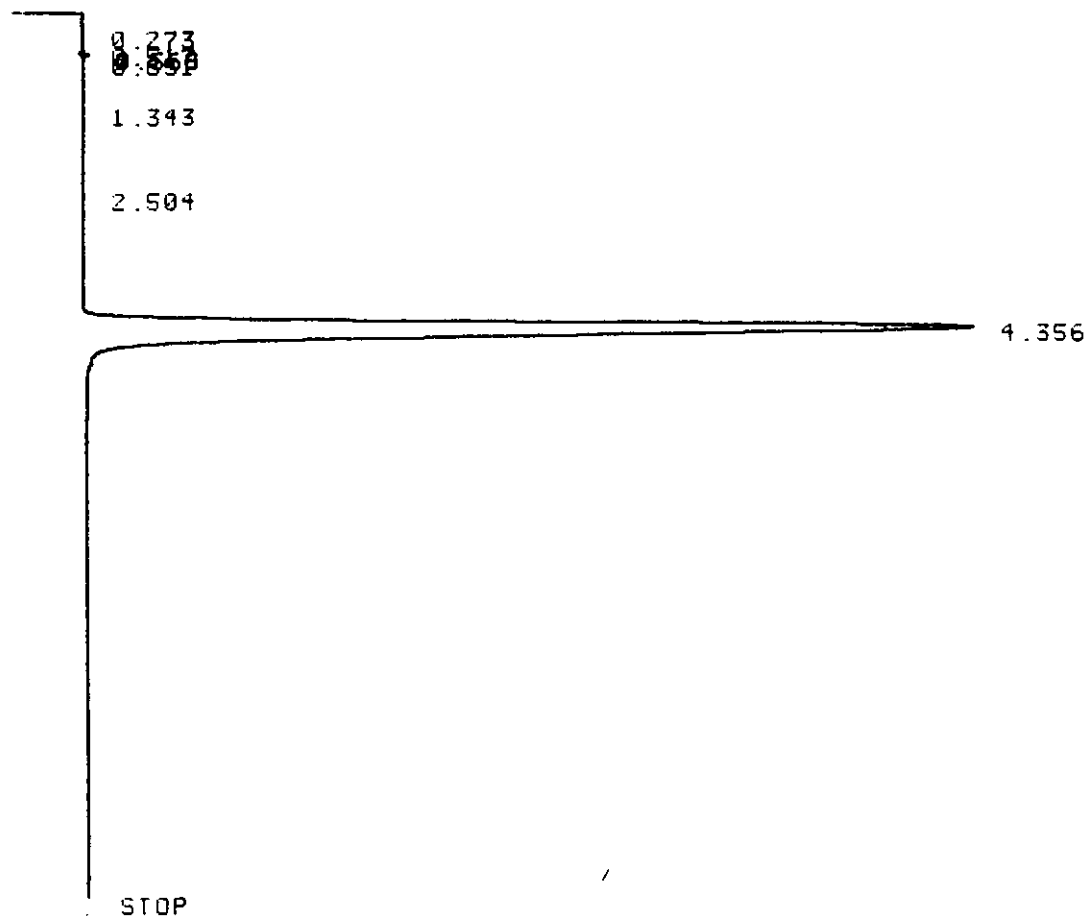
RUN# 884 APR 16, 1997 07:48:02

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.360 | 9171008 | PO   | 2    | 90.793 |

TOTAL AREA=3.3171E+06

\* RUN # 885 APR 16, 1997 07:50:29  
START



STOP

RUN# 885 APR 16, 1997 07:58:29

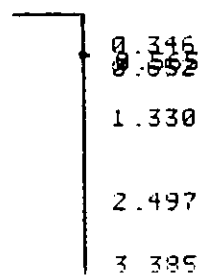
ESTD-AREA

| RT    | AREA     | TYPE | CAL# | AMOUNT  |
|-------|----------|------|------|---------|
| 4.356 | 10341320 | PB   | 2    | 102.379 |

TOTAL AREA=1.0416E+07

MUL FACTOR=1.0000E+00

\* RUN # 886 APR 16, 1997 08:12:29  
START



3.385



STOP

RUN# 886 APR 16, 1997 08:12:29

ESTD-AREA

| RT    | AREA     | TYPE | CALC | AMOUNT  |
|-------|----------|------|------|---------|
| 4.351 | 10572256 | PB   | 2    | 104.600 |

TOTAL AREA=1.0712E+07  
 MUL FACTOR=1.0000E+00

\* RUN # 887 APR 16, 1997 09:35:40  
 START

0.275  
 0.6541  
 1.114  
 1.455  
 1.791

2.820

4.348

STOP

0416-01  
 NMM-16-2  
 18' Deck 42% FC

RUN# 887 APR 16, 1997 09:35:40

ESTD-AREA

| RT    | AREA    | TYPE | CALC | AMOUNT |
|-------|---------|------|------|--------|
| 4.348 | 2250389 | BB   | 2    | 22.358 |

TOTAL AREA=2430413  
 MUL FACTOR=1.0000E+00

\* RUN # 888 APR 16, 1997 09:43:31  
 START

0.188  
006596  
0.0062  
1.443  
1.788  
2.499  
2.812

4.341

STOP

RUN# 888 APR 16, 1997 09:13:31

| ESTD-AREA | RT    | AREA TYPE  | CAL# | AMOUNT |
|-----------|-------|------------|------|--------|
|           | 4.341 | 7025261 PQ | 2    | 69.558 |

TOTAL AREA=7331565  
MUL FACTOR=1.0000E+00

\* RUN # 889 APR 16, 1997 09:54:11  
START: not ready

0.274  
006524  
0.956  
1.188  
1.455  
1.938  
2.825

4.350

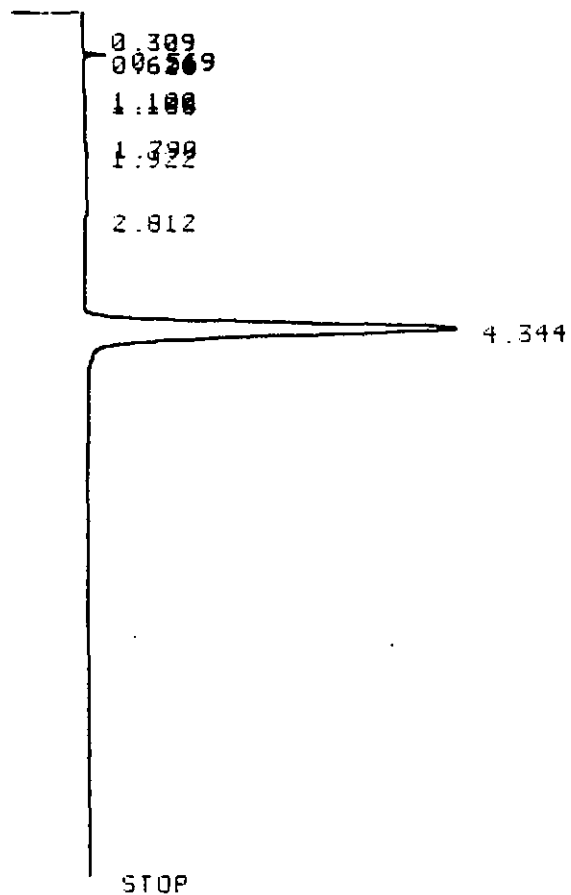
STOP

RUN# 889 APR 16, 1997 09:51:11

| ESTD-AREA | RT    | AREA TYPE  | CAL# | AMOUNT |
|-----------|-------|------------|------|--------|
|           | 1.938 | 24871 UU   | 1    | 1.045  |
|           | 4.350 | 4967098 PB | 2    | 49.182 |

TOTAL AREA=5218758  
MUL FACTOR=1.0000E+00

\* RUN # 890 APR 16, 1997 10:02:27  
START



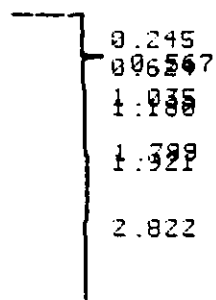
RUN# 890 APR 16, 1997 10:02:27

ESTD-AREA

| RT    | AREA    | TYPE | CALC# | AMOUNT |
|-------|---------|------|-------|--------|
| 1.922 | 23664   | UU   | 1     | .994   |
| 4.344 | 4328362 | PO   | 2     | 42.851 |

TOTAL AREA=4523280  
MUL FACTOR=1.0000E+00

\* RUN # 891 APR 16, 1997 10:14:41  
START



4.341

STOP

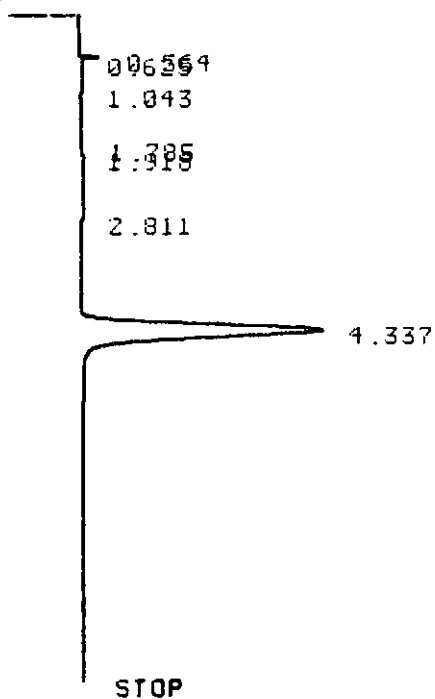
RUN# 891 APR 16, 1997 10:14:41

ESTD-AREA

| RT    | AREA    | TYPE | CALC | AMOUNT |
|-------|---------|------|------|--------|
| 1.921 | 4224    | UP   | 1    | .177   |
| 4.341 | 3327660 | PB   | 2    | 32.944 |

TOTAL AREA=3407106  
MULT FACTOR=1.0000E+00

\* RUN # 892 APR 16, 1997 10:23:40  
START



STOP

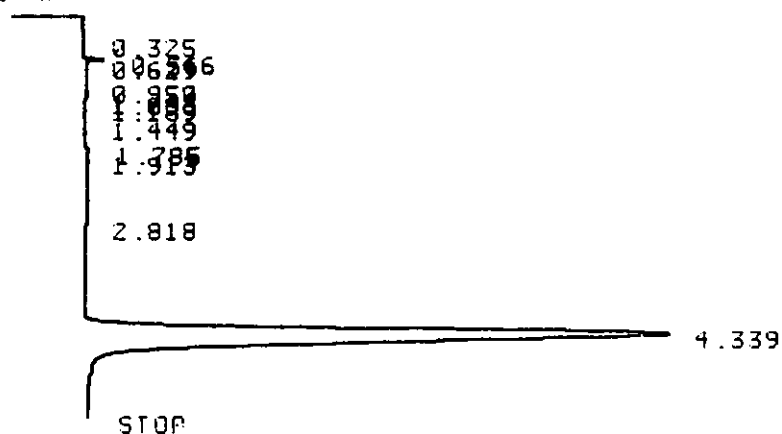
RUN# 892 APR 16, 1997 10:23:40

ESTD-AREA

| RT    | AREA    | TYPE | CALC | AMOUNT |
|-------|---------|------|------|--------|
| 1.918 | 9205    | UU   | 1    | .387   |
| 4.337 | 2804912 | PB   | 2    | 27.769 |

TOTAL AREA=2935022  
MULT FACTOR=1.0000E+00

\* RUN # 893      APR 16, 1997 10:35:23  
START



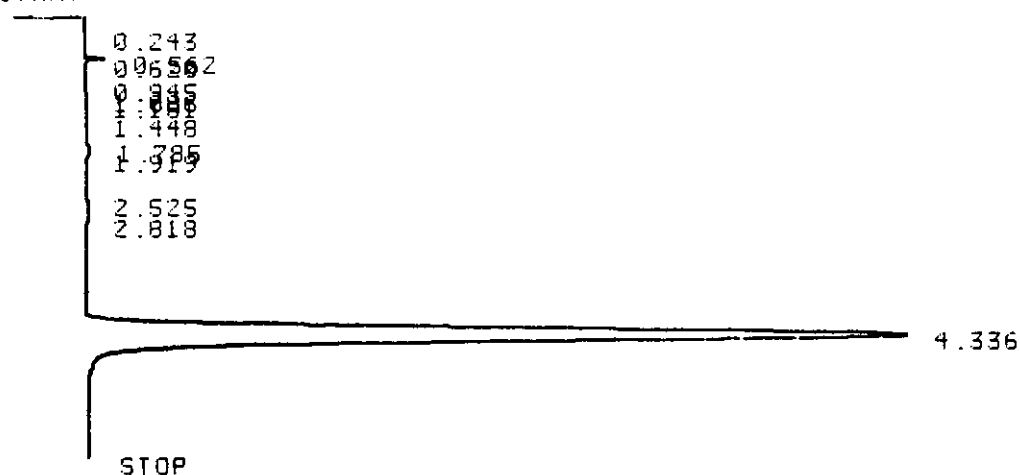
RUN# 893      APR 16, 1997 10:35:23

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.913 | 23595   | UU   | 1    | .991   |
| 4.339 | 6735069 | PB   | 2    | 66.085 |

TOTAL AREA=6991890  
MUL FACTOR=1.0000E+00

\* RUN # 894      APR 16, 1997 10:41:11  
START



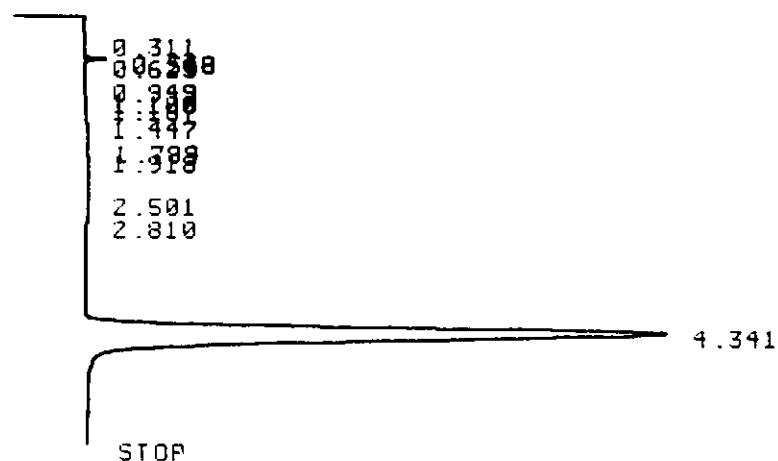
RUN# 894      APR 16, 1997 10:41:11

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.919 | 26292   | UU   | 1    | 1.104  |
| 4.336 | 9537888 | PB   | 2    | 94.425 |

TOTAL AREA=9.0461E+06  
MUL FACTOR=1.0000E+00

\* RUN # 895      APR 16, 1997 10:47:40  
START



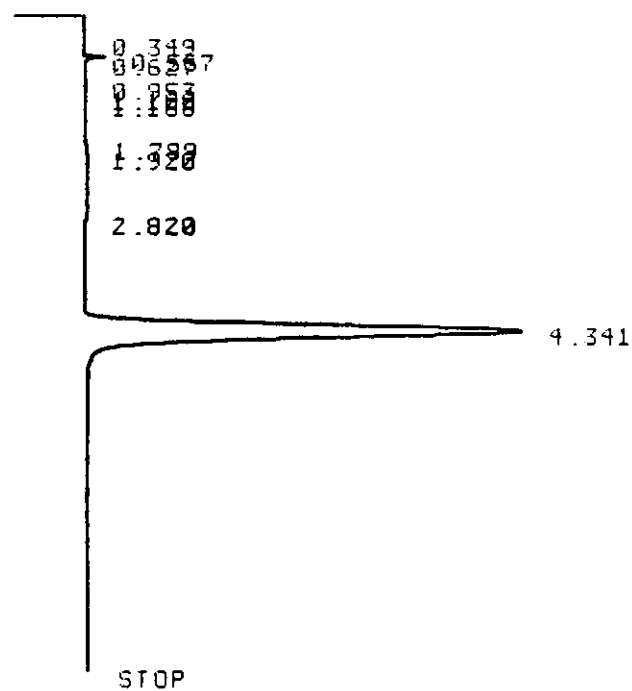
RUN# 895      APR 16, 1997 10:47:40

ESTD-AREA

| RT    | AREA    | TYPE | CALC | AMOUNT |
|-------|---------|------|------|--------|
| 1.918 | 29835   | UU   | 1    | 1.245  |
| 4.341 | 6764320 | PB   | 2    | 66.967 |

TOTAL AREA=7059000  
MUL FACTOR=1.0000E+00

\* RUN # 896      APR 16, 1997 10:54:32  
START

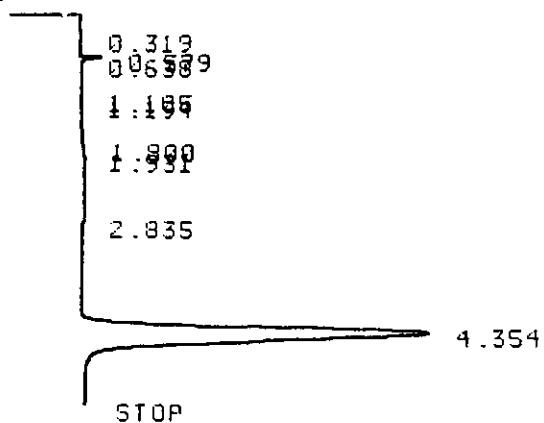


RUN# 896      APR 16, 1997 10:54:32

| ESTD-AREA |         | AREA TYPE | CALC | AMOUNT |
|-----------|---------|-----------|------|--------|
| RT        |         |           |      |        |
| 1.920     | 11593   | UU        | 1    | .487   |
| 4.341     | 5089030 | PB        | 2    | 50.390 |

TOTAL AREA=5292067  
 MUL FACTOR=1.0000E+00

\* RUN # 897 APR 16, 1997 11:03:48  
 START

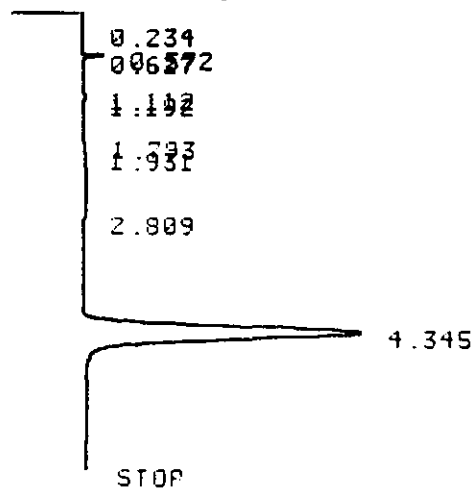


RUN# 897 APR 16, 1997 11:03:48

| ESTD-AREA |         | AREA TYPE | CALC | AMOUNT |
|-----------|---------|-----------|------|--------|
| RT        |         |           |      |        |
| 1.931     | 20460   | UU        | 1    | .860   |
| 4.354     | 4043446 | PB        | 2    | 40.030 |

TOTAL AREA=4233597  
 MUL FACTOR=1.0000E+00

\* RUN # 898 APR 16, 1997 11:11:44  
 START



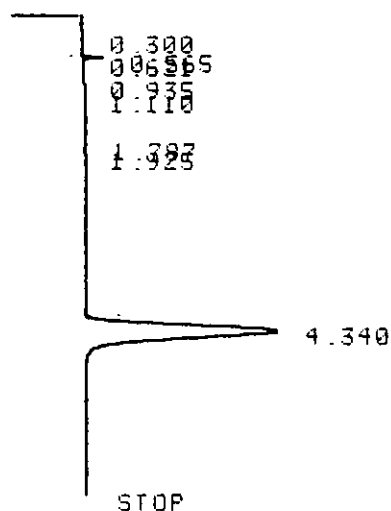
RUN# 390 APR 16, 1997 11:11:44

ESTD-AREA

| RT    | AREA    | TYPE | CALC# | AMOUNT |
|-------|---------|------|-------|--------|
| 1.931 | 23163   | UV   | 1     | .973   |
| 4.345 | 3238229 | PA   | 2     | 33.050 |

TOTAL AREA=3422325  
MUL FACTOR=1.0000E+00

\* RUN # 390 APR 16, 1997 11:18:25  
START



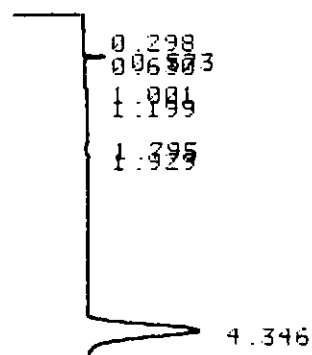
RUN# 399 APR 16, 1997 11:18:25

ESTD-AREA

| RT    | AREA    | TYPE | CALC# | AMOUNT |
|-------|---------|------|-------|--------|
| 1.925 | 17963   | UV   | 1     | .754   |
| 4.340 | 2281882 | PA   | 2     | 22.591 |

TOTAL AREA=2466630  
MUL FACTOR=1.0000E+00

\* RUN # 900 APR 16, 1997 11:25:24  
START





STOP

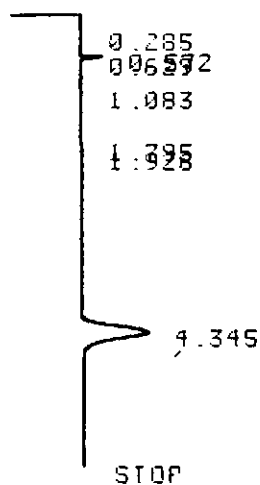
RUN# 900 APR 16, 1997 11:25:24

ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT |
|-------|------------|------|--------|
| 1.929 | 4637 UP    | 1    | .195   |
| 4.346 | 1333417 BU | 2    | 13.291 |

TOTAL AREA=1416397  
MUL FACTOR=1.0000E+00

\* RUN # 901 APR 16, 1997 11:31:48  
START



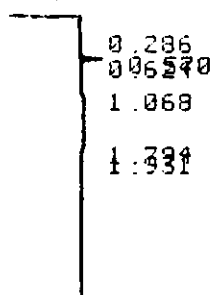
RUN# 901 APR 16, 1997 11:31:48

ESTD-AREA

| RT    | AREA TYPE | CAL# | AMOUNT |
|-------|-----------|------|--------|
| 1.926 | 4973 UU   | 1    | .209   |
| 4.345 | 777327 PB | 2    | 7.696  |

TOTAL AREA= 865994  
MUL FACTOR=1.0000E+00

\* RUN # 902 APR 16, 1997 11:38:39  
START



4.344

STOP

RUN# 902 APR 16, 1997 11:38:39

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.931 | 4251   | UP   | 1    | .179   |
| 4.344 | 482342 | BB   | 2    | 4.775  |

TOTAL AREA= 567769

MUL FACTOR=1.0000E+00

\* RUN # 903 APR 16, 1997 11:46:45

START

0.305  
0.6576  
0.925

1.338

4.350

STOP

RUN# 903 APR 16, 1997 11:46:45

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.931 | 3910   | UP   | 1    | .164   |
| 4.350 | 289874 | BU   | 2    | 2.870  |

TOTAL AREA= 327022

MUL FACTOR=1.0000E+00

\* RUN # 904 APR 16, 1997 11:53:14

START

0.769

0.910  
1.335  
4.352  
STOP

RUN# 904 APR 16, 1997 11:53:14

| ESTD-AREA |        |      |      |        |
|-----------|--------|------|------|--------|
| RT        | AREA   | TYPE | CAL# | AMOUNT |
| 1.033     | 3600   | UP   | 1    | .151   |
| 4.352     | 204634 | BP   | 2    | 2.028  |

TOTAL AREA= 301614  
MUL FACTOR=1.0000E+00

\* RUN # 905 APR 16, 1997 12:00:56  
START

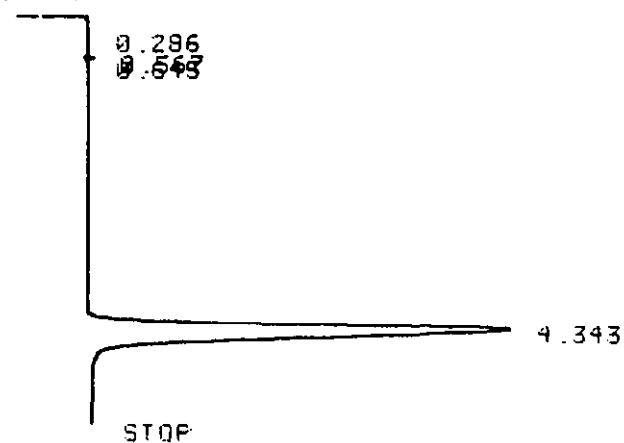
0.367  
0.587  
4.340  
STOP

RUN# 905 APR 16, 1997 12:00:56

| ESTD-AREA |         |      |      |        |
|-----------|---------|------|------|--------|
| RT        | AREA    | TYPE | CAL# | AMOUNT |
| 4.340     | 4956816 | BP   | 2    | 19.072 |

TOTAL AREA=5053941

\* RUN # 906 APR 16, 1997 12:10:49  
START



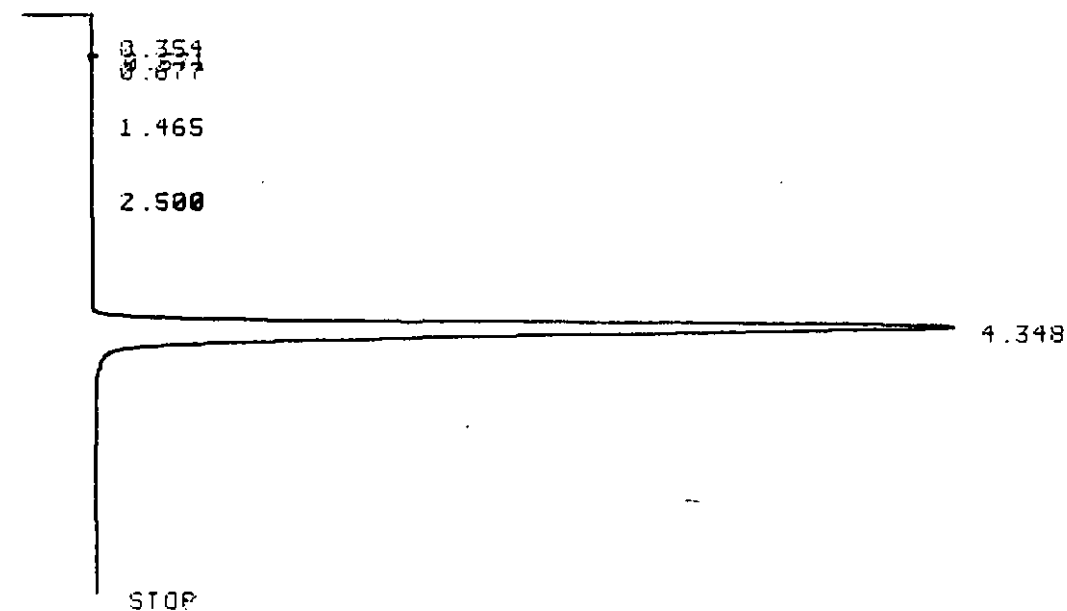
RUN# 906 APR 16, 1997 12:10:49

ESTD-AREA

| RT    | AREA    | TYPE | CALC | AMOUNT |
|-------|---------|------|------|--------|
| 4.343 | 4888839 | PG   | 2    | 48.390 |

TOTAL AREA=4908419  
MUL FACTOR=1.0000E+00

\* RUN # 907 APR 16, 1997 12:19:46  
START

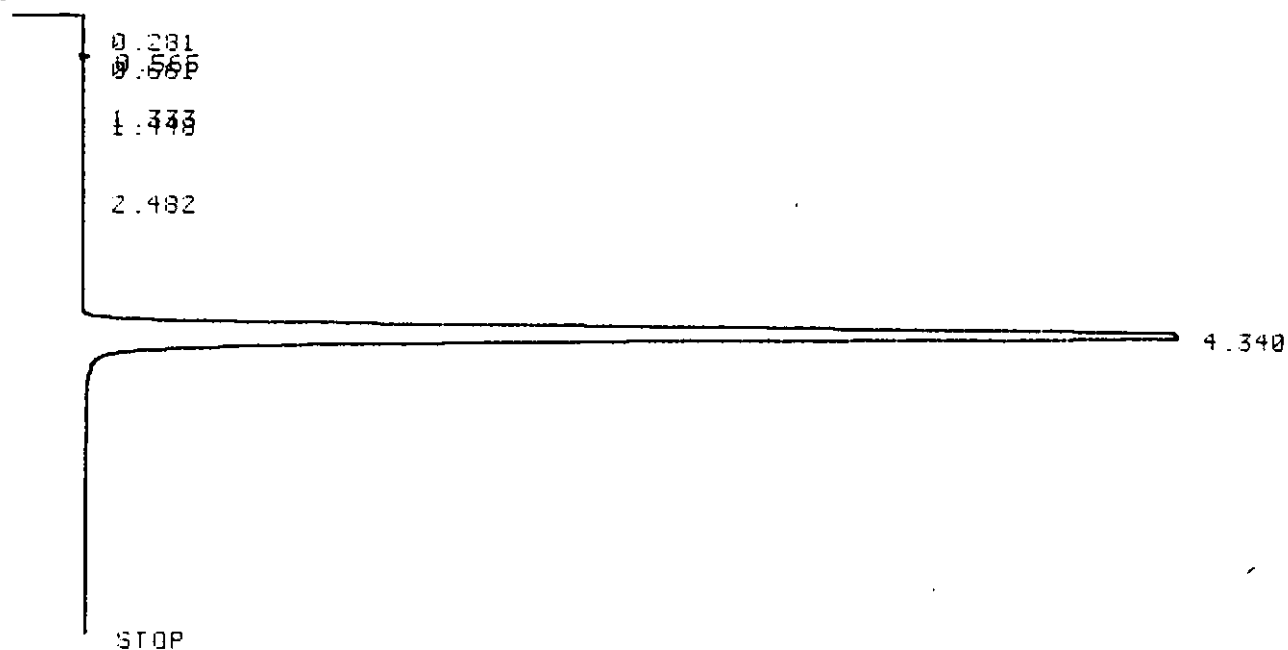


RUN# 907 APR 16, 1997 12:19:46

| RT    | AREA    | TYPE | CALC# | AMOUNT |
|-------|---------|------|-------|--------|
| 4.348 | 9990433 | P8   | 2     | 98.905 |

TOTAL AREA=1.0098E+07  
 MUL FACTOR=1.0000E+00

\* RUN # 908 APR 16, 1997 12:28:58  
 START



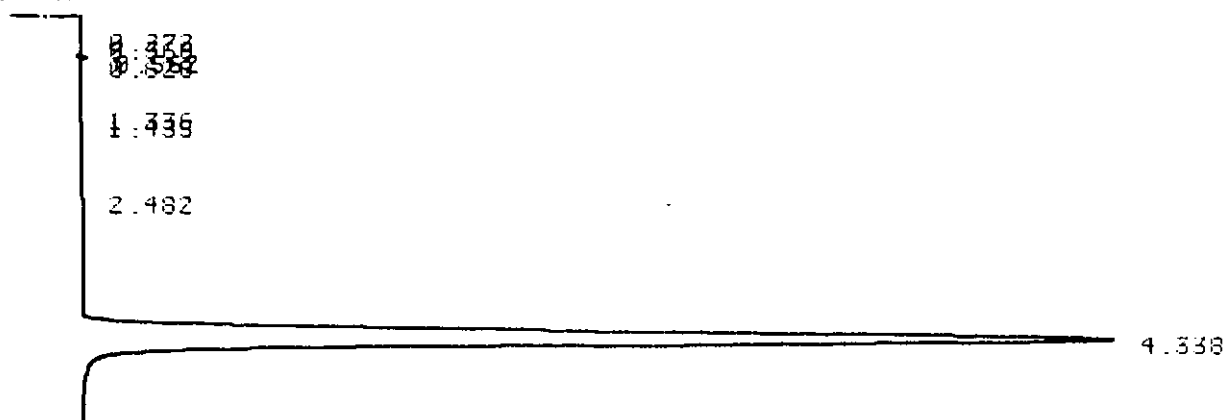
RUN# 908 APR 16, 1997 12:28:58

ESTD-AREA

| RT    | AREA     | TYPE | CALC# | AMOUNT  |
|-------|----------|------|-------|---------|
| 4.340 | 14172152 | P8   | 2     | 140.304 |

TOTAL AREA=1.4526E+07  
 MUL FACTOR=1.0000E+00

\* RUN # 909 APR 16, 1997 12:38:26  
 START



STOP

RUN# 907 APR 16, 1997 12:38:26

ESTD-AREA

| RT    | AREA     | TYPE | CALC | AMOUNT  |
|-------|----------|------|------|---------|
| 4.338 | 11932992 | PS   | 2    | 118.137 |

TOTAL AREA=1.2072E+07  
MUL FACTOR=1.0000E+00

\* RUN # 910 APR 16, 1997 12:48:37

START

0.370  
0.652  
  
4.323  
  
STOP

RUN# 910 APR 16, 1997 12:48:37

ESTD-AREA

| RT    | AREA | TYPE | CALC | AMOUNT |
|-------|------|------|------|--------|
| 4.323 | 660  | PV   | 2    | 007    |

TOTAL AREA= 112661  
MUL FACTOR=1.0000E+00

\* RUN # 911 APR 16, 1997 12:54:59

START

0.276  
0.545  
  
1.445  
  
2.460

4.341

STOP

RUN# 911 APR 16, 1997 12:51:59

| ESTD-AREA | RT       | AREA TYPE | CAL# | AMOUNT  |
|-----------|----------|-----------|------|---------|
| 4.341     | 11027728 | PS        | 2    | 109.174 |

TOTAL AREA=1.1100E+07  
MUL FACTOR=1.0000E+00

\* RUN # 912 APR 16, 1997 13:05:58  
START

0.458  
0.599  
1.329  
2.496

4.340

STOP

RUN# 912 APR 16, 1997 13:05.58

| ESTD-AREA | RT       | AREA TYPE | CAL# | AMOUNT  |
|-----------|----------|-----------|------|---------|
| 4.340     | 10367112 | PS        | 2    | 102.034 |

TOTAL AREA=1.0517E+07  
MUL FACTOR=1.0000E+00

\* RUN # 913 APR 16, 1997 13:24:13

0416-02  
NMMMA-15.2  
16' H<sub>2</sub>O 129% FC

0.330  
006282

1.930

4.349

STOP

RUN# 913 APR 16, 1997 13:24:13

ESTD-AREA

| RT    | AREA  | TYPE | CHL# | AMOUNT |
|-------|-------|------|------|--------|
| 1.930 | 17030 | UU   | 1    | .715   |
| 4.349 | 65781 | PU   | 2    | .651   |

TOTAL AREA= 167471  
MUL FACTOR=1.0000E+00

\* RUN # 914 APR 16, 1997 13:36:47

START

0.02340  
0.02340  
0.02340  
1.125  
1.068

2.497

4.017

STOP

RUN# 914 APR 16, 1997 13:36:47

NO CALIB PEAKS FOUND

AREAX

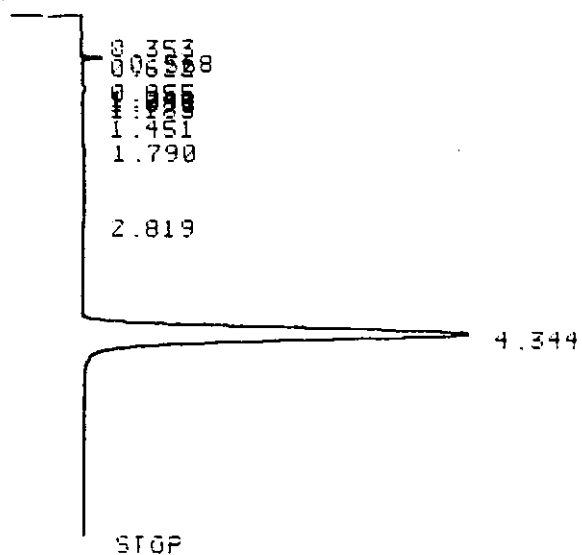
| RT   | AREA  | TYPE | WIDTH | AREAX   |
|------|-------|------|-------|---------|
| .240 | 31955 | BU   | .024  | 1.04106 |
| .295 | 20353 | UU   | .045  | .06359  |
| .628 | 16774 | UU   | .104  | .54690  |
| .768 | 26964 | UU   | .166  | .07913  |



|       |         |    |      |          |
|-------|---------|----|------|----------|
| 1.125 | 17715   | UU | .145 | .57758   |
| 1.464 | 24218   | UU | .157 | .78900   |
| 1.588 | 11535   | UU | .137 | .37609   |
| 2.497 | 3605    | UP | .152 | .11940   |
| 4.017 | 2897704 | FB | .207 | 91.47926 |

TOTAL AREA=3067112  
MUL FACTOR=1.0000E+00

\* RUN # 915 APR 16, 1997 13:42:34  
START



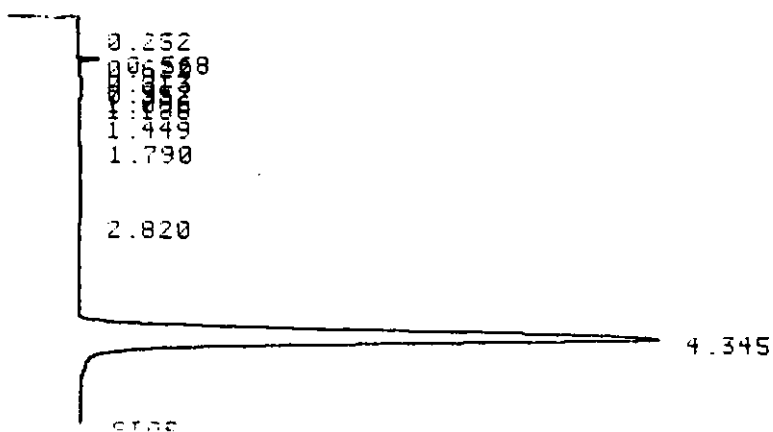
RUN# 915 APR 16, 1997 13:42:34

ESTD-AREA

| RT    | AREA    | TYPE | CALC | AMOUNT |
|-------|---------|------|------|--------|
| 4.344 | 4461978 | FB   | 2    | 44.174 |

TOTAL AREA=4461978  
MUL FACTOR=1.0000E+00

\* RUN # 916 APR 16, 1997 13:50:16  
START



RUN# 916 APR 16, 1997 13:50:16

ESTD-AREA

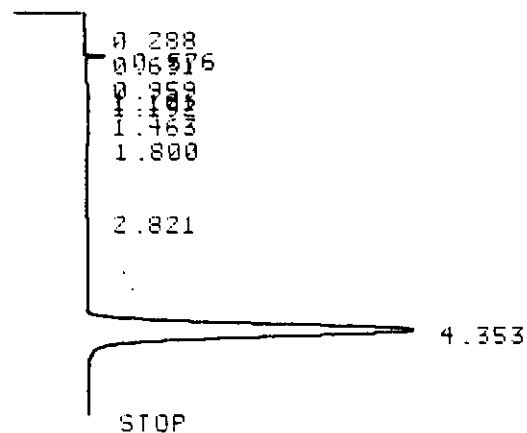
| RT    | AREA TYPE | CALC | AMOUNT |
|-------|-----------|------|--------|
| 1.345 | 6706013   | PB 2 | 66.390 |

TOTAL AREA=6923139

MUL FACTOR=1.0000E+00

+ RUN # 917 APR 16, 1997 13:56:16

START



STOP

RUN# 917 APR 16, 1997 13:56:16

ESTD-AREA

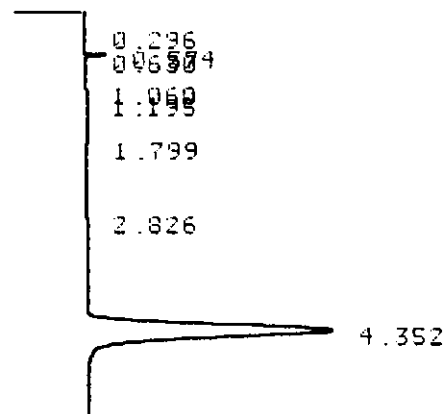
| RT    | AREA TYPE | CALC | AMOUNT |
|-------|-----------|------|--------|
| 4.353 | 3824704   | PB 2 | 37.865 |

TOTAL AREA=4022463

MUL FACTOR=1.0000E+00

+ RUN # 918 APR 16, 1997 14:03:37

START



STOP

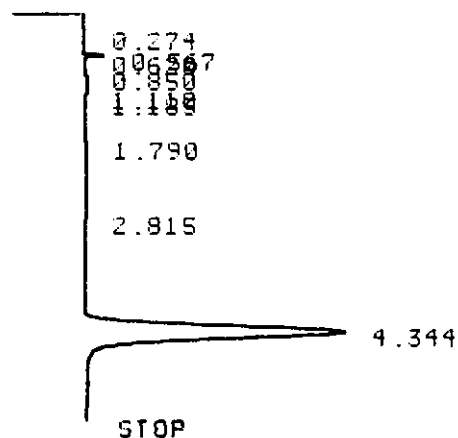
RUN# 918 APR 16, 1997 14:03:37

ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT |
|-------|------------|------|--------|
| 4.352 | 2074734 PB | 2    | 28.460 |

TOTAL AREA=2951174  
MUL FACTOR=1.0000E+00

\* RUN # 919 APR 16, 1997 14:15:23  
START



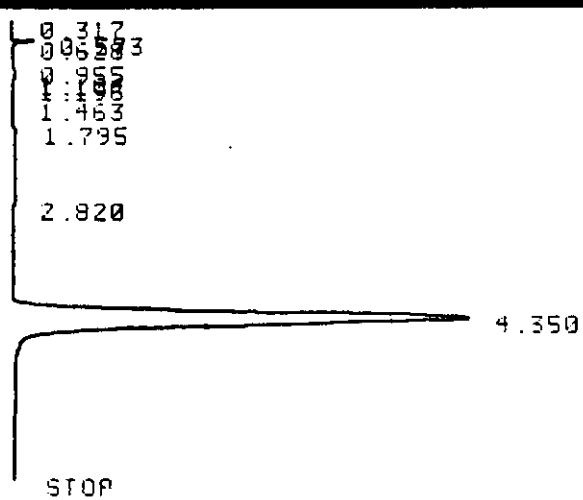
RUN# 919 APR 16, 1997 14:15:23

ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT |
|-------|------------|------|--------|
| 4.344 | 3010485 PB | 2    | 29.804 |

TOTAL AREA=3156405  
MUL FACTOR=1.0000E+00

\* RUN # 920 APR 16, 1997 14:21:49  
START



RUN# 920 APR 16, 1997 14:21:49

ESTD-AREA

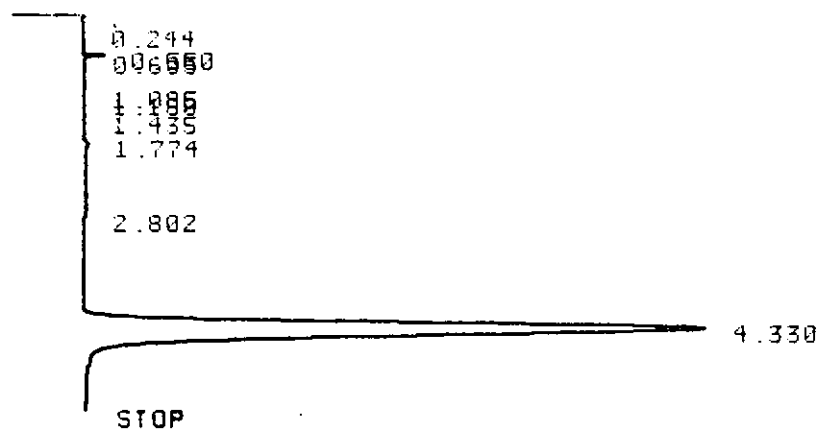
| RT    | AREA    | TYPE | CHL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.350 | 5310560 | P9   | 2    | 52.575 |

TOTAL AREA=5544186

MUL FACTOR=1.0000E+00

\* RUN # 921 APR 16, 1997 14:28:35

START



RUN# 921 APR 16, 1997 14:28:35

ESTD-AREA

| RT    | AREA    | TYPE | CHL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.330 | 7210458 | B8   | 2    | 71.463 |

TOTAL AREA=7325293

MUL FACTOR=1.0000E+00

\* RUN # 922 APR 16, 1997 14:34:25

0.233  
006509  
1.033  
1.791  
2.825

4.347

STOP

RUN# 922 APR 16, 1997 14:34:25

CSTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.347 | 3705642 | PR   | 2    | 36.686 |

TOTAL AREA=3856977  
MUL FACTOR=1.00000E+00

\* RUN # 923 APR 16, 1997 14:40:55

START

0.353  
005570  
1.033  
1.794  
2.821

4.349

STOP

RUN# 323 APR 16, 1997 14:40:55

ESTD-AREA

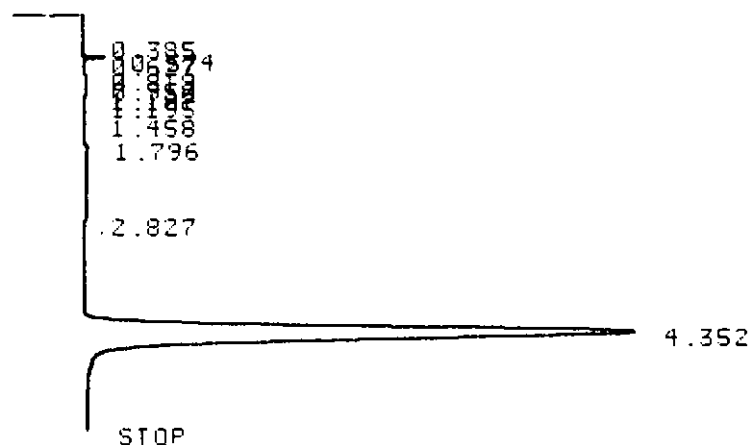
| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.349 | 4085200 | PB   | 2    | 10.443 |

TOTAL AREA=1277313

MUL FACTOR=1.0000E+00

\* RUN # 324 APR 16, 1997 14:55:40

START



RUN# 324 APR 16, 1997 14:55:40

ESTD-AREA

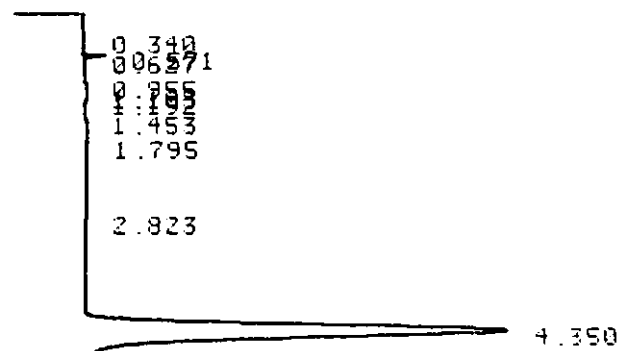
| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.352 | 6429536 | PB   | 2    | 63.652 |

TOTAL AREA=6674234

MUL FACTOR=1.0000E+00

\* RUN # 325 APR 16, 1997 15:01:36

START



STOP

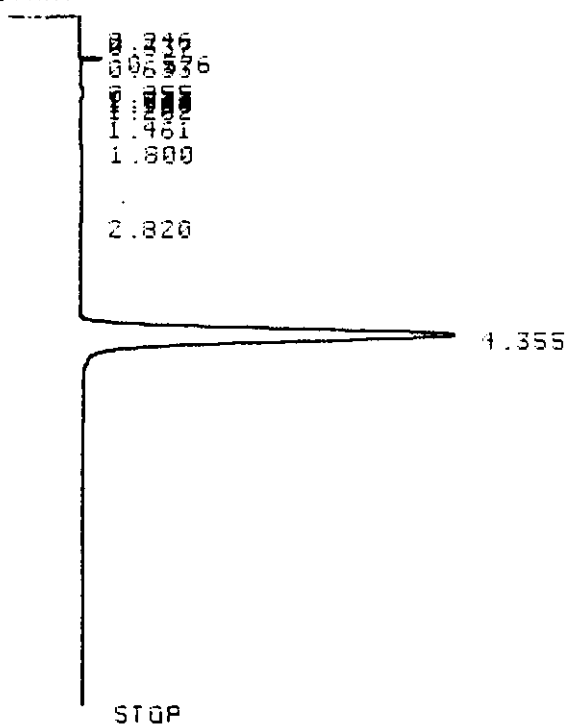
RUN# 925 APR 16, 1997 15:01:36

EXTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.350 | 4903136 | PB   | 2    | 48.541 |

TOTAL AREA=5161955  
MUL FACTOR=1.0000E+00

\* RUN # 926 APR 16, 1997 15:09:05  
START



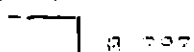
RUN# 926 APR 16, 1997 15:09:05

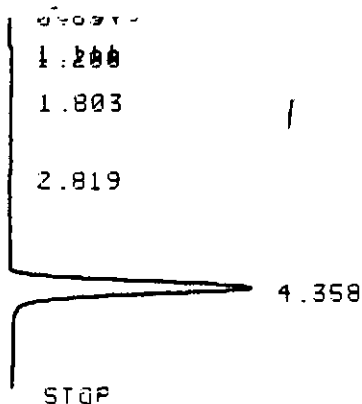
EXTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.355 | 4374771 | PB   | 2    | 42.914 |

TOTAL AREA=4438237  
MUL FACTOR=1.0000E+00

\* RUN # 927 APR 16, 1997 15:17:40  
START



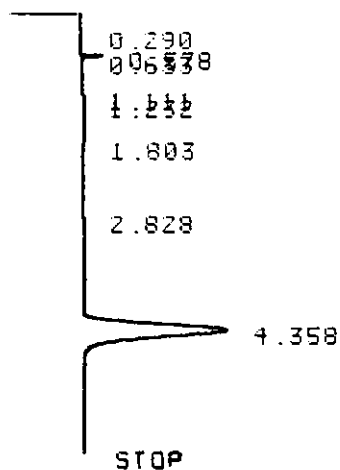


RUN# 927 APR 16, 1997 15:19:40

| ESTD-AREA | RT    | AREA TYPE | CALC# | AMOUNT |
|-----------|-------|-----------|-------|--------|
|           | 4.358 | 2799413   | PB 2  | 27.714 |

TOTAL AREA=2989610  
 MUL FACTOR=1.0000E+00

\* RUN # 928 APR 16, 1997 15:26:16  
 START



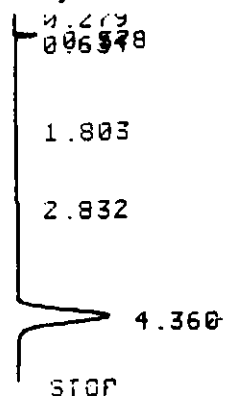
RUN# 928 APR 16, 1997 15:26:16

| ESTD-AREA | RT    | AREA TYPE | CALC# | AMOUNT |
|-----------|-------|-----------|-------|--------|
|           | 4.358 | 1086089   | PB 2  | 15.692 |

TOTAL AREA=1834669  
 MUL FACTOR=1.0000E+00

\* RUN # 929 APR 16, 1997 15:35:16  
 START



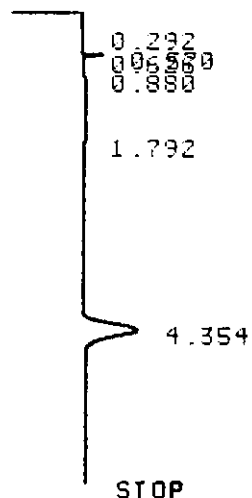


RUN# 929 APR 16, 1997 15:35:16

| ESTD-AREA | RT    | AREA TYPE | CAL# | AMOUNT |
|-----------|-------|-----------|------|--------|
|           | 4.360 | 1050186   | PB 2 | 10.406 |

TOTAL AREA=1140556  
MUL FACTOR=1.0000E+00

\* RUN # 930 APR 16, 1997 15:41:11  
START



RUN# 930 APR 16, 1997 15:41:11

| ESTD-AREA | RT    | AREA TYPE | CAL# | AMOUNT |
|-----------|-------|-----------|------|--------|
|           | 4.354 | 627335    | PB 2 | 6.211  |

TOTAL AREA= 719302  
MUL FACTOR=1.0000E+00

\* RUN # 931 APR 16, 1997 15:40:07  
STOP

```

0.252
006582
1.799
4.357
STOP

```

RUN# 931 APR 16, 1997 15:48:07

| ESTD-AREA | RT    | AREA TYPE | CAL# | AMOUNT |
|-----------|-------|-----------|------|--------|
|           | 4.357 | 423460 PU | 2    | 4.192  |

TOTAL AREA= 192664  
MUL FACTOR=1.0000E+00

\* RUN # 932 APR 16, 1997 15:58:40  
START

```

0.279
006250
1.075
1.795
4.356
STOP

```

RUN# 932 APR 16, 1997 15:58:46

| ESTD-AREA | RT    | AREA TYPE | CAL# | AMOUNT |
|-----------|-------|-----------|------|--------|
|           | 4.356 | 234399 PU | 2    | 2.321  |

TOTAL AREA= 354857  
MUL FACTOR=1.0000E+00

\* RUN # 933 APR 16, 1997 16:06:51  
START

0.322  
~~0.678~~  
1.182  
  
4.343  
  
STOP

RUN# 933 APR 16, 1997 16:06:51

ESTD-AREA

| RT    | AREA TYPE | CALC# | AMOUNT |
|-------|-----------|-------|--------|
| 4.343 | 3379 UU   | 2     | .033   |

TOTAL AREA= 87946  
MUL FACTOR=1.0000E+00

\* RUN # 934 APR 16, 1997 16:13:18  
START

0.361  
~~0.678~~  
0.975  
1.190  
  
1.882  
  
STOP

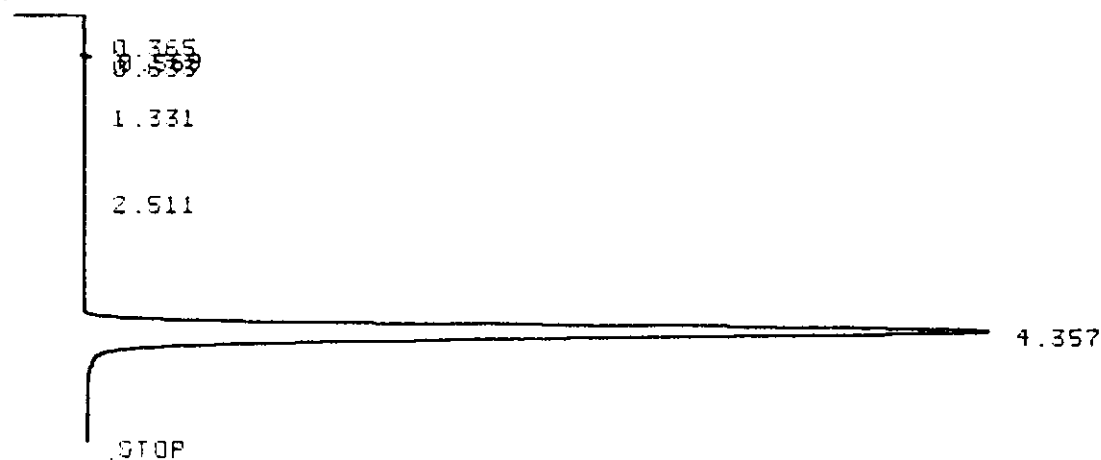
RUN# 934 APR 16, 1997 16:13:18

ESTD-AREA

| RT    | AREA | TYPE | CALC | AMOUNT |
|-------|------|------|------|--------|
| 1.332 | 216  | PV   | 1    | .009   |

TOTAL AREA= 209850  
MUL FACTOR=1.0000E+00

\* RUN # 935 APR 16, 1997 16:22:09  
START



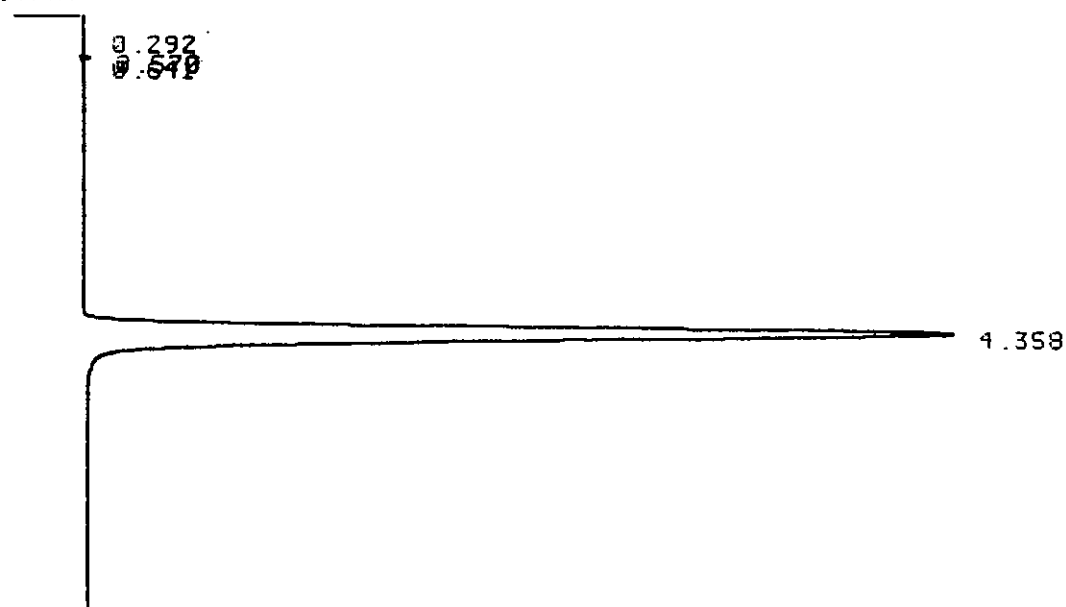
RUN# 935 APR 16, 1997 16:22:09

ESTD-AREA

| RT    | AREA     | TYPE | CALC | AMOUNT  |
|-------|----------|------|------|---------|
| 4.357 | 10505456 | PB   | 2    | 104.004 |

TOTAL AREA=1.0602E+07  
MUL FACTOR=1.0000E+00

\* RUN # 936 APR 16, 1997 16:28:40  
START



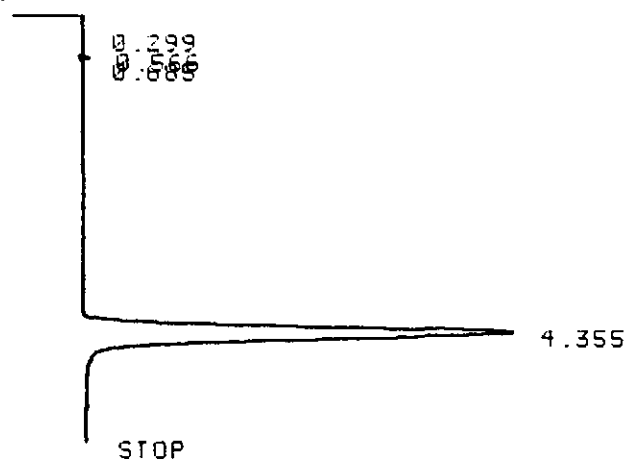
STOP

RUN# 936 APR 16, 1997 16:28:40

| ESTD-AREA | RT    | AREA TYPE | CAL# | AMOUNT |
|-----------|-------|-----------|------|--------|
|           | 4.358 | 10076096  | PB 2 | 99.753 |

TOTAL AREA=1.0152E+07  
MUL FACTOR=1.0000E+00

\* RUN # 937 APR 16, 1997 16:40:40  
START

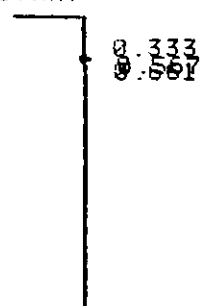


RUN# 937 APR 16, 1997 16:40:40

| ESTD-AREA | RT    | AREA TYPE | CAL# | AMOUNT |
|-----------|-------|-----------|------|--------|
|           | 4.355 | 4985315   | PB 2 | 49.355 |

TOTAL AREA=5079181.  
MUL FACTOR=1.0000E+00

\* RUN # 938 APR 16, 1997 16:47:25  
START



4.355

STOP

RUN# 930 APR 16, 1997 16:47:25

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.355 | 5178906 | PB   | 2    | 51.271 |

TOTAL AREA=5270774

WUL FACTOR=1.0000E+00

\*  
BREAK

\*

1 of 2

4/16/97

- Resin scale audit, performed on 0415A. CAL

| Resin #  | Mass                | lb | TOTAL<br>lb          | Result (#) | $\Delta$ # | % Error (% <sup>actual</sup> mass) |
|----------|---------------------|----|----------------------|------------|------------|------------------------------------|
| Resin 0  | 0                   | 0  |                      | -1.92      |            |                                    |
| Resin 1  | 1g <sup>orig</sup>  |    | $2.2 \times 10^{-3}$ | -1.94      | -0.02      | > 100%                             |
| Resin 2  | +5g (6)             |    | 0.032                | -1.96      | -0.04      | > 100%                             |
| Resin 3  | +10g (16)           |    | 0.0352               | -1.99      | -0.07      | > 100%                             |
| Resin 4  | +50g (66)           |    | 0.146                | -1.89      | 0.03       | -79.5                              |
| Resin 5  | +100g (166)         |    | 0.346                | -1.65      | 0.27       | -26.2                              |
| Resin 6  | +1kg (1166)         |    | 2.57                 | 0.55       | 2.47       | -3.9                               |
| Resin 7  | +2kg (3166)         |    | 6.98                 | 5.06       | 6.98       | 0.0                                |
| Resin 8  | +50lb (25846)       |    | 57.0                 | 54.90      | 56.82      | -0.3                               |
| Resin 9  | +(2x50)lb (71206)   |    | 157                  | 154.74     | 156.66     | -0.2                               |
| Resin 10 | +(6x50)lb (307286)  |    | 457                  | 454.89     | 456.81     | -0.0                               |
| Resin 11 | -(2x100)lb (161926) |    | 357                  | 354.95     | 356.57     | -0.0                               |
| Resin 12 | -(4x100)lb (71206)  |    | 157                  | 154.89     | 156.81     | -0.1                               |
| Resin 13 | -(2x100)lb (25846)  |    | 57.0                 | 54.96      | 56.88      | -0.2                               |
| Resin 14 | -50 lb (3166)       |    | 6.98                 | 4.97       | 6.89       | -1.3                               |
| Resin 15 | -2 kg (1166)        |    | 2.57                 | 0.51       | 2.43       | -5.4                               |

- Hydrogen audit &amp; performed post calibration @ THCo w/ cal gas

→ 59.2 <sup>system</sup> (not bags), THCo = 85.30

- Propane audit - introduced as cal gas.

- RT start @ 08:42:20 (Response time test)

off 0943:25

off - NA (did not go to zero)

on 0844:25

off 0844:05

on 0845:45

off 0843:35

on 0847:25

Performed by placing audit

bag on #86 probe, times of connection/disconn  
as noted, logged on das

2/12

0416, cont

Bias w/ Audit @ analyzer, direct w/ bag.

- On line 0416-01 @ 0930 Test Numa-16-2; 18' deck 42% FC

425.98 - Resin Initial

Skin start 0933

THC: "went negative" - 1015-1020

Lamination on 1025

THC: neg @ 1031-1032

Lam done 1042

Final resin = 310.20 Net = 115.78#

0416-01 Flow H 8 .21 V 8 .18

|          |                  |       |       |                                                            |
|----------|------------------|-------|-------|------------------------------------------------------------|
| ③<br>DAS | $\Delta P = .26$ | 7 .24 | 7 .20 | # Resin = 115.78# $\Rightarrow$ 48.63# STYRENE<br>Q = 3237 |
|          | $P_5 = -23$      | 6 .25 | 6 .21 |                                                            |
|          | ① 1133-1138      | 5 .24 | 5 .22 | $\Theta = 147^\circ$                                       |
|          | $P_6 = 29.94$    | 4 .22 | 4 .22 | THC = 129.62 $\Rightarrow$ 6.93# = 14.3% AS                |
|          | RH = 51% @ 60°   | 3 .21 | 3 .23 |                                                            |
|          | $T_5 = 70$       | 2 .20 | 2 .20 |                                                            |
|          |                  | 1 .19 | 1 .18 |                                                            |

0416-02 on line @ 1322 Numa-15-2 18' hull, 42% FC

Resin = ~~405.00~~ 407.00

Spray on @ 1332; done 1350

Lam @ 1420, done 1457

Final resin 254.83

Net Resin = 152.25# = 63.95# styrene

Flow @ 1526 DAS = 0.21  $\dot{q}$  - 2.5 done 1532

H 8 .21 V 8 .18

T<sub>5</sub> = 72

7 .25 7 .24

 $P_6 = 30.01$ 

6 .24 6 .22

RH = 44% @ 62°

5 .24 5 .23

Q = 3328

4 .23 4 .24

THC = 108.64

3 .22 3 .24

 $\Theta = 168^\circ = 6.8^\circ = 10.7\%$ 

2 .22 2 .23

1 .19 1 .20

Alberty  
in TE  
down flow



Resin sale audit

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NEMA

Date Printed = 04-16-1997 Current Time = 07:04:05

File Name = C:\CENDATA\041697.PRN Calibration File: C:\CENDATA\0415a.CAL

Test #: Resin 0

| 04-16-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 07:04:07           | 1.98         | 3.20         | 0.31          | 65.97     | -1.88       | -2.57       |
| 07:04:15           | 1.96         | 3.19         | 0.31          | 65.86     | -1.92       | -2.55       |
| 07:04:25           | 1.95         | 3.21         | 0.31          | 65.72     | -1.92       | -2.56       |
| 07:04:34           | 1.96         | 3.24         | 0.32          | 65.61     | -1.94       | -2.57       |
| 07:04:44           | 2.00         | 3.22         | 0.33          | 65.52     | -1.91       | -2.57       |
| 07:04:55           | 2.00         | 3.19         | 0.31          | 65.50     | -1.92       | -2.57       |
| 07:05:05           | 2.01         | 3.23         | 0.32          | 65.46     | -1.91       | -2.58       |
| 07:05:14           | 1.98         | 3.22         | 0.31          | 65.45     | -1.96       | -2.56       |
| Avg =              | 1.98         | 3.21         | 0.31          | 65.64     | -1.92       | -2.56       |

RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-16-1997 Current Time = 07:06:42  
 File Name = C:\CEMDATA\041697.PRN Calibration File: C:\CEMDATA\0415a.CAL

Test #: Resin 1

| 04-16-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 07:06:45           | 1.95         | 3.33         | 0.31          | 65.60     | -1.96       | -2.59       |
| 07:06:46           | 1.95         | 3.33         | 0.31          | 65.60     | -1.96       | -2.59       |
| 07:06:55           | 1.94         | 3.31         | 0.32          | 65.64     | -1.93       | -2.57       |
| 07:07:05           | 1.97         | 3.31         | 0.31          | 65.83     | -1.94       | -2.57       |
| 07:07:15           | 2.69         | 3.51         | 0.31          | 65.74     | -1.95       | -2.55       |
| 07:07:24           | 3.16         | 3.42         | 0.31          | 65.77     | -1.90       | -2.58       |
| 07:07:34           | 2.97         | 3.38         | 0.31          | 65.82     | -1.94       | -2.58       |
| 07:07:44           | 2.25         | 3.33         | 0.32          | 65.80     | -1.93       | -2.58       |
| Avg =              | 2.36         | 3.36         | 0.31          | 65.72     | -1.94       | -2.58       |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for:

MMMA

Date Printed = 04-16-1997 Current Time = 07:10:18

File Name = C:\CEM DATA\041697.PRN Calibration File: C:\CEM DATA\0415a.CAL

Test #: resin 2

| 04-16-1997<br>Time | THC o<br>oob | THC i<br>oob | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 07:10:21           | 1.97         | 3.29         | 0.30          | 65.96     | 147.86      | -2.57       |
| 07:10:24           | 2.06         | 3.22         | 0.30          | 66.02     | -2.02       | -2.54       |
| 07:10:35           | 1.96         | 3.28         | 0.31          | 66.16     | -1.96       | -2.58       |
| 07:10:44           | 1.97         | 3.29         | 0.31          | 66.09     | -1.94       | -2.57       |
| 07:10:54           | 1.95         | 3.29         | 0.32          | 66.00     | -1.95       | -2.58       |
| 07:11:04           | 1.97         | 3.33         | 0.32          | 65.91     | -1.97       | -2.59       |
| 07:11:14           | 1.98         | 3.31         | 0.31          | 65.91     | -1.93       | -2.58       |
| 07:11:25           | 1.95         | 3.30         | 0.32          | 66.00     | -1.97       | -2.58       |
| Avg =              | 1.98         | 3.29         | 0.31          | 66.01     | 16.76       | -2.57       |

*Davis cut*

RADIANT CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-16-1997 Current Time = 07:13:07  
 File Name = C:\CEM\DATA\041697.PRN Calibration File: C:\CEM\DATA\0415a.CAL

Test #: Resin 3

| 04-16-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 07:13:10           | 1.93         | 3.31         | 0.31          | 66.16     | -1.98       | -2.60       |
| 07:13:14           | 1.97         | 3.34         | 0.31          | 66.12     | -2.01       | -2.58       |
| 07:13:24           | 1.94         | 3.35         | 0.31          | 66.21     | -1.99       | -2.57       |
| 07:13:35           | 1.91         | 3.41         | 0.31          | 66.38     | -1.99       | -2.60       |
| 07:13:44           | 1.95         | 3.44         | 0.32          | 66.42     | -1.98       | -2.56       |
| 07:13:54           | 1.95         | 3.42         | 0.31          | 66.39     | -2.01       | -2.56       |
| Avg =              | 1.92         | 3.38         | 0.31          | 66.28     | -1.99       | -2.58       |

RADIAM CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-16-1997 Current Time = 07:14:45

File Name = C:\CEM\DATA\041697.PRN Calibration File: C:\CEM\DATA\0415a.CAL

Test #: Resin 4

| 04-16-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 07:14:48           | 1.95         | 3.37         | 0.32          | 66.41     | -1.88       | -2.58       |
| 07:14:55           | 1.96         | 3.40         | 0.31          | 66.46     | -1.83       | -2.59       |
| 07:15:04           | 1.95         | 3.39         | 0.32          | 66.52     | -1.92       | -2.57       |
| 07:15:14           | 1.90         | 3.38         | 0.32          | 66.72     | -1.88       | -2.58       |
| 07:15:24           | 1.94         | 3.38         | 0.31          | 66.65     | -1.89       | -2.57       |
| 07:15:34           | 1.97         | 3.34         | 0.32          | 66.61     | -1.92       | -2.57       |
| Avg =              | 1.95         | 3.38         | 0.32          | 66.56     | -1.89       | -2.57       |

## RADIANT CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-16-1997 Current Time = 07:16:11

File Name = C:\CEM\DATA\041697.PRN Calibration File: C:\CEM\DATA\0416a.CAL

Test #: Resin 5

| 04-16-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 07:16:15           | 1.87         | 3.41         | 0.31          | 66.46     | -1.68       | -2.57       |
| 07:16:24           | 1.98         | 3.40         | 0.31          | 66.49     | -1.61       | -2.55       |
| 07:16:35           | 1.96         | 3.38         | 0.32          | 66.69     | -1.66       | -2.57       |
| 07:16:45           | 1.95         | 3.40         | 0.31          | 66.67     | -1.65       | -2.58       |
| 07:16:55           | 1.95         | 3.39         | 0.32          | 66.39     | -1.66       | -2.56       |
| Avg =              | 1.94         | 3.40         | 0.31          | 66.54     | -1.65       | -2.57       |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-16-1997 Current Time = 07:17:35

File Name = C:\CEM DATA\041697.PRN Calibration File: C:\CEM DATA\0415a.CAL

Test #: Resin 6

| 04-16-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 07:17:38           | 1.97         | 3.37         | 0.32          | 66.69     | 0.54        | -2.57       |
| 07:17:45           | 1.98         | 3.34         | 0.32          | 66.87     | 0.54        | -2.57       |
| 07:17:55           | 1.95         | 3.35         | 0.32          | 66.86     | 0.55        | -2.56       |
| 07:18:04           | 1.96         | 3.38         | 0.32          | 66.94     | 0.55        | -2.56       |
| 07:18:14           | 1.96         | 3.43         | 0.31          | 66.89     | 0.55        | -2.57       |
| 07:18:24           | 1.99         | 3.42         | 0.32          | 66.91     | 0.56        | -2.56       |
| 07:18:34           | 1.97         | 3.43         | 0.32          | 66.93     | 0.56        | -2.56       |
| 07:18:44           | 1.95         | 3.42         | 0.31          | 66.79     | 0.53        | -2.57       |
| Avg =              | 1.97         | 3.39         | 0.32          | 66.86     | 0.55        | -2.57       |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-16-1997 Current Time = 07:19:50

File Name = C:\CEM\DATA\041697.PRN Calibration File: C:\CEM\DATA\0415a.CAL

Test #: Resin 7

| 04-16-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 07:19:55           | 1.97         | 3.43         | 0.35          | 66.54     | 5.11        | -2.57       |
| 07:20:04           | 2.01         | 3.41         | 0.32          | 66.38     | 5.10        | -2.57       |
| 07:20:14           | 1.97         | 3.46         | 0.32          | 66.36     | 5.14        | -2.57       |
| 07:20:24           | 2.48         | 3.44         | 0.32          | 66.28     | 4.97        | -2.57       |
| 07:20:34           | 2.94         | 3.47         | 0.31          | 66.26     | 5.00        | -2.57       |
| Avg =              | 2.27         | 3.44         | 0.33          | 66.36     | 5.06        | -2.57       |



RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-16-1997 Current Time = 07:21:39

File Name = C:\CEM DATA\041697.PRN Calibration File: C:\CEM DATA\0415a.CAL

Test #: Resin 8

| 04-16-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|

|          |      |      |      |       |       |       |
|----------|------|------|------|-------|-------|-------|
| 07:21:42 | 2.93 | 3.48 | 0.31 | 66.26 | 54.88 | -2.58 |
| 07:21:44 | 2.06 | 3.49 | 0.32 | 66.10 | 54.93 | -2.59 |
| 07:21:55 | 1.99 | 3.49 | 0.31 | 66.13 | 54.89 | -2.58 |
| 07:22:05 | 1.94 | 3.48 | 0.32 | 66.12 | 54.91 | -2.59 |
| 07:22:15 | 2.25 | 3.51 | 0.31 | 66.24 | 54.89 | -2.59 |
| 07:22:25 | 2.95 | 3.54 | 0.32 | 66.58 | 54.91 | -2.58 |
| 07:22:34 | 2.95 | 3.55 | 0.31 | 66.38 | 54.92 | -2.59 |
| 07:22:44 | 2.74 | 3.53 | 0.31 | 66.48 | 54.90 | -2.59 |

|       |      |      |      |       |       |       |
|-------|------|------|------|-------|-------|-------|
| Avg = | 2.47 | 3.51 | 0.31 | 66.26 | 54.90 | -2.59 |
|-------|------|------|------|-------|-------|-------|

RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-16-1997 Current Time = 07:23:53  
 File Name = C:\CEMDATA\041697.PRN Calibration File: C:\CEMDATA\0415a.CAL

Test #: Resin 9

| 04-16-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 07:23:57           | 2.94         | 3.65         | 0.31          | 66.42     | 154.80      | -2.59       |
| 07:24:05           | 2.96         | 3.62         | 0.31          | 66.39     | 154.76      | -2.58       |
| 07:24:14           | 2.94         | 3.65         | 0.32          | 66.40     | 154.73      | -2.59       |
| 07:24:25           | 2.94         | 3.69         | 0.32          | 66.43     | 154.71      | -2.56       |
| 07:24:35           | 2.97         | 3.64         | 0.32          | 66.31     | 154.74      | -2.59       |
| 07:24:45           | 2.97         | 3.68         | 0.32          | 66.28     | 154.73      | -2.62       |
| 07:24:55           | 2.94         | 3.76         | 0.32          | 66.35     | 154.74      | -2.58       |
| 07:25:05           | 2.95         | 3.75         | 0.32          | 66.42     | 154.73      | -2.57       |
| 07:25:15           | 2.93         | 3.75         | 0.31          | 66.33     | 154.74      | -2.59       |
| Avg =              | 2.95         | 3.69         | 0.32          | 66.37     | 154.74      | -2.59       |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-16-1997 Current Time = 07:27:02

File Name = C:\CEMDATA\041697.PRN Calibration File: C:\CEMDATA\0415a.CAL

Test #: Resin 10

| 04-16-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 07:27:06           | 3.06         | 3.87         | 0.33          | 65.83     | 454.93      | -2.61       |
| 07:27:15           | 2.91         | 3.82         | 0.32          | 66.30     | 454.89      | -2.58       |
| 07:27:25           | 2.92         | 3.80         | 0.31          | 66.39     | 454.91      | -2.58       |
| 07:27:35           | 2.97         | 3.86         | 0.32          | 66.32     | 454.88      | -2.59       |
| 07:27:44           | 2.96         | 3.88         | 0.32          | 66.34     | 454.90      | -2.57       |
| 07:27:54           | 2.92         | 3.92         | 0.31          | 66.47     | 454.89      | -2.58       |
| 07:28:04           | 2.95         | 3.92         | 0.32          | 66.38     | 454.84      | -2.57       |
| Avg =              | 2.96         | 3.87         | 0.32          | 66.29     | 454.89      | -2.58       |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-16-1997 Current Time = 07:28:49

File Name = C:\CEM\DATA\041697.PRN Calibration File: C:\CEM\DATA\0415a.CAL

Test #: Resin 11

| 04-16-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 07:28:54           | 2.91         | 4.01         | 0.33          | 65.40     | 354.97      | -2.58       |
| 07:28:56           | 2.91         | 4.01         | 0.33          | 65.40     | 354.97      | -2.58       |
| 07:29:04           | 2.91         | 3.97         | 0.31          | 65.38     | 354.91      | -2.60       |
| 07:29:14           | 2.94         | 3.96         | 0.32          | 65.63     | 354.94      | -2.58       |
| 07:29:24           | 2.93         | 3.99         | 0.32          | 65.76     | 354.92      | -2.58       |
| 07:29:35           | 2.95         | 4.00         | 0.31          | 65.87     | 354.95      | -2.58       |
| 07:29:45           | 2.93         | 4.02         | 0.32          | 66.10     | 354.96      | -2.58       |
| 07:29:55           | 2.94         | 4.01         | 0.32          | 65.90     | 354.95      | -2.59       |
| 07:30:05           | 2.98         | 4.03         | 0.31          | 65.65     | 354.96      | -2.58       |
| Avg =              | 2.93         | 4.00         | 0.32          | 65.68     | 354.95      | -2.58       |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-16-1997 Current Time = 07:32:18

File Name = C:\CEM\DATA\041697.PRN Calibration File: C:\CEM\DATA\0415a.CAL

Test #: Resin 12

| 04-16-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 07:32:23           | 2.94         | 3.78         | 0.31          | 64.63     | 154.86      | -2.57       |
| 07:32:25           | 2.95         | 3.79         | 0.33          | 64.52     | 154.95      | -2.53       |
| 07:32:35           | 2.34         | 3.72         | 0.31          | 64.45     | 154.88      | -2.56       |
| 07:32:45           | 1.94         | 3.71         | 0.31          | 64.50     | 154.89      | -2.58       |
| 07:32:54           | 2.69         | 3.73         | 0.31          | 64.56     | 154.84      | -2.54       |
| 07:33:04           | 2.93         | 3.70         | 0.31          | 64.76     | 154.91      | -2.57       |
| 07:33:15           | 2.96         | 3.70         | 0.32          | 64.87     | 154.88      | -2.56       |
| Avg =              | 2.68         | 3.73         | 0.32          | 64.61     | 154.89      | -2.56       |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-16-1997 Current Time = 07:34:07

File Name = C:\CEM\DATA\041697.PRN Calibration File: C:\CEM\DATA\0415a.CAL

Test #: Resin 13

| 04-16-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 07:34:12           | 2.93         | 3.67         | 0.31          | 64.99     | 54.99       | -2.56       |
| 07:34:14           | 3.01         | 3.64         | 0.30          | 65.07     | 54.99       | -2.58       |
| 07:34:24           | 2.95         | 3.68         | 0.32          | 64.77     | 54.96       | -2.56       |
| 07:34:34           | 2.63         | 3.70         | 0.32          | 64.65     | 54.95       | -2.56       |
| 07:34:45           | 2.49         | 3.71         | 0.31          | 64.61     | 54.95       | -2.56       |
| 07:34:55           | 2.72         | 3.72         | 0.32          | 64.49     | 54.95       | -2.57       |
| 07:35:05           | 2.98         | 3.72         | 0.31          | 64.40     | 54.97       | -2.57       |
| 07:35:15           | 2.94         | 3.65         | 0.31          | 64.36     | 54.93       | -2.57       |
| Avg =              | 2.83         | 3.69         | 0.31          | 64.67     | 54.96       | -2.57       |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-16-1997 Current Time = 07:36:08

File Name = C:\CEM DATA\041697.PRN Calibration File: C:\CEM DATA\0415a.CAL

Test #: Resin 14

| 04-16-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 07:36:13           | 2.96         | 3.77         | 0.32          | 64.14     | 5.00        | -2.59       |
| 07:36:14           | 2.90         | 3.75         | 0.35          | 64.35     | 4.96        | -2.61       |
| 07:36:24           | 2.98         | 3.77         | 0.32          | 64.04     | 5.00        | -2.57       |
| 07:36:34           | 2.96         | 3.72         | 0.31          | 64.04     | 4.96        | -2.56       |
| 07:36:44           | 2.96         | 3.72         | 0.31          | 64.18     | 4.96        | -2.57       |
| 07:36:55           | 2.95         | 3.69         | 0.32          | 64.11     | 4.97        | -2.58       |
| 07:37:04           | 2.94         | 3.69         | 0.31          | 64.14     | 4.97        | -2.56       |
| 07:37:15           | 2.13         | 3.67         | 0.31          | 64.19     | 4.95        | -2.56       |
| Avg =              | 2.85         | 3.72         | 0.32          | 64.15     | 4.97        | -2.58       |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-16-1997 Current Time = 07:38:04

File Name = C:\CEMDATA\041697.PRN Calibration File: C:\CEMDATA\0415a.CAL

Test #: Resin 15

| 04-16-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 07:38:09           | 3.01         | 3.68         | 0.33          | 64.18     | 0.51        | -2.58       |
| 07:38:14           | 1.95         | 3.72         | 0.31          | 64.00     | 0.52        | -2.57       |
| 07:38:25           | 1.94         | 3.78         | 0.30          | 63.97     | 0.50        | -2.56       |
| 07:38:35           | 2.97         | 3.85         | 0.33          | 64.07     | 0.50        | -2.58       |
| 07:38:44           | 2.98         | 3.83         | 0.32          | 64.07     | 0.52        | -2.55       |
| 07:38:54           | 2.97         | 3.83         | 0.31          | 63.85     | 0.51        | -2.59       |
| 07:39:04           | 2.95         | 3.82         | 0.32          | 64.04     | 0.49        | -2.58       |
| Avg =              | 2.68         | 3.79         | 0.32          | 64.02     | 0.51        | -2.57       |



CALIBRATION SUMMARY

04-16-1997 07:59:54

CALIBRATION FILE NAME = C:\CENDATA\0416a.CAL

Page Number 1

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=====
Chan. Name Units :      Zero      :      Span      :      Slope      :      Int.
                  : Conc. Resp. : Conc. Resp. :
=====
=====
```

CALIBRATION SUMMARY

04-16-1997 07:59:54

CALIBRATION FILE NAME = C:\CENDATA\0416a.CAL

Page Number 2

```
=====
Chan. Name Units :   Zero       :   Span       :   Slope   Int.
                  : Conc. Reso. : Conc. Reso. :
=====
=====
```

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-16-1997 Current Time = 08:00:57

File Name = C:\CEM DATA\041697.PRW Calibration File: C:\CEM DATA\0416a.CAL

Test #: Pre out 0

| 04-16-1997<br>Time | THC a<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 08:00:57           | 0.00         | 45.67        | 0.08          | 64.95     | -342.25     | -2.54       |
| Avg =              | 0.00         | 45.67        | 0.08          | 64.95     | -342.25     | -2.54       |

RADIANT CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-16-1997 Current Time = 08:01:16  
 File Name = C:\CEM DATA\041697.PRN Calibration File: C:\CEM DATA\0416a.CAL

Test #: ore out 0 in 45.5

| 04-16-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 08:01:16           | 0.08         | 45.66        | 0.07          | 65.25     | -312.37     | -2.55       |
| 08:01:25           | -0.01        | 45.71        | 0.08          | 65.42     | -276.81     | -2.54       |
| 08:01:35           | 0.08         | 45.60        | 0.07          | 65.48     | -225.75     | -2.54       |
| 08:01:45           | 0.08         | 45.47        | 0.07          | 65.61     | -189.12     | -2.55       |
| 08:01:55           | 0.02         | 45.50        | 0.07          | 65.67     | -165.16     | -2.55       |
| 08:02:05           | 0.03         | 45.51        | 0.07          | 65.71     | -149.24     | -2.56       |
| 08:02:15           | 0.03         | 45.54        | 0.08          | 65.67     | -137.55     | -2.55       |
| 08:02:25           | 0.03         | 45.58        | 0.06          | 65.62     | -129.36     | -2.57       |
| 08:02:35           | 0.02         | 45.56        | 0.07          | 65.62     | -124.72     | -2.57       |
| 08:02:45           | 0.06         | 45.57        | 0.08          | 65.64     | -122.22     | -2.53       |
| Avg =              | 0.04         | 45.57        | 0.07          | 65.57     | -183.23     | -2.55       |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-16-1997 Current Time = 08:06:59

File Name = C:\CEM DATA\041697.PRN Calibration File: C:\CEM DATA\0416a.CAL

Test #: Pre out 914 in 0

| 04-16-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 08:07:01           | 914.04       | 0.16         | 0.05          | 70.10     | -693.67     | -2.43       |
| 08:07:05           | 914.17       | 0.07         | 0.05          | 70.39     | -734.32     | -2.43       |
| 08:07:15           | 916.33       | 0.06         | 0.06          | 70.43     | -643.23     | -2.44       |
| 08:07:25           | 914.33       | 0.04         | 0.06          | 70.56     | -654.15     | -2.42       |
| 08:07:35           | 912.34       | 0.04         | 0.06          | 70.63     | -658.75     | -2.41       |
| 08:07:45           | 915.14       | 0.02         | 0.06          | 70.74     | -660.49     | -2.41       |
| 08:07:55           | 915.07       | 0.02         | 0.06          | 70.86     | -661.75     | -2.40       |
| 08:08:05           | 913.38       | 0.02         | 0.06          | 70.90     | -661.98     | -2.41       |
| Avg =              | 914.35       | 0.05         | 0.06          | 70.58     | -671.04     | -2.42       |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-16-1997 Current Time = 08:11:05

File Name = C:\CEM\DATA\041697.PRN Calibration File: C:\CEM\DATA\0416a.CAL

Test #: Pre out 600 in 30.4

| 04-16-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 08:11:08           | 600.32       | 31.05        | 0.06          | 71.84     | -356.82     | -2.39       |
| 08:11:15           | 600.37       | 31.12        | 0.07          | 71.69     | -355.20     | -2.44       |
| 08:11:25           | 600.35       | 31.13        | 0.06          | 71.59     | -343.24     | -2.39       |
| 08:11:35           | 601.27       | 31.14        | 0.05          | 71.51     | -340.48     | -2.37       |
| 08:11:45           | 600.70       | 31.13        | 0.06          | 71.53     | -338.35     | -2.37       |
| 08:11:55           | 599.42       | 31.14        | 0.06          | 71.50     | -336.99     | -2.36       |
| 08:12:05           | 600.13       | 31.14        | 0.06          | 71.53     | -335.99     | -2.35       |
| 08:12:15           | 600.38       | 31.14        | 0.06          | 71.56     | -342.07     | -2.40       |
| =====              |              |              |               |           |             |             |
| Avg =              | 600.37       | 31.12        | 0.06          | 71.59     | -343.64     | -2.39       |
| =====              |              |              |               |           |             |             |

## RADIANT CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-16-1997 Current Time = 08:14:49

File Name = C:\CEMDATA\041697.PRN Calibration File: C:\CEMDATA\0416a.CAL

Test #: Pre out 297 in 15.0

| 04-16-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 08:14:51           | 294.79       | 15.41        | 0.06          | 72.21     | -428.83     | -2.40       |
| 08:14:55           | 293.89       | 15.37        | 0.05          | 72.20     | -426.41     | -2.38       |
| 08:15:05           | 294.90       | 15.37        | 0.06          | 72.21     | -385.63     | -2.39       |
| 08:15:15           | 294.51       | 15.27        | 0.06          | 72.26     | -387.69     | -2.38       |
| 08:15:25           | 293.87       | 15.22        | 0.05          | 72.24     | -389.90     | -2.40       |
| 08:15:35           | 294.72       | 15.23        | 0.05          | 72.28     | -390.60     | -2.40       |
| 08:15:45           | 294.03       | 15.21        | 0.05          | 72.23     | -391.30     | -2.40       |
| 08:15:55           | 293.86       | 15.20        | 0.06          | 72.18     | -391.59     | -2.39       |
| 08:16:05           | 293.89       | 15.18        | 0.06          | 72.16     | -392.28     | -2.38       |
| 08:16:15           | 293.86       | 15.19        | 0.05          | 72.13     | -392.38     | -2.38       |
| 08:16:25           | 293.86       | 15.19        | 0.05          | 72.18     | -392.85     | -2.38       |
| 08:16:35           | 293.87       | 15.20        | 0.05          | 72.16     | -394.00     | -2.38       |
| 08:16:45           | 293.88       | 15.20        | 0.06          | 72.22     | -392.47     | -2.38       |
| Avg =              | 294.16       | 15.25        | 0.05          | 72.20     | -396.61     | -2.38       |

RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-16-1997 Current Time = 08:23:50  
 File Name = C:\CEMDATA\041697.PRN Calibration File: C:\CEMDATA\0416a.CAL

Test #: Styrene audit 4 out

| 04-16-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 08:23:53           | 84.32        | 2.47         | 0.28          | 72.39     | -466.04     | -2.26       |
| 08:23:55           | 84.28        | 2.47         | 0.30          | 72.49     | -501.98     | -2.44       |
| 08:24:05           | 84.30        | 2.48         | 0.28          | 72.46     | -428.92     | -2.43       |
| 08:24:15           | 85.24        | 2.48         | 0.29          | 72.46     | -422.04     | -2.43       |
| 08:24:25           | 85.32        | 2.48         | 0.29          | 72.45     | -422.93     | -2.42       |
| 08:24:35           | 85.32        | 2.48         | 0.29          | 72.49     | -423.59     | -2.42       |
| 08:24:45           | 85.31        | 2.45         | 0.28          | 72.53     | -425.10     | -2.32       |
| 08:24:55           | 85.30        | 2.43         | 0.27          | 72.48     | -427.82     | -2.26       |
| 08:25:05           | 85.31        | 2.44         | 0.27          | 72.50     | -429.18     | -2.27       |
| 08:25:15           | 85.31        | 2.43         | 0.27          | 72.52     | -430.92     | -2.25       |
| 08:25:25           | 85.31        | 2.41         | 0.27          | 72.52     | -432.11     | -2.26       |
| 08:25:35           | 85.32        | 2.42         | 0.27          | 72.52     | -432.53     | -2.27       |
| 08:25:45           | 85.64        | 2.43         | 0.27          | 72.54     | -432.76     | -2.26       |
| Avg =              | 85.10        | 2.45         | 0.28          | 72.49     | -436.61     | -2.33       |



## RADIANT CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-16-1997 Current Time = 08:32:16

File Name = C:\CEM\DATA\041697.PRN Calibration File: C:\CEM\DATA\0416a.CAL

Test #: Out 59.2 styrene

| 04-16-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 08:32:20           | 136.62       | 0.80         | 0.27          | 72.35     | -470.98     | -2.25       |
| 08:32:21           | 136.62       | 0.80         | 0.27          | 72.35     | -470.98     | -2.25       |
| 08:32:25           | 136.67       | 0.74         | 0.28          | 72.31     | -533.33     | -2.25       |
| 08:32:35           | 136.56       | 1.77         | 0.27          | 72.27     | -459.56     | -2.26       |
| 08:32:45           | 136.57       | 1.99         | 0.27          | 72.28     | -450.55     | -2.27       |
| 08:32:55           | 136.58       | 2.12         | 0.26          | 72.30     | -453.99     | -2.25       |
| 08:33:05           | 136.53       | 2.07         | 0.27          | 72.32     | -455.56     | -2.25       |
| 08:33:15           | 136.52       | 1.89         | 0.27          | 72.32     | -456.56     | -2.25       |
| 08:33:25           | 136.78       | 1.86         | 0.26          | 72.30     | -457.69     | -2.27       |
| 08:33:35           | 137.20       | 1.89         | 0.27          | 72.33     | -457.97     | -2.25       |
| 08:33:45           | 136.59       | 1.69         | 0.28          | 72.33     | -458.33     | -2.25       |
| 08:33:55           | 136.81       | 1.73         | 0.27          | 72.32     | -458.83     | -2.25       |
| 08:34:05           | 137.59       | 1.70         | 0.27          | 72.34     | -458.92     | -2.24       |
| 08:34:15           | 137.24       | 1.51         | 0.27          | 72.33     | -459.33     | -2.25       |
| 08:34:25           | 136.94       | 1.16         | 0.27          | 72.32     | -471.30     | -2.27       |
| 08:34:35           | 137.58       | 1.31         | 0.28          | 72.35     | -460.01     | -2.26       |
| 08:34:45           | 137.56       | 1.74         | 0.28          | 72.36     | -472.96     | -2.26       |
| 08:34:55           | 137.57       | 1.67         | 0.27          | 72.34     | -458.86     | -2.27       |
| 08:35:05           | 137.62       | 0.80         | 0.27          | 72.31     | -470.66     | -2.25       |
| 08:35:15           | 137.55       | 0.78         | 0.27          | 72.25     | -472.22     | -2.24       |
| Avg =              | 136.99       | 1.50         | 0.27          | 72.32     | -465.43     | -2.25       |

RADIANT CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-16-1997 Current Time = 08:37:12  
 File Name = C:\CEM DATA\041697.PRN Calibration File: C:\CEM DATA\0416a.CAL

Test #: Propane audit

| 04-16-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 08:37:16           | 1000.65      | 0.66         | 0.25          | 72.10     | -730.20     | -2.22       |
| 08:37:17           | 1000.65      | 0.66         | 0.25          | 72.10     | -730.20     | -2.22       |
| 08:37:25           | 1000.59      | 0.90         | 0.27          | 72.08     | -677.35     | -2.25       |
| 08:37:35           | 1000.61      | 0.93         | 0.27          | 72.04     | -656.78     | -2.23       |
| 08:37:45           | 1000.62      | 0.88         | 0.27          | 72.03     | -665.19     | -2.25       |
| 08:37:55           | 1000.62      | 0.75         | 0.27          | 72.08     | -667.32     | -2.27       |
| 08:38:05           | 1000.62      | 0.64         | 0.27          | 72.04     | -666.89     | -2.26       |
| 08:38:15           | 1000.63      | 0.75         | 0.26          | 72.09     | -668.04     | -2.24       |
| Avg =              | 1000.63      | 0.76         | 0.26          | 72.07     | -682.75     | -2.24       |

## RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-16-1997 Current Time = 08:42:14

File Name = C:\CEM DATA\041697.PRN Calibration File: C:\CEM DATA\0416a.CAL

Test #: Response time vs. audit propane

| 04-16-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 08:42:18           | 4.96         | 1.17         | 0.28          | 71.34     | -449.50     | -2.24       |
| 08:42:20           | 4.96         | 1.17         | 0.28          | 71.34     | -449.50     | -2.24       |
| 08:42:21           | 4.96         | 1.17         | 0.28          | 71.34     | -449.50     | -2.24       |
| 08:42:25           | 5.01         | 0.88         | 0.27          | 71.27     | -483.80     | -2.26       |
| 08:42:35           | 170.16       | 1.17         | 0.27          | 71.29     | -428.98     | -2.30       |
| 08:42:45           | 565.55       | 1.10         | 0.27          | 71.24     | -502.68     | -2.27       |
| 08:42:55           | 977.74       | 1.20         | 0.26          | 71.23     | -623.63     | -2.25       |
| 08:43:05           | 981.21       | 0.67         | 0.26          | 71.19     | -652.96     | -2.25       |
| 08:43:15           | 991.45       | 0.51         | 0.27          | 71.14     | -660.89     | -2.26       |
| 08:43:25           | 978.39       | 0.72         | 0.27          | 71.17     | -664.74     | -2.21       |
| 08:43:35           | 980.19       | 1.16         | 0.26          | 71.18     | -665.55     | -2.22       |
| 08:43:45           | 931.53       | 1.09         | 0.27          | 71.12     | -671.80     | -2.22       |
| 08:43:55           | 14.84        | 0.93         | 0.26          | 71.16     | -736.97     | -2.24       |
| 08:44:05           | 5.84         | 1.22         | 0.27          | 71.10     | -533.61     | -2.25       |
| 08:44:15           | 4.61         | 1.02         | 0.26          | 71.06     | -545.93     | -2.21       |
| 08:44:25           | 4.04         | 0.65         | 0.27          | 70.95     | -472.44     | -2.23       |
| 08:44:35           | 4.01         | 0.64         | 0.26          | 70.90     | -450.37     | -2.22       |
| 08:44:45           | 181.15       | 0.42         | 0.27          | 70.95     | -446.25     | -2.22       |
| 08:44:55           | 968.75       | 0.47         | 0.26          | 70.90     | -542.72     | -2.22       |
| 08:45:05           | 978.69       | 0.59         | 0.27          | 70.86     | -631.84     | -2.23       |
| 08:45:15           | 977.79       | 0.48         | 0.26          | 70.85     | -654.49     | -2.23       |
| 08:45:25           | 951.10       | 0.55         | 0.27          | 70.82     | -670.16     | -2.23       |
| 08:45:35           | 10.14        | 0.51         | 0.26          | 70.81     | -727.47     | -2.22       |
| 08:45:45           | 4.74         | 0.50         | 0.26          | 70.81     | -621.14     | -2.22       |
| 08:45:55           | 4.10         | 0.46         | 0.27          | 70.82     | -537.42     | -2.22       |
| 08:46:05           | 152.06       | 0.51         | 0.26          | 70.77     | -462.68     | -2.23       |
| 08:46:15           | 968.94       | 0.40         | 0.27          | 70.71     | -511.53     | -2.28       |
| 08:46:25           | 975.56       | 0.45         | 0.26          | 70.71     | -624.62     | -2.22       |
| 08:46:35           | 976.44       | 0.60         | 0.27          | 70.66     | -654.07     | -2.23       |
| 08:46:45           | 977.25       | 0.58         | 0.27          | 70.68     | -661.16     | -2.23       |
| 08:46:55           | 660.51       | 0.48         | 0.26          | 70.67     | -679.02     | -2.27       |
| 08:47:05           | 8.57         | 0.42         | 0.26          | 70.76     | -718.69     | -2.23       |
| 08:47:15           | 4.38         | 0.57         | 0.26          | 70.70     | -612.79     | -2.22       |
| 08:47:25           | 3.41         | 0.48         | 0.26          | 70.66     | -530.78     | -2.23       |
| 08:47:35           | 3.04         | 0.70         | 0.26          | 70.61     | -475.76     | -2.22       |
| 08:47:45           | 220.17       | 0.87         | 0.27          | 70.61     | -447.93     | -2.24       |
| 08:47:55           | 968.97       | 0.67         | 0.27          | 70.53     | -552.05     | -2.24       |
| 08:48:05           | 977.23       | 0.90         | 0.26          | 70.57     | -629.37     | -2.22       |
| 08:48:15           | 978.04       | 1.00         | 0.27          | 70.55     | -655.50     | -2.22       |
| 08:48:25           | 977.56       | 0.97         | 0.26          | 70.53     | -663.08     | -2.21       |

Test 8: Response time vs. audit propane

| 04-16-1997 | THC o  | THC i | Flow  | Temp  | Resin   | Ps    |
|------------|--------|-------|-------|-------|---------|-------|
| Time       | oob    | oob   | inH2O | F     | lb      | inH2O |
| 08:48:35   | 844.16 | 1.01  | 0.25  | 70.53 | -674.21 | -2.21 |
| Avg =      | 499.84 | 0.76  | 0.27  | 70.90 | -583.60 | -2.23 |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-16-1997 Current Time = 08:54:42

File Name = C:\CEMDATA\041697.PRN Calibration File: C:\CEMDATA\0416a.CAL

Test #: Bias with propane audit

| 04-16-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 08:54:48           | 995.81       | 1.54         | 0.27          | 69.73     | -682.52     | -2.22       |
| 08:54:49           | 995.81       | 1.54         | 0.27          | 69.73     | -682.52     | -2.22       |
| 08:54:55           | 997.35       | 1.49         | 0.26          | 69.80     | -714.94     | -2.22       |
| 08:55:05           | 995.51       | 1.47         | 0.27          | 69.76     | -655.90     | -2.22       |
| 08:55:15           | 995.66       | 1.41         | 0.26          | 69.74     | -665.29     | -2.24       |
| 08:55:25           | 999.54       | 1.49         | 0.27          | 69.73     | -667.95     | -2.26       |
| 08:55:35           | 995.32       | 1.42         | 0.26          | 69.69     | -669.59     | -2.23       |
| 08:55:45           | 993.83       | 1.38         | 0.26          | 69.60     | -670.93     | -2.23       |
| 08:55:55           | 995.84       | 1.43         | 0.26          | 69.55     | -671.50     | -2.21       |
| 08:56:05           | 996.19       | 1.45         | 0.26          | 69.56     | -671.94     | -2.21       |
| Avg =              | 996.19       | 1.46         | 0.26          | 69.69     | -675.31     | -2.23       |

## RADIANT CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, MA

Performed for: NMMA

Date Printed = 04-16-1997 Current Time = 09:30:52

File Name = C:\CEM\DATA\041697.PRM Calibration File: C:\CEM\DATA\0416a.CAL

Test #: 0416-01

| 04-16-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 09:30:59           | 1.64         | 1.14         | 0.26          | 68.31     | 425.76      | -2.26       |
| 09:31:59           | 1.99         | 1.31         | 0.25          | 68.55     | 425.92      | -2.28       |
| 09:32:59           | 1.97         | 1.52         | 0.25          | 68.64     | 425.98      | -2.27       |
| 09:33:59           | 3.50         | 1.15         | 0.25          | 68.79     | 423.09      | -2.26       |
| 09:34:59           | 32.55        | 1.12         | 0.25          | 68.87     | 417.06      | -2.27       |
| 09:35:59           | 94.33        | 0.77         | 0.25          | 68.89     | 410.71      | -2.28       |
| 09:36:59           | 118.88       | 1.46         | 0.26          | 68.92     | 407.34      | -2.26       |
| 09:37:59           | 121.03       | 1.51         | 0.25          | 68.87     | 403.25      | -2.27       |
| 09:38:59           | 136.61       | 1.14         | 0.25          | 68.83     | 400.84      | -2.26       |
| 09:39:59           | 141.88       | 1.52         | 0.25          | 68.80     | 400.78      | -2.27       |
| 09:40:59           | 155.79       | 1.65         | 0.25          | 68.83     | 399.13      | -2.27       |
| 09:41:59           | 158.66       | 1.54         | 0.25          | 68.79     | 396.41      | -2.27       |
| 09:42:59           | 191.95       | 1.53         | 0.25          | 68.79     | 390.80      | -2.27       |
| 09:43:59           | 221.76       | 1.53         | 0.25          | 68.80     | 385.10      | -2.27       |
| 09:44:59           | 240.56       | 1.53         | 0.25          | 68.75     | 381.61      | -2.26       |
| 09:45:59           | 235.67       | 1.53         | 0.25          | 68.70     | 381.61      | -2.26       |
| 09:46:59           | 236.68       | 1.52         | 0.25          | 68.71     | 381.60      | -2.27       |
| 09:47:59           | 241.24       | 1.52         | 0.26          | 68.73     | 381.88      | -2.35       |
| 09:48:59           | 245.49       | 1.53         | 0.26          | 68.76     | 381.60      | -2.35       |
| 09:49:59           | 232.59       | 1.54         | 0.25          | 68.70     | 381.61      | -2.35       |
| 09:50:59           | 213.49       | 1.58         | 0.26          | 68.66     | 381.60      | -2.34       |
| 09:51:59           | 214.05       | 1.65         | 0.26          | 68.69     | 381.61      | -2.34       |
| 09:52:59           | 196.65       | 1.68         | 0.26          | 68.70     | 381.61      | -2.35       |
| 09:53:59           | 193.86       | 1.28         | 0.25          | 68.70     | 381.63      | -2.28       |
| 09:54:59           | 188.65       | 1.67         | 0.25          | 68.68     | 381.65      | -2.27       |
| 09:55:59           | 187.76       | 1.17         | 0.25          | 68.66     | 381.63      | -2.26       |
| 09:56:59           | 176.98       | 0.90         | 0.25          | 68.60     | 381.62      | -2.25       |
| 09:57:59           | 174.53       | 0.91         | 0.25          | 68.58     | 381.63      | -2.27       |
| 09:58:59           | 171.06       | 0.72         | 0.25          | 68.49     | 381.63      | -2.26       |
| 09:59:59           | 163.27       | 0.96         | 0.25          | 68.52     | 381.62      | -2.26       |
| 10:00:59           | 159.09       | 0.61         | 0.25          | 68.54     | 381.63      | -2.27       |
| 10:01:59           | 152.20       | 0.71         | 0.25          | 68.53     | 381.63      | -2.27       |
| 10:02:59           | 151.48       | 0.93         | 0.25          | 68.50     | 381.63      | -2.26       |
| 10:03:59           | 151.20       | 0.89         | 0.25          | 68.47     | 381.64      | -2.28       |
| 10:04:59           | 147.95       | 0.59         | 0.25          | 68.47     | 381.65      | -2.26       |
| 10:05:59           | 142.35       | 0.47         | 0.25          | 68.43     | 381.62      | -2.26       |
| 10:06:59           | 139.97       | 0.54         | 0.25          | 68.38     | 381.63      | -2.27       |
| 10:07:59           | 133.18       | 0.40         | 0.25          | 68.34     | 381.64      | -2.27       |
| 10:08:59           | 133.26       | 0.56         | 0.25          | 68.33     | 381.63      | -2.27       |
| 10:09:59           | 133.38       | 0.60         | 0.25          | 68.34     | 381.64      | -2.27       |

Test #: 0416-01

| 04-16-1997<br>Time | THC o<br>oem | THC i<br>oem | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 10:10:59           | 128.96       | 1.41         | 0.25          | 68.24     | 381.62      | -2.26       |
| 10:11:59           | 123.19       | 1.30         | 0.25          | 68.22     | 381.63      | -2.27       |
| 10:12:59           | 125.98       | 1.53         | 0.25          | 68.26     | 381.64      | -2.27       |
| 10:13:59           | 121.80       | 1.04         | 0.25          | 68.25     | 381.62      | -2.26       |
| 10:14:59           | 118.67       | 0.30         | 0.25          | 68.28     | 381.66      | -2.27       |
| 10:15:59           | 111.07       | 0.06         | 0.25          | 68.25     | 381.64      | -2.26       |
| 10:16:59           | 109.52       | 0.04         | 0.25          | 68.23     | 381.64      | -2.27       |
| 10:17:59           | 107.35       | 0.06         | 0.25          | 68.20     | 381.65      | -2.27       |
| 10:18:59           | 106.07       | -0.08        | 0.26          | 68.24     | 381.65      | -2.34       |
| 10:19:59           | 107.69       | -0.59        | 0.26          | 68.25     | 381.65      | -2.44       |
| 10:20:59           | 102.41       | 0.74         | 0.26          | 68.23     | 381.65      | -2.44       |
| 10:21:59           | 98.39        | 0.99         | 0.26          | 68.22     | 381.65      | -2.45       |
| 10:22:59           | 93.57        | 1.06         | 0.26          | 68.20     | 381.65      | -2.45       |
| 10:23:59           | 93.46        | 1.19         | 0.26          | 68.18     | 381.64      | -2.47       |
| 10:24:59           | 88.80        | 0.07         | 0.26          | 68.01     | 381.66      | -2.44       |
| 10:25:59           | 92.59        | 0.82         | 0.26          | 68.12     | 380.63      | -2.44       |
| 10:26:59           | 111.73       | 1.40         | 0.26          | 68.21     | 374.46      | -2.44       |
| 10:27:59           | 128.45       | -0.88        | 0.26          | 68.22     | 367.66      | -2.44       |
| 10:28:59           | 138.11       | -2.78        | 0.26          | 68.23     | 364.00      | -2.45       |
| 10:29:59           | 141.66       | -6.26        | 0.26          | 68.25     | 362.18      | -2.46       |
| 10:30:59           | 159.47       | -8.63        | 0.27          | 68.30     | 355.63      | -2.45       |
| 10:31:59           | 193.51       | -8.00        | 0.27          | 68.33     | 351.90      | -2.51       |
| 10:32:59           | 177.54       | -3.86        | 0.27          | 68.36     | 349.15      | -2.50       |
| 10:33:59           | 191.31       | 1.58         | 0.27          | 68.39     | 345.12      | -2.52       |
| 10:34:59           | 216.86       | 1.61         | 0.27          | 68.46     | 339.82      | -2.51       |
| 10:35:59           | 235.25       | 1.65         | 0.27          | 68.49     | 333.84      | -2.51       |
| 10:36:59           | 259.09       | 1.65         | 0.27          | 68.53     | 330.19      | -2.51       |
| 10:37:59           | 302.05       | 1.66         | 0.27          | 68.58     | 324.07      | -2.50       |
| 10:38:59           | 327.76       | 1.70         | 0.27          | 68.59     | 317.72      | -2.50       |
| 10:39:59           | 340.79       | 1.72         | 0.27          | 68.62     | 311.57      | -2.50       |
| 10:40:59           | 366.92       | 1.75         | 0.27          | 68.65     | 310.27      | -2.51       |
| 10:41:59           | 345.53       | 1.76         | 0.27          | 68.67     | 310.26      | -2.51       |
| 10:42:59           | 323.37       | 1.80         | 0.27          | 68.69     | 310.28      | -2.51       |
| 10:43:59           | 309.59       | 1.82         | 0.27          | 68.74     | 311.09      | -2.52       |
| 10:44:59           | 287.24       | 1.84         | 0.27          | 68.72     | 310.26      | -2.51       |
| 10:45:59           | 282.44       | 1.85         | 0.27          | 68.75     | 310.24      | -2.50       |
| 10:46:59           | 271.69       | 1.89         | 0.27          | 68.81     | 310.24      | -2.51       |
| 10:47:59           | 256.92       | 1.95         | 0.27          | 68.83     | 310.25      | -2.51       |
| 10:48:59           | 248.34       | 2.02         | 0.27          | 68.85     | 310.27      | -2.51       |
| 10:49:59           | 236.04       | 2.08         | 0.27          | 68.87     | 310.26      | -2.51       |
| 10:50:59           | 226.38       | 2.10         | 0.27          | 68.90     | 310.26      | -2.51       |
| 10:51:59           | 222.17       | 2.11         | 0.27          | 68.95     | 310.26      | -2.50       |
| 10:52:59           | 214.74       | 2.12         | 0.27          | 68.97     | 310.25      | -2.51       |
| 10:53:59           | 205.24       | 2.14         | 0.27          | 68.97     | 310.25      | -2.52       |
| 10:54:59           | 203.69       | 2.13         | 0.27          | 68.98     | 310.26      | -2.53       |
| 10:55:59           | 201.49       | 2.14         | 0.27          | 69.01     | 310.24      | -2.51       |
| 10:56:59           | 194.96       | 2.14         | 0.27          | 69.03     | 310.23      | -2.51       |
| 10:57:59           | 186.10       | 2.14         | 0.27          | 69.06     | 310.25      | -2.53       |
| 10:58:59           | 179.42       | 2.14         | 0.28          | 69.07     | 310.25      | -2.51       |
| 10:59:59           | 176.18       | 2.16         | 0.27          | 69.12     | 310.24      | -2.51       |
| 11:00:59           | 173.97       | 2.17         | 0.27          | 69.22     | 310.24      | -2.51       |
| 11:01:59           | 170.12       | 2.18         | 0.27          | 69.26     | 310.24      | -2.53       |
| 11:02:59           | 162.01       | 2.17         | 0.27          | 69.30     | 310.23      | -2.53       |
| 11:03:59           | 161.51       | 2.18         | 0.27          | 69.34     | 310.25      | -2.51       |
| 11:04:59           | 156.79       | 2.19         | 0.26          | 69.37     | 310.22      | -2.35       |
| 11:05:59           | 150.27       | 2.22         | 0.26          | 69.41     | 310.22      | -2.34       |

Test #: 0416-01

| 04-16-1997<br>Time | THC o<br>oom | THC i<br>oom | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 11:06:59           | 147.02       | 2.21         | 0.26          | 69.45     | 310.23      | -2.37       |
| 11:07:59           | 145.91       | 2.20         | 0.26          | 69.53     | 310.22      | -2.34       |
| 11:08:59           | 140.78       | 2.22         | 0.26          | 69.56     | 310.22      | -2.40       |
| 11:09:59           | 134.09       | 2.20         | 0.27          | 69.57     | 310.21      | -2.54       |
| 11:10:59           | 127.80       | 2.21         | 0.28          | 69.61     | 310.20      | -2.57       |
| 11:11:59           | 119.70       | 2.22         | 0.28          | 69.66     | 310.20      | -2.53       |
| 11:12:59           | 109.07       | 2.21         | 0.28          | 69.66     | 310.20      | -2.53       |
| 11:13:59           | 102.80       | 2.22         | 0.27          | 69.69     | 310.20      | -2.52       |
| 11:14:59           | 97.54        | 2.22         | 0.26          | 69.73     | 310.20      | -2.37       |
| 11:15:59           | 92.69        | 2.23         | 0.26          | 69.80     | 310.19      | -2.34       |
| 11:16:59           | 86.02        | 2.20         | 0.26          | 69.80     | 310.20      | -2.35       |
| 11:17:59           | 79.21        | 2.20         | 0.26          | 69.82     | 310.21      | -2.35       |
| 11:18:59           | 73.26        | 2.21         | 0.26          | 69.83     | 310.20      | -2.34       |
| 11:19:59           | 66.78        | 2.20         | 0.26          | 69.84     | 310.18      | -2.34       |
| 11:20:59           | 62.66        | 2.21         | 0.26          | 69.88     | 310.18      | -2.34       |
| 11:21:59           | 58.45        | 2.25         | 0.26          | 69.92     | 310.20      | -2.35       |
| 11:22:59           | 53.66        | 2.26         | 0.26          | 69.94     | 310.20      | -2.34       |
| 11:23:59           | 49.51        | 2.28         | 0.26          | 69.96     | 310.18      | -2.35       |
| 11:24:59           | 45.60        | 2.27         | 0.26          | 70.01     | 310.18      | -2.35       |
| 11:25:59           | 41.66        | 2.23         | 0.26          | 70.04     | 310.18      | -2.35       |
| 11:26:59           | 38.56        | 2.24         | 0.26          | 70.06     | 310.19      | -2.34       |
| 11:27:59           | 36.14        | 2.22         | 0.26          | 70.11     | 310.18      | -2.34       |
| 11:28:59           | 32.86        | 2.24         | 0.26          | 70.09     | 310.18      | -2.37       |
| 11:29:59           | 30.19        | 2.24         | 0.26          | 70.10     | 310.18      | -2.34       |
| 11:30:59           | 28.22        | 2.26         | 0.27          | 70.11     | 310.19      | -2.35       |
| 11:31:59           | 26.08        | 2.23         | 0.26          | 70.15     | 310.19      | -2.34       |
| 11:32:59           | 24.42        | 2.26         | 0.26          | 70.18     | 310.18      | -2.37       |
| 11:33:59           | 22.77        | 2.23         | 0.26          | 70.25     | 310.18      | -2.33       |
| 11:34:59           | 20.99        | 2.22         | 0.19          | 70.17     | 310.18      | -2.06       |
| 11:35:59           | 20.75        | 2.22         | 0.24          | 70.29     | 310.17      | -2.33       |
| 11:36:59           | 19.65        | 2.16         | 0.25          | 70.33     | 310.15      | -2.35       |
| 11:37:59           | 17.71        | 2.18         | 0.22          | 70.37     | 310.15      | -2.05       |
| 11:38:59           | 17.17        | 2.18         | 0.26          | 70.22     | 310.13      | -2.35       |
| 11:39:59           | 15.35        | 2.18         | 0.26          | 70.17     | 310.13      | -2.35       |
| 11:40:59           | 14.50        | 2.21         | 0.26          | 70.19     | 310.13      | -2.34       |
| 11:41:59           | 13.78        | 2.23         | 0.26          | 70.19     | 310.15      | -2.36       |
| 11:42:59           | 13.17        | 2.18         | 0.26          | 70.18     | 310.15      | -2.34       |
| 11:43:59           | 12.56        | 2.16         | 0.26          | 70.21     | 310.11      | -2.34       |
| 11:44:59           | 11.91        | 2.17         | 0.26          | 70.25     | 310.13      | -2.34       |
| 11:45:59           | 11.26        | 2.17         | 0.26          | 70.21     | 310.13      | -2.35       |
| 11:46:59           | 10.75        | 2.17         | 0.26          | 70.25     | 310.11      | -2.34       |
| 11:47:59           | 9.89         | 2.18         | 0.26          | 70.28     | 310.11      | -2.35       |
| 11:48:59           | 9.69         | 2.19         | 0.26          | 70.30     | 310.11      | -2.36       |
| 11:49:59           | 9.03         | 2.19         | 0.26          | 70.29     | 310.13      | -2.34       |
| 11:50:59           | 9.06         | 2.15         | 0.27          | 70.30     | 310.13      | -2.35       |
| 11:51:59           | 8.63         | 2.17         | 0.26          | 70.32     | 310.11      | -2.34       |
| 11:52:59           | 7.92         | 2.17         | 0.27          | 70.34     | 310.11      | -2.35       |
| 11:53:59           | 7.94         | 2.15         | 0.26          | 70.34     | 310.13      | -2.35       |
| 11:54:59           | 7.15         | 2.15         | 0.26          | 70.36     | 310.12      | -2.35       |
| 11:55:59           | 6.80         | 2.16         | 0.26          | 70.36     | 310.10      | -2.35       |
| 11:56:59           | 6.82         | 2.10         | 0.27          | 70.34     | 310.11      | -2.36       |
| =====              |              |              |               |           |             |             |
| Avg =              | 129.62       | 1.39         | 0.26          | 69.12     | 343.22      | -2.37       |
| =====              |              |              |               |           |             |             |



RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-16-1997 Current Time = 11:59:52

File Name = C:\CEM DATA\041697.PRN Calibration File: C:\CEM DATA\0416a.CAL

Test #: Post out 297 in 15.0

| 04-16-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 11:59:55           | 290.81       | 15.26        | 0.28          | 70.46     | -402.48     | -2.32       |
| 11:59:59           | 290.22       | 15.24        | 0.28          | 70.37     | -435.63     | -2.33       |
| 12:00:09           | 291.08       | 15.25        | 0.27          | 70.40     | -391.20     | -2.32       |
| 12:00:19           | 291.05       | 15.27        | 0.27          | 70.38     | -392.82     | -2.33       |
| 12:00:29           | 289.93       | 15.26        | 0.28          | 70.29     | -395.27     | -2.31       |
| 12:00:39           | 290.27       | 15.25        | 0.28          | 70.24     | -397.13     | -2.35       |
| 12:00:49           | 291.24       | 15.26        | 0.27          | 70.19     | -397.55     | -2.32       |
| 12:00:59           | 290.08       | 15.25        | 0.27          | 70.17     | -397.50     | -2.32       |
| 12:01:09           | 289.94       | 15.24        | 0.27          | 70.13     | -398.68     | -2.32       |
| Avg =              | 290.51       | 15.26        | 0.28          | 70.29     | -400.92     | -2.32       |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NHMA

Date Printed = 04-16-1997 Current Time = 12:11:28

File Name = C:\CEM\DATA\041697.PRN Calibration File: C:\CEM\DATA\0416a.CAL

Test #: Post-1 out 0 in 30.4

| 04-16-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 12:11:33           | -0.08        | 30.27        | 0.28          | 69.73     | -381.11     | -2.32       |
| 12:11:34           | -0.08        | 30.27        | 0.28          | 69.73     | -381.11     | -2.32       |
| 12:11:36           | -0.08        | 30.27        | 0.28          | 69.73     | -381.11     | -2.32       |
| 12:11:39           | 0.07         | 30.26        | 0.27          | 69.86     | -392.67     | -2.30       |
| 12:11:49           | -0.10        | 30.30        | 0.28          | 69.85     | -353.89     | -2.37       |
| 12:11:59           | -0.02        | 30.27        | 0.27          | 69.86     | -354.37     | -2.33       |
| 12:12:09           | 0.12         | 30.24        | 0.27          | 69.85     | -355.00     | -2.37       |
| 12:12:19           | -0.04        | 30.24        | 0.28          | 69.89     | -355.37     | -2.34       |
| 12:12:29           | -0.01        | 30.24        | 0.27          | 69.85     | -356.54     | -2.34       |
| 12:12:39           | 0.08         | 30.24        | 0.27          | 69.87     | -357.38     | -2.32       |
| 12:12:49           | 0.04         | 30.25        | 0.27          | 69.85     | -357.09     | -2.32       |
| 12:12:59           | -0.07        | 30.27        | 0.27          | 69.87     | -357.32     | -2.33       |
| 12:13:09           | -0.12        | 30.25        | 0.27          | 69.88     | -356.94     | -2.37       |
| Avg =              | -0.02        | 30.26        | 0.27          | 69.83     | -364.61     | -2.33       |

## RADIANT CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-16-1997 Current Time = 12:16:18

File Name = C:\CEM DATA\041697.PRM Calibration File: C:\CEM DATA\0416a.CAL

Test #: Post-1 out 600 in 15.0

| 04-16-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 12:16:23           | 599.45       | 0.13         | 0.28          | 69.86     | -662.26     | -2.38       |
| 12:16:24           | 599.45       | 0.13         | 0.28          | 69.86     | -662.26     | -2.38       |
| 12:16:29           | 596.84       | 0.10         | 0.26          | 69.85     | -733.07     | -2.31       |
| 12:16:39           | 596.83       | 0.07         | 0.28          | 69.84     | -624.52     | -2.33       |
| 12:16:49           | 598.60       | 0.06         | 0.27          | 69.79     | -643.55     | -2.31       |
| 12:16:59           | 598.63       | 0.06         | 0.27          | 69.77     | -651.99     | -2.30       |
| 12:17:09           | 596.50       | 0.05         | 0.27          | 69.79     | -655.63     | -2.33       |
| 12:17:19           | 597.05       | 0.04         | 0.27          | 69.78     | -655.74     | -2.33       |
| 12:17:29           | 598.53       | 0.04         | 0.28          | 69.81     | -656.13     | -2.34       |
| Avg =              | 597.99       | 0.08         | 0.27          | 69.82     | -660.57     | -2.34       |

RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-16-1997 Current Time = 13:20:44  
 File Name = C:\CEM DATA\041697.PRN Calibration File: C:\CEM DATA\0416a.CAL

Test #: 0416-02

| 04-16-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 13:20:50           | 1.86         | 1.96         | 0.28          | 70.41     | 406.18      | -2.35       |
| 13:20:51           | 1.86         | 1.96         | 0.28          | 70.41     | 406.18      | -2.35       |
| 13:20:59           | 1.96         | 1.93         | 0.26          | 70.49     | 406.24      | -2.36       |
| 13:21:09           | 1.83         | 1.93         | 0.26          | 70.53     | 406.25      | -2.38       |
| 13:21:19           | 2.00         | 1.65         | 0.28          | 70.49     | 406.31      | -2.37       |
| 13:21:29           | 2.02         | 1.57         | 0.28          | 70.47     | 406.27      | -2.37       |
| 13:21:39           | 1.99         | 1.58         | 0.27          | 70.49     | 405.27      | -2.36       |
| 13:21:49           | 2.07         | 1.53         | 0.27          | 70.53     | 405.29      | -2.35       |
| 13:21:59           | 2.00         | 1.47         | 0.27          | 70.56     | 405.31      | -2.36       |
| 13:22:09           | 1.98         | 1.49         | 0.26          | 70.53     | 405.30      | -2.39       |
| 13:22:19           | 2.00         | 1.38         | 0.26          | 70.55     | 405.44      | -2.39       |
| 13:22:29           | 1.98         | 1.50         | 0.26          | 70.56     | 405.63      | -2.37       |
| 13:23:29           | 2.01         | 1.22         | 0.26          | 70.58     | 405.55      | -2.35       |
| 13:24:29           | 1.98         | 1.04         | 0.26          | 70.59     | 405.39      | -2.35       |
| 13:25:29           | 1.98         | 1.25         | 0.26          | 70.64     | 406.07      | -2.34       |
| 13:26:29           | 2.08         | 0.75         | 0.27          | 70.65     | 407.08      | -2.35       |
| 13:27:29           | 2.07         | -0.13        | 0.26          | 70.67     | 404.59      | -2.36       |
| 13:28:29           | 2.06         | 0.84         | 0.27          | 70.72     | 404.58      | -2.37       |
| 13:29:29           | 1.97         | 1.97         | 0.27          | 70.71     | 404.41      | -2.36       |
| 13:30:29           | 1.94         | 2.07         | 0.27          | 70.76     | 405.42      | -2.39       |
| 13:31:29           | 2.01         | 0.51         | 0.27          | 70.76     | 405.78      | -2.37       |
| 13:32:29           | 2.28         | 0.07         | 0.27          | 70.80     | 405.23      | -2.36       |
| 13:33:29           | 8.03         | 2.16         | 0.27          | 70.79     | 403.85      | -2.37       |
| 13:34:29           | 20.89        | 2.14         | 0.27          | 70.78     | 405.09      | -2.37       |
| 13:35:29           | 61.44        | 2.12         | 0.27          | 70.78     | 396.17      | -2.37       |
| 13:36:29           | 102.18       | 2.10         | 0.26          | 70.75     | 397.33      | -2.36       |
| 13:37:29           | 107.94       | 2.08         | 0.27          | 70.73     | 388.47      | -2.35       |
| 13:38:29           | 153.50       | 2.06         | 0.26          | 70.73     | 378.11      | -2.34       |
| 13:39:29           | 205.54       | 2.04         | 0.26          | 70.76     | 373.09      | -2.35       |
| 13:40:29           | 164.51       | 2.01         | 0.27          | 70.80     | 372.47      | -2.37       |
| 13:41:29           | 149.46       | 2.00         | 0.27          | 70.80     | 371.39      | -2.37       |
| 13:42:29           | 153.56       | 1.98         | 0.26          | 70.81     | 365.81      | -2.37       |
| 13:43:29           | 167.39       | 1.97         | 0.26          | 70.86     | 355.71      | -2.36       |
| 13:44:29           | 191.36       | 1.95         | 0.27          | 70.89     | 349.14      | -2.37       |
| 13:45:29           | 211.67       | 1.93         | 0.26          | 70.84     | 346.67      | -2.35       |
| 13:46:29           | 233.39       | 1.92         | 0.26          | 70.82     | 340.77      | -2.36       |
| 13:47:29           | 275.14       | 1.91         | 0.26          | 70.84     | 334.36      | -2.36       |
| 13:48:29           | 277.60       | 1.89         | 0.27          | 70.80     | 328.53      | -2.36       |
| 13:49:29           | 288.92       | 1.88         | 0.27          | 70.82     | 327.84      | -2.37       |
| 13:50:29           | 235.88       | 1.88         | 0.27          | 70.82     | 327.84      | -2.38       |

Test #: 0416-02

| 04-16-1997<br>Time | THC o<br>oom | THC i<br>oom | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 13:51:29           | 228.58       | 1.87         | 0.26          | 70.83     | 327.84      | -2.35       |
| 13:52:29           | 174.72       | 1.85         | 0.26          | 70.84     | 327.85      | -2.36       |
| 13:53:29           | 182.19       | 1.89         | 0.26          | 70.82     | 327.83      | -2.35       |
| 13:54:29           | 174.91       | 1.94         | 0.26          | 70.81     | 327.84      | -2.35       |
| 13:55:29           | 156.60       | 1.96         | 0.26          | 70.80     | 327.84      | -2.35       |
| 13:56:29           | 142.69       | 1.96         | 0.27          | 70.79     | 327.83      | -2.36       |
| 13:57:29           | 145.11       | 1.98         | 0.26          | 70.79     | 327.83      | -2.35       |
| 13:58:29           | 135.58       | 1.96         | 0.26          | 70.80     | 327.83      | -2.37       |
| 13:59:29           | 135.11       | 1.94         | 0.26          | 70.80     | 327.82      | -2.37       |
| 14:00:29           | 135.55       | 1.92         | 0.26          | 70.81     | 327.82      | -2.37       |
| 14:01:29           | 129.55       | 1.91         | 0.26          | 70.80     | 327.81      | -2.36       |
| 14:02:29           | 129.35       | 1.90         | 0.26          | 70.81     | 327.80      | -2.36       |
| 14:03:29           | 126.94       | 1.89         | 0.26          | 70.80     | 327.80      | -2.35       |
| 14:04:29           | 112.51       | 1.89         | 0.26          | 70.83     | 327.81      | -2.35       |
| 14:05:29           | 106.14       | 1.89         | 0.26          | 70.83     | 327.81      | -2.41       |
| 14:06:29           | 118.04       | 1.89         | 0.27          | 70.83     | 327.82      | -2.40       |
| 14:07:29           | 118.70       | 1.84         | 0.28          | 70.83     | 327.82      | -2.55       |
| 14:08:29           | 107.67       | 1.84         | 0.28          | 70.86     | 327.81      | -2.57       |
| 14:09:29           | 100.09       | 1.93         | 0.28          | 70.85     | 327.83      | -2.56       |
| 14:10:29           | 111.20       | 1.82         | 0.28          | 70.86     | 327.80      | -2.58       |
| 14:11:29           | 119.18       | 1.82         | 0.28          | 70.89     | 327.81      | -2.56       |
| 14:12:29           | 101.99       | 1.81         | 0.28          | 70.90     | 327.78      | -2.57       |
| 14:13:29           | 95.11        | 1.82         | 0.28          | 70.92     | 327.79      | -2.61       |
| 14:14:29           | 97.35        | 1.82         | 0.28          | 70.96     | 327.80      | -2.59       |
| 14:15:29           | 100.48       | 1.84         | 0.28          | 70.95     | 330.14      | -2.55       |
| 14:16:29           | 114.50       | 1.84         | 0.28          | 70.93     | 338.21      | -2.57       |
| 14:17:29           | 115.67       | 1.82         | 0.28          | 70.95     | 337.97      | -2.56       |
| 14:18:29           | 100.98       | 1.83         | 0.28          | 70.95     | 337.90      | -2.53       |
| 14:19:29           | 126.98       | 1.84         | 0.28          | 70.92     | 344.37      | -2.56       |
| 14:20:29           | 179.94       | 1.83         | 0.28          | 70.96     | 334.55      | -2.53       |
| 14:21:29           | 198.75       | 1.94         | 0.28          | 70.98     | 331.37      | -2.55       |
| 14:22:29           | 256.26       | 1.85         | 0.28          | 71.01     | 334.78      | -2.53       |
| 14:23:29           | 255.54       | 1.85         | 0.27          | 71.04     | 330.31      | -2.54       |
| 14:24:29           | 248.74       | 1.85         | 0.27          | 71.09     | 321.06      | -2.55       |
| 14:25:29           | 236.85       | 1.86         | 0.27          | 71.14     | 326.74      | -2.56       |
| 14:26:29           | 296.74       | 1.91         | 0.27          | 71.13     | 314.88      | -2.55       |
| 14:27:29           | 290.91       | 1.92         | 0.27          | 71.13     | 319.47      | -2.55       |
| 14:28:29           | 287.06       | 1.89         | 0.28          | 71.13     | 306.85      | -2.54       |
| 14:29:29           | 273.08       | 1.88         | 0.28          | 71.14     | 306.65      | -2.55       |
| 14:30:29           | 246.13       | 1.87         | 0.27          | 71.13     | 306.89      | -2.53       |
| 14:31:29           | 216.25       | 1.90         | 0.27          | 71.13     | 306.95      | -2.55       |
| 14:32:29           | 196.74       | 1.92         | 0.27          | 71.13     | 306.96      | -2.54       |
| 14:33:29           | 177.27       | 2.01         | 0.28          | 71.15     | 306.96      | -2.54       |
| 14:34:29           | 171.88       | 2.10         | 0.27          | 71.20     | 306.95      | -2.53       |
| 14:35:29           | 158.94       | 2.08         | 0.27          | 71.24     | 306.94      | -2.54       |
| 14:36:29           | 159.33       | 2.10         | 0.28          | 71.28     | 306.99      | -2.58       |
| 14:37:29           | 151.90       | 2.11         | 0.28          | 71.27     | 306.99      | -2.57       |
| 14:38:29           | 156.41       | 2.09         | 0.27          | 71.23     | 306.97      | -2.54       |
| 14:39:29           | 148.92       | 2.08         | 0.28          | 71.29     | 307.00      | -2.55       |
| 14:40:29           | 146.34       | 2.02         | 0.27          | 71.34     | 306.99      | -2.55       |
| 14:41:29           | 140.47       | 2.00         | 0.28          | 71.33     | 306.97      | -2.54       |
| 14:42:29           | 140.56       | 2.01         | 0.27          | 71.34     | 306.97      | -2.54       |
| 14:43:29           | 137.46       | 1.98         | 0.27          | 71.32     | 306.95      | -2.55       |
| 14:44:29           | 133.73       | 1.97         | 0.27          | 71.34     | 306.90      | -2.52       |
| 14:45:29           | 135.43       | 1.96         | 0.27          | 71.38     | 306.36      | -2.55       |
| 14:46:29           | 132.94       | 1.94         | 0.27          | 71.41     | 300.52      | -2.56       |

Test #: 0416-02

| 04-16-1997<br>Time | THC o<br>oom | THC i<br>oom | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 14:47:29           | 142.46       | 1.96         | 0.27          | 71.44     | 289.85      | -2.54       |
| 14:48:29           | 145.38       | 1.95         | 0.27          | 71.48     | 288.38      | -2.52       |
| 14:49:29           | 145.28       | 1.99         | 0.27          | 71.44     | 283.00      | -2.51       |
| 14:50:29           | 196.70       | 1.95         | 0.28          | 71.47     | 279.85      | -2.55       |
| 14:51:29           | 195.93       | 1.93         | 0.28          | 71.47     | 273.87      | -2.51       |
| 14:52:29           | 244.58       | 1.94         | 0.28          | 71.54     | 271.44      | -2.55       |
| 14:53:29           | 222.89       | 1.89         | 0.28          | 71.55     | 269.31      | -2.55       |
| 14:54:29           | 239.40       | 1.90         | 0.28          | 71.58     | 264.06      | -2.55       |
| 14:55:29           | 265.07       | 1.89         | 0.27          | 71.62     | 259.16      | -2.55       |
| 14:56:29           | 283.86       | 1.86         | 0.27          | 71.65     | 254.83      | -2.53       |
| 14:57:29           | 268.30       | 1.88         | 0.27          | 71.66     | 256.76      | -2.55       |
| 14:58:29           | 240.02       | 1.90         | 0.27          | 71.66     | 250.61      | -2.52       |
| 14:59:29           | 230.71       | 1.86         | 0.27          | 71.68     | 249.77      | -2.54       |
| 15:00:29           | 224.08       | 1.95         | 0.27          | 71.67     | 249.77      | -2.52       |
| 15:01:29           | 205.60       | 2.12         | 0.27          | 71.68     | 249.79      | -2.55       |
| 15:02:29           | 183.70       | 2.22         | 0.28          | 71.69     | 248.83      | -2.54       |
| 15:03:29           | 185.01       | 2.12         | 0.27          | 71.68     | 248.80      | -2.55       |
| 15:04:29           | 173.34       | 2.04         | 0.27          | 71.68     | 248.71      | -2.54       |
| 15:05:29           | 165.64       | 2.04         | 0.27          | 71.71     | 250.35      | -2.55       |
| 15:06:29           | 163.11       | 2.03         | 0.27          | 71.75     | 248.49      | -2.53       |
| 15:07:29           | 160.93       | 2.05         | 0.27          | 71.85     | 248.50      | -2.54       |
| 15:08:29           | 152.92       | 2.03         | 0.27          | 71.89     | 248.49      | -2.54       |
| 15:09:29           | 149.82       | 2.00         | 0.27          | 71.86     | 248.49      | -2.54       |
| 15:10:29           | 140.27       | 1.96         | 0.27          | 71.85     | 248.49      | -2.55       |
| 15:11:29           | 133.88       | 1.97         | 0.27          | 71.86     | 248.50      | -2.54       |
| 15:12:29           | 121.64       | 1.94         | 0.27          | 71.79     | 248.50      | -2.53       |
| 15:13:29           | 120.19       | 1.91         | 0.27          | 71.80     | 248.53      | -2.54       |
| 15:14:29           | 118.34       | 1.90         | 0.27          | 71.81     | 248.50      | -2.54       |
| 15:15:29           | 111.87       | 1.89         | 0.27          | 71.84     | 248.52      | -2.55       |
| 15:16:29           | 113.73       | 1.86         | 0.27          | 71.94     | 248.51      | -2.52       |
| 15:17:29           | 115.77       | 1.83         | 0.27          | 72.04     | 248.53      | -2.55       |
| 15:18:29           | 110.77       | 1.85         | 0.27          | 72.11     | 248.52      | -2.54       |
| 15:19:29           | 105.46       | 1.86         | 0.27          | 72.12     | 248.51      | -2.54       |
| 15:20:29           | 97.69        | 1.89         | 0.27          | 72.13     | 248.52      | -2.54       |
| 15:21:29           | 94.22        | 1.85         | 0.27          | 72.18     | 248.50      | -2.55       |
| 15:22:29           | 88.56        | 1.82         | 0.27          | 72.21     | 248.50      | -2.52       |
| 15:23:29           | 80.91        | 1.81         | 0.27          | 72.21     | 248.52      | -2.51       |
| 15:24:29           | 78.81        | 1.79         | 0.27          | 72.22     | 248.52      | -2.54       |
| 15:25:29           | 71.39        | 1.79         | 0.27          | 72.24     | 248.49      | -2.55       |
| 15:26:29           | 67.49        | 1.77         | 0.27          | 72.26     | 248.53      | -2.54       |
| 15:27:29           | 62.70        | 1.74         | 0.28          | 72.30     | 248.51      | -2.55       |
| 15:28:29           | 59.21        | 1.75         | 0.25          | 72.29     | 248.52      | -2.54       |
| 15:29:29           | 53.58        | 1.78         | 0.19          | 72.14     | 248.53      | -1.92       |
| 15:30:29           | 52.34        | 1.82         | 0.27          | 72.31     | 248.50      | -2.54       |
| 15:31:29           | 46.89        | 1.76         | 0.24          | 72.37     | 248.49      | -2.16       |
| 15:32:29           | 43.58        | 1.74         | 0.27          | 72.35     | 248.49      | -2.53       |
| 15:33:29           | 40.56        | 1.72         | 0.27          | 72.30     | 248.49      | -2.54       |
| 15:34:29           | 37.21        | 1.71         | 0.27          | 72.28     | 248.49      | -2.55       |
| 15:35:29           | 34.74        | 1.70         | 0.27          | 72.31     | 248.49      | -2.55       |
| 15:36:29           | 31.77        | 1.72         | 0.27          | 72.35     | 248.50      | -2.53       |
| 15:37:29           | 29.15        | 1.68         | 0.27          | 72.36     | 248.50      | -2.54       |
| 15:38:29           | 26.69        | 1.70         | 0.27          | 72.36     | 248.52      | -2.54       |
| 15:39:29           | 25.01        | 1.69         | 0.27          | 72.36     | 248.51      | -2.55       |
| 15:40:29           | 23.58        | 1.69         | 0.27          | 72.38     | 248.48      | -2.54       |
| 15:41:29           | 21.68        | 1.69         | 0.27          | 72.38     | 248.51      | -2.55       |
| 15:42:29           | 20.18        | 1.65         | 0.27          | 72.40     | 248.51      | -2.53       |

Test #: 0416-02

| 04-16-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 15:43:29           | 19.11        | 1.68         | 0.27          | 72.41     | 248.51      | -2.54       |
| 15:44:29           | 17.62        | 1.63         | 0.27          | 72.42     | 248.51      | -2.54       |
| 15:45:29           | 16.90        | 1.64         | 0.27          | 72.44     | 248.52      | -2.53       |
| 15:46:29           | 15.23        | 1.61         | 0.27          | 72.44     | 248.49      | -2.53       |
| 15:47:29           | 14.76        | 1.63         | 0.27          | 72.46     | 248.50      | -2.53       |
| 15:48:29           | 14.23        | 1.60         | 0.27          | 72.45     | 248.50      | -2.53       |
| 15:49:29           | 13.43        | 1.61         | 0.27          | 72.44     | 248.49      | -2.53       |
| 15:50:29           | 12.92        | 1.60         | 0.27          | 72.39     | 248.48      | -2.54       |
| 15:51:29           | 12.08        | 1.60         | 0.27          | 72.40     | 248.48      | -2.53       |
| 15:52:29           | 11.90        | 1.57         | 0.27          | 72.40     | 248.48      | -2.54       |
| 15:53:29           | 11.04        | 1.57         | 0.27          | 72.41     | 248.48      | -2.53       |
| 15:54:29           | 10.87        | 1.58         | 0.27          | 72.42     | 248.48      | -2.53       |
| 15:55:29           | 10.22        | 1.61         | 0.27          | 72.43     | 248.48      | -2.53       |
| 15:56:29           | 9.75         | 1.56         | 0.27          | 72.44     | 248.49      | -2.53       |
| 15:57:29           | 8.49         | 1.55         | 0.27          | 72.29     | 248.49      | -2.53       |
| 15:58:29           | 8.88         | 1.56         | 0.27          | 72.38     | 248.49      | -2.54       |
| 15:59:29           | 8.93         | 1.54         | 0.26          | 72.41     | 248.49      | -2.53       |
| 16:00:29           | 8.95         | 1.55         | 0.27          | 72.44     | 248.48      | -2.53       |
| 16:01:29           | 8.32         | 1.58         | 0.26          | 72.43     | 248.49      | -2.53       |
| 16:02:29           | 7.94         | 1.54         | 0.26          | 72.44     | 248.48      | -2.53       |
| 16:03:29           | 7.94         | 1.55         | 0.27          | 72.42     | 248.49      | -2.53       |
| 16:04:29           | 7.73         | 1.61         | 0.27          | 72.43     | 248.48      | -2.54       |
| 16:05:29           | 7.31         | 1.59         | 0.27          | 72.41     | 248.48      | -2.53       |
| 16:06:29           | 7.07         | 1.54         | 0.27          | 72.41     | 248.48      | -2.56       |
| 16:07:29           | 6.81         | 1.52         | 0.27          | 72.42     | 248.48      | -2.54       |
| 16:08:29           | 6.83         | 1.50         | 0.26          | 72.42     | 248.48      | -2.54       |
| Avg =              | 108.66       | 1.79         | 0.27          | 71.44     | 304.06      | -2.48       |

RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-16-1997 Current Time = 16:15:42  
 File Name = C:\CEM DATA\041697.PRN Calibration File: C:\CEM DATA\0416a.CAL

Test #: Post-2 out 600 in 0

| 04-16-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 16:15:46           | 614.20       | 0.04         | 0.04          | 72.05     | 248.41      | 0.03        |
| 16:15:49           | 614.19       | 0.01         | 0.04          | 72.07     | 248.42      | 0.03        |
| 16:15:59           | 609.28       | 0.00         | 0.04          | 71.94     | 248.41      | 0.03        |
| 16:16:09           | 603.27       | -0.02        | 0.04          | 71.91     | 248.42      | 0.03        |
| 16:16:19           | 603.78       | 0.00         | 0.04          | 71.88     | 248.43      | 0.03        |
| 16:16:29           | 604.48       | -0.02        | -2.17         | -38.71    | 248.42      | 0.98        |
| 16:16:39           | 603.70       | -0.01        | -6.20         | -240.52   | 248.39      | 2.80        |
| 16:16:49           | 602.74       | 0.00         | -6.20         | -240.52   | 248.37      | 2.80        |
| 16:16:59           | 603.40       | 0.01         | -6.20         | -240.52   | 248.39      | 2.80        |
| 16:17:09           | 603.30       | 0.00         | -6.20         | -240.52   | 248.40      | 2.80        |
| 16:17:19           | 602.96       | 0.01         | -6.20         | -240.52   | 248.39      | 2.80        |
| Avg =              | 605.94       | 0.00         | -3.00         | -80.13    | 248.41      | 1.38        |



RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-16-1997 Current Time = 16:19:55

File Name = C:\CEM\DATA\041697.PRN Calibration File: C:\CEM\DATA\0416a.CAL

Test #: Post-2 out 297 in 30.4

| 04-16-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 16:19:59           | 295.00       | 30.36        | -6.19         | -240.35   | 248.80      | 2.80        |
| 16:20:00           | 295.00       | 30.36        | -6.19         | -240.35   | 248.80      | 2.80        |
| 16:20:09           | 294.46       | 30.33        | -6.19         | -240.35   | 248.75      | 2.80        |
| 16:20:19           | 294.98       | 30.37        | -6.19         | -240.35   | 248.76      | 2.80        |
| 16:20:29           | 293.96       | 30.40        | -6.19         | -240.35   | 248.77      | 2.80        |
| 16:20:39           | 293.90       | 30.34        | -6.19         | -240.35   | 248.75      | 2.80        |
| 16:20:49           | 293.92       | 30.36        | -6.19         | -240.35   | 248.77      | 2.80        |
| 16:20:59           | 293.82       | 30.42        | -6.19         | -240.35   | 248.77      | 2.80        |
| 16:21:09           | 293.93       | 30.42        | -6.19         | -240.35   | 248.77      | 2.80        |
| 16:21:19           | 294.87       | 30.41        | -6.19         | -240.34   | 248.76      | 2.80        |
| 16:21:29           | 294.08       | 30.40        | -6.19         | -240.35   | 248.78      | 2.80        |
| 16:21:39           | 293.92       | 30.40        | -6.19         | -240.35   | 248.76      | 2.80        |
| Avg =              | 294.32       | 30.38        | -6.19         | -240.35   | 248.77      | 2.80        |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-16-1997 Current Time = 16:23:55

File Name = C:\CEMDATA\041697.PRN Calibration File: C:\CEMDATA\0416a.CAL

Test #: Post-2 out 0 in 15.0

| 04-16-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 16:23:56           | -0.01        | 15.20        | -6.20         | -240.48   | 248.42      | 2.80        |
| 16:23:59           | 0.02         | 15.14        | -6.20         | -240.47   | 248.43      | 2.80        |
| 16:24:09           | -0.01        | 15.20        | -6.20         | -240.49   | 248.42      | 2.80        |
| 16:24:19           | -0.01        | 15.19        | -6.20         | -240.49   | 248.42      | 2.80        |
| 16:24:29           | -0.00        | 15.22        | -6.20         | -240.49   | 248.44      | 2.80        |
| 16:24:39           | -0.00        | 15.21        | -6.20         | -240.50   | 248.42      | 2.80        |
| 16:24:49           | 0.00         | 15.17        | -6.20         | -240.50   | 248.43      | 2.80        |
| 16:24:59           | -0.02        | 15.16        | -6.20         | -240.50   | 248.42      | 2.80        |
| 16:25:09           | -0.01        | 15.12        | -6.20         | -240.49   | 248.44      | 2.80        |
| 16:25:19           | 0.00         | 15.08        | -6.20         | -240.49   | 248.44      | 2.80        |
| 16:25:29           | 0.00         | 15.14        | -6.20         | -240.49   | 248.44      | 2.80        |
| Avg =              | -0.00        | 15.17        | -6.20         | -240.49   | 248.43      | 2.80        |

**April 17, 1997**

**0417-01/NMMA-12-1: CFA Mold 42% Styrene Resin Spray Up Lamination**

# DAILY SPRAY EQUIPMENT CALIBRATION

Date: 4-17-97

Initial: Larry Darsitz

Spray Gun: \_\_\_\_\_

## Resin Flow Calibration (15-second evaluation)

|                | Pre-Test | Post-Test |
|----------------|----------|-----------|
| Run 1 Mass (g) | 775      |           |
| Run 2 Mass (g) |          |           |
| Run 3 Mass (g) |          |           |
| Average        |          |           |

## Resin:Glass Ratio

|                |      |  |
|----------------|------|--|
| Mass resin (g) | 317  |  |
| Mass glass (g) | 152  |  |
| TOTAL          | 469  |  |
| Percent glass  | 32.4 |  |

| Material     | Drum No. | Gel Time (min) | Catalyst % Vol. | Setting |
|--------------|----------|----------------|-----------------|---------|
| Gelcoat      |          |                |                 |         |
| Resin (skin) | 4        |                |                 |         |
| Resin (lam)  |          |                |                 |         |

## Thickness Checks

| Run         | 1 | 2 | 3 | 4 | 5 |
|-------------|---|---|---|---|---|
| 40 mil      |   |   |   |   |   |
| 90 mil skin |   |   |   |   |   |
| 60 mils Rov |   |   |   |   |   |
| 60 mil Rov  |   |   |   |   |   |
| 60 mil Rov  |   |   |   |   |   |
| 60 mil Rov  |   |   |   |   |   |

CFA  
Hull

Bottom  
Side and  
Transom

DAILY GAS CHROMATOGRAPHY LOG

Date: 4/17/97

Initial: DD

182

Run 0417-01/02

Test NMMA-12-1 CFA 42%  
NMMA-9-1 28% 44% 42% FC

| Run No. | Time | Comments                        | THC | MMA Area | Styrene Area        |
|---------|------|---------------------------------|-----|----------|---------------------|
| 939     |      | Air 4.343                       |     |          |                     |
| 940     |      | Air 4.343                       |     |          | 2044                |
| 941     |      | 59.2 4.341                      |     |          | 4324157             |
| 942     |      | 59.2 4.348                      |     |          | 4536176             |
| 943     |      | 122 59.2                        |     |          | 4768189             |
| 944     |      | 122                             |     |          | 10597432            |
| 945     |      | 122                             |     |          | 9772608<br>11477432 |
| 946     |      | 122-High due to injection tech. |     |          | 9540512/11477432    |
| 947     | 0832 | 1-B'gend 122                    | X   |          | 9540512             |
| 948     | 0838 | 1-B'gend                        | 2   |          | 44133               |
| 949     | 0840 | 2                               | 115 |          | 2778440             |
| 950     | 0852 | 3                               | 67  |          | 1517226             |
| 951     | 0859 | 4                               | 39  |          | 442900              |
| 952     | 0906 | 5                               | 26  |          | 710933              |
| 953     | 0914 | 6                               | 23  |          | 689455              |
| 954     | 0919 | 7                               | 23  |          | 577631              |
| 955     | 0925 | 8                               | 21  |          | 708349              |
| 956     | 0934 | 9                               | 16  |          | 8504677             |
| 957     | 0941 | 10                              | 13  |          | 387546              |
| 958     | 0951 | 11                              | 9   |          | 305040              |
| 959     | 1010 | 204 4.344 -Lend/Purge           |     |          | 15753016            |
| 960     |      | 204 4.348                       |     |          | 17712032            |
| 961     |      | 204 4.347                       |     |          | 18269232            |
| 962     |      | 122 4.347                       |     |          | 10231520            |
| 963     |      | 59.2 4.343                      |     |          | 5499240             |
| 964     |      | 59.2 4.342                      |     |          | 5814784             |
| 965     | 1238 | 1                               | 116 |          | 4076226             |
| 966     | 1244 | 2 (early start)                 | 215 |          | 8626010             |
| 967     | 1250 | 3                               | 440 |          | 15895208            |
| 968     | 1258 | 4                               | 172 |          | 5226131             |
| 969     | 1307 | 5                               | 345 |          | 11886752            |
| 970     | 1314 | 6                               | 560 |          | 16623456            |
| 971     | 1320 | 7                               | 470 |          | 15573088            |
| 972     | 1330 | 8                               | 265 |          | 9077683             |

cal 7  
NMMA-12-1  
0417-01

End  
Post-01

0417-02

Radian International LLC  
Stelling Engineering, P.A.  
Air Tech Environmental LLC

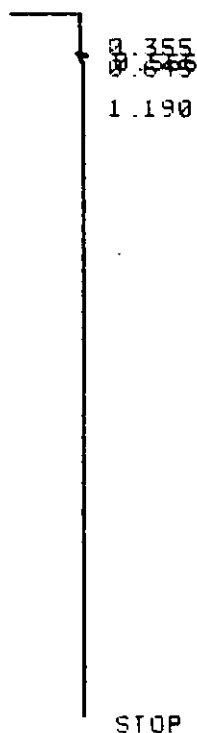
Date: 4/17/97

Test NMA-9-1

0417-228/End FC

[illegible]

\* RUN # 939 APR 17, 1997 06:59:09  
START



RUN# 939 APR 17, 1997 06:59:09

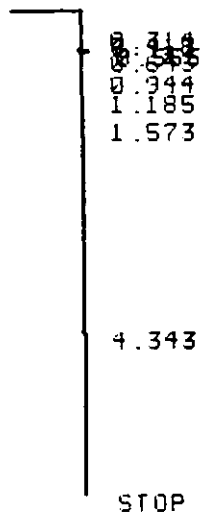
NO CALIB PEAKS FOUND

AREA%

| RT    | AREA  | TYPE | WIDTH | AREA%    |
|-------|-------|------|-------|----------|
| .355  | 69660 | OU   | .277  | 43.73787 |
| .566  | 15565 | FU   | .022  | 9.77290  |
| .645  | 52648 | UU   | .165  | 33.05645 |
| 1.190 | 21394 | UU   | .214  | 13.43279 |

TOTAL AREA= 150267  
MUL FACTOR=1.0000E+00

\* RUN # 940 APR 17, 1997 07:09:42



STOP

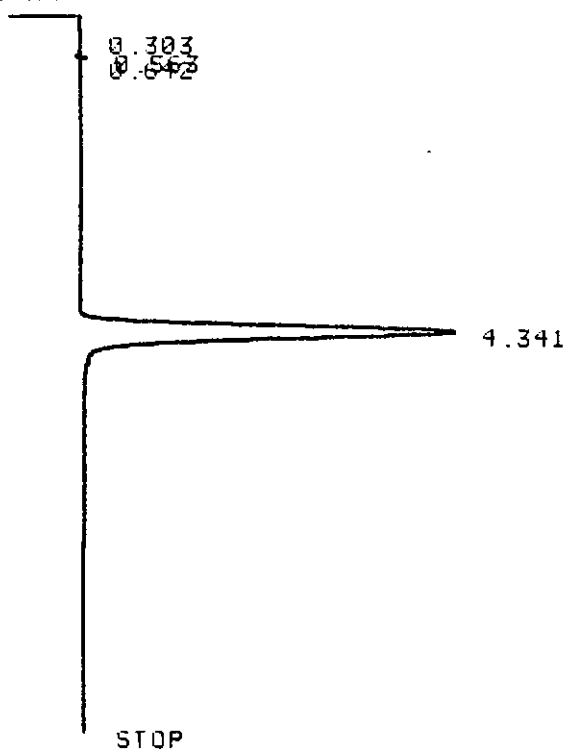
RUN# 940 APR 17, 1997 07:09:42

ESTD-AREA

| RT    | AREA | TYPE | CALC | AMOUNT |
|-------|------|------|------|--------|
| 4.343 | 2044 | UP   | 2    | .020   |

TOTAL AREA= 257844  
MUL FACTOR=1.0000E+00

\* RUN # 941 APR 17, 1997 07:24:19  
START



STOP

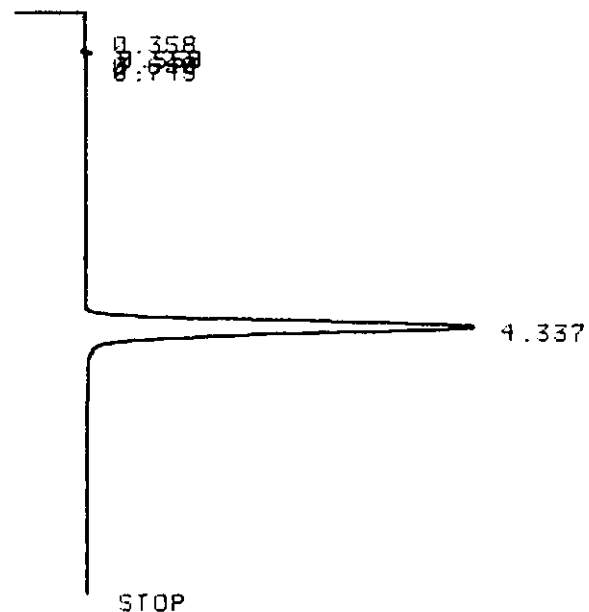
RUN# 941 APR 17, 1997 07:24:19

ESTD-AREA



TOTAL AREA=4113514  
MUL FACTOR=1.0000E+00

\* RUN # 942 APR 17, 1997 07:34:49  
START

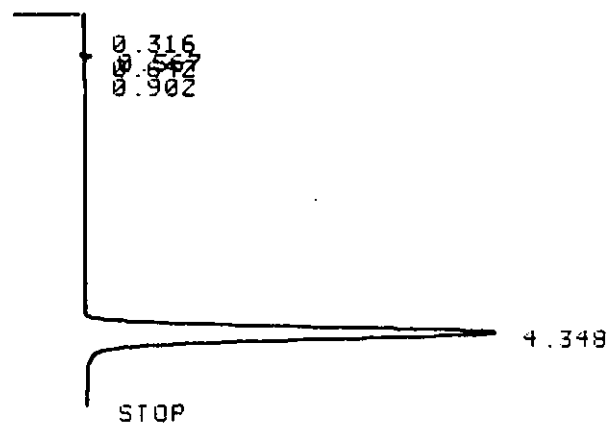


RUN# 942 APR 17, 1997 07:34:49

| ESTD-AREA | RT    | AREA    | TYPE | CAL# | AMOUNT |
|-----------|-------|---------|------|------|--------|
|           | 4.337 | 4536176 | 00   | 2    | 44.908 |

TOTAL AREA=4700595  
MUL FACTOR=1.0000E+00

\* RUN # 943 APR 17, 1997 07:43:43  
START



RUN# 943

APR 17, 1997 07:43:43

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.348 | 4768189 | P8   | 2    | 47.205 |

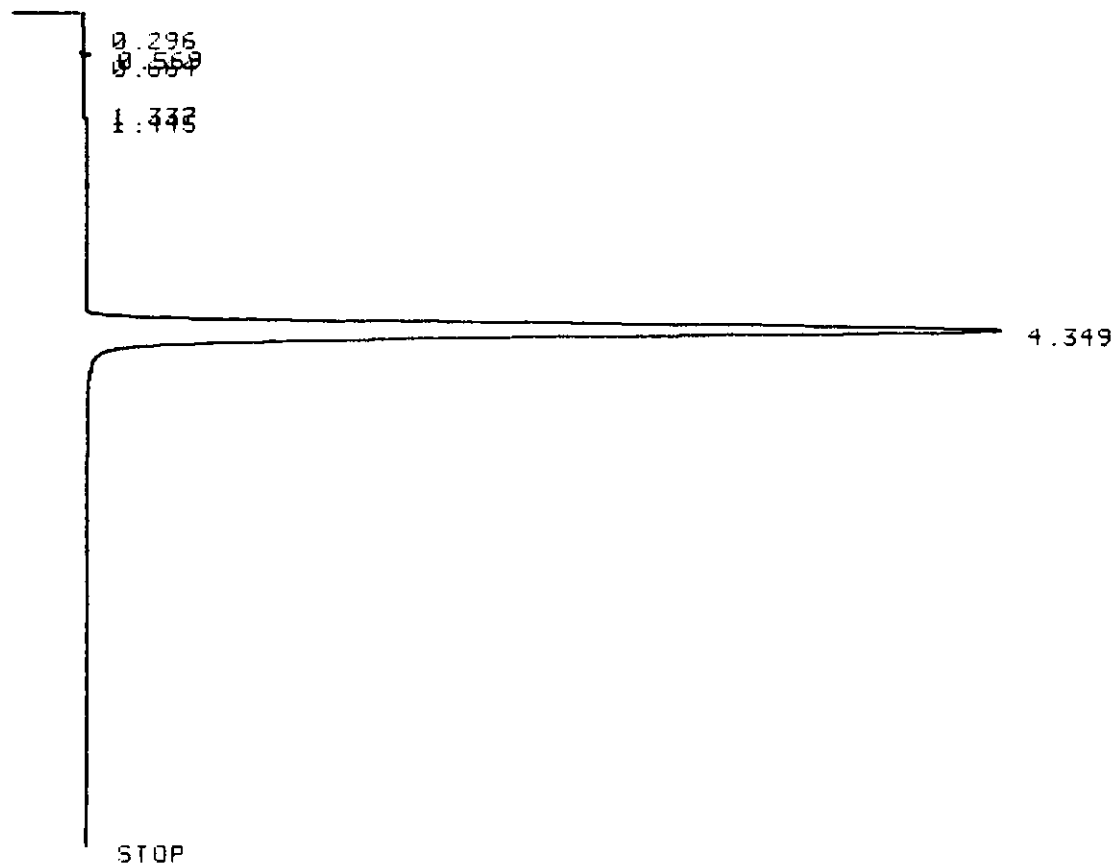
TOTAL AREA=4841909

MUL FACTOR=1.0000E+00

\* RUN # 944

APR 17, 1997 07:53:17

START



RUN# 944

APR 17, 1997 07:53:17

ESTD-AREA

| RT    | AREA     | TYPE | CAL# | AMOUNT  |
|-------|----------|------|------|---------|
| 4.349 | 10597432 | P8   | 2    | 104.915 |

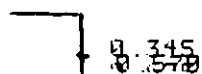
TOTAL AREA=1.0679E+07

MUL FACTOR=1.0000E+00

\* RUN # 945

APR 17, 1997 08:06:54

START



1.446

4.350

STOP

RUN# 945 APR 17, 1997 08:06:54

ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT |
|-------|------------|------|--------|
| 4.350 | 9772608 PB | 2    | 96.749 |

TOTAL AREA=2.8214E+06  
MUL FACTOR=1.0000E+00

/

\* RUN # 946 APR 17, 1997 08:17:46

START

0.355  
0.548

1.488

2.501

4.349

STOP

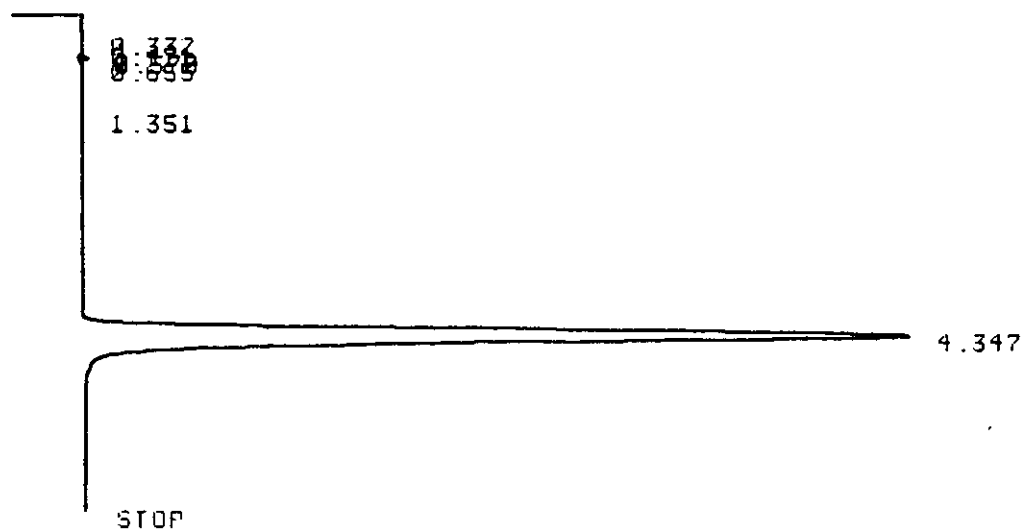
RUN# 946 APR 17, 1997 08:17:46

ESTD-AREA

| RT    | AREA TYPE   | CAL# | AMOUNT  |
|-------|-------------|------|---------|
| 4.349 | 11477432 PB | 2    | 113.627 |

TOTAL AREA=1.1688E+07  
MUL FACTOR=1.0000E+00

\* RUN # 947 APR 17, 1997 08:24:46  
START



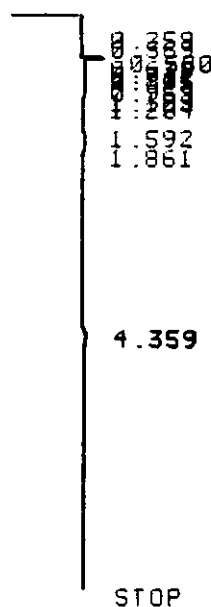
RUN# 947 APR 17, 1997 08:24:46

ESTD-AREA

| RT    | AREA    | TYPE | CALC | AMOUNT |
|-------|---------|------|------|--------|
| 4.347 | 9540512 | PB   | 2    | 94.451 |

TOTAL AREA=9.7039E+06  
MUL FACTOR=1.0000E+00

\* RUN # 948 APR 17, 1997 08:32:12  
START



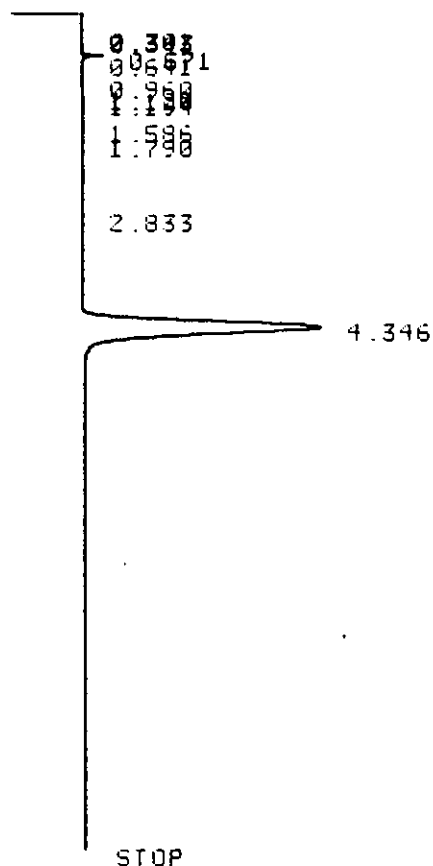
RUN# 948 APR 17, 1997 08:32:12

ESTD-AREA

| RT    | AREA  | TYPE | CALC | AMOUNT |
|-------|-------|------|------|--------|
| 1.861 | 40310 | UU   | 1    | 1.693  |
| 4.359 | 44133 | PV   | 2    | 437    |

TOTAL AREA= 304959  
MUL FACTOR=1.0000E+00

\* RUN # 949 APR 17, 1997 08:40:19  
START



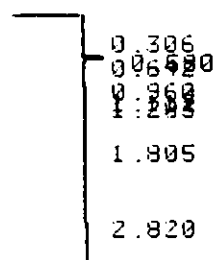
STOP

RUN# 949 APR 17, 1997 08:40:19

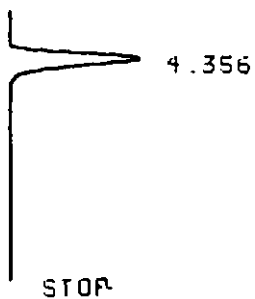
| ESTD-AREA | RT    | AREA TYPE | CAL# | AMOUNT |
|-----------|-------|-----------|------|--------|
|           | 4.346 | 2778440   | PB 2 | 27.507 |

TOTAL AREA=2959470  
MUL FACTOR=1.0000E+00

\* RUN # 950 APR 17, 1997 08:52:19  
START



2.820

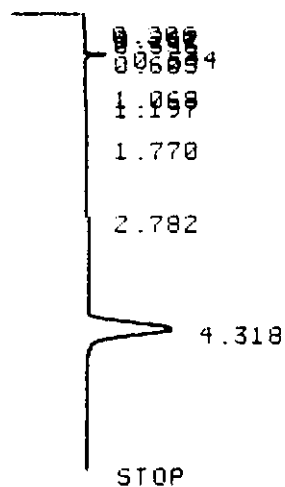


RUN# 950 APR 17, 1997 08:52:19

| ESTD-AREA | RT    | AREA    | TYPE | CAL# | AMOUNT |
|-----------|-------|---------|------|------|--------|
|           | 4.356 | 1517226 | 80   | 2    | 15.021 |

TOTAL AREA=1584140  
MUL FACTOR=1.0000E+00

\* RUN # 951 APR 17, 1997 08:59:51  
START

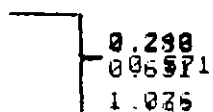


RUN# 951 APR 17, 1997 08:59:51

| ESTD-AREA | RT    | AREA   | TYPE | CAL# | AMOUNT |
|-----------|-------|--------|------|------|--------|
|           | 4.318 | 992900 | 80   | 2    | 9.830  |

TOTAL AREA=1160606  
MUL FACTOR=1.0000E+00

\* RUN # 952 APR 17, 1997 09:06:26  
START



1.792

4.345

STOP

RUN# 952 APR 17, 1997 09:06:26

ESTD-AREA

| RT    | AREA TYPE | CAL# | AMOUNT |
|-------|-----------|------|--------|
| 4.345 | 710935 PB | 2    | 7.038  |

TOTAL AREA= 845973  
MUL FACTOR=1.0000E+00

\* RUN # 953 APR 17, 1997 09:14:01  
START; not ready

0.312  
0.06952  
1.108  
1.796

4.347

STOP

RUN# 953 APR 17, 1997 09:14:01

ESTD-AREA

| RT    | AREA TYPE | CAL# | AMOUNT |
|-------|-----------|------|--------|
| 4.347 | 689155 BA | 2    | 6.826  |

TOTAL AREA= 868844  
MUL FACTOR=1.0000E+00

\* RUN # 954 APR 17, 1997 09:19:40  
START

0.700

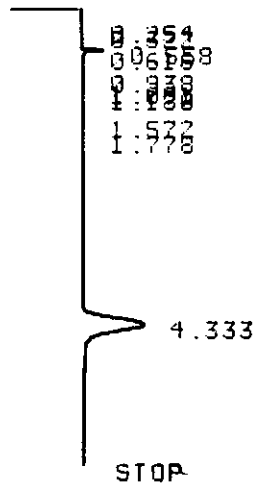


RUN# 954 APR 17, 1997 09:19:40

| ESTD-AREA | RT    | AREA TYPE | CAL# | AMOUNT |
|-----------|-------|-----------|------|--------|
|           | 4.354 | 577031    | BB 2 | 5.713  |

TOTAL AREA= 766696  
MUL FACTOR=1.0000E+00

\* RUN # 955 APR 17, 1997 09:25:32  
START



RUN# 955 APR 17, 1997 09:25:32

| ESTD-AREA | RT    | AREA TYPE | CAL# | AMOUNT |
|-----------|-------|-----------|------|--------|
|           | 4.333 | 708340    | BB 2 | 7.013  |

TOTAL AREA= 888195  
MUL FACTOR=1.0000E+00

\* RUN # 956 APR 17, 1997 09:34:27  
START



0.282  
006474  
1:098  
1:505

4.350

STOP

RUN# 956 APR 17, 1997 09:34:27

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 4.350 | 504677 | BA   | 2    | 4.996  |

TOTAL AREA= 572728

MUL FACTOR=1.0000E+00

\* RUN # 957 APR 17, 1997 09:41:00  
START

0.375  
006485  
0:0485  
1:197  
1.796

4.351

STOP

RUN# 957 APR 17, 1997 09:41:00

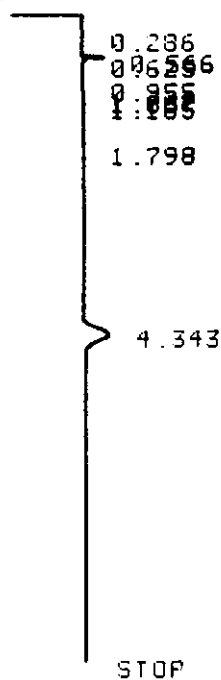
ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 4.351 | 387596 | DU   | 2    | 3.837  |

TOTAL AREA= 561400

MUL FACTOR=1.0000E+00

\* RUN # 958 APR 17, 1997 09:51:47  
START

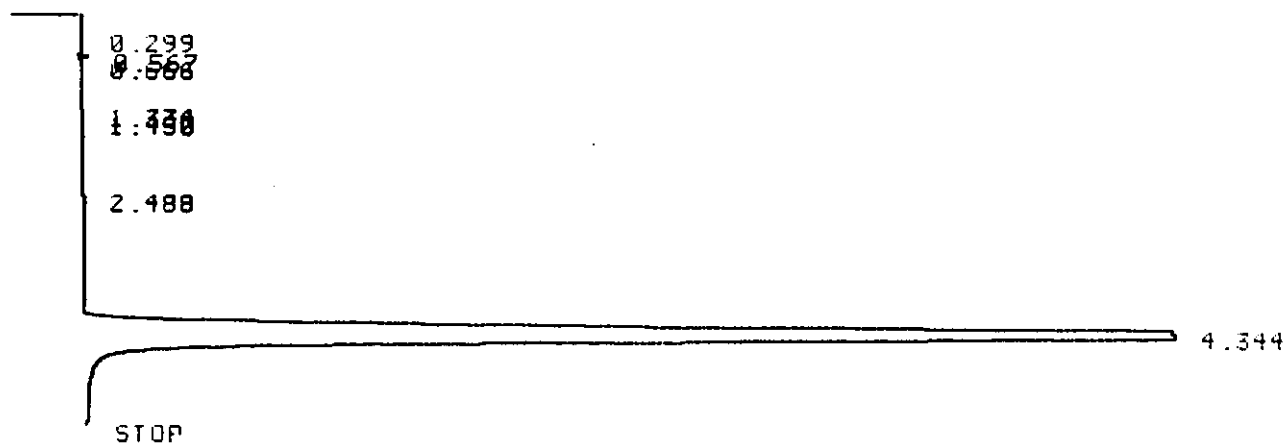


RUN# 958 APR 17, 1997 09:51:47

| ESTD-AREA | RT    | AREA TYPE | CALC | AMOUNT |
|-----------|-------|-----------|------|--------|
|           | 4.343 | 305040    | PV 2 | 3.020  |

TOTAL AREA= 379133  
MUL FACTOR=1.0000E+00

\* RUN # 959 APR 17, 1997 10:10:35  
START

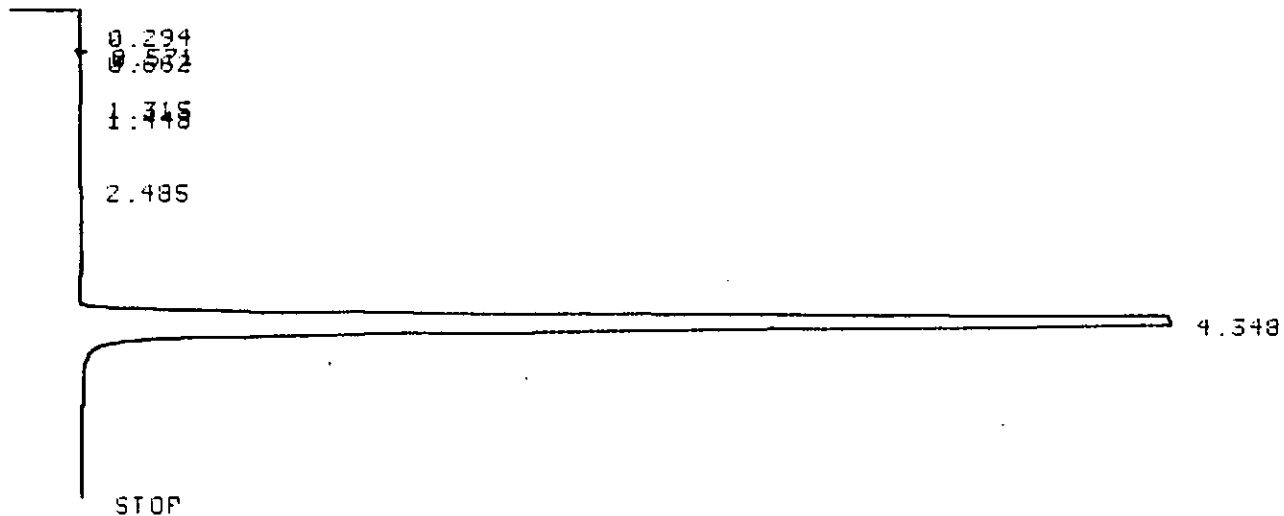


RUN# 959 APR 17, 1997 10:10:35

| ESTD-AREA | RT    | AREA TYPE | CALC | AMOUNT |
|-----------|-------|-----------|------|--------|
|           | 4.344 | 305040    | PV 2 | 3.020  |

TOTAL AREA=1.5849E+07  
MUL FACTOR=1.0000E+00

\* RUN # 960 APR 17, 1997 10:16:50  
START



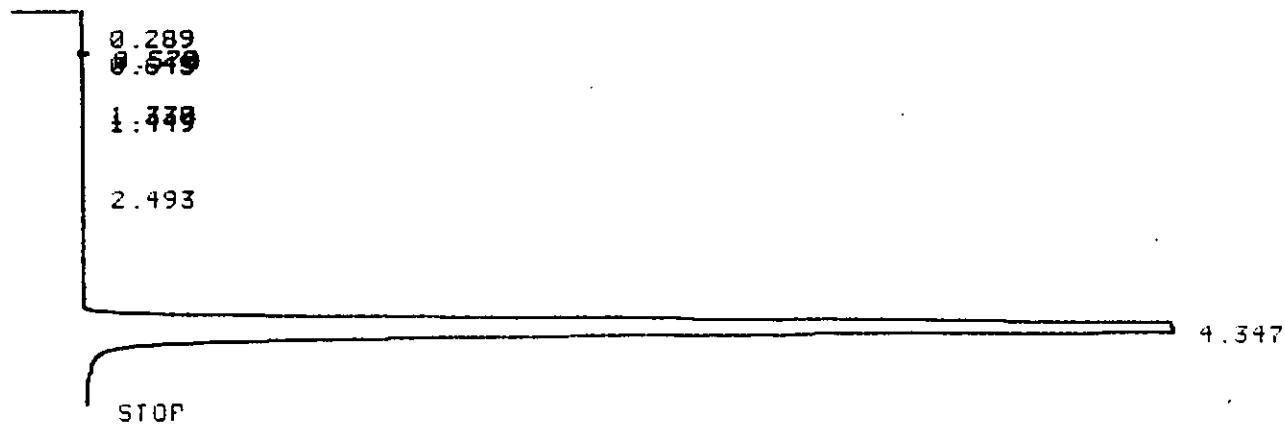
RUN# 960 APR 17, 1997 10:16:50

ESTO-AREA

| RT    | AREA TYPE | CAL# | AMOUNT  |
|-------|-----------|------|---------|
| 4.348 | 17212032  | P8 2 | 170.399 |

TOTAL AREA=1.7318E+07  
MUL FACTOR=1.0000E+00

\* RUN # 961 APR 17, 1997 10:24:19  
START



RUN# 961 APR 17, 1997 10:24:19

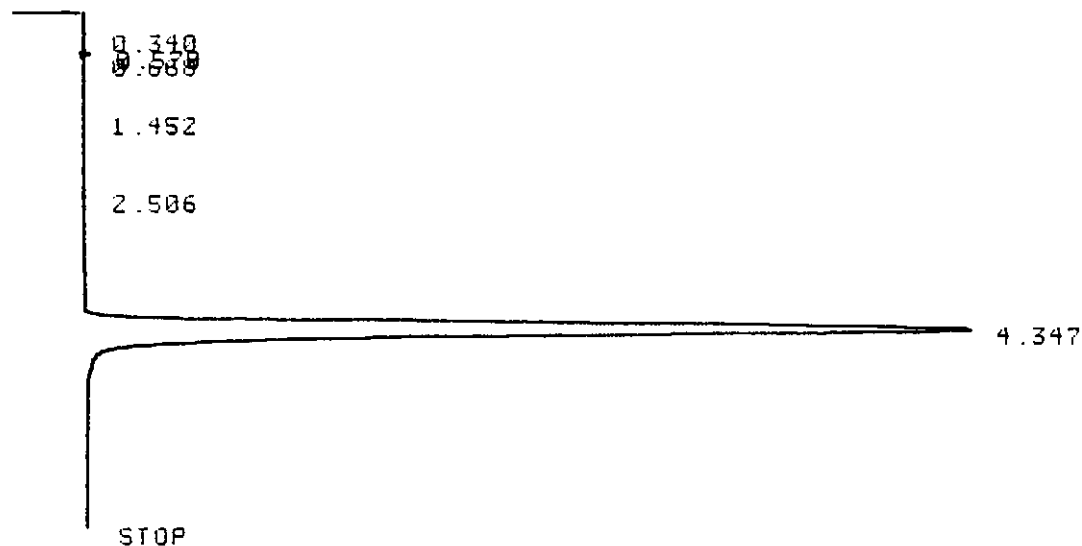
ESTO-AREA

| RT | AREA TYPE | CAL# | AMOUNT |
|----|-----------|------|--------|
|----|-----------|------|--------|

4.347 18269232 P0 2 180.865

TOTAL AREA=1.0430E+07  
MUL FACTOR=1.0000E+00

\* RUN # 962 APR 17, 1997 10:30:40  
START



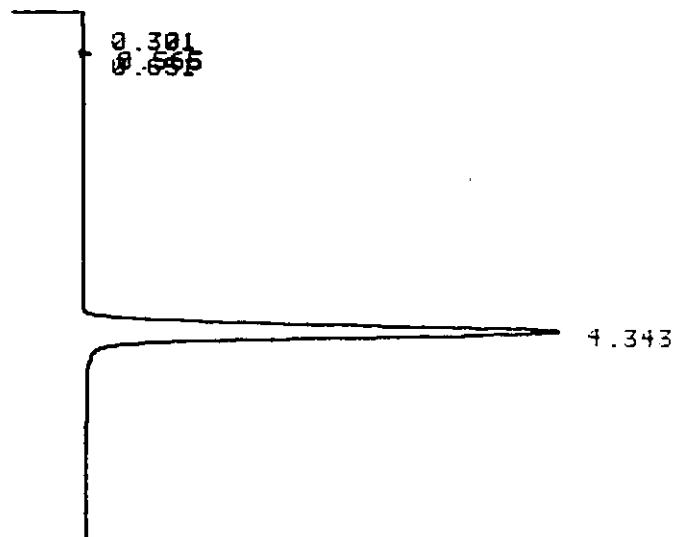
RUN# 962 APR 17, 1997 10:30:40

CSTD-AREA

| RT    | AREA     | TYPE | CALC | AMOUNT  |
|-------|----------|------|------|---------|
| 4.347 | 10231520 | 80   | 2    | 101.292 |

TOTAL AREA=1.0346E+07  
MUL FACTOR=1.0000E+00

\* RUN # 963 APR 17, 1997 10:40:40  
START



STOP

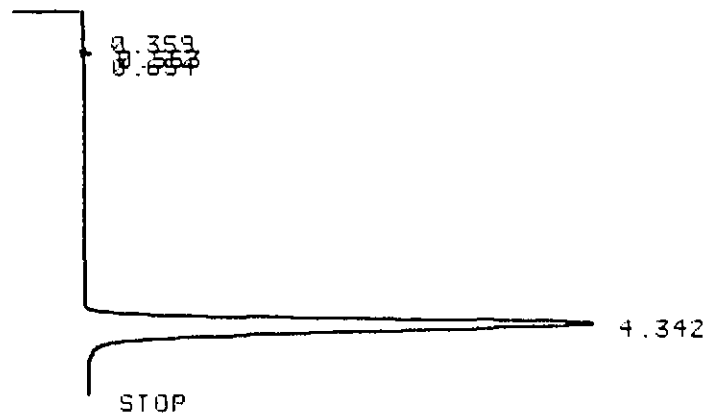
RUN# 963 APR 17, 1997 10:40:40

ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT |
|-------|------------|------|--------|
| 4.343 | 5492210 BA | 2    | 54.443 |

TOTAL AREA=5580349  
MUL FACTOR=1.0000E+00

\* RUN # 964 APR 17, 1997 10:51:45  
START



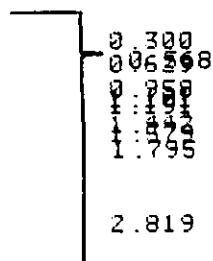
RUN# 964 APR 17, 1997 10:51:45

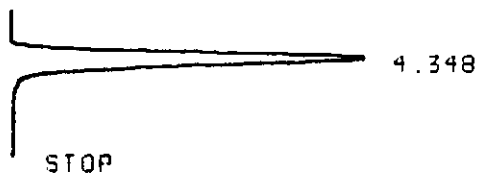
ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT |
|-------|------------|------|--------|
| 4.342 | 5894787 PB | 2    | 50.358 |

TOTAL AREA=6051520  
MUL FACTOR=1.0000E+00

\* RUN # 965 APR 17, 1997 12:38:29  
START



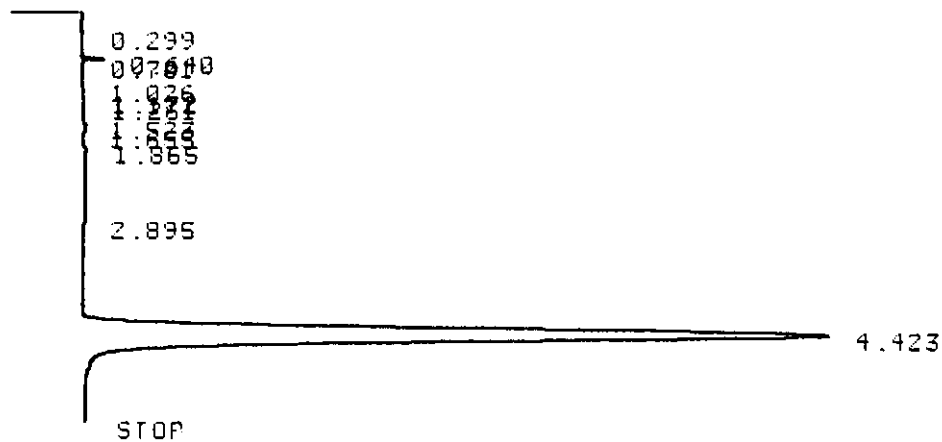


RUN# 965 APR 17, 1997 12:38:29

| ESTD-AREA | RT    | AREA TYPE  | CAL# | AMOUNT |
|-----------|-------|------------|------|--------|
|           | 4.348 | 4076226 BB | 2    | 40.355 |

TOTAL AREA=4200202  
MUL FACTOR=1.0000E+00

\* RUN # 966 APR 17, 1997 12:44:30  
START

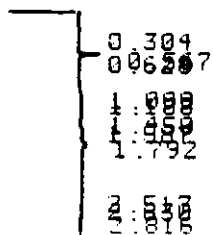


RUN# 966 APR 17, 1997 12:44:30

| ESTD-AREA | RT    | AREA TYPE  | CAL# | AMOUNT |
|-----------|-------|------------|------|--------|
|           | 1.865 | 35793 UU   | 1    | 1.503  |
|           | 4.423 | 8626010 PD | 2    | 05.397 |

TOTAL AREA=8.8504E+06  
MUL FACTOR=1.0000E+00

\* RUN # 967 APR 17, 1997 12:50:25  
START



3.225

4.351

STOP

RUN# 967 APR 17, 1997 12:50:25

ESTD-AREA

| RT    | AREA TYPE | CALC | AMOUNT  |
|-------|-----------|------|---------|
| 4.351 | 15895200  | BB 2 | 157.362 |

TOTAL AREA=1.6289E+07  
MUL FACTOR=1.0000E+00

\* RUN # 968 APR 17, 1997 12:58:40  
START

0.282  
0.06584  
0.868  
1.465  
1.800

2.833

4.360

STOP

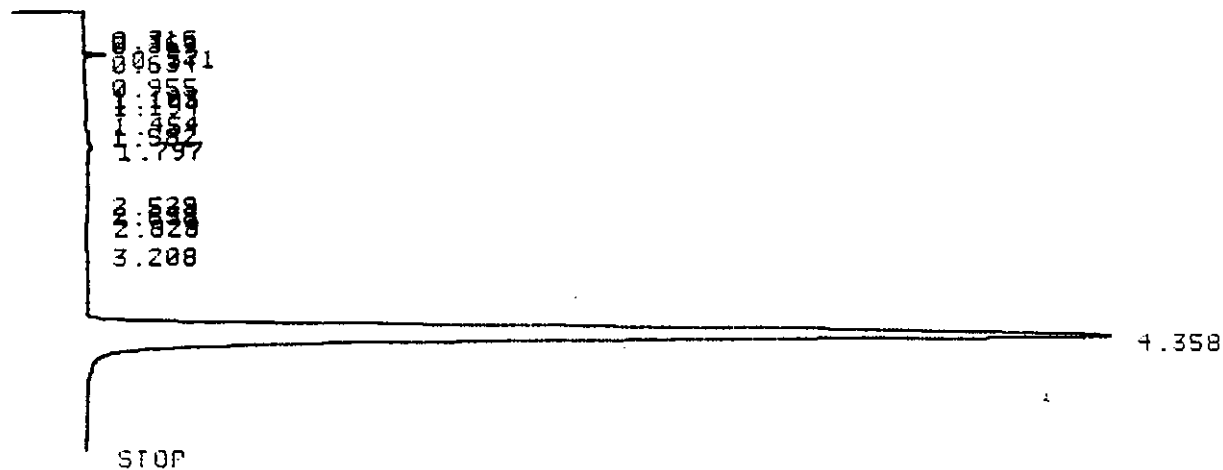
RUN# 968 APR 17, 1997 12:58:40

ESTD-AREA

| RT    | AREA TYPE | CALC | AMOUNT |
|-------|-----------|------|--------|
| 1.800 | 47774     | UU 1 | 2.007  |
| 4.360 | 5226131   | BB 2 | 51.730 |

TOTAL AREA=5520183  
MUL FACTOR=1.0000E+00

START



RUN# 969 APR 17, 1997 13:07:39

ESTD-AREA

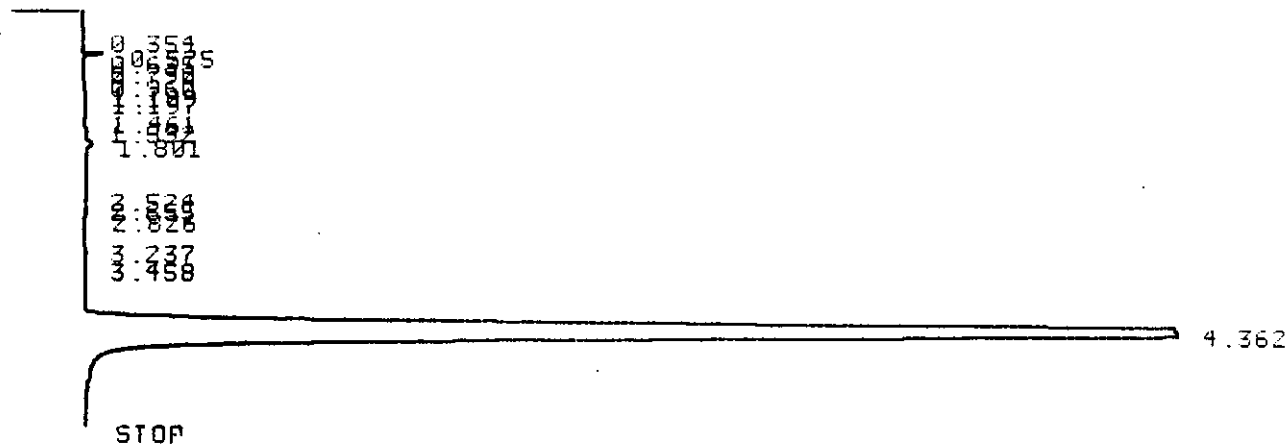
| RT    | AREA     | TYPE | CHL# | AMOUNT  |
|-------|----------|------|------|---------|
| 1.797 | 53270    | UU   | 1    | 2.237   |
| 4.358 | 11806752 | BB   | 2    | 117.679 |

TOTAL AREA=1.2171E+07

MUL FACTOR=1.0000E+00

\* RUN # 970 APR 17, 1997 13:14:14

START



RUN# 970 APR 17, 1997 13:14:14

ESTD-AREA

| RT    | AREA     | TYPE | CHL# | AMOUNT  |
|-------|----------|------|------|---------|
| 1.801 | 99368    | UU   | 1    | 4.173   |
| 4.362 | 16623456 | BB   | 2    | 164.572 |

TOTAL AREA=1.7135E+07

MUL FACTOR=1.0000E+00



\* RUN # 971      APR 17, 1997 13:20:37  
START

0.245  
0.655  
0.955  
1.155  
1.455  
1.797  
2.504  
2.830  
3.184

4.358

STOP

RUN# 971      APR 17, 1997 13:20:37

ESTD-AREA

| RT    | AREA     | TYPE | CAL# | AMOUNT  |
|-------|----------|------|------|---------|
| 1.797 | 69752    | UU   | 1    | 2.930   |
| 4.358 | 15573008 | PG   | 2    | 155.678 |

TOTAL AREA=1.5836E+07

MUL FACTOR=1.0000E+00

\* RUN # 972      APR 17, 1997 13:30:25  
START

0.317  
0.624  
0.955  
1.155  
1.455  
1.800  
2.512  
2.833  
3.242

4.360

STOP

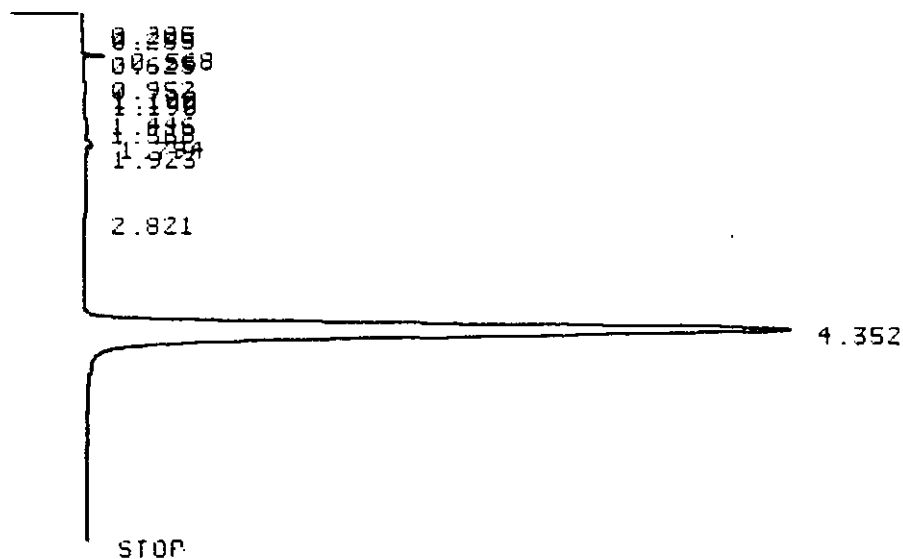
RUN# 972 APR 17, 1997 13:38:25

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.800 | 50573   | UU   | 1    | 2.124  |
| 4.368 | 9077683 | PB   | 2    | 89.869 |

TOTAL AREA=9.2465E+06  
MUL FACTOR=1.0000E+00

\* RUN # 973 APR 17, 1997 13:42:30  
START



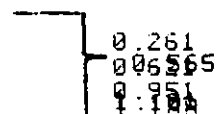
RUN# 973 APR 17, 1997 13:42:30

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.794 | 71952   | UU   | 1    | 3.022  |
| 4.352 | 8175213 | PB   | 2    | 80.935 |

TOTAL AREA=8.5019E+06  
MUL FACTOR=1.0000E+00

\* RUN # 974 APR 17, 1997 13:51:37  
START



1.588  
1.929  
2.820  
3.258

4.351

STOP

RUN# 974 APR 17, 1997 13:51:37

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.791 | 75129   | UU   | 1    | 3.155  |
| 4.351 | 7716544 | PB   | 2    | 76.394 |

TOTAL AREA=8083914  
MUL FACTOR=1.0000E+00

\* RUN # 975 APR 17, 1997 14:54:45  
START

0.188  
0.550  
0.550  
1.113  
1.113  
1.113  
1.113  
1.113  
2.226  
2.226  
2.226  
3.231

4.350

STOP

RUN# 975 APR 17, 1997 14:54:45

ESTD-AREA

| RT    | AREA     | TYPE | CAL# | AMOUNT  |
|-------|----------|------|------|---------|
| 1.793 | 26505    | UU   | 1    | 1.113   |
| 4.350 | 13197040 | PB   | 2    | 130.651 |

TOTAL AREA=1.3350E+07  
MUL FACTOR=1.0000E+00

\* RUN # 976 APR 17, 1997 15:01:24  
START

0.284

1.795  
2.500  
2.820  
3.231  
3.460

4.350

STOP

RUN# 976 APR 17, 1997 15:01:24

ESTD-AREA

| RT    | AREA     | TYPE | CHL# | AMOUNT  |
|-------|----------|------|------|---------|
| 1.795 | 78370    | UU   | 1    | 3.292   |
| 4.350 | 18612320 | PB   | 2    | 184.267 |

TOTAL AREA=1.0066E+07  
MUL FACTOR=1.0000E+00

\* RUN # 977 APR 17, 1997 15:09:00  
START

1.795  
2.500  
2.820  
3.232

4.354

STOP

RUN# 977 APR 17, 1997 15:09:00

ESTD-AREA

| RT    | AREA     | TYPE | CALC# | AMOUNT  |
|-------|----------|------|-------|---------|
| 1.795 | 60057    | UU   | 1     | 2.926   |
| 4.354 | 13000928 | PB   | 2     | 135.441 |

TOTAL AREA=1.4021E+07  
MUL FACTOR=1.0000E+00

4/17

182

Cal @ THCo = 1604 m1800 (direct)

Initial Resum = 236.29

Dalim 0830 0417-01 = Numa - 12-1

Resin final = 230.2 Net resum = 6.05# = 2.54# Styrene

Flow: 0847  $\Delta P = 0.22$   $P_s = -2.4$  ~~down~~ 0854

|                           |         |                                       |
|---------------------------|---------|---------------------------------------|
| #6 .20                    | V 8 .17 | $T_s = 65$                            |
| 7 .25                     | 7 .20   | $P_b = 30.19$                         |
| 6 .24                     | 6 .22   | $RH = 42\% @ 49^\circ$                |
| 5 .25<br><del>5 .24</del> | 5 .22   | $Q = \textcircled{7231} 3241$         |
| 4 .22                     | 4 .24   | $\overline{THC} = 40.3$               |
| 3 .21                     | 3 .22   | $\Theta = 87'' - 1.27\# sty = 50.1\%$ |
| 2 .21                     | 2 .22   |                                       |
| 1 .18                     | 1 .20   |                                       |

Pot misaligned slightly since end of traverse till 0915 (nearly .21 vs .22)

Suspect position of mold in TTE impacting tail length - near door where air flow may be low this run.

- High back pressure @ post-01 in 30.4 ppm. Proper @ 10:04:34 (don't know when it shifted).

- THCo recalced post Run 01 on 0417A. Cal, instruments showing non linear mid range response

0417-02 on lin 1234 Numa - 9-1 28' hull 42% FC

Initial resum = 442.14

Sprag @ 1236 (skin)

Boat flip ~1300, Restart second 1/2 skin

Skin done ~1319

Skin done w/flow crater, which we don't want. Redoing skin over one just laid w/air assist. TTE opened to ventilate

1820

0417-02

4/17 cont

Page 2 of 2

Initial Resin = 445.00

Outline 0417-02B @ 1449 mmA-4-1 28' hull 420%

Sprayer 1450

Gauge door closed 1456 (TS impact)

Second skin @ 1511

Second skin did not stick to the first when boat flipped.

Will do 28' hull Saturday as work up run.

Only good data today is CFA mold

CALIBRATION SUMMARY:

04-17-1997 08:06:51

CALIBRATION FILE NAME = c:\ceadata\0417a.CAL

| Item | Name  | Units | Zero        | Soan        | Slope | Int.   |
|------|-------|-------|-------------|-------------|-------|--------|
|      |       |       | Conc. Reso. | Conc. Reso. |       |        |
| 1    | THC   | 0     | 0           | 1604        | 8.9   | 179.75 |
| 2    | THC   | 0     | .01         | 45.5        | 9.2   | 4.96   |
| 3    | Flow  | inH2O | 2.97        | 1.7         | 3.8   | 2.09   |
| 4    | Temp  | F     | 32          | 1.98        | 212   | 3.3    |
| 5    | Resin | lb    | 0           | 1.46        | 600   | 4.3    |
| 6    | Ps    | inH2O | 0           | .71         | -1.7  | 1.1    |



RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-17-1997 Current Time = 08:10:12  
 File Name = c:\cemdata\041797.PRN Calibration File: c:\cemdata\0417a.CAL

Test #: Pre out 1604 in 45.5

| 04-17-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 08:10:15           | 1603.1       | 45.6         | 0.4           | 68.8      | 1809.8      | -2.6        |
| 08:10:16           | 1603.1       | 45.6         | 0.4           | 68.8      | 1809.8      | -2.6        |
| 08:10:24           | 1603.8       | 45.5         | 0.4           | 68.4      | 1810.0      | -2.6        |
| 08:10:34           | 1605.3       | 45.5         | 0.4           | 69.1      | 1809.8      | -2.7        |
| 08:10:44           | 1600.8       | 45.7         | 0.4           | 69.9      | 1809.8      | -2.7        |
| 08:10:54           | 1599.2       | 45.7         | 0.4           | 69.5      | 1809.8      | -2.7        |
| 08:11:04           | 1599.8       | 45.7         | 0.4           | 70.0      | 1809.8      | -2.7        |
| 08:11:14           | 1600.8       | 45.7         | 0.4           | 70.7      | 1809.7      | -2.7        |
| =====              |              |              |               |           |             |             |
| Avg =              | 1602.0       | 45.6         | 0.4           | 69.4      | 1809.8      | -2.7        |
| =====              |              |              |               |           |             |             |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-17-1997 Current Time = 08:16:22

File Name = c:\cemdata\041797.PRN Calibration File:c:\cemdata\0417a.CAL

Test #: Pre out 600 in 30.4

| 04-17-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 08:16:26           | 605.3        | 31.3         | 0.2           | 59.3      | -345.8      | -2.4        |
| 08:16:27           | 605.3        | 31.3         | 0.2           | 59.3      | -345.8      | -2.4        |
| 08:16:34           | 603.4        | 31.2         | 0.2           | 59.2      | -344.5      | -2.4        |
| 08:16:44           | 604.6        | 31.2         | 0.2           | 59.1      | -338.3      | -2.4        |
| 08:16:54           | 605.2        | 31.2         | 0.2           | 59.1      | -335.5      | -2.4        |
| 08:17:04           | 604.2        | 31.2         | 0.2           | 59.1      | -342.8      | -2.4        |
| 08:17:14           | 603.5        | 31.1         | 0.2           | 59.2      | -339.7      | -2.4        |
| 08:17:24           | 603.5        | 31.2         | 0.2           | 59.4      | -336.6      | -2.4        |
| 08:17:34           | 603.5        | 31.2         | 0.2           | 59.6      | -340.7      | -2.4        |
| Avg =              | 604.3        | 31.2         | 0.2           | 59.3      | -341.0      | -2.4        |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, MA

Performed for: NMMA

Date Printed = 04-17-1997 Current Time = 08:20:57

File Name = c:\cemdata\041797.PRN Calibration File:c:\cemdata\0417a.CAL

Test #: Pre out 914 ion 15.0

| 04-17-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 08:21:01           | 914.7        | 15.6         | 0.2           | 59.3      | -431.9      | -2.4        |
| 08:21:04           | 912.5        | 15.6         | 0.2           | 59.6      | -464.0      | -2.3        |
| 08:21:14           | 913.1        | 15.5         | 0.2           | 59.6      | -403.1      | -2.4        |
| 08:21:24           | 913.1        | 15.5         | 0.2           | 59.6      | -403.0      | -2.4        |
| 08:21:34           | 912.9        | 15.5         | 0.2           | 59.6      | -406.5      | -2.4        |
| 08:21:44           | 912.4        | 15.6         | 0.2           | 59.6      | -408.4      | -2.4        |
| Avg =              | 913.1        | 15.5         | 0.2           | 59.5      | -419.5      | -2.4        |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-17-1997 Current Time = 08:24:35

File Name = c:\ceedata\041797.PRN Calibration File: c:\ceedata\0417a.CAL

Test #: Pre out 297 in 0

| 04-17-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 08:24:39           | 296.6        | -0.2         | 0.2           | 60.3      | -508.2      | -2.4        |
| 08:24:41           | 296.6        | -0.2         | 0.2           | 60.3      | -508.2      | -2.4        |
| 08:24:44           | 296.8        | -0.2         | 0.2           | 60.6      | 236.1       | -2.4        |
| 08:24:54           | 296.6        | -0.2         | 0.2           | 60.6      | 235.8       | -2.4        |
| 08:25:04           | 296.7        | -0.2         | 0.2           | 60.7      | 235.7       | -2.4        |
| 08:25:14           | 296.6        | -0.2         | 0.2           | 60.7      | 235.7       | -2.4        |
| 08:25:24           | 296.6        | -0.2         | 0.2           | 60.8      | 235.8       | -2.4        |
| 08:25:34           | 296.6        | -0.3         | 0.2           | 60.8      | 235.8       | -2.4        |
| Avg =              | 296.6        | -0.2         | 0.2           | 60.6      | 49.8        | -2.4        |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-17-1997 Current Time = 08:27:25

File Name = c:\ceadata\041797.PRM Calibration File: c:\ceadata\0417a.CAL

Test #: Pre out 0

| 04-17-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 08:27:29           | 0.1          | 1.2          | 0.2           | 61.1      | 236.1       | -2.4        |
| 08:27:34           | 0.1          | 1.2          | 0.2           | 61.4      | 236.1       | -2.4        |
| 08:27:44           | 0.1          | 1.2          | 0.2           | 61.5      | 236.1       | -2.4        |
| 08:27:54           | 0.0          | 1.2          | 0.2           | 61.6      | 236.1       | -2.4        |
| 08:28:04           | 0.0          | 1.2          | 0.2           | 61.6      | 236.1       | -2.4        |
| 08:28:14           | 0.1          | 1.1          | 0.2           | 61.6      | 236.2       | -2.4        |
| 08:28:24           | 0.0          | 1.4          | 0.2           | 61.6      | 236.2       | -2.4        |
| 08:28:34           | 0.1          | 5.8          | 0.2           | 61.8      | 236.2       | -2.4        |
| Avg =              | 0.1          | 1.8          | 0.2           | 61.5      | 236.1       | -2.4        |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for:

NMMA

Date Printed = 04-17-1997 Current Time = 08:29:43

File Name = c:\ceadata\041797.PRN Calibration File:c:\ceadata\0417a.CAL

Test #: 0417-01

| 04-17-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 08:30:14           | 1.9          | 1.4          | 0.2           | 63.1      | 236.2       | -2.4        |
| 08:31:14           | 1.9          | 1.4          | 0.2           | 64.0      | 236.3       | -2.4        |
| 08:32:14           | 13.6         | 1.3          | 0.2           | 64.4      | 235.9       | -2.4        |
| 08:33:14           | 132.4        | 1.3          | 0.2           | 64.7      | 232.9       | -2.4        |
| 08:34:14           | 192.7        | 1.2          | 0.2           | 65.0      | 232.6       | -2.4        |
| 08:35:14           | 154.5        | 1.2          | 0.2           | 65.4      | 232.0       | -2.4        |
| 08:36:14           | 189.4        | 1.2          | 0.2           | 65.5      | 230.7       | -2.4        |
| 08:37:14           | 167.1        | 1.2          | 0.2           | 65.7      | 230.6       | -2.4        |
| 08:38:14           | 133.8        | 1.2          | 0.2           | 65.9      | 230.6       | -2.4        |
| 08:39:14           | 120.3        | 1.2          | 0.2           | 66.0      | 230.6       | -2.4        |
| 08:40:14           | 114.1        | 1.2          | 0.2           | 66.0      | 230.2       | -2.4        |
| 08:41:14           | 104.9        | 1.2          | 0.2           | 65.9      | 230.9       | -2.4        |
| 08:42:14           | 99.3         | 1.2          | 0.2           | 65.6      | 230.9       | -2.4        |
| 08:43:14           | 93.8         | 1.3          | 0.2           | 65.7      | 230.9       | -2.4        |
| 08:44:14           | 85.6         | 1.3          | 0.2           | 65.7      | 230.9       | -2.4        |
| 08:45:14           | 78.2         | 1.3          | 0.2           | 65.8      | 230.9       | -2.4        |
| 08:46:14           | 72.6         | 1.3          | 0.2           | 65.8      | 230.9       | -2.4        |
| 08:47:14           | 67.5         | 1.3          | 0.2           | 65.6      | 230.9       | -2.4        |
| 08:48:14           | 62.7         | 1.3          | 0.2           | 65.3      | 230.9       | -2.4        |
| 08:49:14           | 53.6         | 1.2          | 0.2           | 65.8      | 230.9       | -2.2        |
| 08:50:14           | 53.0         | 1.2          | 0.2           | 65.5      | 230.9       | -2.4        |
| 08:51:14           | 54.7         | 1.2          | 0.2           | 64.6      | 230.9       | -2.4        |
| 08:52:14           | 55.7         | 1.2          | 0.2           | 64.6      | 230.9       | -2.4        |
| 08:53:14           | 51.2         | 1.2          | 0.2           | 64.7      | 230.9       | -2.4        |
| 08:54:14           | 51.1         | 1.2          | 0.2           | 64.7      | 230.9       | -2.4        |
| 08:55:14           | 47.6         | 1.2          | 0.2           | 64.8      | 230.9       | -2.4        |
| 08:56:14           | 45.5         | 1.2          | 0.2           | 64.8      | 230.9       | -2.4        |
| 08:57:14           | 44.4         | 1.2          | 0.2           | 64.8      | 230.9       | -2.4        |
| 08:58:14           | 41.7         | 1.1          | 0.2           | 64.9      | 230.9       | -2.4        |
| 08:59:14           | 41.7         | 1.1          | 0.2           | 65.0      | 230.9       | -2.4        |
| 09:00:14           | 40.5         | 1.1          | 0.2           | 65.1      | 230.9       | -2.4        |
| 09:01:14           | 39.4         | 1.1          | 0.2           | 65.2      | 230.9       | -2.4        |
| 09:02:14           | 37.2         | 1.1          | 0.2           | 65.3      | 230.9       | -2.4        |
| 09:03:14           | 37.3         | 1.1          | 0.2           | 65.4      | 230.9       | -2.4        |
| 09:04:14           | 37.9         | 1.1          | 0.2           | 65.8      | 230.9       | -2.4        |
| 09:05:14           | 29.0         | 1.1          | 0.2           | 66.0      | 230.9       | -2.4        |
| 09:06:14           | 26.4         | 1.1          | 0.2           | 65.7      | 230.9       | -2.4        |
| 09:07:14           | 30.7         | 1.1          | 0.2           | 65.3      | 230.9       | -2.4        |
| 09:08:14           | 33.3         | 1.1          | 0.2           | 65.3      | 230.9       | -2.4        |
| 09:09:14           | 33.9         | 1.1          | 0.2           | 65.4      | 230.9       | -2.4        |

Test #: 0417-01

| 04-17-1997<br>Time | THC o<br>oem | THC i<br>oem | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 09:10:14           | 31.1         | 1.1          | 0.2           | 65.4      | 230.9       | -2.4        |
| 09:11:14           | 29.6         | 1.1          | 0.2           | 65.3      | 230.9       | -2.4        |
| 09:12:14           | 29.1         | 1.0          | 0.2           | 65.3      | 230.9       | -2.4        |
| 09:13:14           | 27.0         | 1.1          | 0.2           | 65.3      | 230.9       | -2.4        |
| 09:14:14           | 25.6         | 1.1          | 0.2           | 65.2      | 230.9       | -2.4        |
| 09:15:14           | 22.9         | 1.0          | 0.2           | 65.2      | 230.9       | -2.4        |
| 09:16:14           | 23.0         | 1.1          | 0.2           | 65.2      | 230.9       | -2.4        |
| 09:17:14           | 22.8         | 1.1          | 0.2           | 65.2      | 230.9       | -2.4        |
| 09:18:14           | 22.7         | 1.1          | 0.2           | 65.3      | 230.9       | -2.4        |
| 09:19:14           | 22.9         | 1.1          | 0.2           | 65.3      | 230.9       | -2.4        |
| 09:20:14           | 22.1         | 1.2          | 0.2           | 65.3      | 230.9       | -2.4        |
| 09:21:14           | 20.7         | 1.1          | 0.2           | 65.4      | 230.9       | -2.4        |
| 09:22:14           | 14.9         | 1.1          | 0.2           | 65.5      | 230.9       | -2.4        |
| 09:23:14           | 20.0         | 1.0          | 0.2           | 65.5      | 230.9       | -2.4        |
| 09:24:14           | 20.3         | 1.0          | 0.2           | 65.6      | 230.9       | -2.5        |
| 09:25:14           | 20.0         | 1.1          | 0.2           | 65.6      | 230.9       | -2.6        |
| 09:26:14           | 19.9         | 1.1          | 0.2           | 65.7      | 230.9       | -2.6        |
| 09:27:14           | 18.7         | 1.1          | 0.2           | 65.7      | 230.9       | -2.6        |
| 09:28:14           | 18.4         | 1.1          | 0.2           | 65.9      | 230.9       | -2.6        |
| 09:29:14           | 17.6         | 1.1          | 0.2           | 65.9      | 230.9       | -2.6        |
| 09:30:14           | 16.8         | 1.1          | 0.2           | 66.0      | 230.9       | -2.6        |
| 09:31:14           | 17.2         | 1.1          | 0.2           | 66.0      | 230.9       | -2.6        |
| 09:32:14           | 16.8         | 1.2          | 0.2           | 66.0      | 230.9       | -2.6        |
| 09:33:14           | 16.9         | 1.1          | 0.2           | 65.9      | 230.9       | -2.6        |
| 09:34:14           | 15.5         | 1.1          | 0.2           | 65.9      | 230.9       | -2.6        |
| 09:35:14           | 15.5         | 1.1          | 0.2           | 65.9      | 230.9       | -2.6        |
| 09:36:14           | 14.7         | 1.1          | 0.2           | 65.9      | 230.9       | -2.6        |
| 09:37:14           | 14.0         | 1.1          | 0.2           | 66.1      | 230.9       | -2.6        |
| 09:38:14           | 14.5         | 1.0          | 0.2           | 66.3      | 230.9       | -2.6        |
| 09:39:14           | 13.7         | 1.1          | 0.2           | 66.2      | 230.9       | -2.6        |
| 09:40:14           | 12.6         | 1.1          | 0.2           | 66.2      | 230.9       | -2.6        |
| 09:41:14           | 12.3         | 1.1          | 0.2           | 66.1      | 230.9       | -2.6        |
| 09:42:14           | 12.0         | 1.2          | 0.2           | 66.1      | 230.9       | -2.6        |
| 09:43:14           | 11.4         | 1.2          | 0.2           | 66.1      | 230.9       | -2.6        |
| 09:44:14           | 11.3         | 1.1          | 0.2           | 66.2      | 230.9       | -2.6        |
| 09:45:14           | 10.5         | 1.1          | 0.2           | 66.2      | 230.9       | -2.6        |
| 09:46:14           | 10.5         | 1.1          | 0.2           | 66.3      | 230.9       | -2.6        |
| 09:47:14           | 10.1         | 1.1          | 0.2           | 66.4      | 230.9       | -2.6        |
| 09:48:14           | 8.9          | 1.2          | 0.2           | 66.4      | 230.9       | -2.6        |
| 09:49:14           | 8.9          | 1.2          | 0.2           | 66.4      | 230.9       | -2.6        |
| 09:50:14           | 8.8          | 1.1          | 0.2           | 66.5      | 230.9       | -2.6        |
| 09:51:14           | 8.3          | 1.1          | 0.2           | 66.5      | 230.9       | -2.6        |
| 09:52:14           | 8.2          | 1.2          | 0.2           | 66.4      | 230.9       | -2.6        |
| 09:53:14           | 7.8          | 1.2          | 0.2           | 66.5      | 230.9       | -2.6        |
| 09:54:14           | 7.2          | 1.2          | 0.2           | 66.6      | 230.9       | -2.6        |
| 09:55:14           | 7.1          | 1.1          | 0.2           | 66.6      | 230.9       | -2.6        |
| 09:56:14           | 7.1          | 1.1          | 0.2           | 66.6      | 230.9       | -2.6        |
| 09:57:14           | 6.2          | 1.1          | 0.2           | 66.5      | 230.8       | -2.6        |
| Avg =              | 40.3         | 1.2          | 0.2           | 65.6      | 231.1       | -2.4        |

## RADIANT CORPORATION

Environmental Measurement and Analysis Department  
Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-17-1997 Current Time = 10:01:44

File Name = c:\ceedata\041797.PRN Calibration File: c:\ceedata\0417a.CAL

Test #: Post-1 out 0 in 30.4

| 04-17-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|

|          |      |      |     |      |        |      |
|----------|------|------|-----|------|--------|------|
| 10:01:46 | 0.1  | 33.0 | 0.2 | 63.4 | -355.3 | -2.5 |
| 10:01:47 | 0.1  | 33.0 | 0.2 | 63.4 | -355.3 | -2.5 |
| 10:01:49 | 0.1  | 33.0 | 0.2 | 63.4 | -355.3 | -2.5 |
| 10:01:50 | 0.1  | 33.0 | 0.2 | 63.4 | -355.3 | -2.5 |
| 10:01:54 | 0.0  | 33.0 | 0.2 | 62.6 | -343.4 | -2.5 |
| 10:02:04 | 0.0  | 33.0 | 0.2 | 62.5 | -324.4 | -2.5 |
| 10:02:14 | 0.0  | 32.9 | 0.2 | 62.5 | -339.3 | -2.5 |
| 10:02:24 | 0.1  | 32.9 | 0.2 | 62.4 | -332.2 | -2.5 |
| 10:02:34 | 0.1  | 33.0 | 0.2 | 62.5 | -339.8 | -2.5 |
| 10:02:44 | 0.0  | 33.1 | 0.2 | 62.5 | -336.5 | -2.5 |
| 10:02:54 | 0.0  | 32.7 | 0.2 | 62.4 | -338.4 | -2.5 |
| 10:03:04 | 0.1  | 32.7 | 0.2 | 62.2 | -335.7 | -2.5 |
| 10:03:14 | 0.0  | 32.8 | 0.2 | 62.0 | -340.6 | -2.5 |
| 10:03:24 | 0.0  | 33.0 | 0.2 | 62.0 | -343.7 | -2.5 |
| 10:03:34 | 0.0  | 33.1 | 0.2 | 62.0 | -339.2 | -2.5 |
| 10:03:44 | 0.0  | 33.0 | 0.2 | 62.2 | -333.0 | -2.5 |
| 10:03:54 | 0.0  | 32.9 | 0.2 | 62.2 | -337.0 | -2.5 |
| 10:04:04 | 0.0  | 32.6 | 0.2 | 62.1 | -336.0 | -2.5 |
| 10:04:14 | 0.1  | 32.5 | 0.2 | 62.0 | -338.7 | -2.5 |
| 10:04:24 | 0.0  | 32.6 | 0.2 | 62.2 | -333.8 | -2.5 |
| 10:04:34 | 0.0  | 32.6 | 0.2 | 62.1 | -339.7 | -2.5 |
| 10:04:44 | 0.0  | 32.6 | 0.2 | 62.0 | -333.0 | -2.6 |
| 10:04:54 | 0.0  | 32.7 | 0.2 | 61.9 | -338.9 | -2.5 |
| 10:05:04 | 0.0  | 32.7 | 0.2 | 61.8 | -333.2 | -2.5 |
| 10:05:14 | 0.0  | 32.8 | 0.2 | 61.7 | -338.3 | -2.5 |
| 10:05:24 | 0.0  | 32.8 | 0.2 | 61.6 | -332.7 | -2.5 |
| 10:05:34 | 0.0  | 32.8 | 0.2 | 61.6 | -339.5 | -2.5 |
| 10:05:44 | 0.0  | 32.8 | 0.2 | 61.6 | -332.7 | -2.5 |
| 10:05:54 | 0.0  | 32.6 | 0.2 | 61.5 | -339.8 | -2.5 |
| 10:06:04 | 0.1  | 32.6 | 0.2 | 61.4 | -333.9 | -2.5 |
| 10:06:14 | 0.0  | 32.6 | 0.2 | 61.3 | -339.3 | -2.5 |
| 10:06:24 | 0.0  | 32.6 | 0.2 | 61.2 | -333.4 | -2.6 |
| 10:06:34 | -0.0 | 32.6 | 0.2 | 61.2 | -339.3 | -2.5 |

|       |     |      |     |      |        |      |
|-------|-----|------|-----|------|--------|------|
| Avg = | 0.0 | 32.8 | 0.2 | 62.2 | -338.9 | -2.5 |
|-------|-----|------|-----|------|--------|------|



RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-17-1997 Current Time = 10:09:01

File Name = c:\cendata\041797.PRN Calibration File:c:\cendata\0417a.CAL

Test #: Post-1 out 297 in 15

| 04-17-1997<br>Time | THC 0<br>ppm | THC 1<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 10:09:04           | 300.1        | 15.7         | 0.2           | 60.8      | -391.5      | -2.5        |
| 10:09:05           | 300.1        | 15.7         | 0.2           | 60.8      | -391.5      | -2.5        |
| 10:09:14           | 300.0        | 15.6         | 0.2           | 60.8      | -388.9      | -2.5        |
| 10:09:14           | 300.0        | 15.7         | 0.2           | 60.8      | -379.3      | -2.5        |
| 10:09:34           | 300.0        | 15.7         | 0.2           | 60.8      | -378.9      | -2.5        |
| 10:09:44           | 298.4        | 15.7         | 0.2           | 60.8      | -377.5      | -2.5        |
| 10:09:54           | 298.4        | 15.8         | 0.2           | 60.8      | -379.9      | -2.5        |
| 10:10:04           | 298.3        | 15.8         | 0.2           | 60.8      | -380.2      | -2.5        |
| 10:10:14           | 298.4        | 15.7         | 0.2           | 60.8      | -380.4      | -2.5        |
| 10:10:24           | 298.4        | 15.6         | 0.2           | 60.9      | -380.2      | -2.5        |
| 10:10:34           | 298.4        | 15.8         | 0.2           | 60.9      | -380.0      | -2.5        |
| 10:10:44           | 298.4        | 15.8         | 0.2           | 60.9      | -391.5      | -2.5        |
| Avg =              | 299.1        | 15.7         | 0.2           | 60.8      | -382.5      | -2.5        |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-17-1997 Current Time = 10:13:11

File Name = c:\cemdata\041797.PRN Calibration File:c:\cemdata\0417a.CAL

Test #: Post-1 out 600 in 0

| 04-17-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 10:13:14           | 614.0        | -0.2         | 0.2           | 60.9      | -596.8      | -2.5        |
| 10:13:16           | 614.0        | -0.2         | 0.2           | 60.9      | -596.8      | -2.5        |
| 10:13:24           | 613.7        | -0.3         | 0.2           | 61.1      | -558.1      | -2.5        |
| 10:13:34           | 613.7        | -0.3         | 0.2           | 61.0      | -533.9      | -2.5        |
| 10:13:44           | 614.3        | -0.4         | 0.2           | 61.0      | -545.1      | -2.5        |
| 10:13:54           | 614.3        | -0.3         | 0.2           | 61.1      | -542.2      | -2.6        |
| 10:14:04           | 614.2        | -0.2         | 0.2           | 61.1      | -546.1      | -2.5        |
| 10:14:14           | 612.4        | -0.2         | 0.2           | 61.0      | -549.1      | -2.5        |
| 10:14:24           | 614.2        | -0.3         | 0.2           | 61.0      | -554.8      | -2.5        |
| Avg =              | 613.9        | -0.3         | 0.2           | 61.0      | -558.1      | -2.5        |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-17-1997 Current Time = 10:17:07

File Name = c:\ceadata\041797.PRN Calibration File:c:\ceadata\0417a.CAL

Test #: Post-1 out 914 pre-2 in 0

| 04-17-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 10:17:10           | 935.9        | 0.0          | 0.2           | 61.3      | -688.6      | -2.5        |
| 10:17:12           | 935.9        | 0.0          | 0.2           | 61.3      | -688.6      | -2.5        |
| 10:17:14           | 936.2        | -0.0         | 0.2           | 61.1      | -783.9      | -2.6        |
| 10:17:24           | 936.0        | -0.0         | 0.2           | 61.1      | -610.8      | -2.5        |
| 10:17:34           | 935.9        | 0.0          | 0.2           | 61.0      | -606.9      | -2.5        |
| 10:17:44           | 934.5        | 0.0          | 0.2           | 61.1      | -618.5      | -2.5        |
| 10:17:54           | 935.7        | 0.0          | 0.2           | 61.0      | -620.0      | -2.5        |
| 10:18:04           | 935.9        | 0.0          | 0.2           | 61.2      | -623.4      | -2.5        |
| Avg =              | 935.7        | 0.0          | 0.2           | 61.1      | -655.1      | -2.5        |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-17-1997 Current Time = 10:20:37

File Name = c:\ceadata\041797.PRN Calibration File: c:\ceadata\0417a.CAL

Test #: Pre-2 in 45.5

| 04-17-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 10:20:41           | 2.1          | 45.3         | 0.2           | 61.4      | -138.4      | -2.6        |
| 10:20:44           | 2.1          | 45.5         | 0.3           | 61.7      | -155.0      | -2.6        |
| 10:20:54           | 2.2          | 45.5         | 0.3           | 61.5      | -132.9      | -2.5        |
| 10:21:04           | 2.1          | 45.5         | 0.2           | 61.4      | -132.0      | -2.5        |
| 10:21:14           | 2.1          | 45.6         | 0.2           | 61.5      | -127.3      | -2.5        |
| 10:21:24           | 2.1          | 45.6         | 0.2           | 61.6      | -124.4      | -2.5        |
| 10:21:34           | 2.1          | 45.6         | 0.2           | 61.6      | -125.6      | -2.5        |
| 10:21:44           | 2.1          | 45.7         | 0.2           | 61.6      | -126.0      | -2.6        |
| 10:21:54           | 2.1          | 45.7         | 0.2           | 61.6      | -124.5      | -2.6        |
| 10:22:04           | 2.1          | 45.6         | 0.2           | 61.5      | -125.3      | -2.5        |
| 10:22:14           | 2.1          | 45.6         | 0.2           | 61.5      | -125.5      | -2.5        |
| Avg =              | 2.1          | 45.6         | 0.2           | 61.5      | -130.6      | -2.5        |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-17-1997 Current Time = 10:24:05

File Name = c:\cemdata\041797.PRN Calibration File: c:\cemdata\0417a.CAL

Test #: Pre-2 in 30.4

| 04-17-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 10:24:09           | 1.9          | 31.5         | 0.2           | 61.0      | -365.4      | -2.5        |
| 10:24:14           | 2.1          | 31.5         | 0.2           | 61.1      | -361.4      | -2.6        |
| 10:24:24           | 2.0          | 31.5         | 0.2           | 61.0      | -336.1      | -2.5        |
| 10:24:34           | 2.0          | 31.5         | 0.2           | 60.9      | -342.6      | -2.5        |
| 10:24:44           | 2.0          | 31.4         | 0.2           | 60.9      | -338.9      | -2.5        |
| 10:24:54           | 2.0          | 31.4         | 0.2           | 60.9      | -336.6      | -2.5        |
| 10:25:04           | 2.0          | 31.4         | 0.2           | 60.9      | -343.1      | -2.5        |
| 10:25:14           | 2.0          | 31.4         | 0.2           | 60.9      | -339.9      | -2.5        |
| 10:25:24           | 2.0          | 31.4         | 0.2           | 60.8      | -338.1      | -2.5        |
| 10:25:34           | 2.0          | 31.4         | 0.2           | 60.9      | -336.0      | -2.5        |
| 10:25:44           | 2.0          | 31.4         | 0.2           | 60.8      | -341.9      | -2.5        |
| 10:25:54           | 1.1          | 31.3         | 0.2           | 60.7      | -338.8      | -2.5        |
| Avg =              | 1.9          | 31.4         | 0.2           | 60.9      | -343.2      | -2.5        |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-17-1997 Current Time = 10:27:41

File Name = c:\ceedata\041797.PRN Calibration File: c:\ceedata\0417a.CAL

Test #: Pre-2 in 15.0

| 04-17-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 10:27:46           | 1.3          | 15.6         | 0.2           | 61.3      | -390.7      | -2.5        |
| 10:27:48           | 1.3          | 15.6         | 0.2           | 61.3      | -390.7      | -2.5        |
| 10:27:54           | 2.0          | 15.5         | 0.2           | 61.4      | -399.8      | -2.6        |
| 10:28:04           | 2.0          | 15.5         | 0.2           | 61.4      | -378.1      | -2.5        |
| 10:28:14           | 1.2          | 15.5         | 0.2           | 61.5      | -379.4      | -2.5        |
| 10:28:24           | 2.0          | 15.5         | 0.2           | 61.4      | -380.7      | -2.6        |
| 10:28:34           | 1.9          | 15.5         | 0.2           | 61.4      | -381.2      | -2.5        |
| 10:28:44           | 0.0          | 15.5         | 0.2           | 61.3      | -380.6      | -2.5        |
| 10:28:54           | 1.2          | 15.5         | 0.2           | 61.2      | -382.5      | -2.5        |
| Avg =              | 1.4          | 15.5         | 0.2           | 61.3      | -384.9      | -2.5        |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-17-1997 Current Time = 12:33:44

File Name = c:\ceedata\041797.PRN Calibration File: c:\ceedata\0417a.CAL

Test #: 0417-02

| 04-17-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 12:34:24           | 1.9          | 2.1          | 0.2           | 70.0      | 442.1       | -2.4        |
| 12:35:24           | 1.9          | 2.0          | 0.2           | 69.7      | 442.3       | -2.4        |
| 12:36:24           | 6.0          | 2.0          | 0.2           | 70.1      | 441.4       | -2.4        |
| 12:37:24           | 50.4         | 2.0          | 0.2           | 70.6      | 435.9       | -2.4        |
| 12:38:24           | 107.8        | 2.0          | 0.2           | 71.0      | 428.7       | -2.4        |
| 12:39:24           | 208.8        | 2.0          | 0.2           | 71.2      | 421.6       | -2.4        |
| 12:40:24           | 223.8        | 1.8          | 0.2           | 71.4      | 416.8       | -2.4        |
| 12:41:24           | 226.2        | 1.8          | 0.2           | 71.5      | 413.0       | -2.4        |
| 12:42:24           | 230.2        | 1.8          | 0.2           | 71.4      | 409.3       | -2.4        |
| 12:43:24           | 208.9        | 1.8          | 0.2           | 71.2      | 405.6       | -2.4        |
| 12:44:24           | 222.1        | 1.8          | 0.2           | 71.1      | 398.5       | -2.4        |
| 12:45:24           | 293.8        | 1.8          | 0.2           | 71.1      | 391.7       | -2.4        |
| 12:46:24           | 317.8        | 1.8          | 0.2           | 71.1      | 390.5       | -2.4        |
| 12:47:24           | 262.4        | 1.7          | 0.2           | 71.1      | 386.4       | -2.4        |
| 12:48:24           | 345.3        | 1.6          | 0.2           | 71.1      | 379.4       | -2.4        |
| 12:49:24           | 362.6        | 1.8          | 0.2           | 71.1      | 372.4       | -2.4        |
| 12:50:24           | 438.2        | 1.8          | 0.2           | 71.2      | 366.8       | -2.4        |
| 12:51:24           | 431.8        | 1.8          | 0.2           | 71.2      | 366.0       | -2.4        |
| 12:52:24           | 345.2        | 1.9          | 0.2           | 71.2      | 365.5       | -2.4        |
| 12:53:24           | 274.5        | 1.8          | 0.2           | 71.0      | 364.8       | -2.4        |
| 12:54:24           | 249.4        | 1.8          | 0.2           | 71.0      | 365.2       | -2.4        |
| 12:55:24           | 272.4        | 1.8          | 0.2           | 70.9      | 368.0       | -2.4        |
| 12:56:24           | 257.9        | 1.8          | 0.2           | 70.9      | 369.0       | -2.4        |
| 12:57:24           | 212.1        | 1.8          | 0.2           | 70.5      | 369.2       | -2.4        |
| 12:58:24           | 197.2        | 1.8          | 0.2           | 70.4      | 367.4       | -2.4        |
| 12:59:24           | 164.9        | 1.8          | 0.2           | 70.5      | 365.6       | -2.4        |
| 13:00:24           | 105.9        | 1.9          | 0.2           | 70.2      | 365.4       | -2.4        |
| 13:01:24           | 138.5        | 1.8          | 0.2           | 70.2      | 365.4       | -2.4        |
| 13:02:24           | 140.5        | 1.8          | 0.2           | 70.2      | 365.4       | -2.4        |
| 13:03:24           | 154.7        | 1.8          | 0.2           | 70.1      | 365.4       | -2.4        |
| 13:04:24           | 166.4        | 1.8          | 0.2           | 69.9      | 363.4       | -2.4        |
| 13:05:24           | 224.6        | 1.8          | 0.2           | 69.9      | 356.6       | -2.4        |
| 13:06:24           | 318.7        | 1.8          | 0.2           | 69.9      | 350.3       | -2.4        |
| 13:07:24           | 349.8        | 1.8          | 0.2           | 70.0      | 343.3       | -2.4        |
| 13:08:24           | 402.0        | 1.7          | 0.2           | 70.0      | 339.1       | -2.4        |
| 13:09:24           | 412.5        | 1.7          | 0.2           | 70.1      | 333.5       | -2.4        |
| 13:10:24           | 424.7        | 1.7          | 0.2           | 70.1      | 327.4       | -2.4        |
| 13:11:24           | 441.1        | 1.7          | 0.2           | 70.2      | 321.2       | -2.5        |
| 13:12:24           | 472.0        | 1.7          | 0.2           | 70.2      | 314.3       | -2.5        |
| 13:13:24           | 494.5        | 1.7          | 0.2           | 70.1      | 310.5       | -2.5        |

Test #: 0417-02

04-17-1997  
Time THC o THC i Flow Temp Resin Ps  
oem oem inH2O F lb inH2O

|          |       |     |     |      |       |      |
|----------|-------|-----|-----|------|-------|------|
| 13:14:24 | 499.2 | 1.7 | 0.2 | 70.2 | 306.7 | -2.5 |
| 13:15:24 | 474.7 | 1.7 | 0.2 | 70.2 | 306.4 | -2.5 |
| 13:16:24 | 414.0 | 1.7 | 0.2 | 70.1 | 301.8 | -2.5 |
| 13:17:24 | 518.7 | 1.6 | 0.2 | 70.3 | 294.9 | -2.5 |
| 13:18:24 | 553.2 | 1.7 | 0.2 | 70.4 | 292.7 | -2.5 |
| 13:19:24 | 447.6 | 1.7 | 0.2 | 70.5 | 292.7 | -2.5 |
| 13:20:24 | 445.4 | 1.8 | 0.2 | 70.6 | 295.0 | -2.5 |
| 13:21:24 | 372.0 | 1.9 | 0.2 | 70.5 | 293.1 | -2.6 |
| 13:22:24 | 348.1 | 1.3 | 0.2 | 70.3 | 292.7 | -2.5 |
| 13:23:24 | 343.4 | 1.3 | 0.2 | 70.4 | 292.7 | -2.5 |
| 13:24:24 | 341.9 | 1.4 | 0.2 | 70.4 | 292.7 | -2.5 |
| 13:25:24 | 315.4 | 1.4 | 0.2 | 70.4 | 292.7 | -2.5 |
| 13:26:24 | 297.9 | 2.0 | 0.2 | 70.4 | 292.7 | -2.5 |
| 13:27:24 | 296.1 | 1.9 | 0.2 | 70.5 | 292.7 | -2.5 |
| 13:28:24 | 282.9 | 2.0 | 0.2 | 70.6 | 292.7 | -2.5 |
| 13:29:24 | 258.2 | 1.9 | 0.2 | 70.5 | 292.7 | -2.5 |
| 13:30:24 | 262.8 | 1.8 | 0.2 | 70.3 | 292.7 | -2.5 |
| 13:31:24 | 269.0 | 1.8 | 0.2 | 70.4 | 292.7 | -2.5 |
| 13:32:24 | 274.3 | 1.7 | 0.2 | 70.5 | 292.7 | -2.5 |
| 13:33:24 | 269.5 | 1.8 | 0.2 | 70.7 | 292.7 | -2.5 |
| 13:34:24 | 265.2 | 1.9 | 0.2 | 70.9 | 292.7 | -2.5 |
| 13:35:24 | 258.1 | 1.8 | 0.2 | 71.0 | 292.7 | -2.5 |
| 13:36:24 | 259.6 | 1.9 | 0.2 | 71.1 | 292.7 | -2.5 |
| 13:37:24 | 247.6 | 2.0 | 0.2 | 71.1 | 292.7 | -2.5 |
| 13:38:24 | 250.3 | 2.1 | 0.2 | 71.2 | 292.7 | -2.5 |
| 13:39:24 | 243.9 | 2.1 | 0.2 | 71.3 | 292.7 | -2.5 |
| 13:40:24 | 237.6 | 2.3 | 0.2 | 71.4 | 292.7 | -2.5 |
| 13:41:24 | 235.4 | 2.0 | 0.2 | 71.4 | 292.7 | -2.5 |
| 13:42:24 | 236.1 | 2.2 | 0.2 | 71.4 | 292.7 | -2.5 |
| 13:43:24 | 234.2 | 2.4 | 0.2 | 71.4 | 292.7 | -2.5 |
| 13:44:24 | 227.2 | 2.1 | 0.2 | 71.4 | 292.7 | -2.5 |
| 13:45:24 | 230.7 | 1.4 | 0.2 | 71.5 | 292.7 | -2.5 |
| 13:46:24 | 236.7 | 1.9 | 0.2 | 71.4 | 292.7 | -2.5 |
| 13:47:24 | 230.6 | 2.1 | 0.2 | 71.5 | 292.7 | -2.5 |
| 13:48:24 | 228.4 | 2.2 | 0.2 | 71.5 | 292.7 | -2.5 |
| 13:49:24 | 217.0 | 1.9 | 0.2 | 71.6 | 292.7 | -2.5 |
| 13:50:24 | 208.6 | 2.4 | 0.2 | 71.6 | 292.7 | -2.5 |
| 13:51:24 | 212.2 | 2.5 | 0.2 | 71.6 | 292.7 | -2.5 |
| 13:52:24 | 210.4 | 2.4 | 0.2 | 71.6 | 292.7 | -2.5 |
| 13:53:24 | 208.0 | 2.7 | 0.2 | 71.6 | 292.7 | -2.5 |
| 13:54:24 | 205.3 | 2.6 | 0.2 | 71.7 | 292.7 | -2.5 |
| 13:55:24 | 205.7 | 2.8 | 0.2 | 71.7 | 292.7 | -2.5 |
| 13:56:24 | 205.9 | 2.8 | 0.2 | 71.8 | 292.7 | -2.5 |
| 13:57:24 | 206.5 | 2.8 | 0.2 | 71.8 | 292.7 | -2.5 |
| 13:58:24 | 203.9 | 2.8 | 0.2 | 71.8 | 292.7 | -2.5 |
| 13:59:24 | 192.8 | 2.9 | 0.2 | 71.9 | 292.6 | -2.5 |
| 14:00:24 | 195.0 | 2.4 | 0.2 | 71.9 | 292.7 | -2.5 |
| 14:01:24 | 191.7 | 2.6 | 0.2 | 72.0 | 292.6 | -2.5 |
| 14:02:24 | 187.9 | 3.2 | 0.2 | 72.0 | 292.6 | -2.5 |
| 14:03:24 | 181.4 | 3.2 | 0.2 | 72.0 | 292.6 | -2.5 |
| 14:04:24 | 179.6 | 3.0 | 0.2 | 72.1 | 292.6 | -2.5 |
| 14:05:24 | 179.9 | 3.0 | 0.2 | 72.1 | 292.6 | -2.5 |

Avg = 265.8 2.0 0.2 70.9 329.6 -2.5



## RADIAM CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-17-1997 Current Time = 14:48:35

File Name = c:\cemdata\041797.PRN Calibration File: c:\cemdata\0417a.CAL

Test #: 0417-02b

| 04-17-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 14:49:04           | 10.4         | 4.7          | 0.2           | 65.0      | 445.0       | -2.5        |
| 14:50:04           | 9.8          | 4.4          | 0.2           | 65.3      | 444.5       | -2.5        |
| 14:51:04           | 18.6         | 4.1          | 0.2           | 65.6      | 442.8       | -2.5        |
| 14:52:04           | 41.9         | 3.8          | 0.2           | 65.7      | 441.9       | -2.5        |
| 14:53:04           | 105.0        | 3.7          | 0.2           | 66.0      | 438.1       | -2.5        |
| 14:54:04           | 254.1        | 3.6          | 0.2           | 66.1      | 432.2       | -2.5        |
| 14:55:04           | 395.6        | 3.3          | 0.2           | 66.0      | 427.4       | -2.5        |
| 14:56:04           | 484.1        | 3.1          | 0.2           | 66.0      | 426.9       | -2.5        |
| 14:57:04           | 557.9        | 2.9          | 0.2           | 66.0      | 421.1       | -2.5        |
| 14:58:04           | 498.2        | 2.8          | 0.2           | 66.0      | 417.5       | -2.5        |
| 14:59:04           | 485.0        | 2.7          | 0.2           | 66.0      | 411.8       | -2.5        |
| 15:00:04           | 588.5        | 2.7          | 0.2           | 66.2      | 406.7       | -2.5        |
| 15:01:04           | 591.6        | 2.7          | 0.2           | 66.3      | 403.8       | -2.5        |
| 15:02:04           | 527.0        | 2.8          | 0.2           | 66.3      | 403.4       | -2.5        |
| 15:03:04           | 598.5        | 2.9          | 0.2           | 66.5      | 397.4       | -2.5        |
| 15:04:04           | 576.1        | 2.8          | 0.2           | 66.5      | 391.6       | -2.5        |
| 15:05:04           | 908.7        | 2.8          | 0.2           | 66.5      | 387.4       | -2.5        |
| 15:06:04           | 560.4        | 2.8          | 0.2           | 66.6      | 387.0       | -2.5        |
| 15:07:04           | 498.4        | 2.9          | 0.2           | 66.7      | 388.2       | -2.5        |
| 15:08:04           | 403.4        | 2.8          | 0.2           | 66.5      | 390.9       | -2.5        |
| 15:09:04           | 407.9        | 2.8          | 0.2           | 66.7      | 392.2       | -2.5        |
| 15:10:04           | 401.7        | 2.7          | 0.2           | 66.9      | 389.8       | -2.5        |
| 15:11:04           | 335.9        | 2.7          | 0.2           | 66.9      | 389.2       | -2.5        |
| 15:12:04           | 334.4        | 2.7          | 0.2           | 66.9      | 389.2       | -2.5        |
| 15:13:04           | 404.4        | 2.6          | 0.2           | 67.0      | 386.0       | -2.5        |
| 15:14:04           | 360.7        | 2.7          | 0.2           | 66.9      | 385.7       | -2.5        |
| 15:15:04           | 279.5        | 2.7          | 0.2           | 66.2      | 385.8       | -2.5        |
| 15:16:04           | 302.3        | 2.7          | 0.2           | 66.2      | 385.8       | -2.5        |
| 15:17:04           | 296.4        | 2.7          | 0.2           | 66.1      | 385.8       | -2.5        |
| 15:18:04           | 386.4        | 2.7          | 0.2           | 66.4      | 385.8       | -2.5        |
| 15:19:04           | 353.9        | 2.8          | 0.2           | 66.6      | 385.8       | -2.5        |
| 15:20:04           | 378.5        | 2.8          | 0.2           | 66.7      | 385.8       | -2.5        |
| 15:21:04           | 338.4        | 2.8          | 0.2           | 66.8      | 385.8       | -2.5        |
| 15:22:04           | 313.1        | 2.7          | 0.2           | 66.7      | 385.9       | -2.5        |
| Avg =              | 385.5        | 3.0          | 0.2           | 66.3      | 403.7       | -2.5        |

**April 18, 1997**

**0418-01/NMMA-9-1: 28-ft Hull 42 % Styrene Resin Spray Up Lamination**

**0418-02/NMMA-12-2: CFA Mold 42 % Styrene Resin Spray Up Lamination**

DAILY SPRAY EQUIPMENT CALIBRATION

Date: 4-18-97  
Initial: Larry Dargitz

Spray Gun: \_\_\_\_\_

Resin Flow Calibration (15-second evaluation)

|                | Pre-Test | Post-Test |
|----------------|----------|-----------|
| Run 1 Mass (g) | 736      | 748       |
| Run 2 Mass (g) |          |           |
| Run 3 Mass (g) |          |           |
| Average        |          |           |

Resin:Glass Ratio

|                |      |  |
|----------------|------|--|
| Mass resin (g) | 300  |  |
| Mass glass (g) | 160  |  |
| TOTAL          | 460  |  |
| Percent glass  | 34.8 |  |

| Material     | Drum No. | Gel Time (min) | Catalyst % Vol. | Setting |
|--------------|----------|----------------|-----------------|---------|
| Gelcoat      |          |                |                 |         |
| Resin (skin) | 4        |                |                 |         |
| Resin (lam)  |          |                |                 |         |

Thickness Checks

| Run         | 1 | 2 | 3 | 4 | 5 |
|-------------|---|---|---|---|---|
| 90 mil skin |   |   |   |   |   |
| 60 ROV      |   |   |   |   |   |
| 60 ROV      |   |   |   |   |   |
| 60 ROV      |   |   |   |   |   |
| 60 mil ROV  |   |   |   |   |   |
| 40 mil      |   |   |   |   |   |

28' Hull

Bottom

Side and

CFR

DAILY GAS CHROMATOGRAPHY LOG

Date: 4/18/97

1/62

Initial: RA

Run 0418-01

Test NMMA-9-1C 28' Hull, 42% - Run 1C

Am  
QC

0418-01  
NMMA-9-1C

| Run No. | Time     | Comments   | THC  | MMA Area | Styrene Area |
|---------|----------|------------|------|----------|--------------|
| 978     |          | 0 4.355    |      |          | 1915         |
| 979     |          | 0 4.345    |      |          | 3089         |
| 980     |          | 59.2 4.349 |      |          | 5055434      |
| 981     |          | 58.2 4.352 |      |          | 4730973-105  |
| 982     |          | 59.2 4.346 |      |          | 5181651      |
| 983     |          | 204 4.352  |      |          | 19345334     |
| 984     |          | 204 4.338  |      |          | 18797024     |
| 985     | 0248078  | 1          | 311  |          | 10084736     |
| 986     | 02580810 | 2          | 174  |          | 6262595      |
| 987     | 0818     | 3          | 296  |          | 10389824     |
| 988     | 08180827 | 4          | 2380 |          | 10715224     |
| 989     | 0836     | 5          | 127  |          | 4638685      |
| 990     | 0848     | 6          | 107  |          | 4050910      |
| 991     | 0858     | 7          | 100  |          | 4094269      |
| 992     | 0921     | 8          | 616  |          | 19671680     |
| 993     | 0934     | 9          | 520  |          | 10794992     |
| 994     | 0947     | 10         | 139  |          | 5416029      |
| 995     | 1000     | 11         | 105  |          | 3707136      |
| 996     | 1013     | 12         | 99   |          | 3523238      |
| 997     | 1031     | 13         | 430  |          | 15497008     |
| 998     | 1039     | 14         | 600  |          | 20679317     |
| 999     | 1052     | 15         | 525  |          | 17458832     |
| 1000    | 1106     | 16         | 163  |          | 6133602      |
| 1001    | 1119     | 17         | 129  |          | 4844813      |
| 1002    | 1135     | 18         | 103  |          | 3703840      |
| 1003    | 1148     | 19         | 65   |          | 2315698      |
| 1004    | 1200     | 20         | 39   |          | 1385025      |
| 1005    | 1204     | 21         | 540  |          | 17945536     |
| 1006    | 1220     | 22         | 630  |          | 22707728     |
| 1007    | 1236     | 23         | 267  |          | 9086290      |
| 1008    | 1245     | 24         | 131  |          | 4444509      |
| 1009    | 1255     | 25         | 101  |          | 3398800      |
| 1010    | 1307     | 26         | 99   |          | 3656178      |
| 1011    | 1324     | 27         | 8    |          | 309537       |

Radian International LLC  
Stelling Engineering, P.A.  
Air Tech Environmental LLC

Date: 4/18/97

Initial: AO

Test NMMA-9-1C

[illegible]

\* RUN # 978      APR 18, 1997 06:42:11  
START

0.322  
0.649  
0.960  
1.195  
1.583

4.355

STOP

RUN# 978      APR 18, 1997 06:42:11

ESTD-AREA

| RT    | AREA TYPE | CAL# | AMOUNT |
|-------|-----------|------|--------|
| 4.355 | 1915 UU   | 2    | .019   |

TOTAL AREA= 221769  
MUL FACTOR=1.0000E+00

\* RUN # 979      APR 18, 1997 06:48:24  
START

0.310  
0.654  
0.963  
1.199  
1.575

4.345

STOP

RUN# 979 APR 18, 1997 06:48:24

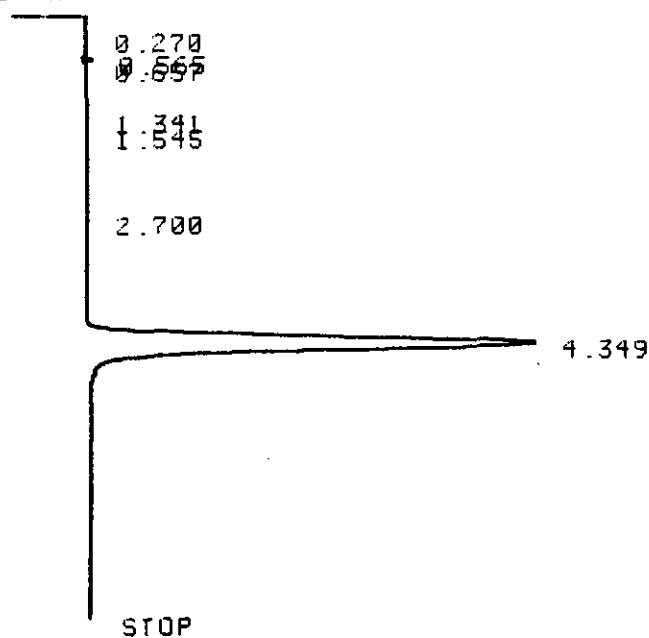
ESTD-AREA

| RT    | AREA TYPE | CAL# | AMOUNT |
|-------|-----------|------|--------|
| 4.345 | 3089 UP   | 2    | .031   |

TOTAL AREA= 240591  
MUL FACTOR=1.0000E+00

\* RUN # 980 APR 18, 1997 06:58:09

START



RUN# 980 APR 18, 1997 06:58:09

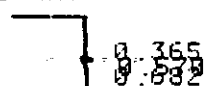
ESTD-AREA

| RT    | AREA TYPE  | CAL# | AMOUNT |
|-------|------------|------|--------|
| 4.342 | 5035434 BB | 2    | 49.851 |

TOTAL AREA=5100346  
MUL FACTOR=1.0000E+00

\* RUN # 981 APR 18, 1997 07:07:03

START



3.668

4.352

STOP

RUN# 901 APR 18, 1997 07:07:03

ESTO-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.352 | 4730973 | PB   | 2    | 46.837 |

TOTAL AREA=1930282

MUL FACTOR=1.0000E+00

\* RUN # 982 APR 18, 1997 07:35:02

START

0.299  
0.566  
0.829



4.346

STOP

RUN# 982 APR 18, 1997 07:35:02

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.346 | 5101651 | P8   | 2    | 51.298 |

TOTAL AREA=5341142  
MUL FACTOR=1.0000E+00

\* RUN # 983 APR 18, 1997 07:41:02  
START

0.300  
0:537  
1:282  
1:457  
2.500

4.352

STOP

RUN# 983 APR 18, 1997 07:41:02

ESTD-AREA

| RT    | AREA     | TYPE | CAL# | AMOUNT  |
|-------|----------|------|------|---------|
| 4.352 | 19345344 | P8   | 2    | 191.519 |

TOTAL AREA=1.9518E+07  
MUL FACTOR=1.0000E+00

\* RUN # 984 APR 18, 1997 07:40:30  
START

0.300  
0:537  
1:448

4.338

STOP

RUN# 904 APR 18, 1997 07:47:30

ESTD-AREA

| RT    | AREA TYPE | CAL# | AMOUNT  |
|-------|-----------|------|---------|
| 4.338 | 18797024  | PD 2 | 186.091 |

TOTAL AREA=1.8941E+07

MUL FACTOR=1.0000E+00

\* RUN # 905 APR 18, 1997 07:58:30  
START

0418-01

NUMA-9-K

28' Hw 42%

0.261  
0.555  
0.949  
1.000  
1.452  
1.728  
2.464  
2.022

4.344

STOP

RUN# 905 APR 18, 1997 07:58:36

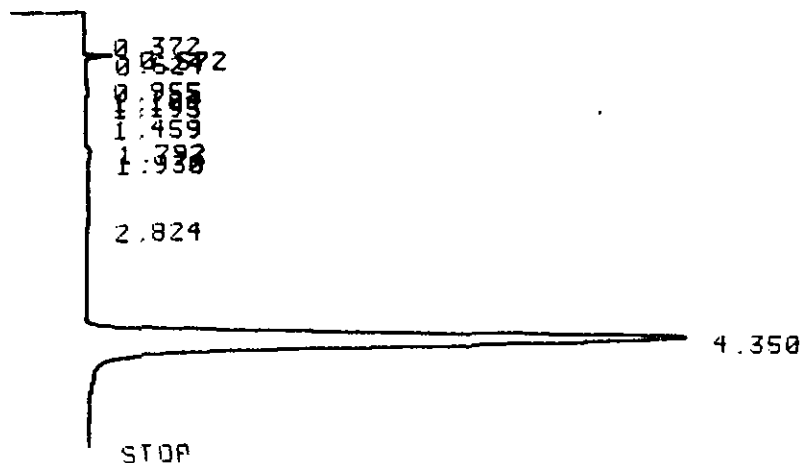
ESTD-AREA

| RT    | AREA TYPE | CAL# | AMOUNT |
|-------|-----------|------|--------|
| 1.788 | 28283     | UU 1 | 1.188  |
| 4.344 | 10084736  | PD 2 | 99.839 |

TOTAL AREA=1.0300E+07

MUL FACTOR=1.0000E+00

\* RUN # 986 APR 18, 1997 08:10:11  
START



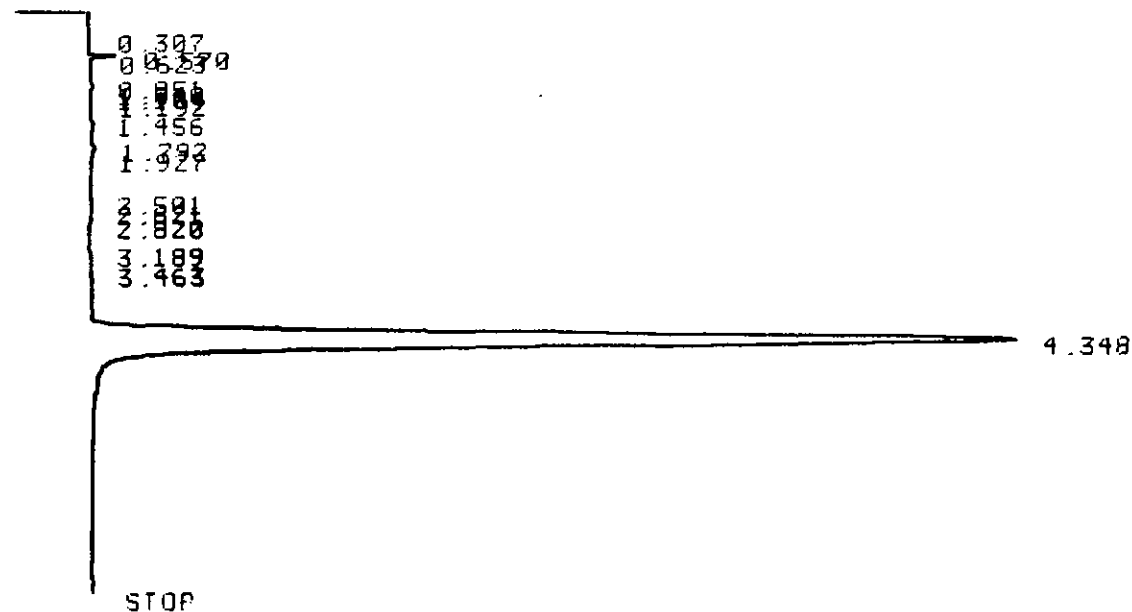
RUN# 986 APR 18, 1997 08:10:11

ESTD-AREA

| RT    | AREA    | TYPE | CALC | AMOUNT |
|-------|---------|------|------|--------|
| 1.792 | 41151   | UU   | 1    | 1.728  |
| 4.350 | 6702595 | PB   | 2    | 66.356 |

TOTAL AREA=6999408  
MUL FACTOR=1.0000E+00

\* RUN # 987 APR 18, 1997 08:18:03  
START



RUN# 987 APR 18, 1997 08:18:03

ESTD-AREA

| RT    | AREA    | TYPE | CALC | AMOUNT  |
|-------|---------|------|------|---------|
| 1.792 | 45017   | UU   | 1    | 1.892   |
| 2.824 | 1238924 | PB   | 2    | 123.850 |

TOTAL AREA=1.0741E+07  
MUL FACTOR=1.0000E+00

\* RUN # 988 APR 10, 1997 08:27:33  
START

0.335  
0.6269  
0.951  
1.199  
1.466  
1.792  
1.938  
2.505  
2.818  
3.221

4.345

STOP

RUN# 988 APR 10, 1997 08:27:33

ESTD-AREA

| RT    | AREA     | TYPE | CAL# | AMOUNT  |
|-------|----------|------|------|---------|
| 1.790 | 26192    | UU   | 1    | 1.113   |
| 4.345 | 10715224 | PB   | 2    | 106.061 |

TOTAL AREA=1.0882E+07  
MUL FACTOR=1.0000E+00

\* RUN # 989 APR 10, 1997 08:36:22  
START; not ready

0.265  
0.6269  
0.951  
1.199  
1.464  
1.792  
1.938  
2.819

4.349

STOP

RUN# 989

APR 18, 1997 08:36:27

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.792 | 28202   | UV   | 1    | 1.184  |
| 4.349 | 4638685 | PB   | 2    | 45.923 |

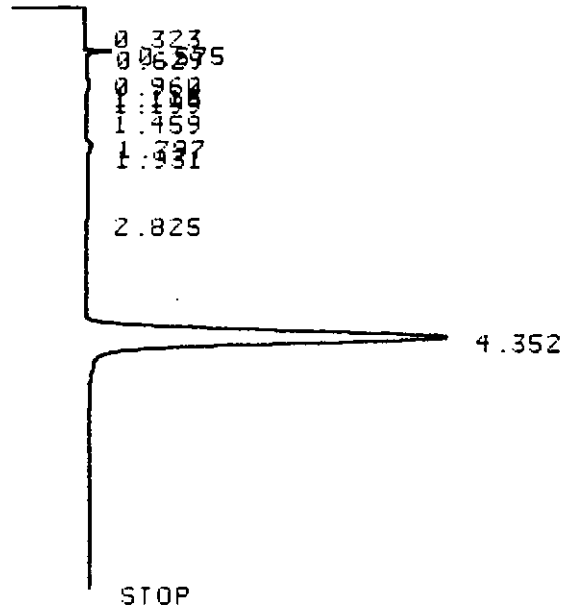
TOTAL AREA=4861.901

MUL FACTOR=1.0000E+00

\* RUN # 990

APR 18, 1997 08:48:31

START



STOP

RUN# 990

APR 18, 1997 08:40:31

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.797 | 31344   | UV   | 1    | 1.316  |
| 4.352 | 4050910 | PB   | 2    | 40.104 |

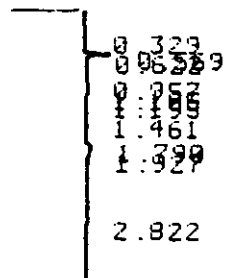
TOTAL AREA=4255827

MUL FACTOR=1.0000E+00

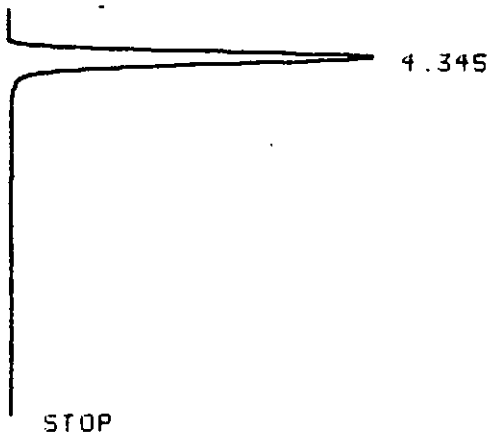
\* RUN # 991

APR 18, 1997 08:58:17

START



2.822



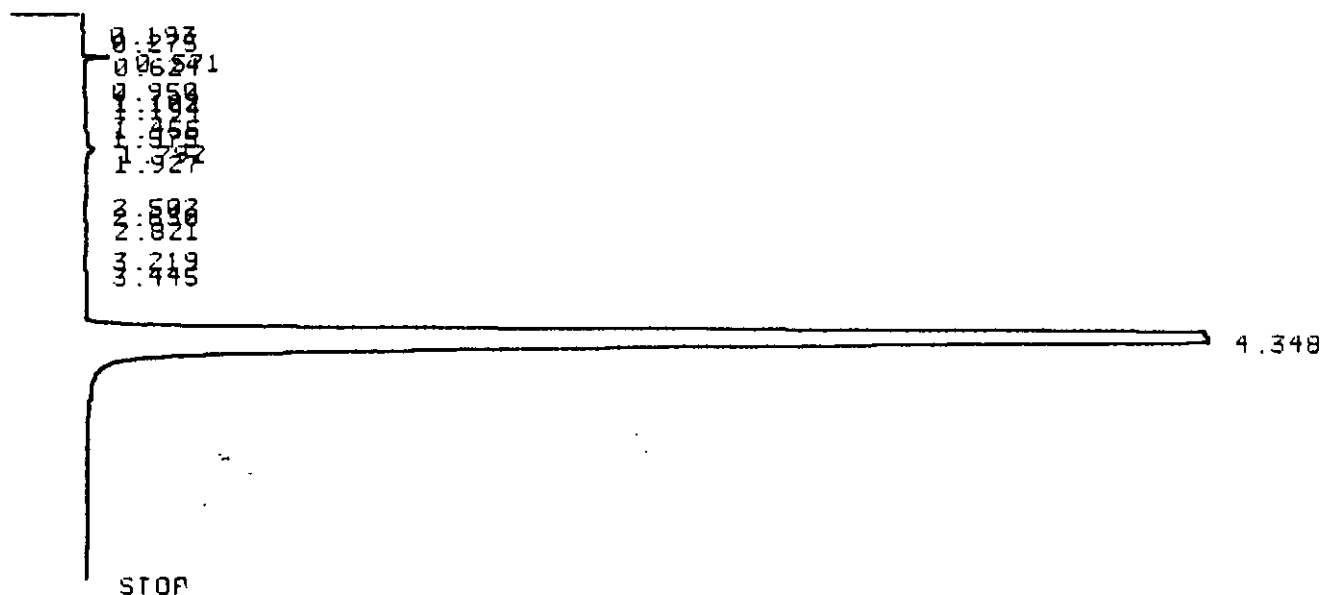
RUN# 991 APR 18, 1997 08:50:12

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.790 | 46730   | UU   | 1    | 1.963  |
| 4.345 | 4094269 | PB   | 2    | 40.533 |

TOTAL AREA=4390912  
MUL FACTOR=1.0000E+00

\* RUN # 992 APR 18, 1997 09:21:58  
START



RUN# 992 APR 18, 1997 09:21:50

ESTD-AREA

| RT    | AREA     | TYPE | CAL# | AMOUNT  |
|-------|----------|------|------|---------|
| 1.792 | 65860    | UU   | 1    | 2.766   |
| 4.340 | 19071680 | PB   | 2    | 194.750 |

TOTAL AREA=2.0120E+07  
MUL FACTOR=1.0000E+00

|   |   |      |
|---|---|------|
| 0 | 0 | 270  |
| 0 | 0 | 280  |
| 0 | 0 | 290  |
| 0 | 0 | 300  |
| 0 | 0 | 310  |
| 0 | 0 | 320  |
| 0 | 0 | 330  |
| 0 | 0 | 340  |
| 0 | 0 | 350  |
| 0 | 0 | 360  |
| 0 | 0 | 370  |
| 0 | 0 | 380  |
| 0 | 0 | 390  |
| 0 | 0 | 400  |
| 0 | 0 | 410  |
| 0 | 0 | 420  |
| 0 | 0 | 430  |
| 0 | 0 | 440  |
| 0 | 0 | 450  |
| 0 | 0 | 460  |
| 0 | 0 | 470  |
| 0 | 0 | 480  |
| 0 | 0 | 490  |
| 0 | 0 | 500  |
| 0 | 0 | 510  |
| 0 | 0 | 520  |
| 0 | 0 | 530  |
| 0 | 0 | 540  |
| 0 | 0 | 550  |
| 0 | 0 | 560  |
| 0 | 0 | 570  |
| 0 | 0 | 580  |
| 0 | 0 | 590  |
| 0 | 0 | 600  |
| 0 | 0 | 610  |
| 0 | 0 | 620  |
| 0 | 0 | 630  |
| 0 | 0 | 640  |
| 0 | 0 | 650  |
| 0 | 0 | 660  |
| 0 | 0 | 670  |
| 0 | 0 | 680  |
| 0 | 0 | 690  |
| 0 | 0 | 700  |
| 0 | 0 | 710  |
| 0 | 0 | 720  |
| 0 | 0 | 730  |
| 0 | 0 | 740  |
| 0 | 0 | 750  |
| 0 | 0 | 760  |
| 0 | 0 | 770  |
| 0 | 0 | 780  |
| 0 | 0 | 790  |
| 0 | 0 | 800  |
| 0 | 0 | 810  |
| 0 | 0 | 820  |
| 0 | 0 | 830  |
| 0 | 0 | 840  |
| 0 | 0 | 850  |
| 0 | 0 | 860  |
| 0 | 0 | 870  |
| 0 | 0 | 880  |
| 0 | 0 | 890  |
| 0 | 0 | 900  |
| 0 | 0 | 910  |
| 0 | 0 | 920  |
| 0 | 0 | 930  |
| 0 | 0 | 940  |
| 0 | 0 | 950  |
| 0 | 0 | 960  |
| 0 | 0 | 970  |
| 0 | 0 | 980  |
| 0 | 0 | 990  |
| 0 | 0 | 1000 |

4.345

STOP

ESTO-AREA

| RT    | AREA     | TYPE | CAL# | AMOUNT  |
|-------|----------|------|------|---------|
| 1.789 | 62864    | UU   | 1    | 2.640   |
| 4.345 | 10791902 | PH   | 2    | 186.070 |

TOTAL AREA=1.9192E+07  
MUL FACTOR=1.0000E+00

0.328  
0.6257  
0.8002  
1.4404  
1.9299  
2.820

4.343

STOP

RUN# 904 APR 18, 1937 09:47:50

## ESTD-AREA

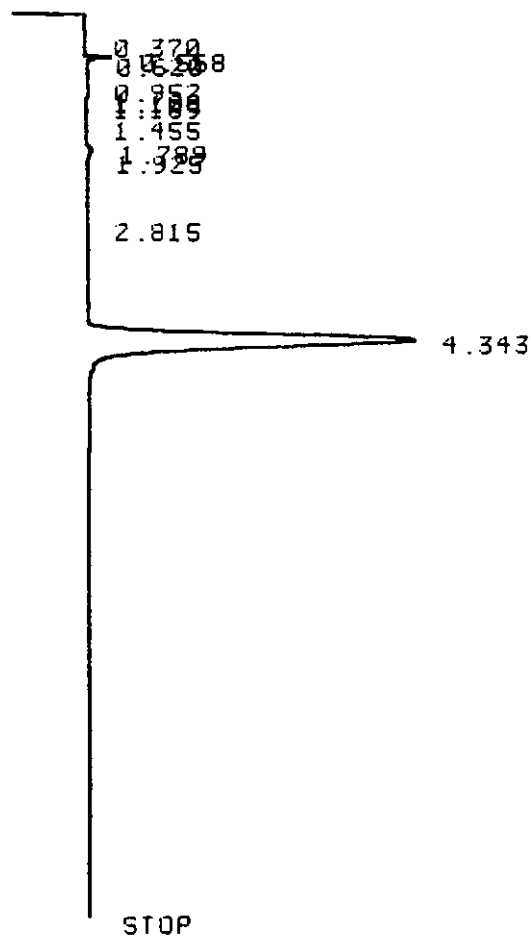
| RT    | AREA    | TYPE | CALC | AMOUNT |
|-------|---------|------|------|--------|
| 1.789 | 401.88  | UU   | 1    | 1.688  |
| 4.343 | 5416029 | BB   | 2    | 53.619 |

TOTAL AREA=5615200

MUL FACTOR=1.0000E+00

\* RUN # 995 APR 18, 1997 10:00:14

START



STOP

RUN# 995 APR 18, 1997 10:00:14

## ESTD-AREA

| RT    | AREA    | TYPE | CALC | AMOUNT |
|-------|---------|------|------|--------|
| 1.789 | 39271   | UU   | 1    | 1.619  |
| 4.343 | 3707136 | PB   | 2    | 36.701 |

TOTAL AREA=3957120

MUL FACTOR=1.0000E+00

\* RUN # 996 APR 18, 1997 10:13:40

START





STOP

RUN# 996 APR 18, 1997 10:13:40

ESTD-AREIT

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.790 | 51251   | UU   | 1    | 2.153  |
| 4.345 | 3523238 | PB   | 2    | 34.880 |

TOTAL AREA=3042325  
MUL FACTOR=1.0000E+00

\* PUN # 997 APR 18, 1997 10:31:48  
START

4.342

**STOP**

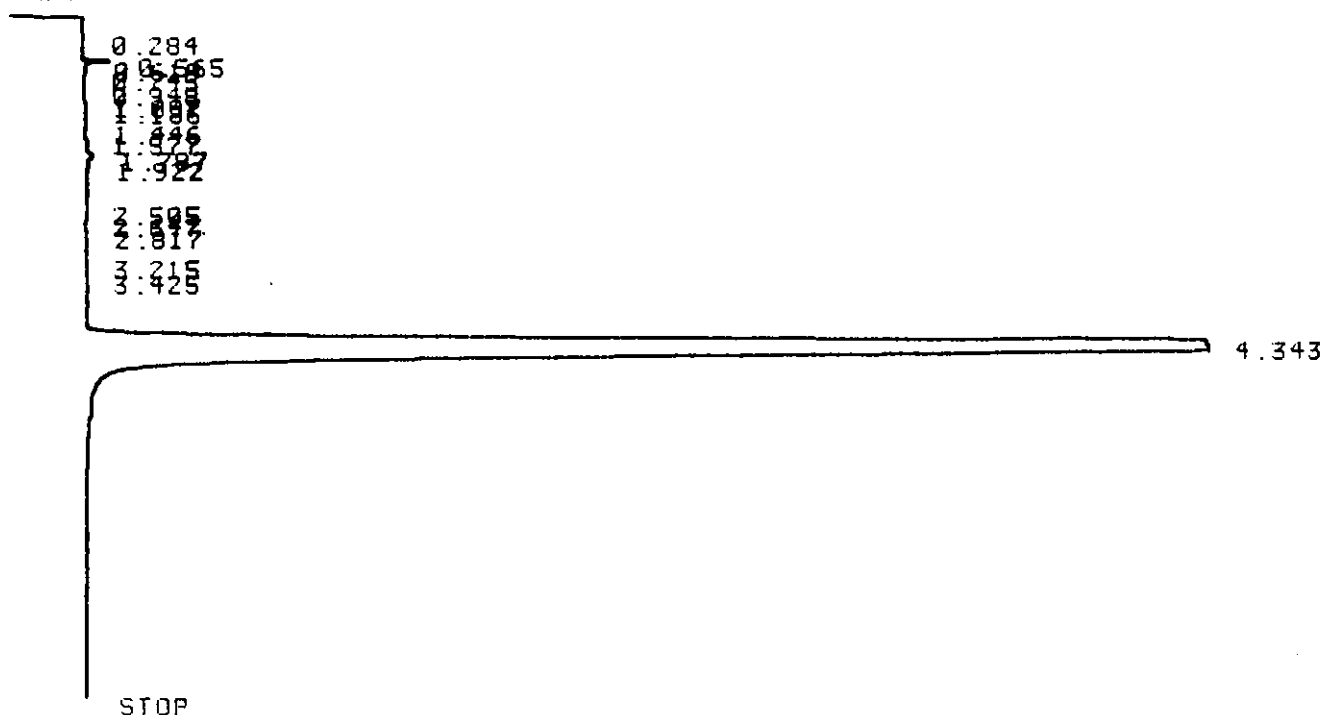
RUN# 937 APR 10, 1997 10:31:40

ESTO-AREA

| RT    | AREA     | TYPE | CAL # | AMOUNT  |
|-------|----------|------|-------|---------|
| 1.786 | 58631    | UU   | 1     | 2.127   |
| 4.342 | 15497008 | PG   | 2     | 153.420 |

TOTAL AREA=1.581AE+07  
MUL FACTOR=1.0000E+00

STAFF



RUN# 900 APR 18, 1997 10:30:41

ESTO-AREN

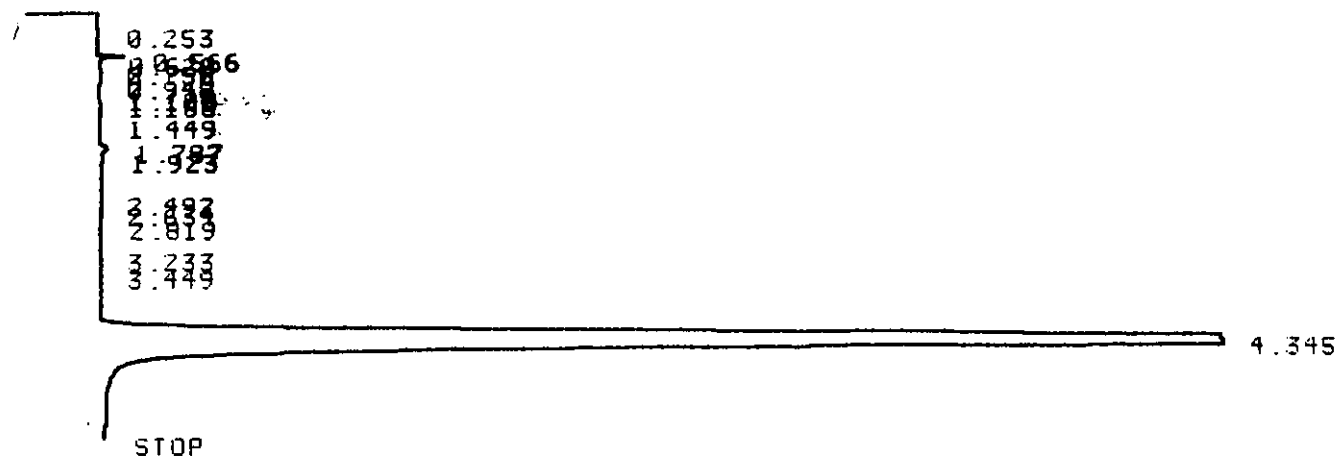
| RT    | AREA     | TYPE | CAL# | AMOUNT  |
|-------|----------|------|------|---------|
| 1.787 | 60454    | UU   | 1    | 2.539   |
| 4.343 | 20079312 | PG   | 2    | 190.795 |

TOTAL AREA=2.0524E+07

MUL FACTOR=1.0000E+00

\* RUN # 999 APR 18, 1997 10:52:38

START



RUN# 927 APR 18, 1997 10:52:38

ESTD-ARCA

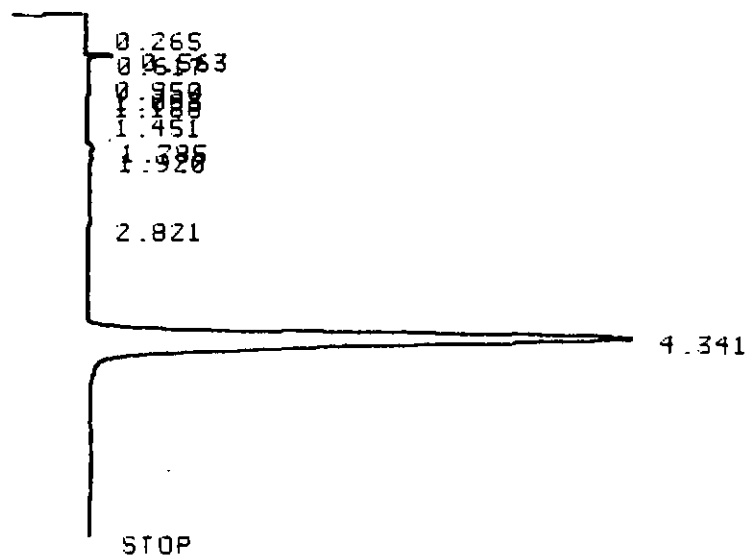
| RT    | AREA  | TYPE | CAL# | AMOUNT |
|-------|-------|------|------|--------|
| 1.787 | 61324 | UU   | 1    | 2.576  |

4.345 17458832 PB 2 172 842

TOTAL AREA=1.7669E+07  
MUL FACTOR=1.0000E+00

\* RUN # 1000 APR 18, 1997 11:06:16

START



RUN# 1000 APR 18, 1997 11:06:16

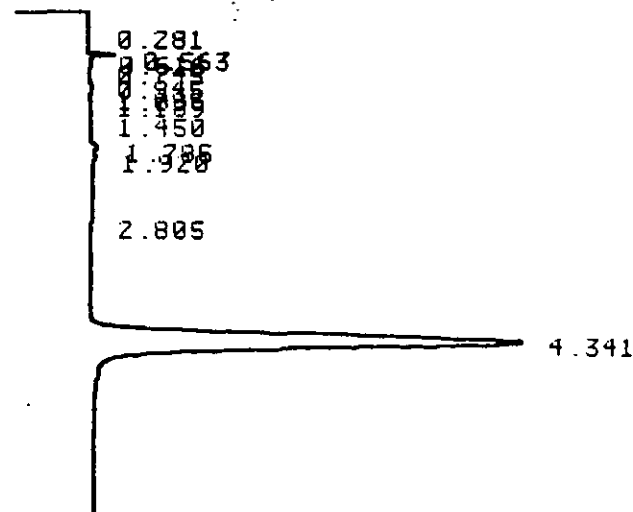
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.785 | 43202   | UU   | 1    | 1.814  |
| 4.341 | 6136002 | PD   | 2    | 60.752 |

TOTAL AREA=0.355627  
MUL FACTOR=1.0000E+00

\* RUN # 1001 APR 18, 1997 11:19:29

START: not ready



1

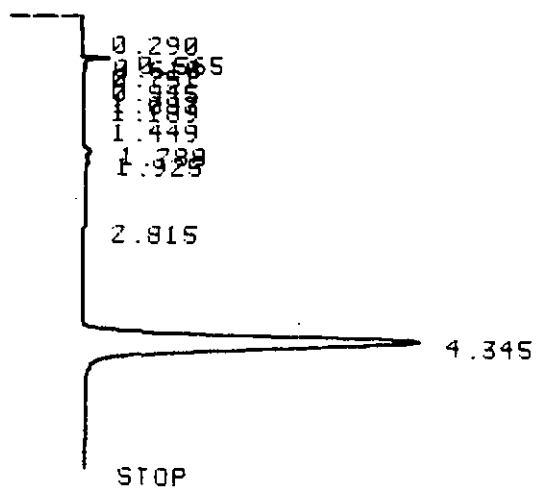
APR 18, 1997 11:19:29

ESTO-AREA

| RT    | AREA    | TYPE | CALC | AMOUNT |
|-------|---------|------|------|--------|
| 1.785 | 45851   | UU   | 1    | 1.926  |
| 4.341 | 4044813 | PB   | 2    | 47.964 |

TOTAL AREA=511632A  
MUL FACTOR=1.0000E+00

\* RUN # 1002      APR 18, 1997    11:35:38  
START



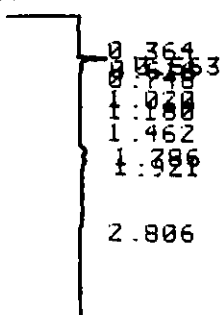
RUN# 1002 APR 18, 1997 11:35:38

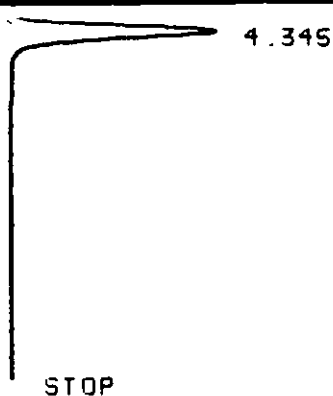
ESTO-AREA.

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.788 | 54416   | UU   | 1    | 2.287  |
| 4.345 | 3783840 | FB   | 2    | 37.460 |

TOTAL AREA=4118005  
MUL FACTOR=1.0000E+00

```
* RUN # 1003      APR 18, 1997  11:40:28
START
```





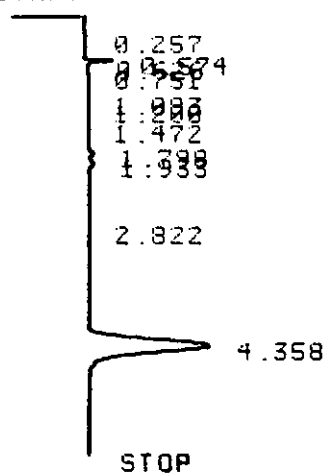
RUN# 1003 APR 18, 1997 11:48:28

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.786 | 45259   | UU   | 1    | 1.901  |
| 4.345 | 2315690 | PB   | 2    | 22.925 |

TOTAL AREA=2590406  
MUL FACTOR=1.0000E+00

\* RUN # 1004 APR 18, 1997 12:08:21  
START



RUN# 1004 APR 18, 1997 12:08:21

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.798 | 51029   | UU   | 1    | 2.143  |
| 4.350 | 1385025 | BB   | 2    | 13.720 |

TOTAL AREA=1089674  
MUL FACTOR=1.0000E+00

\* RUN # 1005 APR 18, 1997 12:14:53  
START

0.293  
 0.0002  
 0.0000  
 0.0000  
 0.0000  
 1.438  
 1.376  
 2.489  
 2.887  
 3.431

4.337

STOP

RUN# 1005 APR 18, 1997 12:14:53

ESTD-AREA

| RT    | AREA     | TYPE | CAL# | AMOUNT  |
|-------|----------|------|------|---------|
| 1.776 | 68898    | UU   | 1    | 2.893   |
| 4.337 | 17945536 | PB   | 2    | 177.661 |

TOTAL AREA=1.8413E+07  
 MUL FACTOR=1.0000E+00

\* RUN # 1006 APR 18, 1997 12:28:38  
 START

0.286  
 0.0005  
 0.0000  
 0.0000  
 0.0000  
 1.461  
 1.800  
 1.938  
 2.513  
 2.829  
 3.462

4.361

STOP

RUN# 1006 APR 18, 1997 12:28:30

ESTD-AREA

| RT    | AREA     | TYPE | CAL# | AMOUNT  |
|-------|----------|------|------|---------|
| 1.800 | 68405    | UU   | 1    | 2.877   |
| 4.361 | 22707728 | PB   | 2    | 224.006 |

TOTAL AREA=2.3073E+07  
 MUL FACTOR=1.0000E+00

\* RUN # 1007      APR 18, 1997    12:36:00  
START



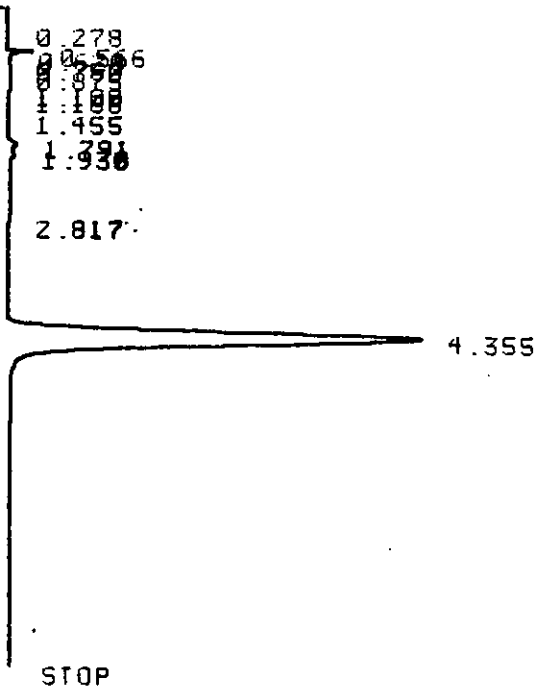
RUN# 1007      APR 18, 1997    12:36:00

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.005 | 62521   | UU   | 1    | 2.626  |
| 4.367 | 9086290 | OB   | 2    | 89.954 |

TOTAL AREA=2.4318E+06  
MUL FACTOR=1.0000E+00

\* RUN # 1008      APR 18, 1997    12:45:21  
START



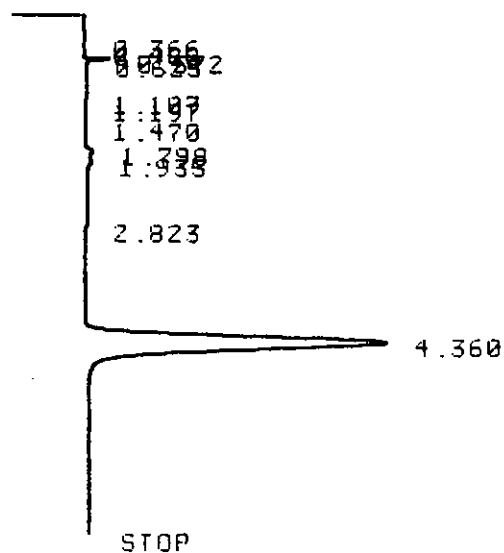
## ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.791 | 61622   | UU   | 1    | 2.580  |
| 4.355 | 4644589 | PB   | 2    | 45.981 |

TOTAL AREA=5017264

MUL FACTOR=1.0000E+00

\* RUN # 1009      APR 18, 1997    12:55:26  
START



RUN# 1009      APR 18, 1997    12:55:26

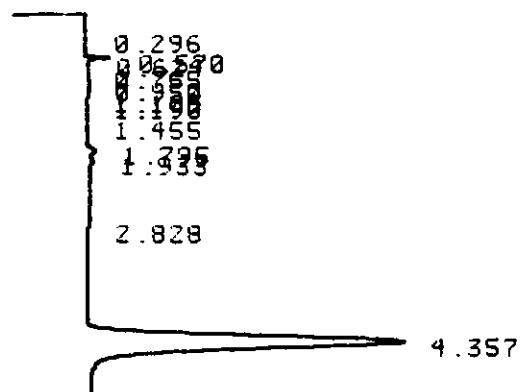
## ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.798 | 45348   | UU   | 1    | 1.930  |
| 4.360 | 3390800 | PB   | 2    | 33.648 |

TOTAL AREA=3660101

MUL FACTOR=1.0000E+00

\* RUN # 1010      APR 18, 1997    13:07:07  
START





STOP

RUN# 1010 APR 18, 1997 13:07:07

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.795 | 43377   | UU   | 1    | 2.093  |
| 4.357 | 3565178 | PB   | 2    | 35.295 |

TOTAL AREA=3818513  
MUL FACTOR=1.0000E+00

\* RUN # 1011 APR 18, 1997 13:24:00  
START

0.305  
0.065  
1.000  
1.463  
1.792  
1.928

2.831

4.355

STOP

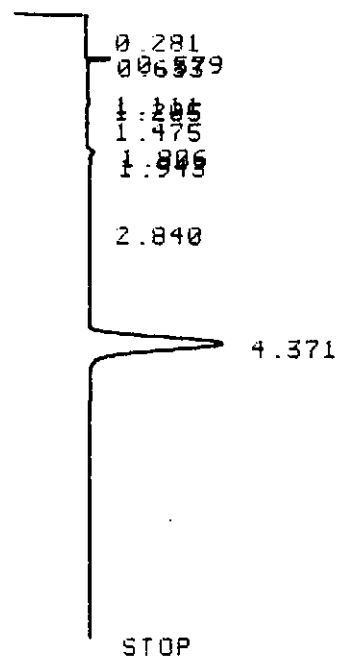
RUN# 1011 APR 18, 1997 13:24:00

ESTD-AREA

| RT    | AREA  | TYPE | CAL# | AMOUNT |
|-------|-------|------|------|--------|
| 1.792 | 58837 | UU   | 1    | 2.471  |

TOTAL AREA=3309960  
MUL FACTOR=1.0000E+00

\* RUN # 1012      APR 18, 1997 13:44:11  
START



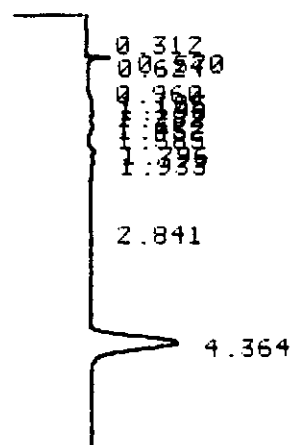
RUN# 1012      APR 18, 1997 13:44:11

STD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.806 | 51132   | UU   | 1    | 2.148  |
| 4.371 | 1535868 | BB   | 2    | 15.205 |

TOTAL AREA=1791327  
MUL FACTOR=1.0000E+00

\* RUN # 1013      APR 18, 1997 14:02:46  
START



STOP

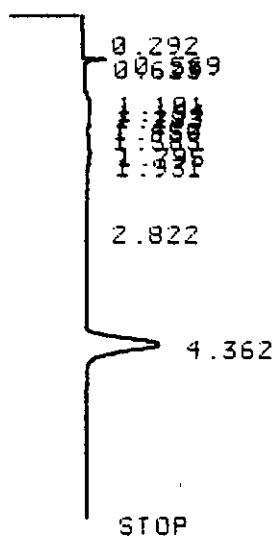
RUN# 1013      APR 18, 1997 14:02:46

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.796 | 51507  | UU   | 1    | 2.163  |
| 4.364 | 997987 | PB   | 2    | 9.880  |

TOTAL AREA=1408374  
MUL FACTOR=1.0000E+00

\* RUN # 1014      APR 18, 1997 14:14:13  
START



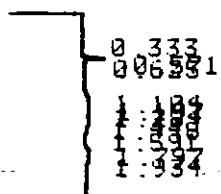
RUN# 1014      APR 18, 1997 14:14:13

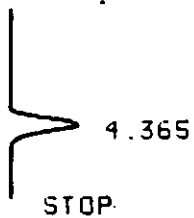
ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.795 | 54650  | UU   | 1    | 2.295  |
| 4.362 | 845071 | BB   | 2    | 8.366  |

TOTAL AREA=1322389  
MUL FACTOR=1.0000E+00

\* RUN # 1015      APR 18, 1997 14:22:12  
START





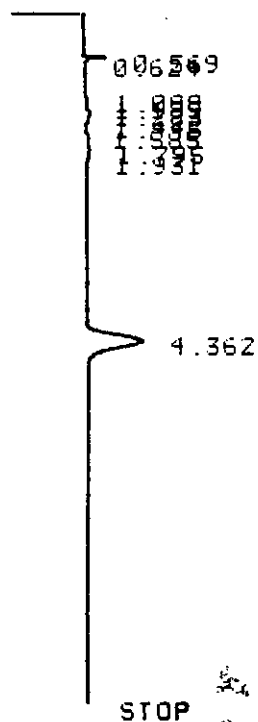
RUN# 1015 APR 18, 1997 14:22:12

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.797 | 33171  | UU   | 1    | 1.393  |
| 4.365 | 782915 | PB   | 2    | 7.751  |

TOTAL AREA=1045216  
MUL FACTOR=1.0000E+00

\* RUN # 1016 APR 18, 1997 14:31:20  
START



RUN# 1016 APR 18, 1997 14:31:20

ESTD-AREA

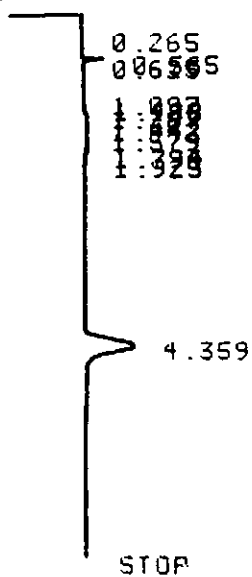
| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.795 | 36897  | UU   | 1    | 1.550  |
| 4.362 | 638400 | PB   | 2    | 6.320  |

TOTAL AREA= 929866  
MUL FACTOR=1.0000E+00

\* RUN # 1017

APR 18, 1997 14:44:36

START



RUN# 1017

APR 18, 1997 14:44:36

ESTD-AREA

| RT    | AREA   | TYPE | CALC# | AMOUNT |
|-------|--------|------|-------|--------|
| 1.794 | 32589  | UU   | 1     | 1.369  |
| 4.359 | 565348 | BA   | 2     | 5.597  |

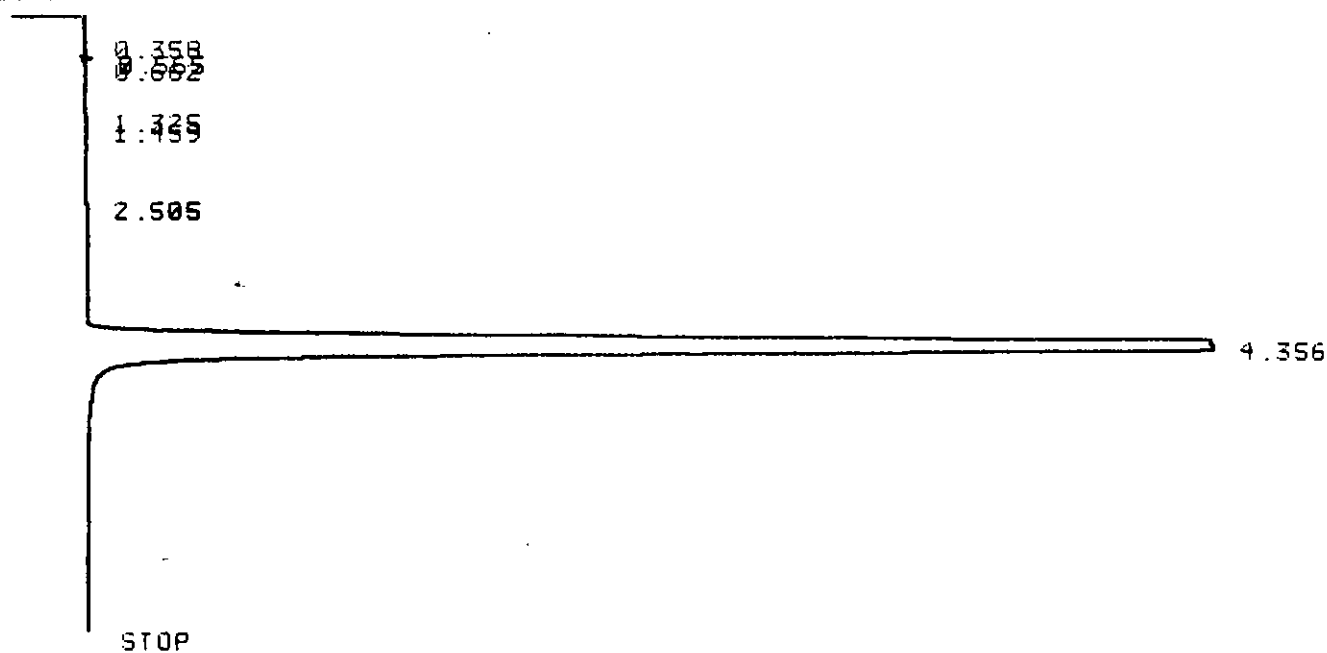
TOTAL AREA= 847349

MUL FACTOR=1.0000E+00

\* RUN # 1018

APR 18, 1997 15:13:27

START



RUN# 1018

APR 18, 1997 15:13:27

ESTD-AREA

4.356 18110914 PB 2 179.298

TOTAL AREA=1.8223E+07  
MUL FACTOR=1.0000E+00

\* RUN # 1019 APR 18, 1997 15:22:07  
START

0.373  
0.599  
0.925  
1.460

2.510

4.360

STOP

RUN# 1019 APR 18, 1997 15:22:07

ESTD-AREA

| RT    | AREA     | TYPE | CALC | AMOUNT  |
|-------|----------|------|------|---------|
| 4.360 | 16396168 | PB   | 2    | 162.322 |

TOTAL AREA=1.6507E+07  
MUL FACTOR=1.0000E+00

\* RUN # 1020 APR 18, 1997 15:34:03  
START

0.356  
0.699  
1.486

2.481

4.361

STOP

RUN# 1020 APR 18, 1997 15:34:03

ESTD-AREA

| RT    | AREA     | TYPE | CAL# | AMOUNT  |
|-------|----------|------|------|---------|
| 4.361 | 19097808 | PB   | 2    | 188.177 |

TOTAL AREA=1.9241E+07

MUL FACTOR=1.0000E+00

\* RUN # 1021 APR 18, 1997 15:44:27

START

0.290  
0.639

4.358

STOP

RUN# 1021 APR 18, 1997 15:44:27

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.358 | 5687642 | PB   | 2    | 56.308 |

TOTAL AREA=5776854

MUL FACTOR=1.0000E+00

\* RUN # 1022 APR 18, 1997 15:53:51

START

0.353  
0.06156

1.102

0418-02  
NMMA-12-2  
CPA MOD 42%



RUN# 1022 APR 18, 1997 15:53:51

ESTO-AREA

| RT    | AREA    | TYPE | CALC# | AMOUNT |
|-------|---------|------|-------|--------|
| 1.790 | 27562   | UV   | 1     | 1.158  |
| 4.353 | 3776958 | PB   | 2     | 37.392 |

TOTAL AREA=397862.2  
MUL FACTOR=1.0000E+00

```
* RUN #: 1073      APR 10, 1997  16:01:41
START
```

[illegible]

2.824

4.360

**STOP**

RUN# 1023 APR 18, 1997 16:01:41

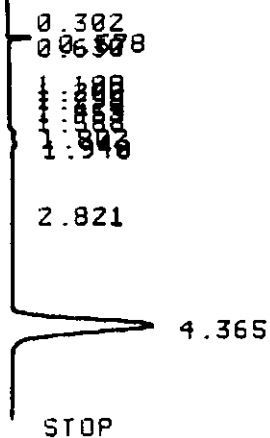
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.797 | 45696   | UU   | 1    | 1.919  |
| 4.360 | 2429792 | PB   | 2    | 24.055 |

TOTAL AREA=2779525  
MUL FACTOR=1.0000E+00



START



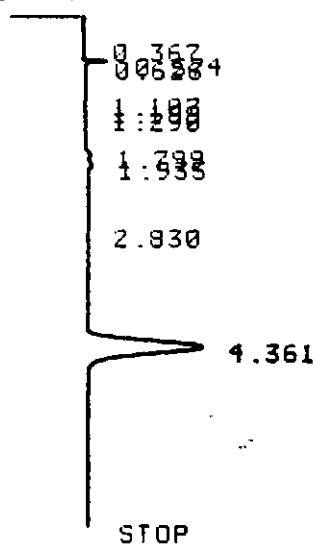
RUN# 1024 APR 18, 1997 16:07:09

ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.802 | 41403   | UU   | 1    | 1.739  |
| 4.365 | 1600175 | BB   | 2    | 15.842 |

TOTAL AREA=1931852  
MUL FACTOR=1.0000E+00

\* RUN # 1025 APR 18, 1997 16:13:15  
START



RUN# 1025 APR 18, 1997 16:13:15

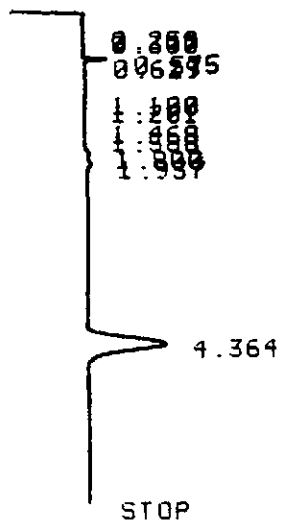
ESTD-AREA

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 1.799 | 20986   | PV   | 1    | .881   |
| 4.361 | 1312638 | PO   | 2    | 12.995 |

TOTAL AREA=1492507  
MUL FACTOR=1.0000E+00

\* RUN # 1026      APR 18, 1997    16:20:19

START



RUN# 1026      APR 18, 1997    16:20:19

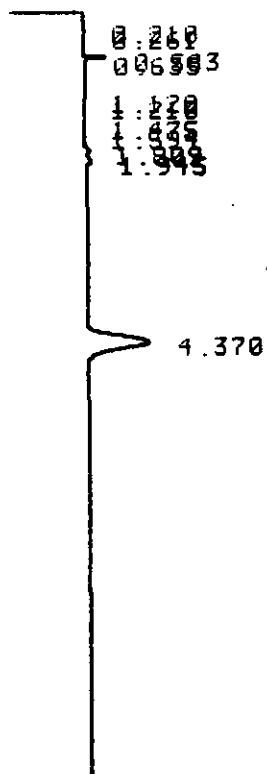
ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.800 | 31800  | UU   | 1    | 1.462  |
| 4.364 | 909559 | PB   | 2    | 9.005  |

TOTAL AREA=1169004  
MUL FACTOR=1.0000E+00

\* RUN # 1027      APR 18, 1997    16:29:00

START



STOP

RUN# 1027 APR 18, 1997 16:29:00

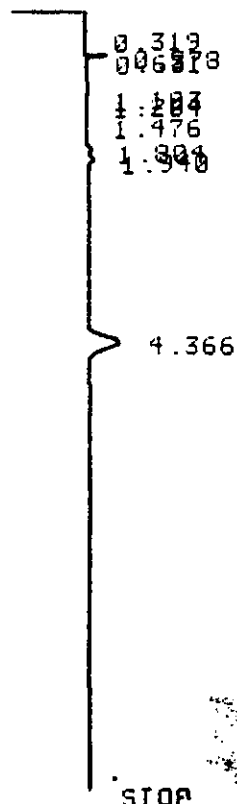
ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.809 | 33383  | UU   | 1    | 1.402  |
| 4.370 | 718457 | PR   | 2    | 7.113  |

TOTAL AREA= 962517  
MUL FACTOR=1.0000E+00

\* RUN # 1028 APR 18, 1997 16:43:33

START



STOP

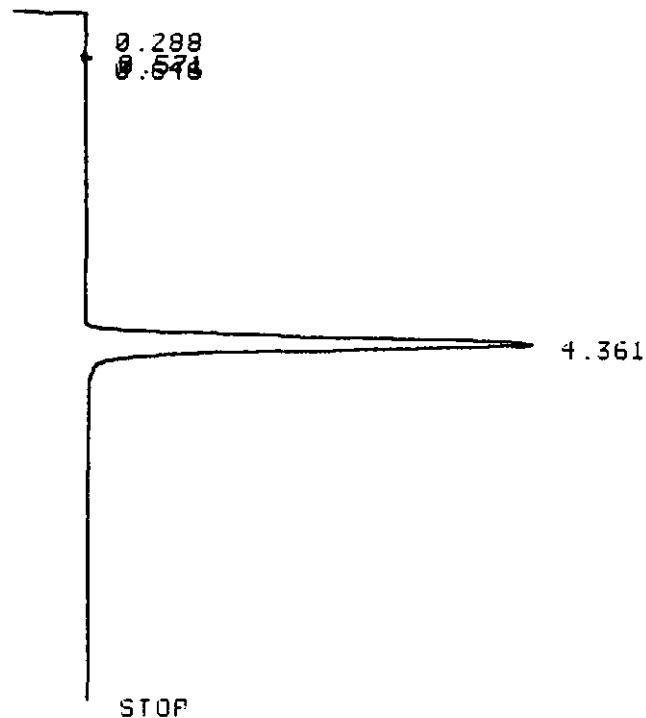
RUN# 1028 APR 18, 1997 16:43:33

ESTD-AREA

| RT    | AREA   | TYPE | CAL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.804 | 40678  | UU   | 1    | 1.708  |
| 4.366 | 381869 | PR   | 2    | 3.781  |

TOTAL AREA= 647754  
MUL FACTOR=1.0000E+00

\* RUN # 1029      APR 18, 1997 16:55:46  
START

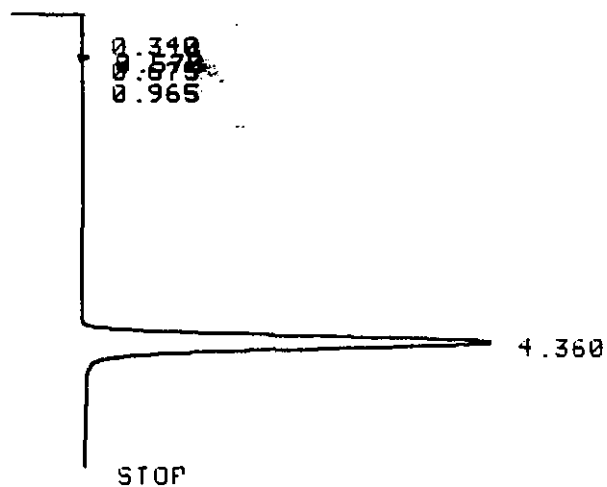


RUN# 1029      APR 18, 1997 16:55:46

| ESTD-AREA | RT    | AREA    | TYPE | CALC | AMOUNT |
|-----------|-------|---------|------|------|--------|
|           | 4.361 | 4999213 | PB   | 2    | 49.492 |

TOTAL AREA=5064000  
MUL FACTOR=1.0000E+00

\* RUN # 1030      APR 18, 1997 17:05:20  
START



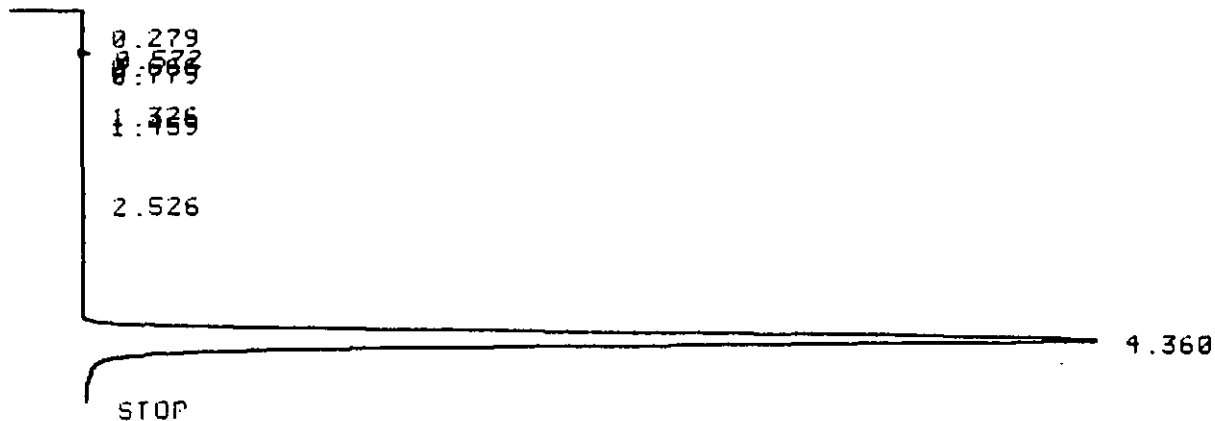
RUN# 1030      APR 18, 1997 17:05:20

| RT    | AREA    | TYPE | CAL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.360 | 4573312 | PB   | 2    | 45.276 |

TOTAL AREA=4720289  
MUL FACTOR=1.0000E+00

\* RUN # 1031 APR 18, 1997 17:12:00

START



RUN# 1031 APR 18, 1997 17:12:00

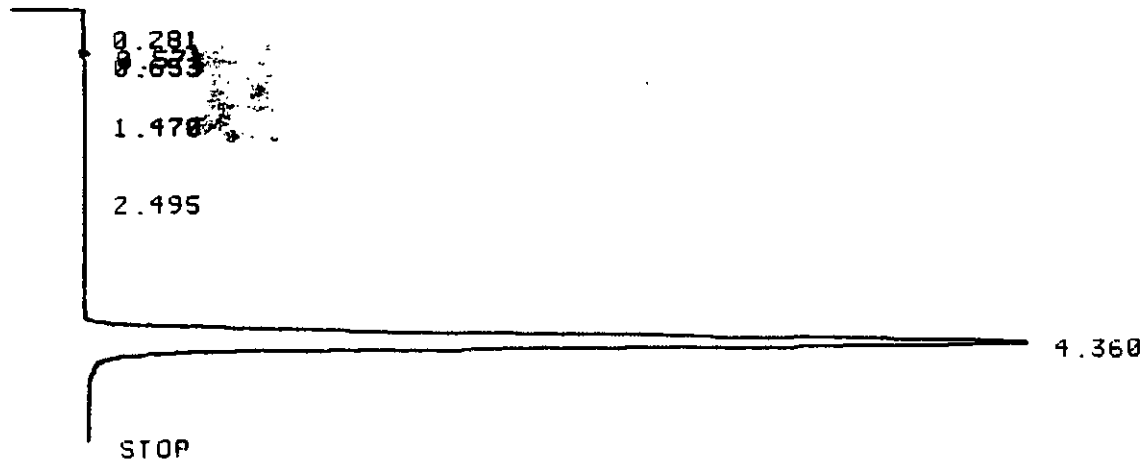
ESTD-AREA

| RT    | AREA     | TYPE | CAL# | AMOUNT  |
|-------|----------|------|------|---------|
| 4.360 | 11345776 | PB   | 2    | 112.323 |

TOTAL AREA=1.1533E+07  
MUL FACTOR=1.0000E+00

\* RUN # 1032 APR 18, 1997 17:17:36

START



RUN# 1032 APR 18, 1997 17:17:36

ESTD-AREA

| RT | AREA | TYPE | CAL# | AMOUNT |
|----|------|------|------|--------|
|----|------|------|------|--------|

4.360 10561088 P8 2 104.555

TOTAL AREA=1.0638E+07  
MUL FACTOR=1.0000E+00

\* RUN # 1033 APR 18, 1997 17:23:53

START

0.279

0.558

0.805

1.485

2.505

4.360

STOP

RUN# 1033 APR 18, 1997 17:23:53

ESTD-AREA

| RT    | AREA     | TYPE | CAL# | AMOUNT  |
|-------|----------|------|------|---------|
| 4.360 | 18060768 | P8   | 2    | 179.802 |

TOTAL AREA=1.0301E+07  
MUL FACTOR=1.0000E+00

\* RUN # 1034 APR 18, 1997 17:32:48

START

0.302

0.558

0.958

1.488

2.519

4.364

STOP

RUN# 1034

APR 18, 1997 17:32:40

ESTD-AREA

| RT    | AREA     | TYPE | CAL# | AMOUNT  |
|-------|----------|------|------|---------|
| 4.364 | 18431010 | PB   | 2    | 182 475 |

TOTAL AREA=1.0613E+07

MUL FACTOR=1.0000E+00

\*

\*

4/18/97

1062

Outlet ~~unit~~ @ span = 1604, @ DTS = 1576, voltage drop CE < 2%

Run 0418-01 = Numa-9-1C, third try @ 28' Hull 42% resin

DAS power supply @ 21.5V, low comp (relative # ok)

Initial resin 462.43

Online 0754

Spray on 0755 - Skin

Change in  $\delta P$  @ 0800 due to RT

1/2 skin done 0832 curing prior to flip.

2<sup>nd</sup> 1/2 skin on 0918, done ~ 930

Lam on @ 1028

Lam second 1/2 on @ 1209 done 1231

Resin final = 169.91

Inlet neg. spike ~ 1220

Flow DAS = 0.1968, -2.3 Ps  $\Theta$  = 1329-1333

H 8 .21 V 8 .18

$T_s = 69$

.25 .20

$P_0 = 29.88$

.24 .21

$P_s = -2.3$

.24 .20

$RH = .43 @ 55^\circ$

.22 .24

$Q = 3261$

.22 .23

# Resin = 292.52  $\Rightarrow$  122.86 # Styrene

.20 .23

THC = 1850

1 .18 1 .20

$\Theta = 429'' = 29.1 \text{ # Styrene} = 23.7\% \text{ AS}$

Temperature drop @ -1423 due to open garage door

Run stopped @ 13 ppm THCo @ 15:04 GC @ 6 ppm @ ~~14:44~~

- Low styrene (GC)

- High background (THCi)

- Big scale (THCo)

- No change in THCo in ~ 6 minutes



Order 0418-02 @ 1549 NMM-12-2 CFA 42%

2/2

167.74 ~~170.67~~ initial resin ~~170.67~~  
OK

Spray 15:51

Final 167.07  $\rightarrow$  165.9 (1 update too soon)

Flow @ 1613  $P_s = -2.3$   $\Delta P = 0.19$  761617

H8 .20 U8 .19

$T_s = 68$

.24 .21

$P_b = 29.87$

.25 .21

$R_A = 44\% @ 54^\circ$

.24 .22

\*Resin = 4.77

.22 .23

TTC 34

.21 .22

$\Theta = 3244 - 75'' \rightarrow 0.93 \Rightarrow 46.4\%$

.20 .22

$Q = 3244$

.17 .19

Lots of glass/resin on floor from previous work

CALIBRATION SUMMARY

04-18-1997 07:23:40

CALIBRATION FILE NAME = c:\cendata\0418a.CAL

| Chan. | Name  | Units | Zero  |       | Span  |       | Slope  | Int.      |
|-------|-------|-------|-------|-------|-------|-------|--------|-----------|
|       |       |       | Conc. | Reso. | Conc. | Reso. |        |           |
| 1     | THC o | ppm   | 0     | 0     | 1604  | 8.9   | 179.67 | -.1685    |
| 2     | THC i | ppm   | 0     | 0     | 45.5  | 9.2   | 4.93   | .0059     |
| 3     | Flow  | inH2O | 0     | 2.97  | 1.7   | 3.8   | 2.09   | -6.2005   |
| 4     | Temp  | F     | 32    | 1.98  | 212   | 3.3   | 137.51 | -240.4591 |
| 5     | Resin | lb    | 0     | 1.46  | 600   | 4.3   | 212.27 | -310.8426 |
| 6     | Ps    | inH2O | 0     | .71   | -1.7  | 1.1   | -3.96  | 2.7997    |

RADIANT CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-18-1997 Current Time = 07:26:20  
 File Name = c:\ce\data\041897.PRM Calibration File: c:\ce\data\0418a.CAL

Test #: Pre out 1600 in 45.5

| 04-18-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 07:26:24           | 1575.8       | 45.5         | -0.0          | 62.2      | 1546.8      | -0.0        |
| 07:26:26           | 1575.8       | 45.5         | -0.0          | 62.2      | 1546.8      | -0.0        |
| 07:26:28           | 1576.0       | 45.5         | -0.0          | 62.2      | 1668.5      | -0.0        |
| 07:26:30           | 1576.3       | 45.5         | -0.0          | 61.9      | 1409.2      | -0.0        |
| 07:26:40           | 1576.8       | 45.5         | -0.0          | 61.8      | 1386.0      | -0.0        |
| 07:26:58           | 1577.9       | 45.4         | -0.0          | 61.8      | 1376.9      | -0.0        |
| 07:27:08           | 1578.9       | 45.4         | -0.0          | 61.6      | 1293.2      | -0.0        |
| 07:27:18           | 1577.1       | 45.4         | -0.0          | 61.7      | 1316.2      | -0.0        |
| 07:27:28           | 1576.0       | 45.5         | -0.0          | 61.8      | 1369.1      | -0.0        |
| 07:27:38           | 1575.3       | 45.5         | -0.0          | 61.9      | 1376.5      | -0.0        |
| Avg =              | 1576.6       | 45.5         | -0.0          | 61.9      | 1428.9      | -0.0        |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-18-1997 Current Time = 07:31:32

File Name = c:\cemdata\041897.PRN Calibration File: c:\cemdata\0418a.CAL

Test #: Pre out 914 in 0

| 04-18-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 07:31:36           | 912.7        | -0.1         | -0.0          | 60.9      | -1034.6     | 0.0         |
| 07:31:38           | 912.9        | -0.1         | -0.0          | 60.9      | -1210.1     | 0.0         |
| 07:31:40           | 912.9        | -0.1         | -0.0          | 60.8      | -943.7      | 0.0         |
| 07:31:58           | 912.9        | -0.1         | -0.0          | 60.7      | -928.7      | 0.0         |
| 07:32:08           | 912.9        | -0.1         | -0.0          | 60.7      | -932.8      | 0.0         |
| 07:32:18           | 912.9        | -0.1         | -0.0          | 60.8      | -930.9      | 0.0         |
| 07:32:28           | 912.9        | -0.1         | -0.0          | 60.8      | -934.3      | 0.0         |
| Avg =              | 912.9        | -0.1         | -0.0          | 60.8      | -987.9      | 0.0         |

RADIANT CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-18-1997 Current Time = 07:34:42  
 File Name = c:\cendata\041897.PRM Calibration File: c:\cendata\0418a.CAL

Test #: Pre out 600 in 30.4

| 04-18-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 07:34:47           | 601.7        | 30.7         | -0.0          | 60.5      | -1159.4     | 0.0         |
| 07:34:49           | 601.7        | 30.7         | -0.0          | 60.5      | -1159.4     | 0.0         |
| 07:34:50           | 599.9        | 30.7         | -0.0          | 60.5      | -1155.8     | 0.0         |
| 07:35:08           | 600.0        | 30.7         | -0.0          | 60.6      | -1139.3     | 0.0         |
| 07:35:18           | 600.0        | 30.7         | -0.0          | 60.6      | -1137.6     | 0.0         |
| 07:35:28           | 599.9        | 30.7         | -0.0          | 60.7      | -1139.4     | 0.0         |
| 07:35:38           | 600.0        | 30.6         | -0.0          | 60.7      | -1137.7     | 0.0         |
| 07:35:48           | 600.0        | 30.6         | -0.0          | 60.8      | -1138.0     | 0.0         |
| 07:35:58           | 600.0        | 30.6         | -0.0          | 60.8      | -1137.7     | 0.0         |
| 07:36:08           | 600.0        | 30.6         | -0.1          | 61.0      | -1187.0     | -1.4        |
| 07:36:18           | 599.9        | 30.6         | 0.2           | 61.9      | -1007.1     | -2.2        |
| Avg =              | 600.3        | 30.7         | -0.0          | 60.8      | -1136.2     | -0.3        |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-18-1997 Current Time = 07:38:43

File Name = c:\cemdata\041897.PRN Calibration File: c:\cemdata\0418a.CAL

Test #: Pre out 0 in 15.0

| 04-18-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 07:38:48           | 0.0          | 15.1         | 0.2           | 62.3      | -441.9      | -2.3        |
| 07:38:50           | 0.0          | 15.1         | 0.2           | 62.3      | -441.9      | -2.3        |
| 07:38:58           | -0.0         | 15.1         | 0.2           | 62.2      | -413.7      | -2.4        |
| 07:39:08           | -0.0         | 15.1         | 0.2           | 62.2      | -400.2      | -2.4        |
| 07:39:18           | 0.0          | 15.1         | 0.2           | 62.3      | -398.8      | -2.7        |
| 07:39:28           | -0.0         | 15.1         | 0.2           | 62.2      | -399.0      | -2.4        |
| 07:39:38           | -0.0         | 15.0         | 0.2           | 62.3      | -399.6      | -2.4        |
| 07:39:48           | -0.0         | 15.0         | 0.2           | 62.3      | -398.1      | -2.4        |
| 07:39:58           | -0.0         | 15.0         | 0.2           | 62.3      | -398.2      | -2.4        |
| 07:40:08           | -0.0         | 15.1         | 0.2           | 62.2      | -396.9      | -2.4        |
| 07:40:18           | 0.0          | 15.1         | 0.2           | 62.2      | -397.1      | -2.4        |
| 07:40:28           | -0.0         | 15.1         | 0.2           | 62.2      | -397.0      | -2.4        |
| Avg =              | -0.0         | 15.1         | 0.2           | 62.2      | -406.9      | -2.4        |

## RADIANT CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-18-1997 Current Time = 07:54:20

File Name = c:\cemdata\041897.PRM Calibration File: c:\cemdata\0418a.CAL

Test #: 0418-01

| 04-18-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 07:55:08           | 1.9          | 3.0          | 0.2           | 62.8      | 462.5       | -2.4        |
| 07:56:08           | 7.0          | 3.0          | 0.2           | 62.9      | 461.7       | -2.4        |
| 07:57:08           | 55.2         | 3.0          | 0.2           | 63.0      | 458.4       | -2.4        |
| 07:58:08           | 242.7        | 3.0          | 0.2           | 63.0      | 452.1       | -2.4        |
| 07:59:08           | 385.5        | 3.0          | 0.2           | 63.2      | 445.3       | -2.4        |
| 08:00:08           | 377.3        | 3.0          | 0.2           | 63.1      | 441.5       | -2.2        |
| 08:01:08           | 395.6        | 3.0          | 0.2           | 63.1      | 436.4       | -2.7        |
| 08:02:08           | 436.2        | 2.9          | 0.2           | 63.2      | 432.8       | -2.2        |
| 08:03:08           | 392.9        | 2.9          | 0.2           | 63.2      | 432.8       | -2.2        |
| 08:04:08           | 313.9        | 2.9          | 0.2           | 63.2      | 432.9       | -2.2        |
| 08:05:08           | 271.6        | 3.0          | 0.2           | 63.1      | 432.8       | -2.2        |
| 08:06:08           | 246.5        | 3.0          | 0.2           | 63.2      | 432.9       | -2.2        |
| 08:07:08           | 215.5        | 3.0          | 0.2           | 63.2      | 432.9       | -2.2        |
| 08:08:08           | 202.8        | 3.0          | 0.2           | 63.3      | 432.5       | -2.2        |
| 08:09:08           | 190.8        | 3.0          | 0.2           | 63.2      | 432.4       | -2.2        |
| 08:10:08           | 170.5        | 3.0          | 0.2           | 63.3      | 432.4       | -2.2        |
| 08:11:08           | 237.7        | 2.9          | 0.2           | 63.3      | 428.7       | -2.2        |
| 08:12:08           | 383.0        | 2.9          | 0.2           | 63.3      | 423.0       | -2.2        |
| 08:13:08           | 288.5        | 2.9          | 0.2           | 63.2      | 421.5       | -2.2        |
| 08:14:08           | 370.3        | 2.9          | 0.2           | 63.2      | 417.1       | -2.2        |
| 08:15:08           | 375.4        | 3.0          | 0.2           | 63.2      | 416.9       | -2.2        |
| 08:16:08           | 449.4        | 3.0          | 0.2           | 63.3      | 414.2       | -2.2        |
| 08:17:08           | 346.0        | 3.0          | 0.2           | 63.3      | 413.9       | -2.2        |
| 08:18:08           | 292.1        | 3.0          | 0.2           | 63.3      | 413.7       | -2.2        |
| 08:19:08           | 266.7        | 3.0          | 0.2           | 63.3      | 413.7       | -2.2        |
| 08:20:08           | 272.2        | 2.9          | 0.2           | 63.2      | 411.4       | -2.2        |
| 08:21:08           | 460.0        | 2.9          | 0.2           | 63.2      | 405.0       | -2.2        |
| 08:22:08           | 574.5        | 2.8          | 0.2           | 63.2      | 400.0       | -2.2        |
| 08:23:08           | 517.1        | 2.8          | 0.2           | 63.2      | 398.7       | -2.2        |
| 08:24:08           | 453.2        | 2.8          | 0.2           | 63.1      | 397.1       | -2.2        |
| 08:25:08           | 359.8        | 2.8          | 0.2           | 63.0      | 397.1       | -2.2        |
| 08:26:08           | 318.8        | 2.8          | 0.2           | 63.1      | 397.1       | -2.2        |
| 08:27:08           | 302.3        | 2.8          | 0.2           | 63.1      | 397.1       | -2.2        |
| 08:28:08           | 280.6        | 2.8          | 0.2           | 63.1      | 397.1       | -2.2        |
| 08:29:08           | 271.6        | 2.8          | 0.2           | 63.0      | 397.1       | -2.2        |
| 08:30:08           | 232.8        | 2.8          | 0.2           | 63.0      | 397.0       | -2.2        |
| 08:31:08           | 176.6        | 2.8          | 0.2           | 63.0      | 397.0       | -2.2        |
| 08:32:08           | 156.3        | 2.8          | 0.2           | 62.9      | 397.0       | -2.2        |
| 08:33:08           | 147.0        | 2.7          | 0.2           | 62.9      | 397.1       | -2.2        |
| 08:34:08           | 142.2        | 2.7          | 0.2           | 62.9      | 397.1       | -2.2        |

Test #: 0418-01

| 04-18-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 08:35:08           | 135.6        | 2.7          | 0.2           | 62.9      | 397.1       | -2.7        |
| 08:36:08           | 124.9        | 2.7          | 0.2           | 62.9      | 397.1       | -2.2        |
| 08:37:08           | 125.4        | 2.7          | 0.2           | 62.9      | 397.1       | -2.7        |
| 08:38:08           | 124.3        | 2.7          | 0.2           | 62.9      | 397.1       | -2.2        |
| 08:39:08           | 117.8        | 2.7          | 0.2           | 62.9      | 397.1       | -2.7        |
| 08:40:08           | 111.6        | 2.7          | 0.2           | 62.9      | 397.1       | -2.2        |
| 08:41:08           | 110.8        | 2.7          | 0.2           | 63.0      | 397.1       | -2.7        |
| 08:42:08           | 112.4        | 2.7          | 0.2           | 63.0      | 397.1       | -2.2        |
| 08:43:08           | 105.0        | 2.7          | 0.2           | 63.0      | 397.1       | -2.7        |
| 08:44:08           | 103.8        | 2.7          | 0.2           | 63.0      | 397.1       | -2.2        |
| 08:45:08           | 110.9        | 2.6          | 0.2           | 63.0      | 397.1       | -2.7        |
| 08:46:08           | 106.1        | 2.6          | 0.2           | 63.0      | 397.1       | -2.2        |
| 08:47:08           | 112.8        | 2.6          | 0.2           | 63.0      | 397.1       | -2.7        |
| 08:48:08           | 112.6        | 2.6          | 0.2           | 63.0      | 397.1       | -2.2        |
| 08:49:08           | 109.3        | 2.7          | 0.2           | 63.0      | 397.1       | -2.7        |
| 08:50:08           | 108.5        | 2.6          | 0.2           | 63.0      | 397.1       | -2.2        |
| 08:51:08           | 109.9        | 2.6          | 0.2           | 63.0      | 397.1       | -2.7        |
| 08:52:08           | 106.7        | 2.6          | 0.2           | 63.0      | 397.1       | -2.2        |
| 08:53:08           | 111.1        | 2.6          | 0.2           | 62.9      | 397.1       | -2.7        |
| 08:54:08           | 114.2        | 2.5          | 0.2           | 63.0      | 397.1       | -2.2        |
| 08:55:08           | 119.4        | 2.5          | 0.2           | 63.0      | 397.1       | -2.7        |
| 08:56:08           | 121.1        | 2.5          | 0.2           | 62.9      | 397.1       | -2.2        |
| 08:57:08           | 106.9        | 2.5          | 0.2           | 63.0      | 397.1       | -2.7        |
| 08:58:08           | 106.5        | 2.5          | 0.2           | 62.9      | 397.1       | -2.2        |
| 08:59:08           | 104.1        | 2.5          | 0.2           | 62.9      | 397.1       | -2.7        |
| 09:00:08           | 100.4        | 2.5          | 0.2           | 62.9      | 397.1       | -2.2        |
| 09:01:08           | 102.9        | 2.5          | 0.2           | 62.9      | 397.1       | -2.7        |
| 09:02:08           | 108.6        | 2.5          | 0.2           | 63.0      | 397.1       | -2.2        |
| 09:03:08           | 102.8        | 2.5          | 0.2           | 62.9      | 397.1       | -2.7        |
| 09:04:08           | 111.8        | 2.5          | 0.2           | 63.0      | 397.1       | -2.2        |
| 09:05:08           | 101.0        | 2.5          | 0.2           | 63.1      | 397.1       | -2.7        |
| 09:06:08           | 106.3        | 2.5          | 0.2           | 63.1      | 397.0       | -2.2        |
| 09:07:08           | 113.2        | 2.5          | 0.2           | 63.2      | 397.1       | -2.7        |
| 09:08:08           | 118.2        | 2.4          | 0.2           | 63.1      | 397.1       | -2.2        |
| 09:09:08           | 128.7        | 2.4          | 0.2           | 63.2      | 397.0       | -2.7        |
| 09:10:08           | 138.2        | 2.5          | 0.2           | 63.3      | 397.0       | -2.2        |
| 09:11:08           | 148.9        | 2.5          | 0.2           | 63.3      | 400.7       | -2.7        |
| 09:12:08           | 145.8        | 2.5          | 0.2           | 63.2      | 399.2       | -2.2        |
| 09:13:08           | 153.3        | 2.5          | 0.2           | 63.2      | 397.4       | -2.7        |
| 09:14:08           | 137.5        | 2.5          | 0.2           | 63.2      | 395.9       | -2.2        |
| 09:15:08           | 212.2        | 2.6          | 0.2           | 63.3      | 392.9       | -2.7        |
| 09:16:08           | 295.6        | 2.5          | 0.2           | 63.3      | 388.5       | -2.2        |
| 09:17:08           | 295.5        | 2.6          | 0.2           | 63.3      | 387.5       | -2.7        |
| 09:18:08           | 359.6        | 2.6          | 0.2           | 63.3      | 382.2       | -2.2        |
| 09:19:08           | 422.3        | 2.6          | 0.2           | 63.4      | 377.8       | -2.7        |
| 09:20:08           | 498.8        | 2.6          | 0.2           | 63.4      | 372.6       | -2.2        |
| 09:21:08           | 533.3        | 2.6          | 0.2           | 63.4      | 367.7       | -2.7        |
| 09:22:08           | 602.4        | 2.6          | 0.2           | 63.4      | 364.2       | -2.2        |
| 09:23:08           | 576.9        | 2.6          | 0.2           | 63.4      | 361.0       | -2.7        |
| 09:24:08           | 584.1        | 2.6          | 0.2           | 63.5      | 359.1       | -2.2        |
| 09:25:08           | 534.1        | 2.6          | 0.2           | 63.5      | 358.6       | -2.7        |
| 09:26:08           | 481.5        | 2.6          | 0.2           | 63.5      | 354.3       | -2.2        |
| 09:27:08           | 493.8        | 2.6          | 0.2           | 63.5      | 352.2       | -2.7        |
| 09:28:08           | 604.7        | 2.6          | 0.2           | 63.6      | 346.8       | -2.2        |
| 09:29:08           | 560.7        | 2.7          | 0.2           | 63.6      | 345.6       | -2.7        |
| 09:30:08           | 578.5        | 2.7          | 0.2           | 63.6      | 341.2       | -2.2        |



Test #: 0418-01

| 04-18-1997<br>Time | THC o<br>ccm | THC i<br>ccm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 09:31:08           | 685.8        | 2.7          | 0.2           | 63.6      | 335.1       | -2.7        |
| 09:32:08           | 754.4        | 2.7          | 0.2           | 63.5      | 331.8       | -2.2        |
| 09:33:08           | 648.0        | 2.7          | 0.2           | 63.6      | 331.1       | -2.7        |
| 09:34:08           | 557.0        | 2.7          | 0.2           | 63.6      | 331.0       | -2.2        |
| 09:35:08           | 440.1        | 2.8          | 0.2           | 63.6      | 331.0       | -2.2        |
| 09:36:08           | 351.5        | 2.8          | 0.2           | 63.6      | 331.0       | -2.2        |
| 09:37:08           | 321.2        | 2.9          | 0.2           | 63.6      | 331.0       | -2.7        |
| 09:38:08           | 283.8        | 3.0          | 0.2           | 63.6      | 331.0       | -2.2        |
| 09:39:08           | 232.5        | 3.1          | 0.2           | 63.6      | 331.0       | -2.7        |
| 09:40:08           | 223.3        | 3.1          | 0.2           | 63.6      | 331.0       | -2.2        |
| 09:41:08           | 195.6        | 3.1          | 0.2           | 63.5      | 331.0       | -2.7        |
| 09:42:08           | 194.6        | 3.2          | 0.2           | 63.5      | 331.0       | -2.2        |
| 09:43:08           | 175.1        | 3.2          | 0.2           | 63.5      | 331.0       | -2.2        |
| 09:44:08           | 152.2        | 3.2          | 0.2           | 63.5      | 331.0       | -2.2        |
| 09:45:08           | 146.0        | 3.2          | 0.2           | 63.5      | 331.0       | -2.7        |
| 09:46:08           | 133.1        | 3.2          | 0.2           | 63.6      | 331.0       | -2.2        |
| 09:47:08           | 147.2        | 3.1          | 0.2           | 63.7      | 331.0       | -2.7        |
| 09:48:08           | 142.7        | 3.2          | 0.2           | 63.7      | 331.0       | -2.2        |
| 09:49:08           | 135.7        | 3.2          | 0.2           | 63.6      | 331.0       | -2.7        |
| 09:50:08           | 129.2        | 3.1          | 0.2           | 63.7      | 331.0       | -2.2        |
| 09:51:08           | 119.1        | 3.1          | 0.2           | 63.7      | 331.0       | -2.7        |
| 09:52:08           | 106.3        | 3.1          | 0.2           | 63.5      | 331.0       | -2.2        |
| 09:53:08           | 116.9        | 3.1          | 0.2           | 63.7      | 331.0       | -2.7        |
| 09:54:08           | 130.8        | 3.1          | 0.2           | 63.9      | 331.0       | -2.2        |
| 09:55:08           | 123.5        | 3.1          | 0.2           | 63.9      | 331.0       | -2.7        |
| 09:56:08           | 108.8        | 3.1          | 0.2           | 63.9      | 331.0       | -2.2        |
| 09:57:08           | 110.3        | 3.1          | 0.2           | 64.0      | 331.0       | -2.7        |
| 09:58:08           | 99.6         | 3.2          | 0.2           | 64.0      | 331.0       | -2.2        |
| 09:59:08           | 100.6        | 3.1          | 0.2           | 63.9      | 331.0       | -2.7        |
| 10:00:08           | 102.6        | 3.2          | 0.2           | 64.0      | 331.0       | -2.2        |
| 10:01:08           | 93.9         | 3.2          | 0.2           | 63.9      | 331.0       | -2.2        |
| 10:02:08           | 90.5         | 3.2          | 0.2           | 63.9      | 331.0       | -2.2        |
| 10:03:08           | 93.9         | 3.2          | 0.2           | 63.9      | 331.0       | -2.2        |
| 10:04:08           | 106.6        | 3.2          | 0.2           | 63.9      | 331.0       | -2.2        |
| 10:05:08           | 94.8         | 3.2          | 0.2           | 63.9      | 331.0       | -2.7        |
| 10:06:08           | 91.0         | 3.2          | 0.2           | 63.9      | 331.0       | -2.2        |
| 10:07:08           | 85.1         | 3.2          | 0.2           | 63.9      | 331.0       | -2.7        |
| 10:08:08           | 96.9         | 3.3          | 0.2           | 64.0      | 331.0       | -2.2        |
| 10:09:08           | 101.0        | 3.3          | 0.2           | 64.1      | 331.0       | -2.2        |
| 10:10:08           | 101.0        | 3.2          | 0.2           | 64.1      | 331.0       | -2.2        |
| 10:11:08           | 103.6        | 3.2          | 0.2           | 64.2      | 331.0       | -2.2        |
| 10:12:08           | 90.5         | 3.2          | 0.2           | 64.1      | 331.0       | -2.2        |
| 10:13:08           | 90.4         | 3.2          | 0.2           | 64.2      | 331.0       | -2.7        |
| 10:14:08           | 95.4         | 3.3          | 0.2           | 64.2      | 331.0       | -2.2        |
| 10:15:08           | 96.3         | 3.2          | 0.2           | 64.2      | 331.0       | -2.7        |
| 10:16:08           | 98.3         | 3.2          | 0.2           | 64.2      | 331.0       | -2.2        |
| 10:17:08           | 90.5         | 3.1          | 0.2           | 64.3      | 331.0       | -2.7        |
| 10:18:08           | 85.8         | 3.1          | 0.2           | 64.3      | 331.0       | -2.2        |
| 10:19:08           | 84.3         | 3.1          | 0.2           | 64.3      | 331.0       | -2.2        |
| 10:20:08           | 86.2         | 3.1          | 0.2           | 64.3      | 331.0       | -2.2        |
| 10:21:08           | 88.8         | 3.1          | 0.2           | 64.4      | 331.0       | -2.7        |
| 10:22:08           | 96.3         | 3.0          | 0.2           | 64.5      | 331.0       | -2.2        |
| 10:23:08           | 99.2         | 3.2          | 0.2           | 64.6      | 331.0       | -2.7        |
| 10:24:08           | 92.2         | 3.3          | 0.2           | 64.5      | 331.0       | -2.2        |
| 10:25:08           | 94.3         | 3.2          | 0.2           | 64.6      | 331.1       | -2.7        |
| 10:26:08           | 168.7        | 3.2          | 0.2           | 64.7      | 328.5       | -2.2        |

Test #: 0418-01

| 04-18-1997<br>Time | THC o<br>oom | THC i<br>oom | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 10:27:08           | 381.2        | 3.4          | 0.2           | 64.7      | 322.0       | -2.7        |
| 10:28:08           | 548.9        | 3.3          | 0.2           | 64.8      | 317.2       | -2.2        |
| 10:29:08           | 472.1        | 3.3          | 0.2           | 64.8      | 316.0       | -2.7        |
| 10:30:08           | 422.1        | 3.2          | 0.2           | 64.9      | 314.3       | -2.2        |
| 10:31:08           | 393.5        | 3.2          | 0.2           | 64.9      | 312.8       | -2.7        |
| 10:32:08           | 516.3        | 3.4          | 0.2           | 64.9      | 307.5       | -2.2        |
| 10:33:08           | 558.6        | 3.5          | 0.2           | 64.9      | 306.2       | -2.7        |
| 10:34:08           | 497.0        | 3.4          | 0.2           | 65.0      | 306.2       | -2.2        |
| 10:35:08           | 443.2        | 3.4          | 0.2           | 65.0      | 307.7       | -2.7        |
| 10:36:08           | 465.6        | 3.5          | 0.2           | 65.1      | 304.1       | -2.2        |
| 10:37:08           | 544.5        | 3.5          | 0.2           | 65.0      | 298.0       | -2.7        |
| 10:38:08           | 651.5        | 3.5          | 0.2           | 65.1      | 294.2       | -2.2        |
| 10:39:08           | 582.3        | 3.5          | 0.2           | 65.1      | 291.5       | -2.7        |
| 10:40:08           | 546.6        | 3.5          | 0.2           | 65.1      | 287.0       | -2.2        |
| 10:41:08           | 661.8        | 3.6          | 0.2           | 65.1      | 284.1       | -2.7        |
| 10:42:08           | 619.9        | 3.6          | 0.2           | 65.0      | 281.2       | -2.2        |
| 10:43:08           | 612.5        | 3.6          | 0.2           | 65.1      | 278.5       | -2.7        |
| 10:44:08           | 596.8        | 3.6          | 0.2           | 65.1      | 274.4       | -2.2        |
| 10:45:08           | 631.8        | 3.6          | 0.2           | 65.2      | 269.1       | -2.7        |
| 10:46:08           | 614.2        | 3.6          | 0.2           | 65.2      | 266.0       | -2.2        |
| 10:47:08           | 588.1        | 3.7          | 0.2           | 65.1      | 264.5       | -2.7        |
| 10:48:08           | 519.7        | 3.7          | 0.2           | 65.2      | 261.8       | -2.2        |
| 10:49:08           | 593.6        | 3.7          | 0.2           | 65.2      | 258.9       | -2.7        |
| 10:50:08           | 517.6        | 3.8          | 0.2           | 65.2      | 257.4       | -2.2        |
| 10:51:08           | 539.1        | 3.7          | 0.2           | 65.2      | 255.2       | -2.7        |
| 10:52:08           | 507.6        | 3.6          | 0.2           | 65.2      | 252.4       | -2.2        |
| 10:53:08           | 501.3        | 3.7          | 0.2           | 65.2      | 250.4       | -2.7        |
| 10:54:08           | 457.5        | 3.7          | 0.2           | 65.3      | 249.3       | -2.2        |
| 10:55:08           | 408.2        | 3.7          | 0.2           | 65.3      | 249.1       | -2.7        |
| 10:56:08           | 396.6        | 3.6          | 0.2           | 65.3      | 248.7       | -2.2        |
| 10:57:08           | 353.4        | 3.6          | 0.2           | 65.3      | 248.2       | -2.7        |
| 10:58:08           | 316.3        | 3.6          | 0.2           | 65.3      | 248.2       | -2.2        |
| 10:59:08           | 289.2        | 3.7          | 0.2           | 65.3      | 248.2       | -2.7        |
| 11:00:08           | 260.9        | 3.7          | 0.2           | 65.3      | 248.2       | -2.2        |
| 11:01:08           | 235.0        | 3.7          | 0.2           | 65.3      | 248.2       | -2.7        |
| 11:02:08           | 203.4        | 3.8          | 0.2           | 65.3      | 248.2       | -2.2        |
| 11:03:08           | 187.2        | 4.0          | 0.2           | 65.3      | 248.2       | -2.7        |
| 11:04:08           | 181.5        | 3.9          | 0.2           | 65.4      | 248.3       | -2.2        |
| 11:05:08           | 172.1        | 3.8          | 0.2           | 65.4      | 248.3       | -2.7        |
| 11:06:08           | 161.9        | 4.1          | 0.2           | 65.4      | 248.3       | -2.2        |
| 11:07:08           | 155.6        | 4.0          | 0.2           | 65.4      | 248.3       | -2.7        |
| 11:08:08           | 151.0        | 4.1          | 0.2           | 65.4      | 248.3       | -2.2        |
| 11:09:08           | 147.3        | 4.1          | 0.2           | 65.5      | 248.3       | -2.7        |
| 11:10:08           | 144.5        | 4.2          | 0.2           | 65.5      | 248.3       | -2.2        |
| 11:11:08           | 139.7        | 4.2          | 0.2           | 65.6      | 248.3       | -2.7        |
| 11:12:08           | 137.1        | 4.1          | 0.2           | 65.6      | 248.3       | -2.2        |
| 11:13:08           | 141.7        | 4.1          | 0.2           | 65.6      | 248.3       | -2.7        |
| 11:14:08           | 140.6        | 4.1          | 0.2           | 65.7      | 248.2       | -2.2        |
| 11:15:08           | 136.6        | 4.1          | 0.2           | 65.7      | 248.3       | -2.7        |
| 11:16:08           | 132.6        | 4.2          | 0.2           | 65.6      | 248.3       | -2.2        |
| 11:17:08           | 130.5        | 4.1          | 0.2           | 65.7      | 248.3       | -2.7        |
| 11:18:08           | 133.1        | 4.1          | 0.2           | 65.7      | 248.3       | -2.2        |
| 11:19:08           | 129.3        | 4.1          | 0.2           | 65.8      | 248.3       | -2.7        |
| 11:20:08           | 134.1        | 4.1          | 0.2           | 65.8      | 248.3       | -2.2        |
| 11:21:08           | 134.2        | 4.1          | 0.2           | 65.9      | 248.3       | -2.7        |
| 11:22:08           | 131.1        | 4.0          | 0.2           | 65.9      | 248.2       | -2.2        |

Test #: 0418-01

| 04-18-1997<br>Time | THC o<br>oom | THC i<br>oom | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 11:23:08           | 128.3        | 4.0          | 0.2           | 65.9      | 248.3       | -2.7        |
| 11:24:08           | 128.7        | 3.8          | 0.2           | 66.0      | 248.3       | -2.2        |
| 11:25:08           | 126.1        | 3.8          | 0.2           | 65.9      | 248.3       | -2.7        |
| 11:26:08           | 119.7        | 3.8          | 0.2           | 65.9      | 248.2       | -2.2        |
| 11:27:08           | 117.9        | 3.8          | 0.2           | 66.0      | 248.3       | -2.7        |
| 11:28:08           | 121.0        | 3.7          | 0.2           | 66.1      | 248.3       | -2.2        |
| 11:29:08           | 118.2        | 3.9          | 0.2           | 66.2      | 248.2       | -2.7        |
| 11:30:08           | 111.8        | 4.1          | 0.2           | 66.2      | 248.2       | -2.2        |
| 11:31:08           | 110.4        | 3.9          | 0.2           | 66.2      | 248.2       | -2.7        |
| 11:32:08           | 112.1        | 4.2          | 0.2           | 66.3      | 248.2       | -2.2        |
| 11:33:08           | 108.2        | 3.9          | 0.2           | 66.3      | 248.2       | -2.7        |
| 11:34:08           | 106.8        | 3.7          | 0.2           | 66.3      | 248.2       | -2.2        |
| 11:35:08           | 104.1        | 4.0          | 0.2           | 66.4      | 248.2       | -2.7        |
| 11:36:08           | 98.4         | 4.1          | 0.2           | 66.4      | 248.2       | -2.2        |
| 11:37:08           | 97.7         | 4.2          | 0.2           | 66.5      | 248.2       | -2.7        |
| 11:38:08           | 96.6         | 4.2          | 0.2           | 66.6      | 248.2       | -2.2        |
| 11:39:08           | 92.1         | 4.4          | 0.2           | 66.6      | 248.2       | -2.7        |
| 11:40:08           | 86.3         | 4.4          | 0.2           | 66.6      | 248.2       | -2.2        |
| 11:41:08           | 82.7         | 4.5          | 0.2           | 66.7      | 248.2       | -2.7        |
| 11:42:08           | 80.3         | 4.4          | 0.2           | 66.7      | 248.2       | -2.2        |
| 11:43:08           | 80.0         | 4.3          | 0.2           | 66.8      | 248.2       | -2.7        |
| 11:44:08           | 75.1         | 4.2          | 0.2           | 66.8      | 248.2       | -2.2        |
| 11:45:08           | 71.9         | 4.4          | 0.2           | 66.8      | 248.2       | -2.7        |
| 11:46:08           | 69.7         | 4.5          | 0.2           | 66.8      | 248.2       | -2.2        |
| 11:47:08           | 69.0         | 4.5          | 0.2           | 66.9      | 248.2       | -2.7        |
| 11:48:08           | 65.2         | 4.4          | 0.2           | 66.9      | 248.2       | -2.2        |
| 11:49:08           | 61.3         | 4.5          | 0.2           | 66.9      | 248.2       | -2.7        |
| 11:50:08           | 59.1         | 4.6          | 0.2           | 66.9      | 248.2       | -2.2        |
| 11:51:08           | 56.4         | 4.7          | 0.2           | 67.0      | 248.2       | -2.7        |
| 11:52:08           | 54.5         | 4.6          | 0.2           | 67.0      | 248.2       | -2.2        |
| 11:53:08           | 53.2         | 4.8          | 0.2           | 67.1      | 248.2       | -2.7        |
| 11:54:08           | 49.5         | 4.7          | 0.2           | 67.1      | 248.2       | -2.2        |
| 11:55:08           | 48.1         | 4.7          | 0.2           | 67.1      | 248.2       | -2.7        |
| 11:56:08           | 47.3         | 4.8          | 0.2           | 67.2      | 248.2       | -2.2        |
| 11:57:08           | 45.5         | 4.8          | 0.2           | 67.2      | 248.2       | -2.7        |
| 11:58:08           | 41.9         | 4.8          | 0.2           | 67.0      | 248.2       | -2.2        |
| 11:59:08           | 40.8         | 4.9          | 0.2           | 67.1      | 246.7       | -2.7        |
| 12:00:08           | 41.0         | 4.9          | 0.2           | 67.3      | 248.4       | -2.2        |
| 12:01:08           | 37.9         | 4.8          | 0.2           | 67.3      | 248.6       | -2.7        |
| 12:02:08           | 36.1         | 4.9          | 0.2           | 67.3      | 247.7       | -2.2        |
| 12:03:08           | 36.8         | 5.0          | 0.2           | 67.4      | 249.4       | -2.7        |
| 12:04:08           | 36.4         | 5.0          | 0.2           | 67.5      | 248.4       | -2.2        |
| 12:05:08           | 34.0         | 4.7          | 0.2           | 67.5      | 247.3       | -2.7        |
| 12:06:08           | 34.2         | 4.6          | 0.2           | 67.6      | 246.3       | -2.2        |
| 12:07:08           | 30.9         | 4.8          | 0.2           | 67.5      | 249.1       | -2.7        |
| 12:08:08           | 36.5         | 4.7          | 0.2           | 67.5      | 248.2       | -2.3        |
| 12:09:08           | 36.0         | 4.8          | 0.2           | 67.5      | 248.3       | -2.7        |
| 12:10:08           | 52.4         | 4.7          | 0.2           | 67.6      | 247.1       | -2.2        |
| 12:11:08           | 130.2        | 5.0          | 0.2           | 67.6      | 241.8       | -2.7        |
| 12:12:08           | 304.7        | 4.8          | 0.2           | 67.6      | 236.1       | -2.2        |
| 12:13:08           | 400.3        | 4.8          | 0.2           | 67.6      | 232.6       | -2.7        |
| 12:14:08           | 464.9        | 4.8          | 0.2           | 67.6      | 227.1       | -2.2        |
| 12:15:08           | 526.7        | 4.4          | 0.2           | 67.7      | 221.6       | -2.7        |
| 12:16:08           | 621.9        | 4.6          | 0.2           | 67.7      | 215.7       | -2.2        |
| 12:17:08           | 704.1        | 4.3          | 0.2           | 67.8      | 211.2       | -2.7        |
| 12:18:08           | 763.9        | 4.6          | 0.2           | 67.8      | 205.5       | -2.2        |

Test #: 0418-01

| 04-18-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 12:19:08           | 782.8        | 4.6          | 0.2           | 67.9      | 200.1       | -2.7        |
| 12:20:08           | 735.6        | 4.9          | 0.2           | 67.9      | 195.6       | -2.2        |
| 12:21:08           | 745.1        | 4.9          | 0.2           | 67.9      | 193.0       | -2.7        |
| 12:22:08           | 619.7        | 3.8          | 0.2           | 67.9      | 191.3       | -2.2        |
| 12:23:08           | 631.2        | 4.4          | 0.2           | 67.9      | 187.3       | -2.2        |
| 12:24:08           | 707.2        | 4.0          | 0.2           | 68.0      | 183.3       | -2.2        |
| 12:25:08           | 670.9        | 3.3          | 0.2           | 68.0      | 179.5       | -2.7        |
| 12:26:08           | 647.9        | 3.3          | 0.2           | 68.1      | 178.0       | -2.2        |
| 12:27:08           | 581.3        | 0.6          | 0.2           | 68.1      | 175.6       | -2.2        |
| 12:28:08           | 665.9        | -0.0         | 0.2           | 68.1      | 171.7       | -2.2        |
| 12:29:08           | 580.1        | 4.5          | 0.2           | 68.2      | 170.5       | -2.2        |
| 12:30:08           | 475.9        | 4.5          | 0.2           | 68.1      | 169.9       | -2.2        |
| 12:31:08           | 393.4        | 4.5          | 0.2           | 68.1      | 169.9       | -2.7        |
| 12:32:08           | 403.7        | 4.7          | 0.2           | 68.1      | 169.9       | -2.2        |
| 12:33:08           | 345.3        | 5.0          | 0.2           | 68.1      | 169.9       | -2.7        |
| 12:34:08           | 295.8        | 5.2          | 0.2           | 68.1      | 169.9       | -2.2        |
| 12:35:08           | 262.0        | 5.1          | 0.2           | 68.1      | 169.9       | -2.7        |
| 12:36:08           | 245.2        | 5.1          | 0.2           | 68.2      | 169.9       | -2.2        |
| 12:37:08           | 220.6        | 5.1          | 0.2           | 68.2      | 169.9       | -2.7        |
| 12:38:08           | 214.0        | 5.1          | 0.2           | 68.2      | 169.9       | -2.3        |
| 12:39:08           | 174.9        | 5.1          | 0.2           | 68.2      | 169.9       | -2.7        |
| 12:40:08           | 180.4        | 5.1          | 0.2           | 68.2      | 169.9       | -2.3        |
| 12:41:08           | 152.2        | 5.2          | 0.2           | 68.2      | 169.9       | -2.7        |
| 12:42:08           | 142.0        | 5.1          | 0.2           | 68.2      | 169.9       | -2.2        |
| 12:43:08           | 141.0        | 5.0          | 0.2           | 68.2      | 169.9       | -2.7        |
| 12:44:08           | 132.1        | 5.0          | 0.2           | 68.2      | 169.9       | -2.3        |
| 12:45:08           | 130.1        | 4.9          | 0.2           | 68.3      | 169.9       | -2.7        |
| 12:46:08           | 119.5        | 4.9          | 0.2           | 68.3      | 169.9       | -2.3        |
| 12:47:08           | 120.9        | 5.0          | 0.2           | 68.4      | 169.9       | -2.7        |
| 12:48:08           | 116.0        | 4.9          | 0.2           | 68.4      | 169.9       | -2.2        |
| 12:49:08           | 115.8        | 4.8          | 0.2           | 68.4      | 169.9       | -2.7        |
| 12:50:08           | 109.3        | 4.8          | 0.2           | 68.4      | 169.9       | -2.2        |
| 12:51:08           | 101.0        | 4.7          | 0.2           | 68.4      | 169.9       | -2.2        |
| 12:52:08           | 105.5        | 4.7          | 0.2           | 68.4      | 169.9       | -2.3        |
| 12:53:08           | 99.3         | 4.6          | 0.2           | 68.4      | 169.9       | -2.7        |
| 12:54:08           | 105.7        | 4.5          | 0.2           | 68.5      | 169.9       | -2.3        |
| 12:55:08           | 101.5        | 4.5          | 0.2           | 68.5      | 169.9       | -2.7        |
| 12:56:08           | 103.4        | 4.5          | 0.2           | 68.5      | 169.9       | -2.2        |
| 12:57:08           | 103.0        | 4.5          | 0.2           | 68.5      | 169.9       | -2.7        |
| 12:58:08           | 104.2        | 4.5          | 0.2           | 68.4      | 169.9       | -2.2        |
| 12:59:08           | 103.3        | 4.5          | 0.2           | 68.4      | 169.9       | -2.7        |
| 13:00:08           | 97.5         | 4.5          | 0.2           | 68.5      | 169.9       | -2.2        |
| 13:01:08           | 97.1         | 4.3          | 0.2           | 68.5      | 169.9       | -2.7        |
| 13:02:08           | 98.3         | 4.3          | 0.2           | 68.4      | 169.9       | -2.3        |
| 13:03:08           | 99.2         | 4.3          | 0.2           | 68.4      | 169.9       | -2.7        |
| 13:04:08           | 99.2         | 4.2          | 0.2           | 68.5      | 169.9       | -2.3        |
| 13:05:08           | 101.3        | 4.2          | 0.2           | 68.5      | 169.9       | -2.7        |
| 13:06:08           | 99.9         | 4.1          | 0.2           | 68.5      | 169.9       | -2.2        |
| 13:07:08           | 99.6         | 4.1          | 0.2           | 68.6      | 169.9       | -2.2        |
| 13:08:08           | 100.7        | 4.2          | 0.2           | 68.6      | 169.9       | -2.2        |
| 13:09:08           | 99.3         | 4.1          | 0.2           | 68.6      | 169.9       | -2.7        |
| 13:10:08           | 98.2         | 4.0          | 0.2           | 68.6      | 169.9       | -2.2        |
| 13:11:08           | 99.5         | 3.9          | 0.2           | 68.6      | 169.9       | -2.7        |
| 13:12:08           | 98.4         | 3.9          | 0.2           | 68.6      | 169.9       | -2.3        |
| 13:13:08           | 96.4         | 3.8          | 0.2           | 68.6      | 169.9       | -2.7        |
| 13:14:08           | 90.4         | 3.9          | 0.2           | 68.6      | 169.9       | -2.3        |

Test #: 0418-01

| 04-18-1997<br>Time | THC o<br>oob | THC i<br>oob | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 13:15:08           | 84.6         | 3.9          | 0.2           | 68.6      | 169.8       | -2.7        |
| 13:16:08           | 74.0         | 3.8          | 0.2           | 68.6      | 169.9       | -2.3        |
| 13:17:08           | 93.1         | 3.7          | 0.2           | 68.6      | 169.9       | -2.5        |
| 13:18:08           | 90.0         | 3.9          | 0.2           | 68.6      | 169.8       | -2.3        |
| 13:19:08           | 90.0         | 4.2          | 0.2           | 68.7      | 169.8       | -2.3        |
| 13:20:08           | 86.6         | 4.1          | 0.2           | 68.7      | 169.8       | -2.3        |
| 13:21:08           | 85.8         | 4.1          | 0.2           | 68.7      | 169.8       | -2.3        |
| 13:22:08           | 82.7         | 4.1          | 0.2           | 68.7      | 169.8       | -2.3        |
| 13:23:08           | 80.9         | 4.0          | 0.2           | 68.8      | 169.8       | -2.3        |
| 13:24:08           | 79.2         | 4.0          | 0.2           | 68.8      | 169.8       | -2.3        |
| 13:25:08           | 75.1         | 4.0          | 0.2           | 68.8      | 169.8       | -2.3        |
| 13:26:08           | 72.1         | 4.0          | 0.2           | 68.8      | 169.8       | -2.3        |
| 13:27:08           | 70.7         | 3.9          | 0.2           | 68.8      | 169.8       | -2.3        |
| 13:28:08           | 67.9         | 3.9          | 0.2           | 68.8      | 169.8       | -2.2        |
| 13:29:08           | 67.2         | 3.9          | 0.2           | 68.9      | 169.8       | -2.7        |
| 13:30:08           | 64.9         | 3.9          | 0.2           | 68.8      | 169.8       | -2.2        |
| 13:31:08           | 61.7         | 3.8          | 0.1           | 68.8      | 169.8       | -1.7        |
| 13:32:08           | 59.5         | 3.8          | 0.2           | 68.8      | 169.8       | -2.3        |
| 13:33:08           | 56.9         | 3.7          | 0.2           | 68.8      | 169.8       | -2.3        |
| 13:34:08           | 56.5         | 3.7          | 0.2           | 68.9      | 169.8       | -2.3        |
| 13:35:08           | 53.0         | 3.7          | 0.2           | 68.9      | 169.8       | -2.7        |
| 13:36:08           | 51.9         | 3.7          | 0.2           | 69.0      | 169.8       | -2.3        |
| 13:37:08           | 50.7         | 3.7          | 0.2           | 69.0      | 169.8       | -2.3        |
| 13:38:08           | 49.9         | 3.6          | 0.2           | 69.0      | 169.8       | -2.3        |
| 13:39:08           | 47.3         | 3.6          | 0.2           | 69.1      | 169.8       | -2.3        |
| 13:40:08           | 45.6         | 3.7          | 0.2           | 69.1      | 169.8       | -2.3        |
| 13:41:08           | 44.9         | 3.6          | 0.2           | 69.1      | 169.8       | -2.3        |
| 13:42:08           | 44.2         | 3.5          | 0.2           | 69.1      | 169.8       | -2.3        |
| 13:43:08           | 42.3         | 3.6          | 0.2           | 69.2      | 169.8       | -2.3        |
| 13:44:08           | 40.8         | 3.5          | 0.2           | 69.2      | 169.8       | -2.3        |
| 13:45:08           | 40.3         | 3.5          | 0.2           | 69.3      | 169.8       | -2.3        |
| 13:46:08           | 39.1         | 3.5          | 0.2           | 69.2      | 169.8       | -2.3        |
| 13:47:08           | 37.5         | 3.5          | 0.2           | 69.2      | 169.8       | -2.3        |
| 13:48:08           | 35.7         | 3.5          | 0.2           | 69.2      | 169.8       | -2.3        |
| 13:49:08           | 35.1         | 3.5          | 0.2           | 69.3      | 169.8       | -2.3        |
| 13:50:08           | 36.8         | 3.4          | 0.2           | 69.3      | 169.8       | -2.3        |
| 13:51:08           | 36.8         | 3.4          | 0.2           | 69.3      | 169.8       | -2.3        |
| 13:52:08           | 34.8         | 3.4          | 0.2           | 69.3      | 169.8       | -2.3        |
| 13:53:08           | 33.7         | 3.4          | 0.2           | 69.3      | 169.8       | -2.3        |
| 13:54:08           | 33.5         | 3.5          | 0.2           | 69.4      | 169.8       | -2.3        |
| 13:55:08           | 32.7         | 3.5          | 0.2           | 69.3      | 169.8       | -2.3        |
| 13:56:08           | 31.9         | 3.6          | 0.2           | 69.4      | 169.8       | -2.3        |
| 13:57:08           | 31.5         | 3.6          | 0.2           | 69.4      | 169.8       | -2.3        |
| 13:58:08           | 31.3         | 3.8          | 0.2           | 69.4      | 169.8       | -2.3        |
| 13:59:08           | 30.9         | 3.8          | 0.2           | 69.5      | 169.8       | -2.3        |
| 14:00:08           | 30.4         | 3.9          | 0.2           | 69.5      | 169.8       | -2.3        |
| 14:01:08           | 30.3         | 4.0          | 0.2           | 69.5      | 169.8       | -2.3        |
| 14:02:08           | 29.7         | 4.1          | 0.2           | 69.5      | 169.8       | -2.3        |
| 14:03:08           | 29.3         | 4.3          | 0.2           | 69.4      | 169.8       | -2.3        |
| 14:04:08           | 29.7         | 4.4          | 0.2           | 69.5      | 169.8       | -2.3        |
| 14:05:08           | 29.2         | 4.6          | 0.2           | 69.5      | 169.8       | -2.3        |
| 14:06:08           | 28.8         | 4.7          | 0.2           | 69.5      | 169.8       | -2.3        |
| 14:07:08           | 28.1         | 4.9          | 0.2           | 69.5      | 169.8       | -2.3        |
| 14:08:08           | 28.2         | 4.9          | 0.2           | 69.4      | 169.8       | -2.3        |
| 14:09:08           | 27.1         | 5.0          | 0.2           | 69.3      | 169.8       | -2.3        |
| 14:10:08           | 27.3         | 5.1          | 0.2           | 69.3      | 169.8       | -2.3        |

Test #: 0418-01

| 04-18-1997<br>Time | THC o<br>oom | THC i<br>oom | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 14:11:08           | 27.9         | 5.2          | 0.2           | 69.4      | 169.8       | -2.7        |
| 14:12:08           | 26.5         | 5.3          | 0.2           | 69.4      | 169.8       | -2.3        |
| 14:13:08           | 26.5         | 5.4          | 0.2           | 69.4      | 169.8       | -2.7        |
| 14:14:08           | 26.5         | 5.4          | 0.2           | 69.5      | 169.8       | -2.3        |
| 14:15:08           | 26.5         | 5.4          | 0.2           | 69.5      | 169.8       | -2.7        |
| 14:16:08           | 26.5         | 5.5          | 0.2           | 69.5      | 169.8       | -2.3        |
| 14:17:08           | 26.0         | 5.5          | 0.2           | 69.5      | 169.7       | -2.7        |
| 14:18:08           | 25.2         | 5.5          | 0.2           | 69.5      | 169.8       | -2.3        |
| 14:19:08           | 24.7         | 5.6          | 0.2           | 69.5      | 169.6       | -2.7        |
| 14:20:08           | 24.7         | 5.7          | 0.2           | 69.5      | 169.7       | -2.3        |
| 14:21:08           | 24.7         | 5.7          | 0.2           | 69.5      | 169.8       | -2.7        |
| 14:22:08           | 24.7         | 5.6          | 0.2           | 69.5      | 169.7       | -2.3        |
| 14:23:08           | 24.0         | 5.7          | 0.2           | 69.6      | 169.7       | -2.7        |
| 14:24:08           | 23.6         | 5.7          | 0.2           | 69.5      | 169.7       | -2.3        |
| 14:25:08           | 23.1         | 5.4          | 0.2           | 69.0      | 169.7       | -2.7        |
| 14:26:08           | 21.6         | 4.9          | 0.2           | 68.3      | 169.8       | -2.3        |
| 14:27:08           | 21.3         | 4.5          | 0.2           | 67.8      | 169.8       | -2.7        |
| 14:28:08           | 20.9         | 4.2          | 0.2           | 67.4      | 169.8       | -2.3        |
| 14:29:08           | 19.5         | 3.9          | 0.2           | 67.1      | 169.8       | -2.7        |
| 14:30:08           | 19.7         | 3.6          | 0.2           | 66.9      | 169.8       | -2.3        |
| 14:31:08           | 19.4         | 3.5          | 0.2           | 66.6      | 169.8       | -2.7        |
| 14:32:08           | 19.1         | 3.2          | 0.2           | 66.4      | 169.8       | -2.3        |
| 14:33:08           | 17.7         | 3.0          | 0.2           | 66.2      | 169.8       | -2.7        |
| 14:34:08           | 18.2         | 2.9          | 0.2           | 66.2      | 169.8       | -2.3        |
| 14:35:08           | 17.7         | 2.7          | 0.2           | 66.1      | 169.8       | -2.7        |
| 14:36:08           | 17.7         | 2.6          | 0.2           | 66.0      | 169.8       | -2.3        |
| 14:37:08           | 17.2         | 2.5          | 0.2           | 66.0      | 169.8       | -2.7        |
| 14:38:08           | 15.8         | 2.3          | 0.2           | 65.9      | 169.8       | -2.3        |
| 14:39:08           | 16.0         | 2.3          | 0.2           | 65.8      | 169.8       | -2.7        |
| 14:40:08           | 16.2         | 2.2          | 0.2           | 65.8      | 169.8       | -2.3        |
| 14:41:08           | 16.0         | 2.1          | 0.2           | 65.8      | 169.8       | -2.7        |
| 14:42:08           | 16.0         | 2.1          | 0.2           | 65.7      | 169.8       | -2.3        |
| 14:43:08           | 16.0         | 2.0          | 0.2           | 65.7      | 169.8       | -2.7        |
| 14:44:08           | 15.8         | 2.0          | 0.2           | 65.9      | 169.8       | -2.3        |
| 14:45:08           | 16.0         | 2.1          | 0.2           | 66.2      | 169.8       | -2.7        |
| 14:46:08           | 15.1         | 2.2          | 0.2           | 66.5      | 169.8       | -2.3        |
| 14:47:08           | 14.8         | 2.2          | 0.2           | 66.8      | 169.8       | -2.7        |
| 14:48:08           | 14.2         | 2.2          | 0.2           | 66.9      | 169.8       | -2.3        |
| 14:49:08           | 14.2         | 2.4          | 0.2           | 67.1      | 169.8       | -2.7        |
| 14:50:08           | 14.2         | 2.5          | 0.2           | 67.3      | 169.8       | -2.3        |
| 14:51:08           | 14.2         | 2.5          | 0.2           | 67.4      | 169.8       | -2.7        |
| 14:52:08           | 14.2         | 2.6          | 0.2           | 67.5      | 169.8       | -2.3        |
| 14:53:08           | 14.1         | 2.7          | 0.2           | 67.6      | 169.8       | -2.7        |
| 14:54:08           | 14.1         | 2.7          | 0.2           | 67.7      | 169.8       | -2.3        |
| 14:55:08           | 12.9         | 2.7          | 0.2           | 67.7      | 169.8       | -2.7        |
| 14:56:08           | 14.1         | 2.9          | 0.2           | 67.8      | 169.8       | -2.3        |
| 14:57:08           | 13.9         | 2.9          | 0.2           | 67.9      | 169.7       | -2.7        |
| 14:58:08           | 13.7         | 2.8          | 0.2           | 68.0      | 169.8       | -2.3        |
| 14:59:08           | 13.4         | 2.8          | 0.2           | 68.0      | 169.7       | -2.7        |
| 15:00:08           | 13.3         | 3.0          | 0.2           | 68.1      | 169.7       | -2.3        |
| 15:01:08           | 12.7         | 3.0          | 0.2           | 68.1      | 169.7       | -2.7        |
| 15:02:08           | 13.6         | 3.0          | 0.2           | 68.2      | 169.7       | -2.3        |
| 15:03:08           | 13.2         | 3.1          | 0.2           | 68.1      | 169.7       | -2.7        |
| 15:04:08           | 12.6         | 3.1          | 0.2           | 68.2      | 169.7       | -2.3        |
| Avg =              | 185.0        | 3.6          | 0.2           | 66.0      | 265.3       | -2.2        |

RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-18-1997 Current Time = 15:09:04  
 File Name = c:\cemdata\041897.PRN Calibration File: c:\cemdata\0418a.CAL

Test #: Post-1 out 0 in 15

| 04-18-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 15:09:11           | 0.0          | 15.0         | 0.2           | 68.2      | 169.8       | -2.2        |
| 15:09:13           | 0.0          | 15.0         | 0.2           | 68.2      | 169.8       | -2.2        |
| 15:09:18           | 0.0          | 15.0         | 0.2           | 68.1      | 169.7       | -2.2        |
| 15:09:28           | -0.0         | 15.0         | 0.2           | 68.1      | 169.7       | -2.2        |
| 15:09:38           | 0.0          | 14.9         | 0.2           | 68.1      | 169.7       | -2.2        |
| 15:09:48           | -0.0         | 14.9         | 0.2           | 68.1      | 169.7       | -2.2        |
| 15:09:58           | 0.0          | 14.9         | 0.2           | 68.0      | 169.7       | -2.2        |
| 15:10:08           | 0.0          | 14.9         | 0.2           | 67.9      | 169.7       | -2.3        |
| 15:10:18           | 0.0          | 14.9         | 0.2           | 67.9      | -201.0      | -2.2        |
| 15:10:28           | 0.0          | 14.9         | 0.2           | 67.8      | -401.9      | -2.3        |
| Avg =              | 0.0          | 15.0         | 0.2           | 68.1      | 75.5        | -2.2        |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, VA

Performed for: NMMA

Date Printed = 04-18-1997 Current Time = 15:13:22

File Name = c:\ce\data\041897.PRN Calibration File: c:\ce\data\0418a.CAL

Test #: Post-1 out 297 in 30.4

| 04-18-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 15:13:29           | 294.5        | 30.3         | 0.2           | 67.8      | -362.2      | -2.3        |
| 15:13:31           | 294.5        | 30.3         | 0.2           | 67.8      | -362.2      | -2.3        |
| 15:13:32           | 294.5        | 30.3         | 0.2           | 67.8      | -362.2      | -2.3        |
| 15:13:38           | 294.4        | 30.1         | 0.2           | 65.6      | -363.4      | -2.3        |
| 15:13:48           | 294.4        | 30.1         | 0.2           | 64.8      | -347.3      | -2.3        |
| 15:13:58           | 294.5        | 30.1         | 0.2           | 64.0      | -350.0      | -2.3        |
| 15:14:08           | 294.5        | 30.0         | 0.2           | 63.5      | -351.7      | -2.3        |
| 15:14:18           | 294.5        | 30.0         | 0.2           | 63.6      | -352.7      | -2.3        |
| 15:14:28           | 293.4        | 30.1         | 0.2           | 63.3      | -353.6      | -2.3        |
| 15:14:38           | 294.5        | 30.1         | 0.2           | 63.1      | -354.2      | -2.3        |
| 15:14:48           | 294.2        | 30.1         | 0.2           | 62.9      | -354.8      | -2.3        |
| Avg =              | 294.3        | 30.1         | 0.2           | 64.9      | -355.9      | -2.3        |



## RADIANT CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-18-1997 Current Time = 15:16:56

File Name = c:\ceadata\041897.PRM Calibration File: c:\ceadata\0418a.CAL

Test #: Post-1 out 600 in 0

| 04-18-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 15:17:04           | 599.8        | -0.2         | 0.2           | 61.0      | -646.3      | -2.3        |
| 15:17:05           | 599.8        | -0.2         | 0.2           | 61.0      | -646.3      | -2.3        |
| 15:17:08           | 599.8        | -0.2         | 0.2           | 60.4      | -671.8      | -2.3        |
| 15:17:18           | 599.8        | -0.2         | 0.2           | 60.0      | -547.7      | -2.3        |
| 15:17:28           | 599.8        | -0.2         | 0.2           | 59.8      | -556.1      | -2.3        |
| 15:17:38           | 600.2        | -0.2         | 0.2           | 59.8      | -565.4      | -2.3        |
| 15:17:48           | 599.8        | -0.2         | 0.2           | 59.9      | -570.5      | -2.3        |
| 15:17:58           | 599.7        | -0.2         | 0.2           | 60.1      | -571.4      | -2.3        |
| 15:18:08           | 600.5        | -0.2         | 0.2           | 60.3      | -573.0      | -2.2        |
| 15:18:18           | 599.8        | -0.2         | 0.2           | 60.4      | -573.6      | -2.2        |
| 15:18:28           | 599.8        | -0.3         | 0.2           | 60.5      | -571.8      | -2.2        |
| 15:18:38           | 599.7        | -0.2         | 0.2           | 60.5      | -572.5      | -2.3        |
| 15:18:48           | 599.8        | -0.2         | 0.2           | 60.6      | -573.6      | -2.3        |
| 15:18:58           | 599.8        | -0.2         | 0.2           | 60.6      | -572.5      | -2.2        |
| 15:19:08           | 600.5        | -0.2         | 0.2           | 60.8      | -577.7      | -2.2        |
| 15:19:18           | 600.0        | -0.2         | 0.2           | 61.1      | -576.7      | -2.3        |
| 15:19:28           | 599.9        | -0.2         | 0.2           | 61.5      | -575.2      | -2.3        |
| 15:19:38           | 600.4        | -0.2         | 0.2           | 61.8      | -575.0      | -2.3        |
| 15:19:48           | 601.3        | -0.2         | 0.2           | 62.0      | -573.7      | -2.3        |
| 15:19:58           | 601.6        | -0.2         | 0.2           | 62.2      | -576.4      | -2.3        |
| 15:20:08           | 601.3        | -0.2         | 0.2           | 62.4      | -575.5      | -2.3        |
| Avg =              | 600.1        | -0.2         | 0.2           | 60.8      | -583.0      | -2.3        |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NNMMA

Date Printed = 04-18-1997 Current Time = 15:22:32

File Name = c:\ceadata\041897.PRM Calibration File: c:\ceadata\0418a.CAL

Test #: Post-i out 914

| 04-18-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 15:22:40           | 921.5        | 3.5          | 0.2           | 64.4      | -566.5      | -2.3        |
| 15:22:42           | 921.5        | 3.5          | 0.2           | 64.4      | -566.5      | -2.3        |
| 15:22:48           | 921.4        | 3.5          | 0.2           | 64.7      | -551.1      | -2.3        |
| 15:22:58           | 921.4        | 3.6          | 0.2           | 64.8      | -525.3      | -2.2        |
| 15:23:08           | 921.5        | 3.6          | 0.2           | 64.9      | -528.1      | -2.2        |
| 15:23:18           | 921.5        | 3.6          | 0.2           | 65.0      | -528.6      | -2.3        |
| 15:23:28           | 922.9        | 3.4          | 0.2           | 65.1      | -530.6      | -2.2        |
| 15:23:38           | 923.2        | 4.5          | 0.2           | 65.2      | -545.5      | -2.2        |
| 15:23:48           | 923.3        | 4.8          | 0.2           | 65.3      | -527.4      | -2.2        |
| Avg =              | 922.0        | 3.8          | 0.2           | 64.9      | -541.1      | -2.2        |

RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: **MMMA**  
 Date Printed = 04-18-1997 Current Time = 15:49:00  
 File Name = c:\ceadata\041897.PRN Calibration File: c:\ceadata\0418a.CAL

Test #: 0418-02

| 04-18-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 15:49:48           | 5.3          | 4.4          | 0.2           | 67.6      | 170.7       | -2.3        |
| 15:50:48           | 35.1         | 4.3          | 0.2           | 67.7      | 185.0       | -2.3        |
| 15:51:48           | 190.4        | 4.3          | 0.2           | 67.7      | 172.3       | -2.3        |
| 15:52:48           | 140.4        | 4.3          | 0.2           | 67.8      | 167.1       | -2.3        |
| 15:53:48           | 110.9        | 4.3          | 0.2           | 67.9      | 169.9       | -2.3        |
| 15:54:48           | 112.2        | 4.3          | 0.2           | 67.9      | 166.0       | -2.3        |
| 15:55:48           | 102.5        | 4.2          | 0.2           | 67.9      | 167.4       | -2.3        |
| 15:56:48           | 92.4         | 4.2          | 0.2           | 67.9      | 165.9       | -2.3        |
| 15:57:48           | 85.4         | 4.2          | 0.2           | 68.0      | 163.8       | -2.3        |
| 15:58:48           | 86.2         | 4.2          | 0.2           | 68.0      | 163.6       | -2.3        |
| 15:59:48           | 84.5         | 4.1          | 0.2           | 68.0      | 163.6       | -2.3        |
| 16:00:48           | 75.0         | 4.1          | 0.2           | 68.0      | 163.8       | -2.3        |
| 16:01:48           | 67.3         | 4.1          | 0.2           | 68.0      | 164.0       | -2.3        |
| 16:02:48           | 63.8         | 4.1          | 0.2           | 67.9      | 166.0       | -2.3        |
| 16:03:48           | 54.4         | 4.1          | 0.2           | 67.9      | 164.1       | -2.3        |
| 16:04:48           | 56.7         | 4.1          | 0.2           | 67.9      | 166.0       | -2.3        |
| 16:05:48           | 55.5         | 4.0          | 0.2           | 67.9      | 166.5       | -2.3        |
| 16:06:48           | 48.1         | 4.0          | 0.2           | 67.9      | 165.8       | -2.3        |
| 16:07:48           | 44.3         | 4.0          | 0.2           | 67.8      | 164.3       | -2.3        |
| 16:08:48           | 43.9         | 3.9          | 0.2           | 67.8      | 164.1       | -2.3        |
| 16:09:48           | 40.3         | 3.9          | 0.2           | 67.7      | 164.1       | -2.3        |
| 16:10:48           | 36.9         | 4.0          | 0.2           | 67.7      | 164.1       | -2.3        |
| 16:11:48           | 38.7         | 3.9          | 0.2           | 67.7      | 164.1       | -2.3        |
| 16:12:48           | 36.5         | 3.9          | 0.2           | 67.7      | 164.1       | -2.3        |
| 16:13:48           | 31.9         | 4.0          | 0.2           | 67.7      | 164.1       | -2.3        |
| 16:14:48           | 31.6         | 3.9          | 0.2           | 67.7      | 164.1       | -2.3        |
| 16:15:48           | 28.9         | 3.9          | 0.1           | 67.6      | 164.1       | -2.0        |
| 16:16:48           | 28.2         | 3.9          | 0.2           | 67.7      | 164.0       | -2.3        |
| 16:17:48           | 26.7         | 3.9          | 0.1           | 67.9      | 164.0       | -2.0        |
| 16:18:48           | 28.3         | 3.9          | 0.2           | 67.6      | 164.0       | -2.3        |
| 16:19:48           | 26.4         | 3.8          | 0.2           | 67.6      | 164.0       | -2.3        |
| 16:20:48           | 25.3         | 3.8          | 0.2           | 67.6      | 164.0       | -2.3        |
| 16:21:48           | 23.9         | 3.8          | 0.2           | 67.6      | 164.0       | -2.3        |
| 16:22:48           | 23.7         | 3.8          | 0.2           | 67.6      | 164.0       | -2.3        |
| 16:23:48           | 23.0         | 3.7          | 0.2           | 67.6      | 164.0       | -2.3        |
| 16:24:48           | 22.6         | 3.7          | 0.2           | 67.6      | 164.0       | -2.3        |
| 16:25:48           | 21.6         | 3.7          | 0.2           | 67.6      | 164.0       | -2.3        |
| 16:26:48           | 24.7         | 3.7          | 0.2           | 67.6      | 164.0       | -2.3        |
| 16:27:48           | 23.9         | 3.9          | 0.2           | 67.6      | 164.0       | -2.3        |
| 16:28:48           | 21.4         | 3.8          | 0.2           | 67.6      | 164.0       | -2.3        |

Test #: 0418-02

| 04-18-1997<br>Time | THC o<br>oem | THC i<br>oem | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 16:29:48           | 18.8         | 3.8          | 0.2           | 67.5      | 164.0       | -2.3        |
| 16:30:48           | 18.3         | 3.7          | 0.2           | 67.5      | 164.0       | -2.3        |
| 16:31:48           | 17.5         | 3.7          | 0.2           | 67.5      | 163.9       | -2.3        |
| 16:32:48           | 16.8         | 3.7          | 0.2           | 67.5      | 163.9       | -2.3        |
| 16:33:48           | 18.7         | 3.7          | 0.2           | 67.5      | 163.9       | -2.3        |
| 16:34:48           | 15.9         | 3.7          | 0.2           | 67.5      | 163.9       | -2.3        |
| 16:35:48           | 14.9         | 3.7          | 0.2           | 67.5      | 163.9       | -2.3        |
| 16:36:48           | 15.3         | 3.7          | 0.2           | 67.5      | 163.9       | -2.3        |
| 16:37:48           | 15.5         | 3.7          | 0.2           | 67.4      | 163.9       | -2.3        |
| 16:38:48           | 14.4         | 3.6          | 0.2           | 67.4      | 163.9       | -2.3        |
| 16:39:48           | 14.7         | 3.7          | 0.2           | 67.4      | 163.9       | -2.3        |
| 16:40:48           | 13.9         | 3.6          | 0.2           | 67.4      | 163.9       | -2.3        |
| 16:41:48           | 12.9         | 3.6          | 0.2           | 67.4      | 163.9       | -2.3        |
| 16:42:48           | 12.2         | 3.5          | 0.2           | 67.4      | 163.9       | -2.3        |
| 16:43:48           | 12.2         | 3.5          | 0.2           | 67.4      | 163.9       | -2.3        |
| 16:44:48           | 11.9         | 3.5          | 0.2           | 67.4      | 163.9       | -2.3        |
| 16:45:48           | 10.5         | 3.5          | 0.2           | 67.4      | 163.9       | -2.3        |
| 16:46:48           | 11.3         | 3.4          | 0.2           | 67.4      | 163.9       | -2.3        |
| 16:47:48           | 10.5         | 3.4          | 0.2           | 67.4      | 163.9       | -2.3        |
| 16:48:48           | 10.2         | 3.4          | 0.2           | 67.3      | 163.9       | -2.3        |
| 16:49:48           | 9.7          | 3.4          | 0.2           | 67.3      | 163.9       | -2.3        |
| 16:50:48           | 9.3          | 3.3          | 0.2           | 67.3      | 163.9       | -2.3        |
| 16:51:48           | 9.3          | 3.3          | 0.2           | 67.3      | 163.9       | -2.3        |
| 16:52:48           | 9.2          | 3.3          | 0.2           | 67.3      | 163.9       | -2.3        |
| 16:53:48           | 8.8          | 3.3          | 0.2           | 67.3      | 163.9       | -2.3        |
| 16:54:48           | 8.7          | 3.4          | 0.2           | 67.3      | 163.9       | -2.3        |
| 16:55:48           | 8.2          | 3.4          | 0.2           | 67.3      | 163.9       | -2.3        |
| 16:56:48           | 7.2          | 3.2          | 0.2           | 67.2      | 163.9       | -2.3        |
| 16:57:48           | 7.1          | 3.2          | 0.2           | 67.1      | 163.9       | -2.4        |
| 16:58:48           | 7.6          | 3.2          | 0.2           | 67.1      | 163.9       | -2.5        |
| 16:59:48           | 7.1          | 3.1          | 0.2           | 67.1      | 163.9       | -2.5        |
| 17:00:48           | 7.0          | 3.2          | 0.2           | 67.1      | 163.9       | -2.5        |
| 17:01:48           | 7.1          | 3.2          | 0.2           | 67.1      | 163.9       | -2.5        |
| 17:02:48           | 7.1          | 3.2          | 0.2           | 67.2      | 163.8       | -2.5        |
| 17:03:48           | 6.5          | 3.2          | 0.2           | 67.2      | 163.8       | -2.5        |
| 17:04:48           | 6.3          | 3.2          | 0.2           | 67.2      | 163.8       | -2.5        |
| Avg =              | 34.0         | 3.7          | 0.2           | 67.6      | 164.7       | -2.3        |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-18-1997 Current Time = 17:07:24

File Name = c:\ce\data\041897.PRW Calibration File: c:\ce\data\0418a.CAL

Test #: Post-2 out 914 in 0

| 04-18-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 17:07:27           | 928.4        | -0.0         | 0.2           | 67.1      | 163.9       | -2.5        |
| 17:07:28           | 928.4        | -0.0         | 0.2           | 67.1      | 163.9       | -2.5        |
| 17:07:38           | 927.9        | -0.1         | 0.2           | 67.2      | 163.8       | -2.5        |
| 17:07:48           | 926.3        | -0.1         | 0.2           | 67.1      | 163.8       | -2.5        |
| 17:07:58           | 926.8        | -0.1         | 0.1           | 67.2      | 163.8       | -1.0        |
| 17:08:08           | 927.2        | -0.2         | -0.0          | 67.3      | 163.8       | 0.0         |
| 17:08:18           | 926.9        | -0.2         | -0.0          | 67.2      | 163.8       | 0.0         |
| 17:08:28           | 926.9        | -0.2         | -0.0          | 67.1      | 163.8       | 0.0         |
| 17:08:38           | 926.8        | -0.2         | -3.1          | -88.1     | 163.8       | 1.4         |
| 17:08:48           | 926.9        | -0.2         | -6.2          | -240.5    | 163.7       | 2.8         |
| 17:08:58           | 926.8        | -0.2         | -6.2          | -240.5    | 163.8       | 2.6         |
| Avg =              | 927.2        | -0.1         | -1.3          | -2.9      | 163.8       | -0.3        |

## RADIANT CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-18-1997 Current Time = 17:11:44

File Name = c:\ceadata\041897.PRN Calibration File: c:\ceadata\0418a.CAL

Test #: Post-2 out 297 in 30.4

| 04-18-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 17:11:47           | 298.4        | 29.9         | -6.2          | -240.4    | 164.0       | 2.8         |
| 17:11:49           | 298.4        | 29.9         | -6.2          | -240.4    | 164.0       | 2.8         |
| 17:11:58           | 298.3        | 30.0         | -6.2          | -240.4    | 164.0       | 2.8         |
| 17:12:08           | 298.3        | 30.1         | -6.2          | -240.4    | 164.0       | 2.8         |
| 17:12:18           | 298.3        | 30.1         | -6.2          | -240.4    | 164.0       | 2.8         |
| 17:12:28           | 298.3        | 30.2         | -6.2          | -240.4    | 164.0       | 2.8         |
| 17:12:38           | 298.4        | 30.2         | -6.2          | -240.4    | 164.0       | 2.8         |
| 17:12:48           | 298.3        | 30.4         | -6.2          | -240.4    | 164.0       | 2.8         |
| 17:12:58           | 298.4        | 30.4         | -6.2          | -240.4    | 164.0       | 2.8         |
| 17:13:08           | 298.4        | 30.4         | -6.2          | -240.4    | 164.0       | 2.8         |
| 17:13:18           | 298.4        | 30.3         | -6.2          | -240.4    | 164.0       | 2.8         |
| 17:13:28           | 298.4        | 30.2         | -6.2          | -240.4    | 164.0       | 2.8         |
| 17:13:38           | 298.4        | 30.3         | -6.2          | -240.4    | 164.0       | 2.8         |
| 17:13:48           | 298.4        | 30.5         | -6.2          | -240.4    | 164.0       | 2.8         |
| 17:13:58           | 298.4        | 30.4         | -6.2          | -240.4    | 164.0       | 2.8         |
| 17:14:08           | 298.4        | 30.1         | -6.2          | -240.4    | 164.0       | 2.8         |
| Avg =              | 298.4        | 30.2         | -6.2          | -240.4    | 164.0       | 2.8         |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-18-1997 Current Time = 17:16:14

File Name = c:\cemdata\041897.PRN Calibration File:c:\cemdata\0418a.CAL

Test #: Post-2 out 600 in 15.0

| 04-18-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 17:16:17           | 608.7        | 14.5         | -6.2          | -240.5    | 163.7       | 2.8         |
| 17:16:19           | 608.7        | 14.5         | -6.2          | -240.5    | 163.7       | 2.8         |
| 17:16:28           | 607.9        | 14.6         | -6.2          | -240.5    | 163.8       | 2.8         |
| 17:16:38           | 607.8        | 14.8         | -6.2          | -240.5    | 163.8       | 2.8         |
| 17:16:48           | 608.8        | 15.0         | -6.2          | -240.5    | 163.8       | 2.8         |
| 17:16:58           | 607.8        | 15.0         | -6.2          | -240.5    | 163.8       | 2.8         |
| 17:17:08           | 607.0        | 15.0         | -6.2          | -240.5    | 163.8       | 2.8         |
| 17:17:18           | 607.0        | 15.0         | -6.2          | -240.5    | 163.8       | 2.8         |
| 17:17:28           | 607.9        | 14.9         | -6.2          | -240.5    | 163.8       | 2.8         |
| 17:17:38           | 607.2        | 14.9         | -6.2          | -240.5    | 163.7       | 2.8         |
| 17:17:48           | 607.6        | 14.9         | -6.2          | -240.5    | 163.8       | 2.8         |
| 17:17:58           | 608.7        | 15.0         | -6.2          | -240.5    | 163.7       | 2.8         |
| 17:18:08           | 608.8        | 14.9         | -6.2          | -240.5    | 163.8       | 2.8         |
| Avg =              | 608.0        | 14.9         | -6.2          | -240.5    | 163.8       | 2.8         |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-18-1997 Current Time = 17:20:13

File Name = c:\cemdata\041897.PRM Calibration File: c:\cemdata\0418a.CAL

Test #: Post-2 out 0

| 04-18-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|

|          |      |     |      |        |       |     |
|----------|------|-----|------|--------|-------|-----|
| 17:20:17 | -0.0 | 3.0 | -6.2 | -240.5 | 163.8 | 2.8 |
| 17:20:18 | -0.2 | 3.0 | -6.2 | -240.5 | 163.9 | 2.8 |
| 17:20:28 | -0.0 | 3.0 | -6.2 | -240.5 | 163.7 | 2.8 |
| 17:20:46 | -0.0 | 3.0 | -6.2 | -240.5 | 163.7 | 2.8 |
| 17:20:48 | 0.1  | 3.0 | -6.2 | -240.5 | 163.8 | 2.8 |
| 17:20:58 | -0.1 | 3.1 | -6.2 | -240.5 | 163.8 | 2.8 |

|       |      |     |      |        |       |     |
|-------|------|-----|------|--------|-------|-----|
| Avg = | -0.0 | 3.0 | -6.2 | -240.5 | 163.8 | 2.8 |
|-------|------|-----|------|--------|-------|-----|



**April 19, 1997**

**0419-01/NMMA-9-2: 28-ft Hull 42% Styrene Resin Spray Up Lamination**

**Styrene Recovery Check (Towel Test)**

DAILY SPRAY EQUIPMENT CALIBRATION

Date: 4-19-97  
Initial: Larry Dargitz

Spray Gun: \_\_\_\_\_

Resin Flow Calibration (15-second evaluation)

|                | Pre-Test | Post-Test |
|----------------|----------|-----------|
| Run 1 Mass (g) | 759      | 726       |
| Run 2 Mass (g) |          |           |
| Run 3 Mass (g) |          |           |
| Average        |          |           |

Resin:Glass Ratio

|                |      |  |
|----------------|------|--|
| Mass resin (g) | 256  |  |
| Mass glass (g) | 148  |  |
| TOTAL          | 404  |  |
| Percent glass  | 36.6 |  |

| Material     | Drum No. | Gel Time (min) | Catalyst % Vol. | Setting |
|--------------|----------|----------------|-----------------|---------|
| Gelcoat      |          |                |                 |         |
| Resin (skin) | 5        |                |                 |         |
| Resin (lam)  |          |                |                 |         |

Thickness Checks

| Run         | 1 | 2 | 3 | 4 | 5 |
|-------------|---|---|---|---|---|
| 90 mil skin |   |   |   |   |   |
| 60 ROV      |   |   |   |   |   |
| 60 ROV      |   |   |   |   |   |
| 60 ROV      |   |   |   |   |   |
| 60 ROV      |   |   |   |   |   |
|             |   |   |   |   |   |

Hull  
Bottom  
Side and  
Transom

DAILY GAS CHROMATOGRAPHY LOG

Date: 4/19/97

①/2

Initial: DO

Run 0419-01

Test NMMA-9-2 25' haul 42%

AM  
GL

0419-01

| Run No. | Time | Comments                | THC  | MMA Area | Styrene Area      |
|---------|------|-------------------------|------|----------|-------------------|
| 1035    |      | 58.2 4.358              |      |          | 4908355           |
| 1036    |      | 59.2 4.346              |      |          | 4736861           |
| 1037    |      | 204 4.351               |      |          | 18883424          |
| 1038    |      | 204 4.350               |      |          | 19033904          |
| 1039    | 0740 | B'ged TTE Air -1        |      |          | 79164             |
| 1040    | 0750 | 2                       | 244  |          | 8462029           |
| 1041    | 0759 | 3                       | 811  |          | 27238728          |
| 1042    | 0811 | 4                       | 202  |          | 715588            |
| 1043    | 0823 | 5                       | 129  |          | 4569820           |
| 1044    | 0834 | 6                       | 75   |          | 3308221           |
| 1045    | 0845 | 7                       | 745  |          | 24461856          |
| 1046    | 0857 | 8                       | 790  |          | 25658512          |
| 1047    | 0909 | 9                       | 259  |          | 9079418           |
| 1048    | 0920 | 10                      | 1578 | 5372642  | 3982438 → 3982438 |
| 1049    | 0932 | 11                      | 105  | 3892438  | 3902208 → 3902208 |
| 1050    | 0944 | 12                      | 116  |          | 3902208           |
| 1051    | 0956 | 13                      | 540  | 1776080  | 1776080 → 1776080 |
| 1052    | 1007 | 14 not vented, late st. | 750  |          | 27690432          |
| 1053    | 1021 | 15                      | 240  |          | 8271664           |
| 1054    | 1033 | 16                      | 161  |          | 5583706           |
| 1055    | 1044 | 17                      | 105  |          | 3983896           |
| 1056    | 1055 | 18                      | 500  |          | 16651976          |
| 1057    | 1107 | 19                      | 678  |          | 23305888          |
| 1058    | 1118 | 20                      | 300  |          | 10110896          |
| 1059    | 1130 | 21                      | 164  |          | 5010685           |
| 1060    | 1141 | 22                      | 141  |          | 5072877           |
| 1061    | 1153 | 23                      | 88   |          | 3295482           |
| 1062    | 1207 | 24                      | 52   |          | 1826305           |
| 1063    | 1219 | 25                      | 33   |          | 1147214           |
| 1064    | 1232 | 26                      | 26   |          | 865464            |
| 1065    | 1245 | 26.27                   | 20   |          | 697320            |
| 1066    | 1257 | 28                      | 17   |          | 602814            |
| 1067    | 1309 | 29                      | 14   |          | 514712            |
| 1068    | 1324 | 30                      | 12   |          | 430509            |

Radian International LLC  
Stelling Engineering, P.A.  
Air Tech Environmental LLC

Date: 4/18/97  
Initial: DD  
Test NMMA-9-2

202

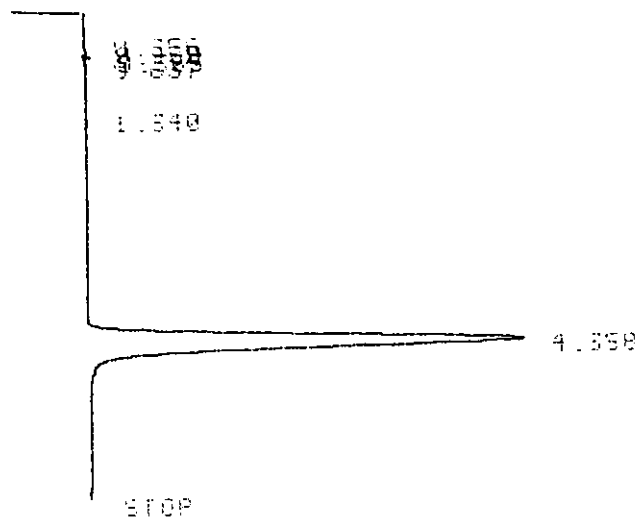
Run 0419-01 cont

Test NMMA-9-2

[illegible]

① TAKEN THROUGH SYSTEM @ Time of post test bias test

RUN # 1035 APR 19, 1997 06:58:54  
START

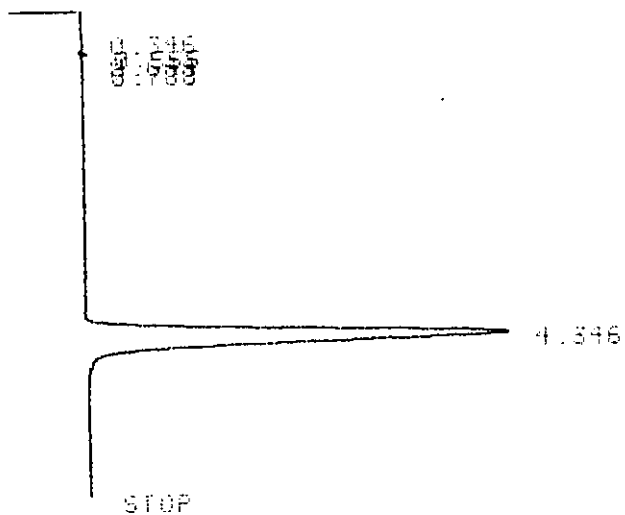


RUN# 1035 APR 19, 1997 06:58:54

| ESTD-AREA | RT    | AREA TYPE | CALC | AMOUNT |
|-----------|-------|-----------|------|--------|
|           | 4.358 | 4908355   | P8   | 2      |
|           |       |           |      | 48.593 |

TOTAL AREA=0362630  
NUL FACTOR=1.0000E+00

\* RUN # 1036 APR 19, 1997 07:07:30  
START

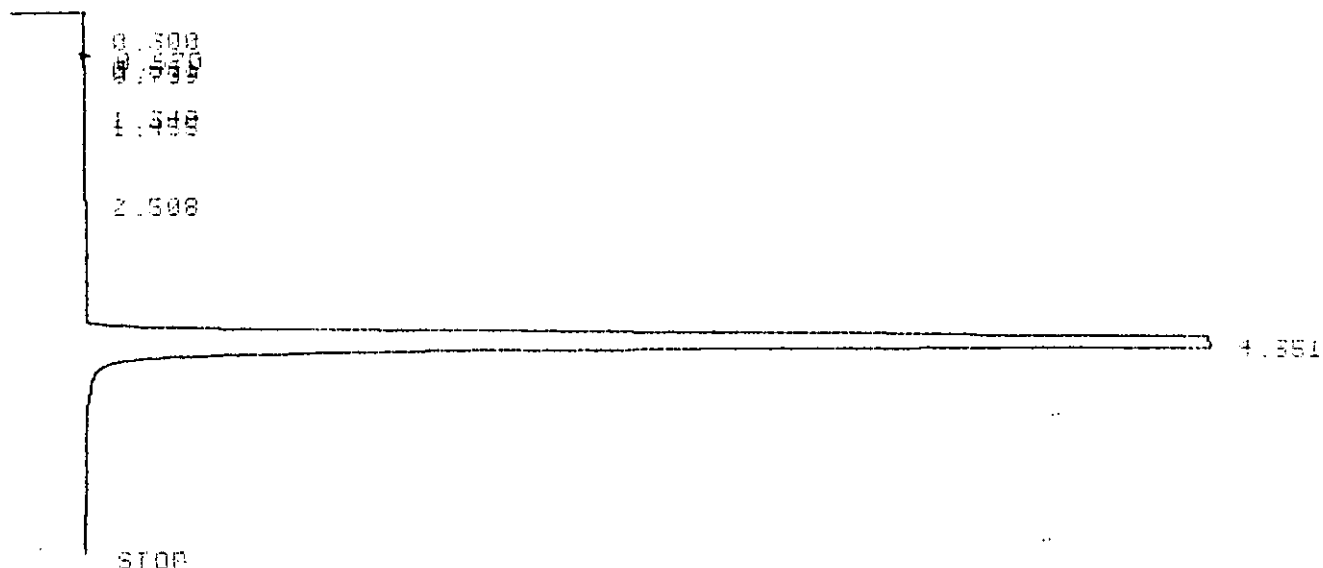


RUN# 1036 APR 19, 1997 07:07:30

| ESTD-AREA | RT | AREA TYPE | CALC | AMOUNT |
|-----------|----|-----------|------|--------|
|           |    |           |      |        |

TOTAL AREA=491.5708  
MUL FACTOR=1.0000E+00

\* RUN # 1037      APR 19, 1997    07:15:49  
START

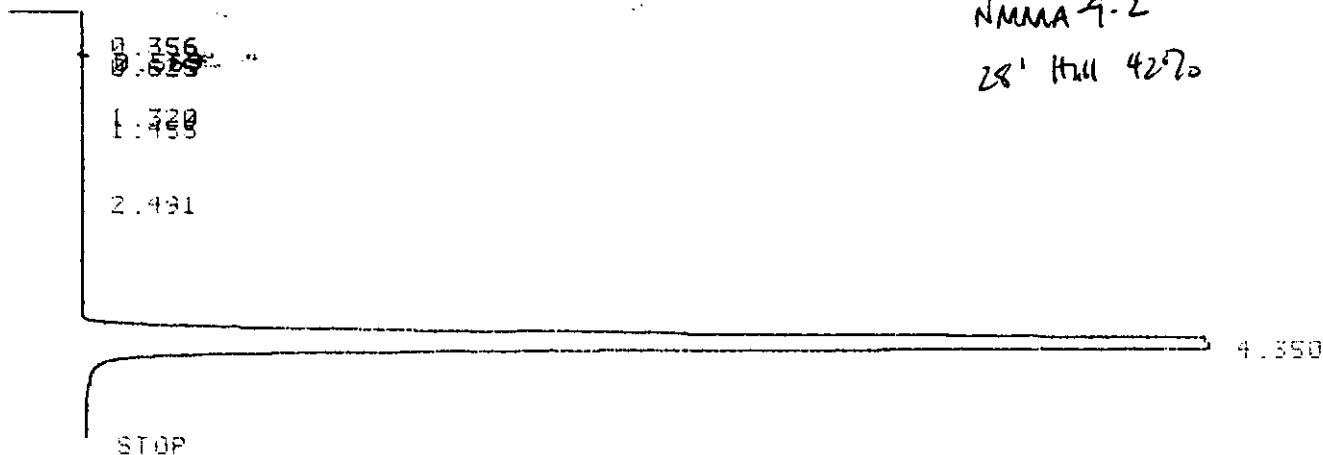


RUN# 1037      APR 19, 1997    07:15:49

ESTD-AREA  
RT      AREA TYPE    CAL#      AMOUNT  
4.351    18883424    PB      2      186.940

TOTAL AREA=1.8904E+07  
MUL FACTOR=1.0000E+00

\* RUN # 1038      APR 19, 1997    07:23:58  
START



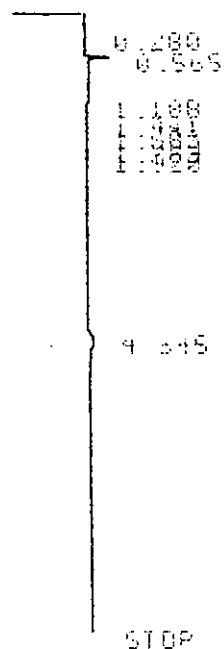
0419-01  
NMMA 9-2  
28' HILL 4270

RUN# 1038      APR 19, 1997    07:23:58

| ESTD-AREA | RT       | AREA | TYPE | CALC    | AMOUNT |
|-----------|----------|------|------|---------|--------|
| + 550     | 19043084 | 88   | 2    | 183.436 |        |

TOTAL AREA=1.9136E+07  
 MUL FACTOR=1.0000E+00

\* RUN # 1039 APR 19, 1997 07:40:28  
 START

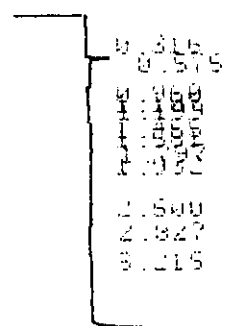


RUN# 1039 APR 19, 1997 07:40:28

| ESTD-AREA | RT    | AREA | TYPE | CALC | AMOUNT |
|-----------|-------|------|------|------|--------|
| 1.789     | 4839  | 88   | 1    | 203  |        |
| 4.345     | 79164 | 88   | 2    | 1784 |        |

TOTAL AREA= 158970  
 MUL FACTOR=1.0000E+00

\* RUN # 1040 APR 19, 1997 07:50:21  
 START



STOP

RUN# 1040 APR 19, 1997 07:58:21

CSTD-AREA

| PT     | AREA    | TYPE | CALC | AMOUNT |
|--------|---------|------|------|--------|
| 1.797  | 42519   | UU   | 1    | 1.786  |
| +1.354 | 8462029 | PB   | 2    | 83.774 |

TOTAL AREA=8.7829E+06  
MUL FACTOR=1.0000E+00

\* RUN # 1041 APR 19, 1997 07:59:09  
START

0.3000  
0.000000  
0.000000  
0.000000  
0.000000  
0.000000  
0.000000

0.0000  
0.0000  
0.0000  
0.0000

+1.355

STOP

RUN# 1041 APR 19, 1997 07:59:09

CSTD-AREA

| RT     | AREA     | TYPE | CALC | AMOUNT  |
|--------|----------|------|------|---------|
| 1.798  | 72027    | UU   | 1    | 3.625   |
| +1.355 | 27239728 | PB   | 2    | 269.673 |

TOTAL AREA=2.7724E+07  
MUL FACTOR=1.0000E+00

\* RUN # 1042 APR 19, 1997 08:11:44  
START

0.258  
0.000000



|   |   |
|---|---|
| 6 | 9 |
| 5 | 8 |
| 4 | 7 |
| 3 | 6 |
| 2 | 5 |
| 1 | 4 |

STOP

RUMI 1042 APR 14, 1997 09:11:44

| RT    | HEUR    | TRAC | CLAS | AMOUNT |
|-------|---------|------|------|--------|
| 1.601 | 50136   | 00   | 1    | 2.196  |
| 4.657 | 1715000 | 10   | 2    | 76.387 |

\* RUN # 1043      APR 19, 1997    08:23:23  
570R1

|       |                                                                                                                                                                            |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2.826 | $\frac{1}{2} \times 100 = 50$<br>$\frac{1}{4} \times 100 = 25$<br>$\frac{1}{8} \times 100 = 12.5$<br>$\frac{1}{16} \times 100 = 6.25$<br>$\frac{1}{32} \times 100 = 3.125$ |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

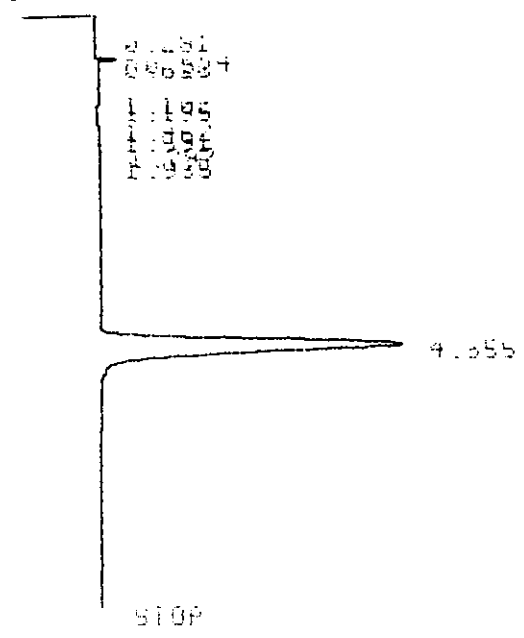
4.355

RUN# 1643 APR 19, 1997 08:23:23

| ST    | AREA    | TYPE | COLOR | FREQUENT |
|-------|---------|------|-------|----------|
| 1.798 | 47747   | UU   | 1     | 2.005    |
| 4.366 | 4569020 | PD   | 2     | 45.242   |

TOTAL AREA=4066496  
MIL \* ALTOR=1.0609E+00

50.127



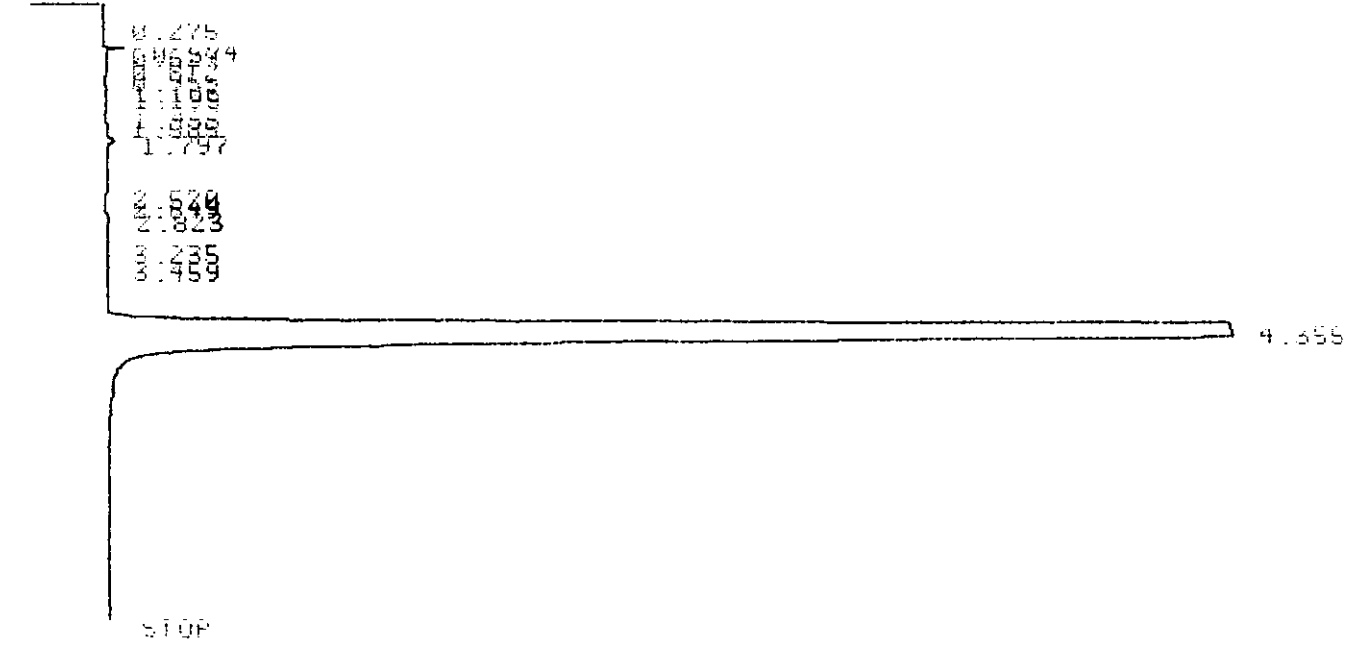
RUN# 1041 APR 14, 1997 08:34:31

ESTD-AREA

| RT    | AREA TYPE | CLAS | AMOUNT |
|-------|-----------|------|--------|
| 1.797 | 36020     | 00   | 1.513  |
| 4.355 | 360221    | 90   | 27.751 |

TOTAL AREA=3576506  
NUL FACTOR=1.0000E+00

\* RUN # 1045 APR 19, 1997 08:45:31  
51721



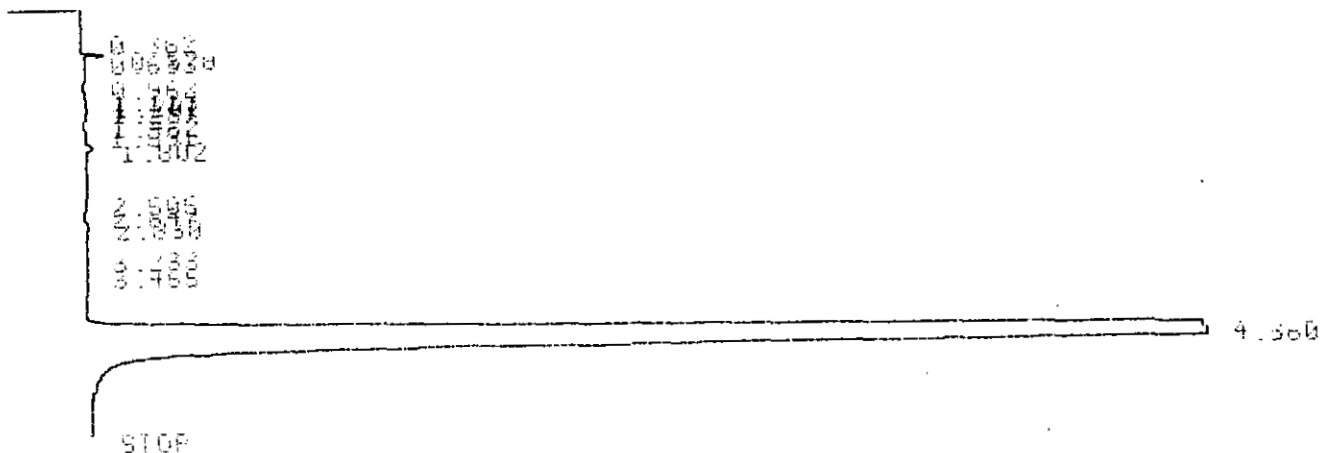
RUN# 1045 APR 19, 1997 08:45:31

DATE: 4/19/97

| RT    | AREA    | TYPE | CHL# | AMOUNT  |
|-------|---------|------|------|---------|
| 1.737 | 70427   | UU   | 1    | 3.031   |
| 4.355 | 2461456 | PB   | 2    | 154.019 |

TOTAL AREA=2.4949E+07  
MUL FACTOR=1.0000E+00

\* RUN # 1046 APR 19, 1997 08:57:18  
START



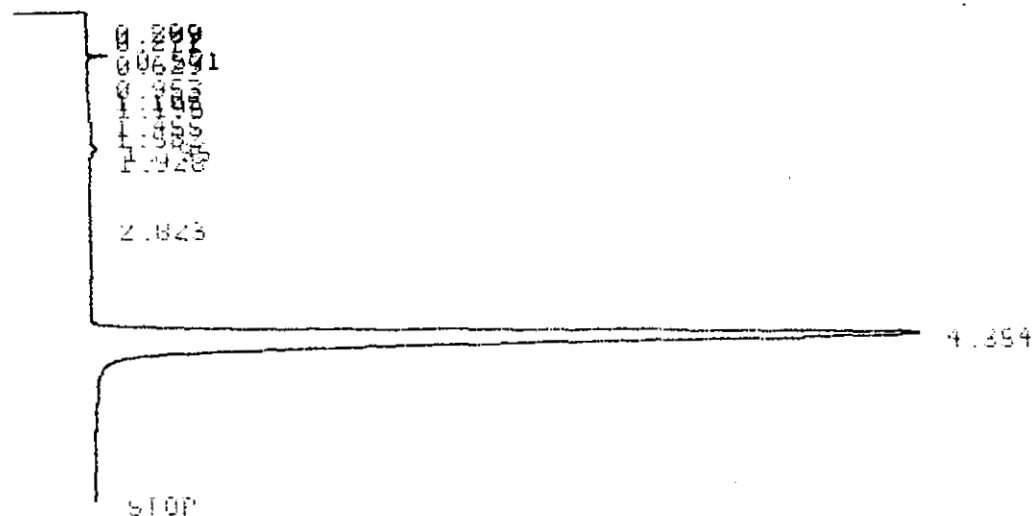
RUN# 1046 APR 19, 1997 08:57:18

EXTD-AREA

| RT    | AREA     | TYPE | CHL# | AMOUNT  |
|-------|----------|------|------|---------|
| 1.002 | 72177    | UU   | 1    | 3.031   |
| 4.360 | 25058512 | PB   | 2    | 154.019 |

TOTAL AREA=2.5149E+07  
MUL FACTOR=1.0000E+00

\* RUN # 1047 APR 19, 1997 09:09:19  
START



RUN# 1047

APR 19, 1997 09:09:14

DATA-AREA

| RT    | AREA    | TYPE | CALC | AMOUNT |
|-------|---------|------|------|--------|
| 1.795 | 62646   | UU   | 1    | 1.631  |
| 4.354 | 9079418 | BB   | 2    | 89.885 |

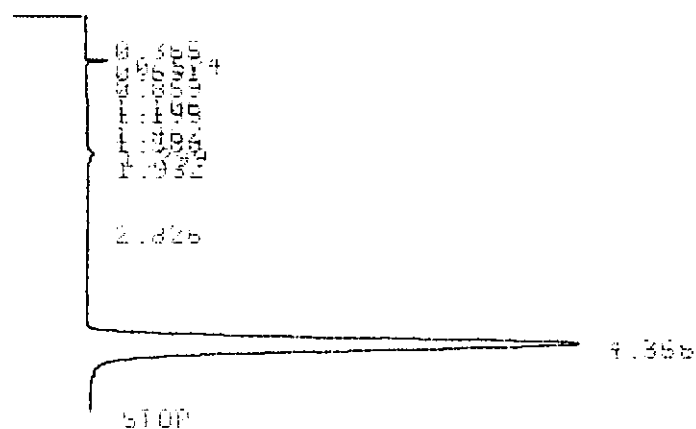
TOTAL AREA=9.4079E+06

MUL FACTOR=1.0000E+00

\* RUN # 1040

APR 19, 1997 09:20:59

START



RUN# 1048

APR 19, 1997 09:20:59

DATA-AREA

| RT    | AREA    | TYPE | CALC | AMOUNT |
|-------|---------|------|------|--------|
| 1.799 | 30758   | UU   | 1    | 1.292  |
| 4.355 | 5377642 | BB   | 2    | 53.239 |

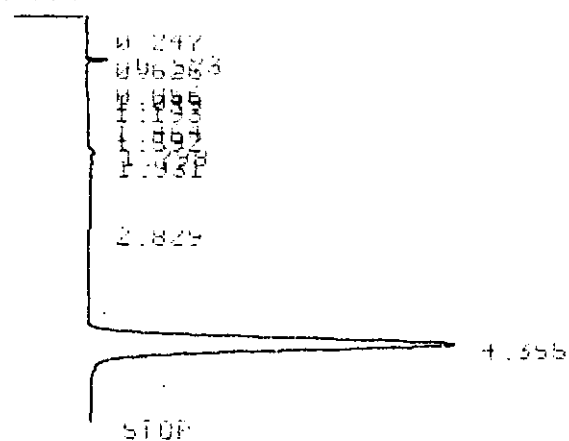
TOTAL AREA=5523741

MUL FACTOR=1.0000E+00

\* RUN # 1049

APR 19, 1997 09:32:21

START



RUN# 1050

APR 19, 1997 09:01:11

ESTD-AREA

| RT    | AREA    | TYPE | CALC | AMOUNT |
|-------|---------|------|------|--------|
| 1.798 | 45721   | UU   | 1    | 1.305  |
| 4.355 | 3992938 | PB   | 2    | 39.550 |

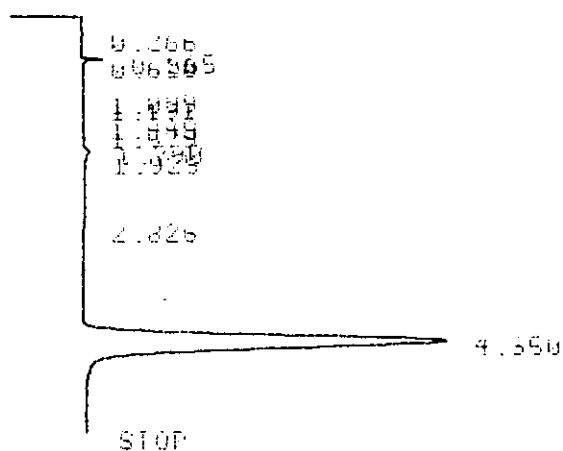
TOTAL AREA=4224051

MUL FACTOR=1.0000E+00

\* RUN # 1050

APR 19, 1997 09:44:53

START



RUN# 1050

APR 19, 1997 09:44:53

ESTD-AREA

| RT    | AREA    | TYPE | CALC | Amount |
|-------|---------|------|------|--------|
| 1.798 | 27961   | UU   | 1    | 1.174  |
| 4.350 | 3962308 | PB   | 2    | 39.424 |

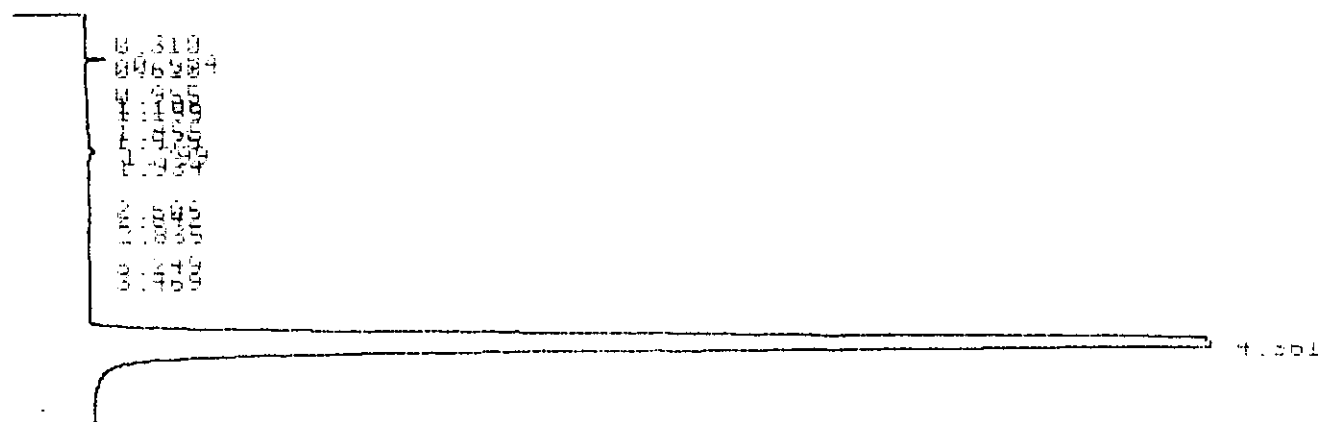
TOTAL AREA=3104810

MUL FACTOR=1.0000E+00

\* RUN # 1051

APR 19, 1997 09:50:10

START



1

Rum 1051 APR 19, 1957 09:56:10

CS10-AREA

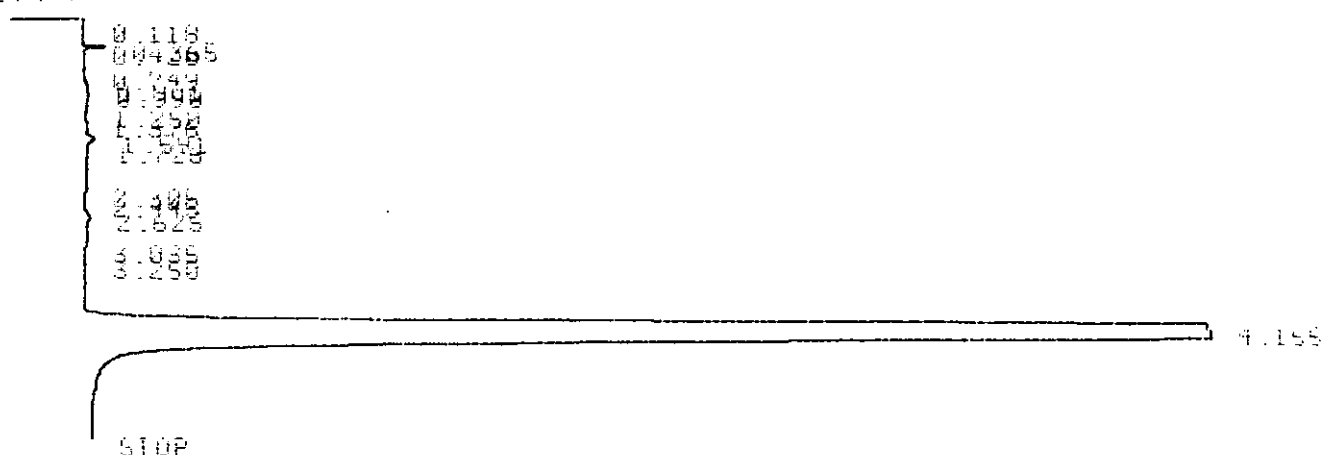
| RT    | RRR#     | TYPE | CALC | AMOUNT  |
|-------|----------|------|------|---------|
| 1.799 | 60269    | UU   | 1    | 1.501   |
| 4.581 | 17776080 | PD   | 2    | 175.901 |

10191 595441-01285-6?

$$M_{\text{OL}} = M_{\text{LIR}} = 1.4659E + 04$$

\* RUN # 1052 APR 19, 1997 10:07:00

53000



RUN# 1052 APR 18, 1997 10:07:00

ESTD-AREA

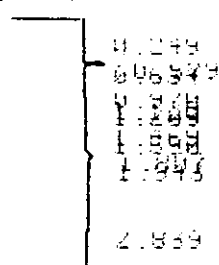
| RT    | AREA     | TYPE | CAL# | AMOUNT  |
|-------|----------|------|------|---------|
| 1.726 | 42646    | OD   | 1    | 1.791   |
| 4.155 | 27690432 | PD   | 2    | 274.135 |

TOTAL AREA=2.8458E+07

NOV 7 1967 1.2400E+00

\* RUN # 1053 RPT 19, 1997 10:21:47

51421



510P

RUN 1055 APR 19, 1950 10:21:47

CCH-BRE A

| RI    | AREA   | TYPE | CHW | HEIGHT |
|-------|--------|------|-----|--------|
| 1.697 | 52436  | UU   | 1   | 2.211  |
| 4.170 | 82716m | ED   | 2   | 81.889 |

$$\begin{aligned} \text{FUEL} &= \text{FUEL} + 0.00972 \times \text{WGT} \\ \text{TIME} &= \text{TIME} + 0.000001 \times \text{WGT} \end{aligned}$$

\* RUN # 1954 APR 19, 1997 10:33:26  
 DATA

|  |  |
|--|--|
|  |  |
|--|--|

2.854

\_\_\_\_\_

STOP

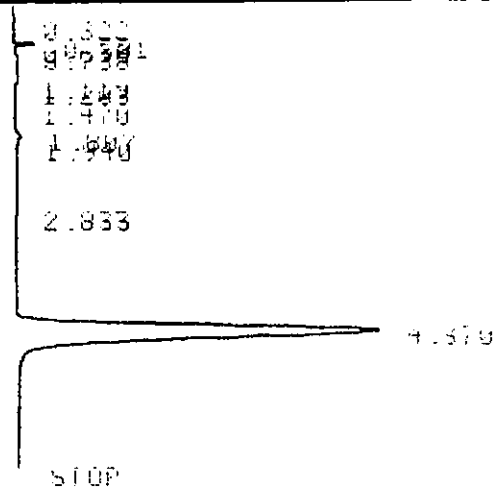
RUN# 1054 APR 19, 1997 10:43:26

ESTU-AREA

| RT    | AREA    | TYPE | CHL | AMOUNT |
|-------|---------|------|-----|--------|
| 1.366 | 54534   | UU   | 1   | 2.296  |
| 4.365 | 3583706 | PE   | 1   | 55.279 |

Final NDCR=5342320  
Final Failure=1.55600E+00

\* 2004 4 1955 APR 19, 1997 10.14:45  
50881

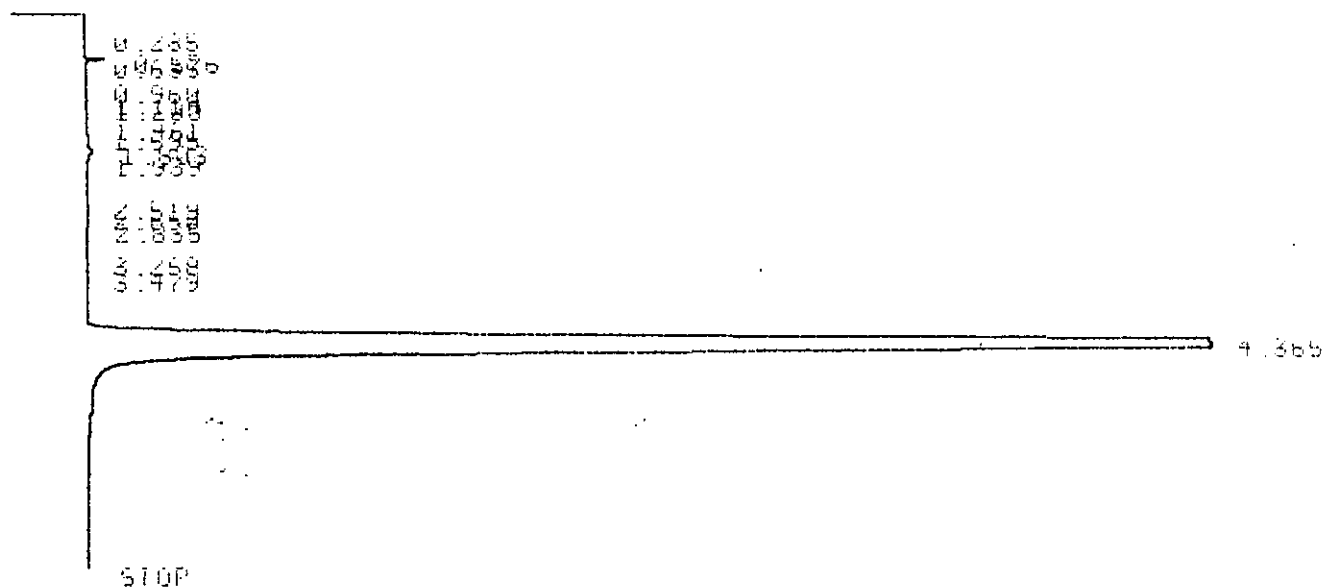


RUN# 1055 APR 19, 1997 10:44:40

| RT    | AREA    | TYPE | ORIG | AMOUNT |
|-------|---------|------|------|--------|
| 1.807 | 25606   | PO   | 1    | 1.075  |
| 4.370 | 3983896 | PO   | 2    | 39.141 |

TOTAL AREA=4151122  
MUL FACTOR=1.0000E+00

\* RUN # 1056 APR 19, 1997 10:55:04  
START



RUN# 1056 APR 19, 1997 10:55:04

| RT    | AREA     | TYPE | ORIG | AMOUNT  |
|-------|----------|------|------|---------|
| 1.645 | 61022    | PO   | 1    | 1.583   |
| 4.365 | 18651976 | PO   | 2    | 184.855 |

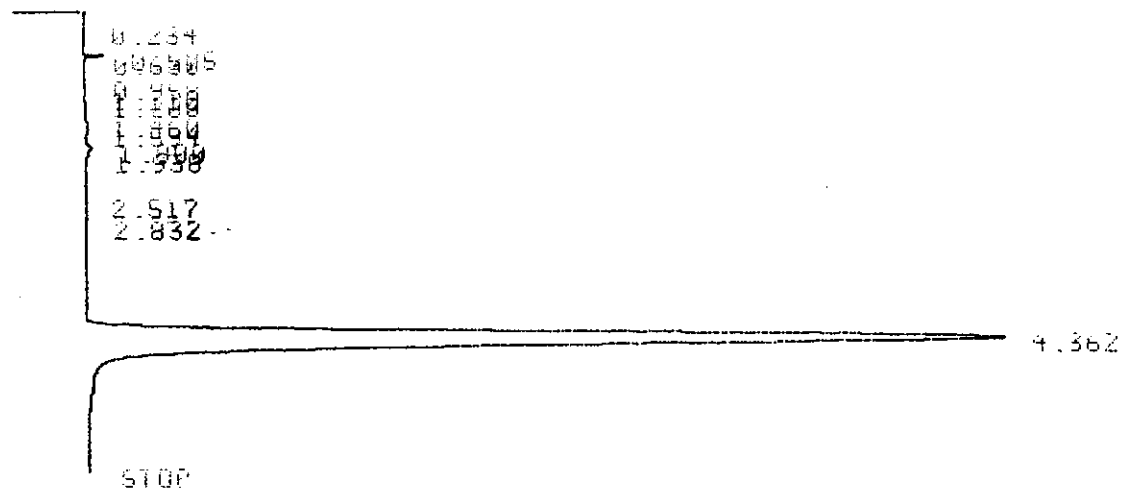
TOTAL AREA=1.7068E+07  
MUL FACTOR=1.0000E+00



STOP

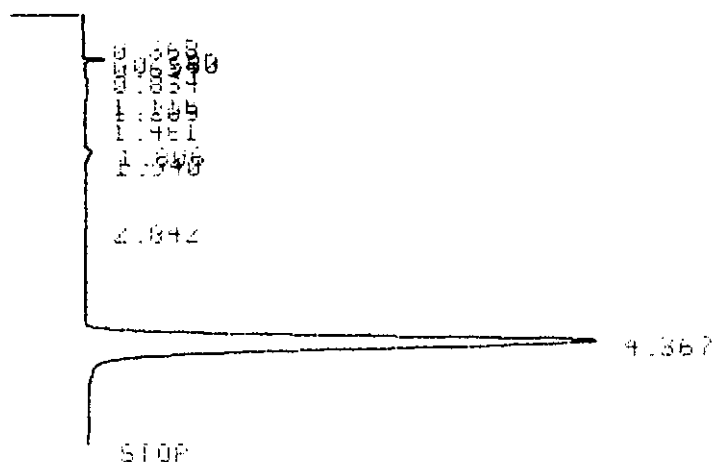
| RT    | AREA     | TYPE | CLAS | AMOUNT  |
|-------|----------|------|------|---------|
| 1.800 | 72588    | UU   | 1    | 3.040   |
| 1.366 | 25305008 | PB   | 2    | 230.718 |

\* RUN # 1058      APR 19, 1997    11:18:19  
51001



| RI    | AREA     | TYPE | CHLOR | AMOUNT  |
|-------|----------|------|-------|---------|
| 1.366 | 66679    | UU   | 1     | 2.549   |
| 1.366 | 10114896 | PB   | 2     | 100.090 |

\* RUN # 1059 APR 19, 1997 11:30:14  
START



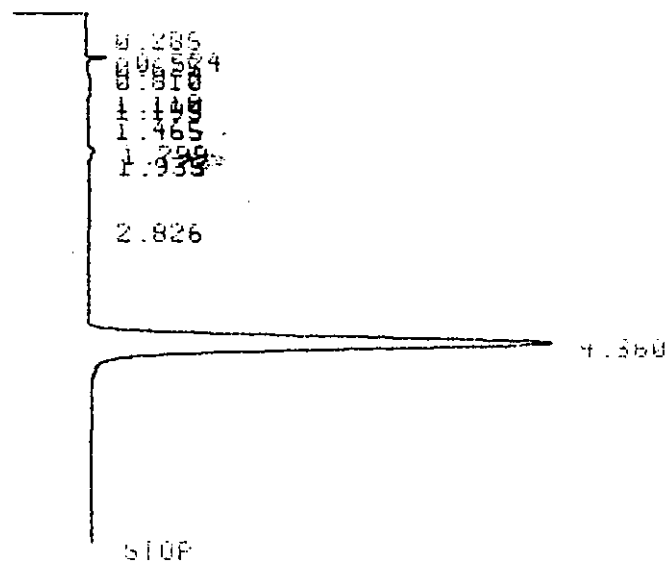
RUN# 1059 APR 19, 1997 11:30:14

END-AREA

| RT    | AREA    | TYPE | CALC | AMOUNT |
|-------|---------|------|------|--------|
| 1.806 | 52314   | UU   | 1    | 2.197  |
| 4.367 | 9610685 | DB   | 2    | 55.545 |

TOTAL AREA=991626  
MUL FACTOR=1.0000E+00

\* RUN # 1060 APR 19, 1997 11:41:13  
START

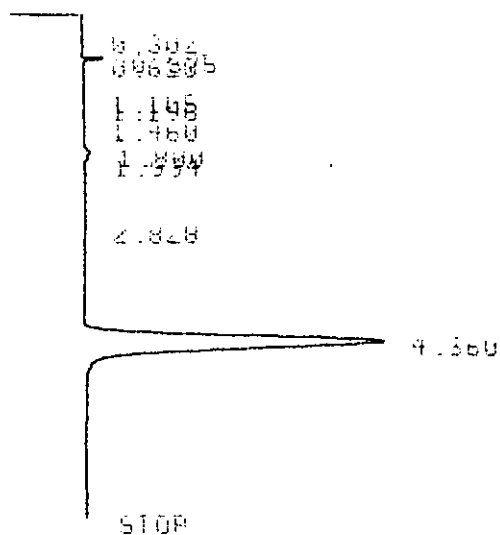


RUN# 1060 APR 19, 1997 11:41:13

| RT    | AREA    | TYPE | CALC | AMOUNT |
|-------|---------|------|------|--------|
| 1.799 | 5917A   | 00   | 1    | 1.799  |
| 4.550 | 5072877 | 88   | 2    | 50.277 |

TOTAL AREA=5281917  
 MUL FACTOR=1.0000E+00

\* RUN # 1061 APR 19, 1997 11:53:50  
 START



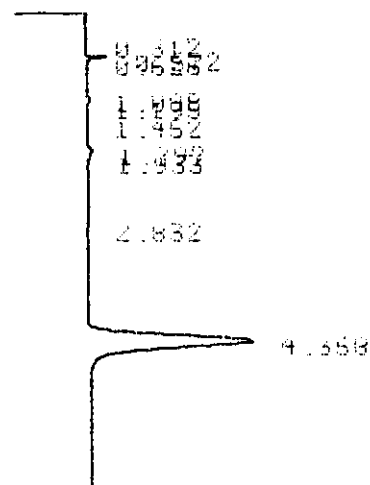
RUN# 1061 APR 19, 1997 11:53:50

ESTD-AREA

| RT    | AREA    | TYPE | CALC | AMOUNT |
|-------|---------|------|------|--------|
| 1.800 | 36753   | 00   | 1    | 1.849  |
| 4.550 | 3295432 | 88   | 2    | 32.825 |

TOTAL AREA=3400950  
 MUL FACTOR=1.0000E+00

\* RUN # 1062 APR 19, 1997 12:07:00  
 START



|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 | 144 | 145 | 146 | 147 | 148 | 149 | 150 | 151 | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 | 160 | 161 | 162 | 163 | 164 | 165 | 166 | 167 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 | 176 | 177 | 178 | 179 | 180 | 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 | 201 | 202 | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 | 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 223 | 224 | 225 | 226 | 227 | 228 | 229 | 230 | 231 | 232 | 233 | 234 | 235 | 236 | 237 | 238 | 239 | 240 | 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 | 256 | 257 | 258 | 259 | 260 | 261 | 262 | 263 | 264 | 265 | 266 | 267 | 268 | 269 | 270 | 271 | 272 | 273 | 274 | 275 | 276 | 277 | 278 | 279 | 280 | 281 | 282 | 283 | 284 | 285 | 286 | 287 | 288 | 289 | 290 | 291 | 292 | 293 | 294 | 295 | 296 | 297 | 298 | 299 | 300 | 301 | 302 | 303 | 304 | 305 | 306 | 307 | 308 | 309 | 310 | 311 | 312 | 313 | 314 | 315 | 316 | 317 | 318 | 319 | 320 | 321 | 322 | 323 | 324 | 325 | 326 | 327 | 328 | 329 | 330 | 331 | 332 | 333 | 334 | 335 | 336 | 337 | 338 | 339 | 340 | 341 | 342 | 343 | 344 | 345 | 346 | 347 | 348 | 349 | 350 | 351 | 352 | 353 | 354 | 355 | 356 | 357 | 358 | 359 | 360 | 361 | 362 | 363 | 364 | 365 | 366 | 367 | 368 | 369 | 370 | 371 | 372 | 373 | 374 | 375 | 376 | 377 | 378 | 379 | 380 | 381 | 382 | 383 | 384 | 385 | 386 | 387 | 388 | 389 | 390 | 391 | 392 | 393 | 394 | 395 | 396 | 397 | 398 | 399 | 400 | 401 | 402 | 403 | 404 | 405 | 406 | 407 | 408 | 409 | 410 | 411 | 412 | 413 | 414 | 415 | 416 | 417 | 418 | 419 | 420 | 421 | 422 | 423 | 424 | 425 | 426 | 427 | 428 | 429 | 430 | 431 | 432 | 433 | 434 | 435 | 436 | 437 | 438 | 439 | 440 | 441 | 442 | 443 | 444 | 445 | 446 | 447 | 448 | 449 | 450 | 451 | 452 | 453 | 454 | 455 | 456 | 457 | 458 | 459 | 460 | 461 | 462 | 463 | 464 | 465 | 466 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

FORM 1062 APR 19, 1997 11:07:00

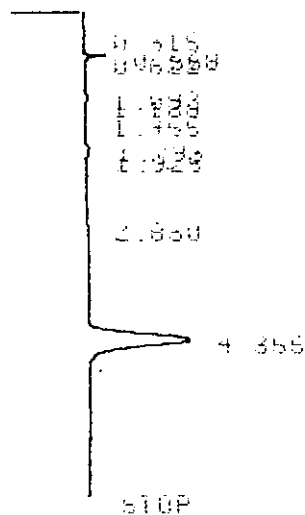
LS10-0803

| ST    | AREA    | TYPE | CHRG | SUBCHRG |
|-------|---------|------|------|---------|
| 1.737 | 44128   | UU   | 1    | 1.655   |
| 1.655 | 1826305 | PD   | 1    | 18.684  |

1014L APRIL-1996337  
 1014L FALL1997-1 000000-00

\* POU 0 1963 APR 19, 1967 12:09:59

5768



RUN# 1063                      APR 19, 1957    12:19:54

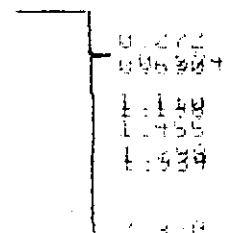
LS10-OPEN

| RT    | AREA    | TYPE | CALC | AMOUNT |
|-------|---------|------|------|--------|
| 1.753 | 17002   | PD   | 1    | 1.714  |
| 4.355 | 1147214 | PB   | 2    | 11.357 |

TOTAL AREA=1288545  
TOTAL FACTOR=1.0000E+00

\* JUN 4 1964 APR 19, 1967 12:32:27

## 5. CONCLUSIONS



4.360  
STOP

RUN# 1064 APR 19, 1997 12:32:27

| RT    | AREA   | TYPE | CALC | AMOUNT |
|-------|--------|------|------|--------|
| 1.758 | 25154  | UU   | 1    | 1.056  |
| 4.360 | 365164 | UU   | 2    | 6.500  |

TOTAL AREA=1040230  
MUL FACTOR=1.0000E+00

\* RUN # 1065 APR 19, 1997 12:45:51  
START

0.300  
006284  
1.253  
1.438  
2.028  
4.360  
STOP

RUN# 1065 APR 19, 1997 12:45:51

| RT    | AREA   | TYPE | CALC | AMOUNT |
|-------|--------|------|------|--------|
| 1.759 | 13043  | PU   | 1    | 540    |
| 4.360 | 697320 | PU   | 2    | 6.903  |

TOTAL AREA= 796801  
MUL FACTOR=1.0000E+00

\* RUN # 1066 APR 19, 1997 12:57:45  
START

0.335  
005303  
1.114

1.178  
1.895

4.368

STOP

RUN# 1956 APR 19, 1997 12:57:45

ESTD-AREA

| RT    | AREA   | TYPE | CHL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.895 | 25500  | 00   | 1    | 1.875  |
| 4.368 | 602814 | 08   | 2    | 5.968  |

TOTAL AREA= 788092

MUL FACTOR=1.0000E+00

\* RUN # 1957 APR 19, 1997 13:09:53  
517821

5.237  
898283  
1.198  
1.485  
1.392

2.816

4.368

STOP \*

RUN# 1957 APR 19, 1997 13:09:53

ESTD-AREA

| RT    | AREA   | TYPE | CHL# | AMOUNT |
|-------|--------|------|------|--------|
| 1.297 | 33301  | 00   | 1    | 1.002  |
| 4.368 | 514721 | 08   | 2    | 5.806  |

TOTAL AREA= 741178

MUL FACTOR=1.0000E+00

START

0.0001  
0.0001  
1.100  
1.000

4.365

STOP

RUN# 1068 APR 19, 1997 13:24:30

ESTD-AREA

| RT    | AREA   | TYPE | CALC | AMOUNT |
|-------|--------|------|------|--------|
| 1.000 | 25501  | UV   | 1    | 1.074  |
| 4.365 | 130507 | PU   | 2    | 4.252  |

TOTAL AREA= 603041  
OIL FACTOR=1.0000E+00

\* RUN# 1069 APR 19, 1997 13:40:07  
START

0.0001  
0.0001  
1.115  
1.000  
2.029

4.361

STOP

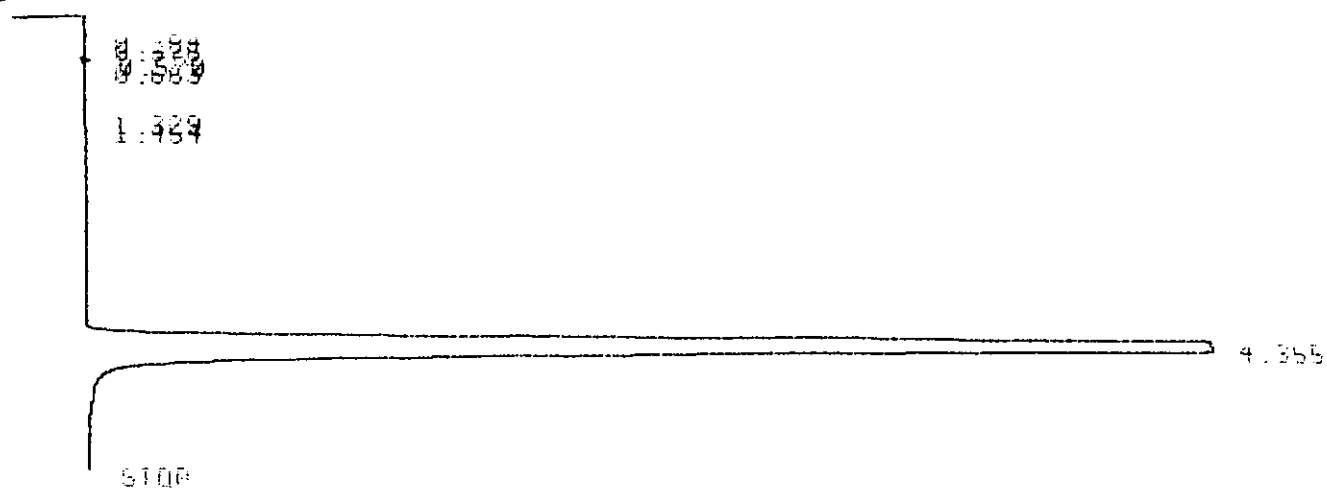
RUN# 1069 APR 19, 1997 13:40:07

ESTD-AREA

| RT    | AREA   | TYPE | CALC | AMOUNT |
|-------|--------|------|------|--------|
| 1.001 | 9100   | PU   | 1    | 306    |
| 4.361 | 354010 | UV   | 2    | 3.514  |

TOTAL AREA= 472779  
OIL FACTOR=1.0000E+00

\* RUN # 1070 APR 19, 1997 13:47:57  
STOP1



RUN# 1070 APR 19, 1997 13:47:56

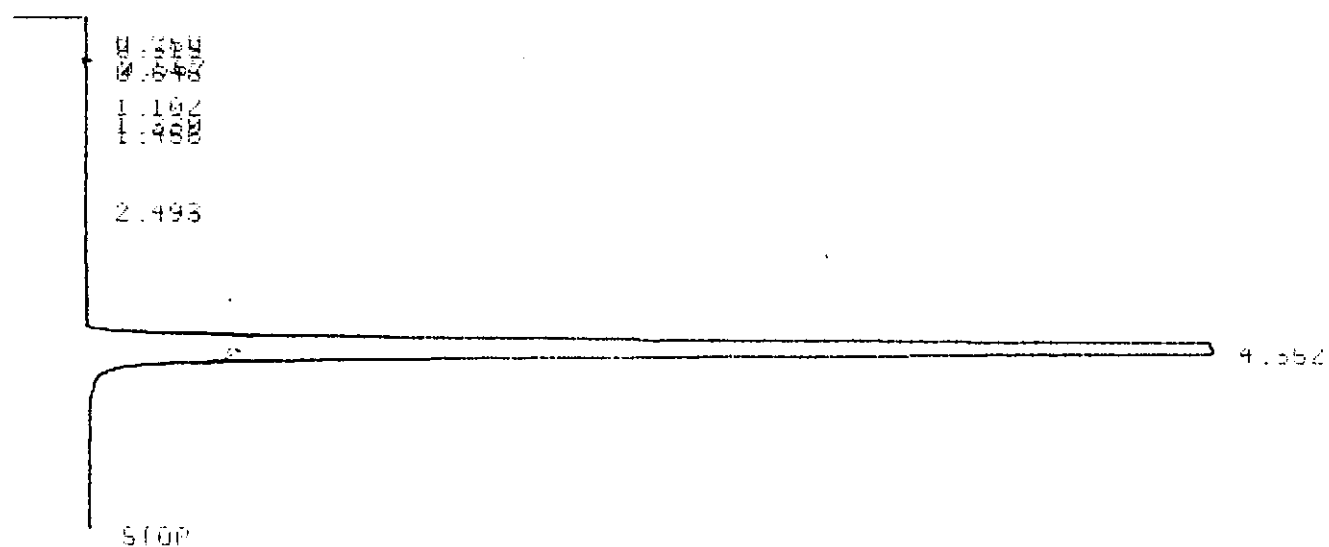
ESTD-AREA

| RT    | AREA     | TYPE | CHLW | AMOUNT  |
|-------|----------|------|------|---------|
| 4.355 | 18327536 | PD   | 2    | 181.413 |

TOTAL AREA=1.8508E+07

MUL FACTOR=1.0000E+00

\* RUN # 1071 APR 19, 1997 13:54:14  
STOP1



RUN# 1071 APR 19, 1997 13:54:14

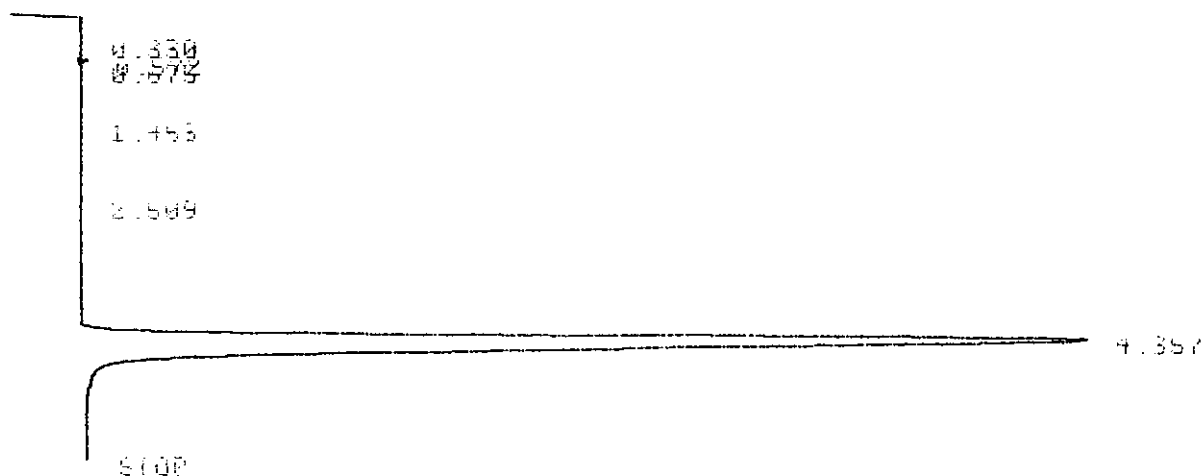
ESTD-AREA

| RT    | AREA     | TYPE | CHLW | AMOUNT   |
|-------|----------|------|------|----------|
| 4.352 | 18467392 | PD   | 2    | 182.1827 |

TOTAL AREA=1.9554E+07



\* RUN # 1072      APR 19, 1997    14:03:17  
START



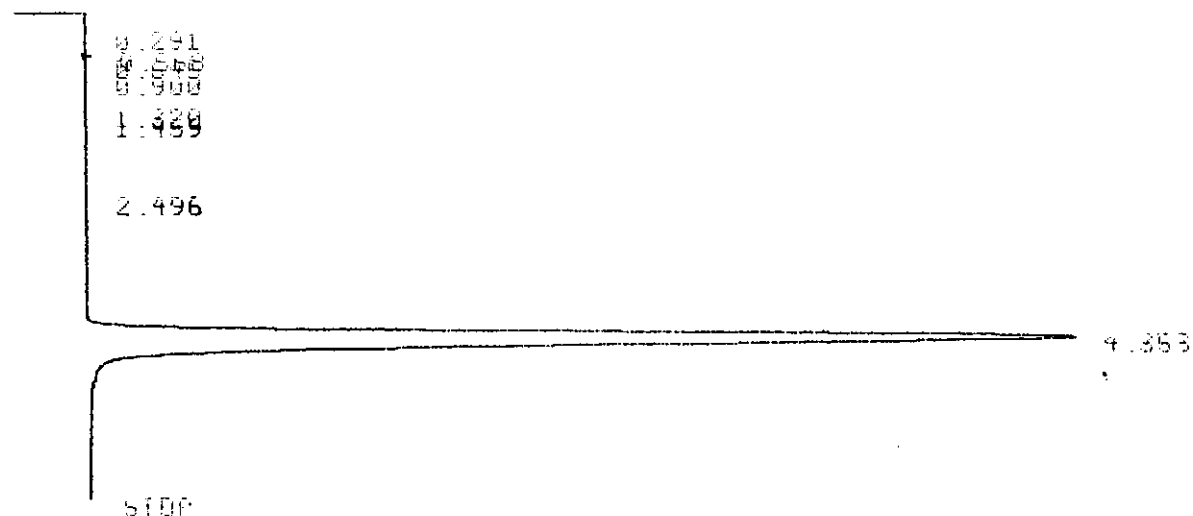
RUN# 1072      APR 19, 1997    14:03:17

ESTD-AREA  

| RT    | AREA    | TYPE | CALC | AMOUNT  |
|-------|---------|------|------|---------|
| 4.357 | 1100090 | PB   | 2    | 109.364 |

TOTAL AREA=1.1139E+07  
 NGL FINDER=1.0000E+00

\* RUN # 1073      APR 19, 1997    14:09:45  
START



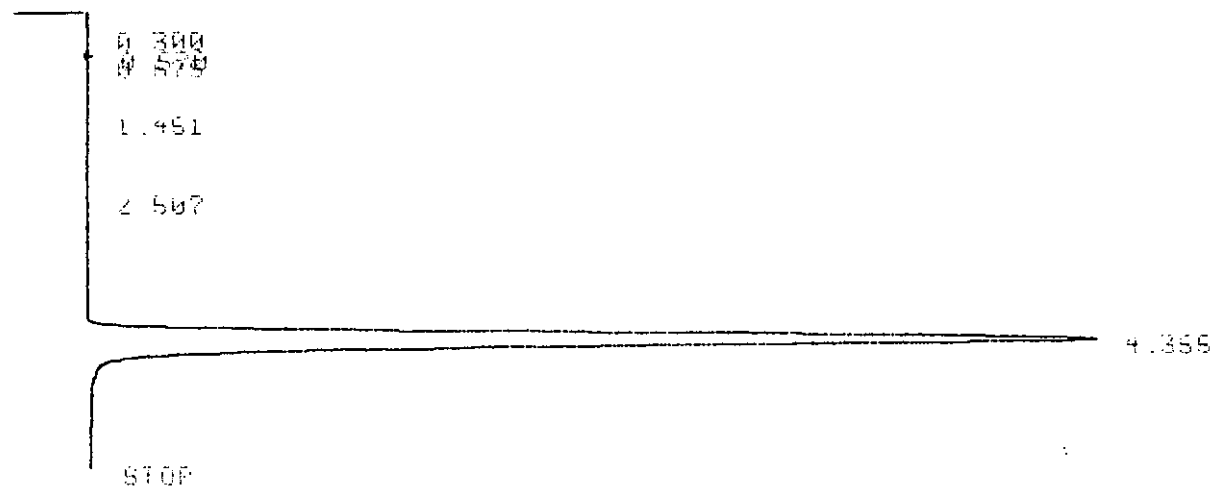
RUN# 1073      APR 19, 1997    14:09:45

ESTD-AREA  

| RT    | AREA     | TYPE | CALC | AMOUNT  |
|-------|----------|------|------|---------|
| 4.353 | 10804040 | PB   | 2    | 107.054 |

TOTAL AREA=1.0973E+07  
MUL FACTOR=1.0000E+00

\* RUN # 1074 APR 19, 1997 14:17:25  
START

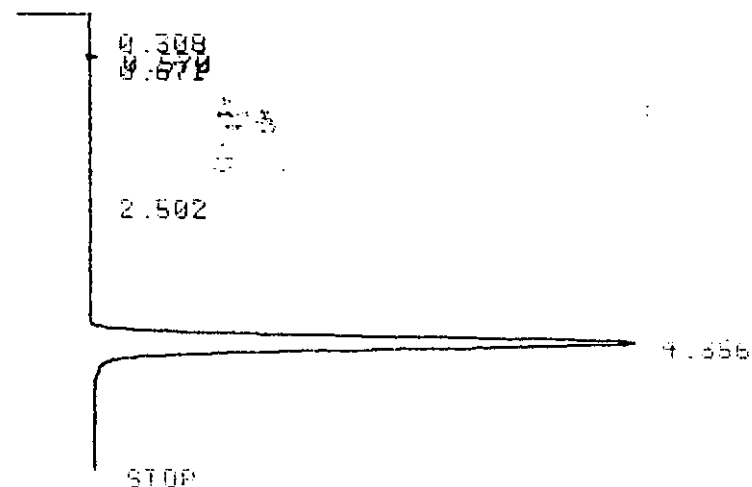


RUN# 1074 APR 19, 1997 14:17:25

| ESTD-AREA | RT    | AREA TYPE | CALA | AMOUNT  |
|-----------|-------|-----------|------|---------|
|           | 4.355 | 11025512  | BM 2 | 109.153 |

TOTAL AREA=1.1135E+07  
MUL FACTOR=1.0000E+00

\* RUN # 1075 APR 19, 1997 14:27:05  
START



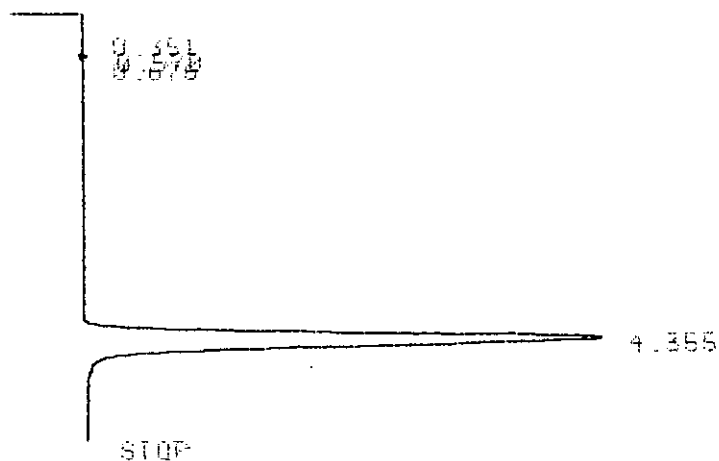
RUN# 1075 APR 19, 1997 14:27:05

ESTD-AREA

4.355 5985747 AB 1 59 259

TOTAL AREA=6087859  
NUL FACTOR=1.0000E+00

\* RUN # 1076 APR 19, 1997 14:33:53  
START

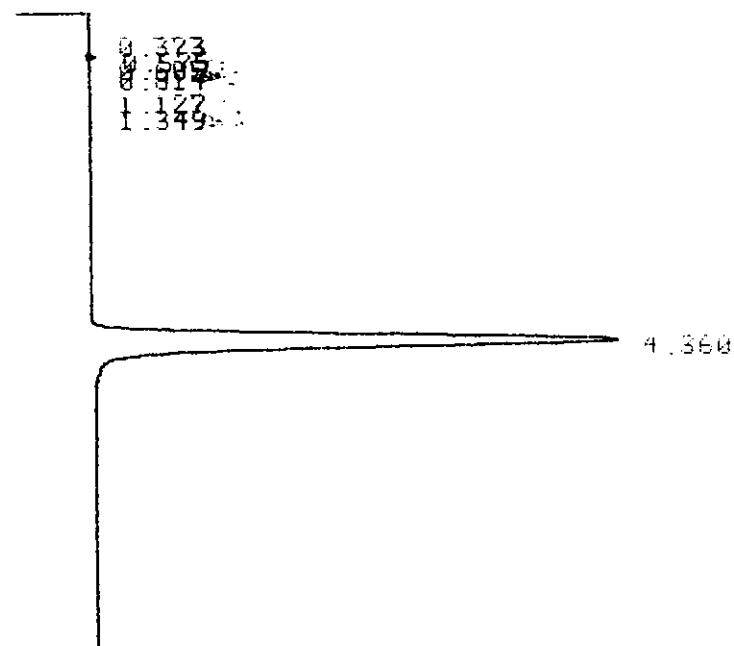


RUN# 1076 APR 19, 1997 14:33:53

| RT    | AREA    | TYPE | COL# | AMOUNT |
|-------|---------|------|------|--------|
| 4.355 | 5700285 | 75   | 2    | 56.132 |

TOTAL AREA=5009565  
NUL FACTOR=1.0000E+00

\* RUN # 1077 APR 19, 1997 14:41:49  
START



STOP

RUN# 1077 APR 19, 1997 14:41:49

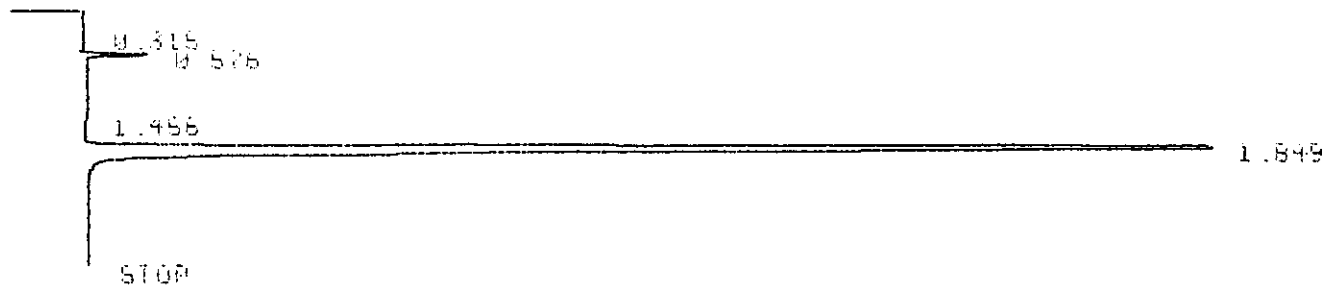
ESTD-AREA

| RT    | AREA TYPE | CALC | AMOUNT |
|-------|-----------|------|--------|
| 1.386 | 5788903   | 00   | 2      |
|       |           |      | 57.252 |

TOTAL AREA=5004173

MUL FACTOR=1.0000E+00

\* RUN # 1078 APR 19, 1997 14:55:48  
START



RUN# 1078 APR 19, 1997 14:55:48

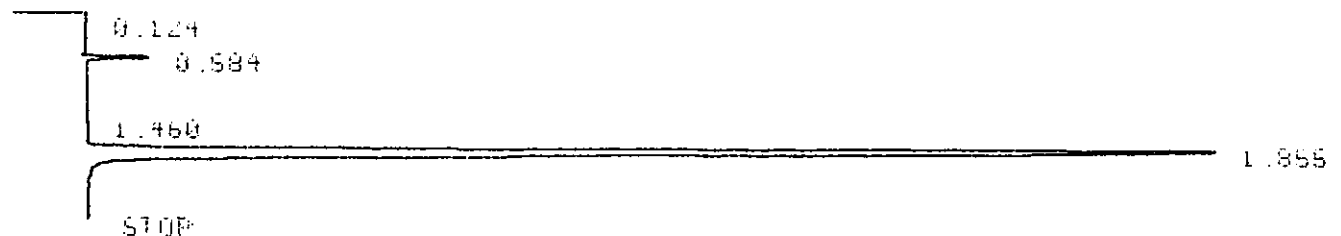
ESTD-AREA

| RT    | AREA TYPE | CALC | AMOUNT  |
|-------|-----------|------|---------|
| 1.040 | 6148867   | PS   | 1       |
|       |           |      | 250.252 |

TOTAL AREA=6333664

MUL FACTOR=1.0000E+00

\* RUN # 1079 APR 19, 1997 15:00:04  
START



RUN# 1079 APR 19, 1997 15:00:04

ESTD-AREA

1.855 6176204 08 1 159 185

TOTAL AREA=4347050  
POL FACTOR=1.0000E+00

① v/r

4/19

Cal 0419A.Cal contains 01 span, only QC in .prn file.

Spanned THCs @ 1000 based on yesterday's data

Online @ 0737 - 0419-01 = Numa-9-2, 28°C hull 42%

Initial resin 495.93

Skinn 0740 1/2 down 0801

RTI off all day (v/r)

Skin back in 0842

Plug pulled on scale part way through second 1/2 skin, not  
restored until 0942

Jam on 0950 (noticed slight increase in THCs as boat was  
flipped to start lam on initial skin side).

1/2 lam done 1011

RH = 50% @ 53°

P<sub>0</sub> = 29.76

Second 1/2 lam on 1053; done ~1108

Final resin 182.37 = 313.56 net

Flow @ #1218 - 1225

T<sub>S</sub> = 66

H 8 .22

V 8 .20

P<sub>0</sub> = 29.76

7 .24

7 .22

P<sub>0</sub> = -2.4

6 .25

6 .22

ΔP = 0.23

5 .25

5 .24.22

Q = 3,295

4 .22

4 .24

#Resin = 313.56 ⇒ 131.70 # Styrene

3 .22

3 .24

THC = 2105

2 .21

2 .23

Θ = 388° ⇒ 30.25% ⇒ 23.8%

1 .18

1 .17

392

23.2%

- Post QC

- Styrene RF 122459.2 - down line

- Towel test

4/19 cont  
Towel test

2082

Initial tare = 9.848 Kg

Final tare = 8.753 Kg

Net = 1.095 Kg

Test performed by:

- bkgnd
- test
- bkgnd

Flow @ DAS during test  $\approx$  0419-01 flow (3,295 ACFM)

Balance QC, logged during towel test

|          | weight | reading |
|----------|--------|---------|
| 15:07:24 | 0      | -1.33   |
| 15:18    | 100    | 98.50   |
| 15:21    | 200    | 198.70  |
| 15:25    | 300    | 298.73  |
| 15:28    | 400    | 398.76  |
| 15:31    | 500    | 498.65  |
| 15:38    | 100*   | 98.88   |

\* - different 100# than 15:07

- MMA RF vs. bag 2 (139.6 ppm MMA). Bag empty before  
sending run.

CALIBRATION SUMMARY  
04-19-1997 07:07:35

CALIBRATION FILE NAME = c:\cawdata\0419a.CAL

```
=====
Chan. Name Units :      Zero      :      Span      :      Slope      Int.
                  : Conc. Reso. : Conc. Reso. :
=====
1  THC o oom 0      0      914  9.2  99.41  -.1201
2  THC i oom 0     -.01  45.5  9.2   4.92   .0626
3  Flow inH2O 0     2.97  1.7  3.8   2.09  -6.2005
4  Temp F 32     1.98  212  3.3  137.51 -240.4591
5  Resin lb 0     1.46  600  4.3  212.27 -310.8426
6  Ps inH2O 0     .71  -1.7  1.1  -3.96   2.7997
=====
```



RADIANT CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: NMMA  
 Date Printed = 04-19-1997 Current Time = 07:10:45  
 File Name = c:\ceadata\041997.PRM Calibration File: c:\ceadata\0419a.CAL

Test #: Pre out 297 in 30.4

| 04-19-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 07:10:47           | 294.9        | 30.7         | -6.2          | -240.5    | -978.6      | 2.8         |
| 07:10:54           | 294.9        | 30.6         | -6.2          | -240.5    | -986.0      | 2.8         |
| 07:11:04           | 294.9        | 30.6         | -4.7          | -175.6    | -1004.5     | 2.5         |
| 07:11:14           | 294.9        | 30.6         | -0.0          | 62.8      | -1138.5     | 0.0         |
| 07:11:24           | 294.9        | 30.6         | -0.0          | 62.9      | -1135.7     | 0.0         |
| 07:11:34           | 294.9        | 30.5         | 0.0           | 62.8      | -1135.7     | 0.0         |
| 07:11:44           | 294.9        | 30.5         | -0.0          | 62.8      | -1135.7     | 0.0         |
| Avg =              | 294.9        | 30.6         | -2.4          | -57.9     | -1073.5     | 1.1         |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for:

NNMA

Date Printed = 04-19-1997 Current Time = 07:15:28

File Name = c:\ce\data\041997.PRM Calibration File: c:\ce\data\0419a.CAL

Test #: Pre out 600 in 15

| 04-19-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|

|          |       |      |      |      |         |     |
|----------|-------|------|------|------|---------|-----|
| 07:15:29 | 604.5 | 14.9 | -0.0 | 63.7 | -1142.7 | 0.0 |
| 07:15:34 | 604.4 | 14.9 | -0.0 | 63.6 | -1156.5 | 0.0 |
| 07:15:44 | 604.5 | 14.8 | -0.0 | 63.6 | -1105.8 | 0.0 |
| 07:15:54 | 604.9 | 14.8 | -0.0 | 63.6 | -1105.3 | 0.0 |
| 07:16:04 | 604.5 | 14.8 | -0.0 | 63.6 | -1105.5 | 0.0 |
| 07:16:14 | 604.4 | 14.8 | -0.0 | 63.6 | -1105.4 | 0.0 |
| 07:16:24 | 604.5 | 14.8 | -0.0 | 63.7 | -1105.7 | 0.0 |
| 07:16:34 | 605.2 | 14.8 | -0.0 | 63.8 | -1105.5 | 0.0 |
| 07:16:44 | 604.4 | 14.8 | -0.0 | 63.8 | -1105.4 | 0.0 |
| 07:16:54 | 604.4 | 14.8 | -0.0 | 63.7 | -1105.2 | 0.0 |
| 07:17:04 | 604.8 | 14.8 | -0.0 | 63.8 | -1106.7 | 0.0 |
| 07:17:14 | 605.5 | 14.8 | -0.0 | 63.8 | -1105.5 | 0.0 |
| 07:17:24 | 604.6 | 14.8 | -0.0 | 63.7 | -1105.8 | 0.0 |
| 07:17:34 | 605.0 | 14.8 | -0.0 | 63.7 | -1105.4 | 0.0 |
| 07:17:44 | 605.2 | 14.8 | -0.0 | 63.8 | -1106.0 | 0.0 |

|       |       |      |      |      |         |     |
|-------|-------|------|------|------|---------|-----|
| Avg = | 604.7 | 14.8 | -0.0 | 63.7 | -1111.5 | 0.0 |
|-------|-------|------|------|------|---------|-----|

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-19-1997 Current Time = 07:36:56

File Name = c:\ceadata\041997.PRN Calibration File: c:\ceadata\0419a.CAL

Test #: 0419-01

| 04-19-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 07:37:24           | 2.9          | 2.8          | 0.2           | 63.5      | 496.3       | -2.1        |
| 07:38:24           | 2.9          | 2.6          | 0.2           | 64.0      | 496.5       | -2.3        |
| 07:39:24           | 2.9          | 2.5          | 0.2           | 64.2      | 496.5       | -2.1        |
| 07:40:24           | 3.5          | 2.5          | 0.2           | 65.4      | 496.5       | -2.3        |
| 07:41:24           | 99.1         | 2.4          | 0.2           | 66.4      | 491.6       | -2.1        |
| 07:42:24           | 366.5        | 2.3          | 0.2           | 67.0      | 485.1       | -2.3        |
| 07:43:24           | 472.5        | 2.3          | 0.2           | 67.3      | 478.8       | -2.1        |
| 07:44:24           | 464.7        | 2.3          | 0.2           | 66.8      | 472.7       | -2.3        |
| 07:45:24           | 512.3        | 2.3          | 0.2           | 66.0      | 467.9       | -2.1        |
| 07:46:24           | 399.4        | 2.3          | 0.2           | 65.9      | 467.7       | -2.3        |
| 07:47:24           | 307.8        | 2.2          | 0.2           | 66.3      | 467.7       | -2.3        |
| 07:48:24           | 300.2        | 2.2          | 0.2           | 66.8      | 467.8       | -2.3        |
| 07:49:24           | 264.3        | 2.1          | 0.2           | 67.3      | 467.8       | -2.3        |
| 07:50:24           | 231.7        | 2.1          | 0.2           | 67.6      | 467.1       | -2.3        |
| 07:51:24           | 245.3        | 2.1          | 0.2           | 67.7      | 463.4       | -2.3        |
| 07:52:24           | 310.0        | 2.1          | 0.2           | 67.7      | 456.8       | -2.3        |
| 07:53:24           | 591.4        | 2.1          | 0.2           | 67.8      | 451.3       | -2.1        |
| 07:54:24           | 574.7        | 2.1          | 0.2           | 67.9      | 449.7       | -2.3        |
| 07:55:24           | 474.7        | 2.1          | 0.2           | 67.4      | 447.7       | -2.3        |
| 07:56:24           | 700.3        | 2.0          | 0.2           | 67.1      | 441.1       | -2.3        |
| 07:57:24           | 695.5        | 2.1          | 0.2           | 66.8      | 434.9       | -2.3        |
| 07:58:24           | 348.9        | 2.0          | 0.2           | 66.7      | 428.7       | -2.3        |
| 07:59:24           | 793.4        | 2.0          | 0.2           | 66.6      | 423.9       | -2.3        |
| 08:00:24           | 359.0        | 1.9          | 0.2           | 66.7      | 419.6       | -2.3        |
| 08:01:24           | 714.0        | 1.8          | 0.2           | 67.1      | 417.9       | -2.3        |
| 08:02:24           | 544.5        | 1.8          | 0.2           | 67.6      | 417.9       | -2.3        |
| 08:03:24           | 427.3        | 1.8          | 0.2           | 67.4      | 417.9       | -2.3        |
| 08:04:24           | 339.0        | 1.8          | 0.2           | 67.1      | 417.9       | -2.3        |
| 08:05:24           | 320.5        | 1.8          | 0.2           | 67.3      | 417.9       | -2.3        |
| 08:06:24           | 285.1        | 1.8          | 0.2           | 67.7      | 417.9       | -2.3        |
| 08:07:24           | 309.0        | 1.8          | 0.2           | 67.5      | 417.9       | -2.3        |
| 08:08:24           | 237.3        | 2.0          | 0.2           | 67.2      | 417.9       | -2.3        |
| 08:09:24           | 200.6        | 2.1          | 0.2           | 66.9      | 417.9       | -2.1        |
| 08:10:24           | 214.0        | 2.2          | 0.2           | 67.0      | 417.9       | -2.3        |
| 08:11:24           | 225.6        | 2.2          | 0.2           | 67.7      | 417.9       | -2.3        |
| 08:12:24           | 235.2        | 2.2          | 0.2           | 68.1      | 417.9       | -2.3        |
| 08:13:24           | 201.5        | 2.1          | 0.2           | 67.9      | 417.9       | -2.3        |
| 08:14:24           | 170.6        | 2.1          | 0.2           | 67.5      | 417.9       | -2.3        |
| 08:15:24           | 154.2        | 2.0          | 0.2           | 67.4      | 417.9       | -2.1        |
| 08:16:24           | 159.4        | 1.9          | 0.2           | 67.6      | 417.9       | -2.3        |

Test #: 0419-01

| 04-19-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 08:17:24           | 161.9        | 1.9          | 0.2           | 68.0      | 417.9       | -2.7        |
| 08:18:24           | 144.7        | 1.8          | 0.2           | 68.2      | 417.9       | -2.3        |
| 08:19:24           | 136.1        | 1.8          | 0.2           | 67.9      | 417.9       | -2.5        |
| 08:20:24           | 132.6        | 1.8          | 0.2           | 67.6      | 417.9       | -2.3        |
| 08:21:24           | 132.5        | 1.8          | 0.2           | 67.4      | 417.9       | -2.5        |
| 08:22:24           | 132.0        | 1.8          | 0.2           | 67.3      | 417.9       | -2.3        |
| 08:23:24           | 133.3        | 1.7          | 0.2           | 67.3      | 417.9       | -2.5        |
| 08:24:24           | 124.1        | 1.7          | 0.2           | 67.3      | 417.9       | -2.3        |
| 08:25:24           | 123.5        | 1.7          | 0.2           | 67.4      | 417.9       | -2.5        |
| 08:26:24           | 124.4        | 1.7          | 0.2           | 67.4      | 417.8       | -2.3        |
| 08:27:24           | 124.3        | 1.7          | 0.2           | 67.6      | 417.9       | -2.4        |
| 08:28:24           | 111.3        | 1.7          | 0.2           | 67.6      | 417.9       | -2.3        |
| 08:29:24           | 118.4        | 1.7          | 0.2           | 67.7      | 417.8       | -2.5        |
| 08:30:24           | 105.0        | 1.7          | 0.2           | 67.9      | 417.9       | -2.3        |
| 08:31:24           | 102.3        | 1.7          | 0.2           | 68.2      | 417.8       | -2.5        |
| 08:32:24           | 96.9         | 1.7          | 0.2           | 68.3      | 417.8       | -2.3        |
| 08:33:24           | 104.1        | 1.6          | 0.2           | 68.1      | 417.8       | -2.5        |
| 08:34:24           | 88.6         | 1.7          | 0.2           | 67.5      | 418.0       | -2.3        |
| 08:35:24           | 133.4        | 1.6          | 0.2           | 67.8      | 295.2       | -2.5        |
| 08:36:24           | 132.7        | 1.6          | 0.2           | 68.1      | 421.3       | -2.3        |
| 08:37:24           | 133.2        | 1.6          | 0.2           | 68.5      | 416.5       | -2.5        |
| 08:38:24           | 100.9        | 1.5          | 0.3           | 69.1      | 415.1       | -2.3        |
| 08:39:24           | 103.7        | 1.6          | 0.2           | 69.1      | 418.3       | -2.5        |
| 08:40:24           | 66.7         | 1.6          | 0.2           | 69.0      | 428.6       | -2.3        |
| 08:41:24           | 73.3         | 1.6          | 0.2           | 69.2      | 415.9       | -2.5        |
| 08:42:24           | 133.9        | 1.6          | 0.2           | 69.6      | 414.8       | -2.3        |
| 08:43:24           | 242.5        | 1.6          | 0.2           | 69.9      | 410.1       | -2.5        |
| 08:44:24           | 484.8        | 1.6          | 0.2           | 69.9      | 403.6       | -2.3        |
| 08:45:24           | 713.2        | 1.6          | 0.2           | 69.8      | 398.0       | -2.5        |
| 08:46:24           | 705.6        | 1.6          | 0.2           | 69.9      | 392.9       | -2.3        |
| 08:47:24           | 815.6        | 1.6          | 0.2           | 70.2      | 387.5       | -2.5        |
| 08:48:24           | 824.9        | 1.6          | 0.2           | 70.3      | 384.0       | -2.3        |
| 08:49:24           | 748.9        | 1.6          | 0.2           | 70.4      | 379.7       | -2.5        |
| 08:50:24           | 801.7        | 1.6          | 0.2           | 70.3      | 374.7       | -2.3        |
| 08:51:24           | 880.6        | 1.5          | 0.2           | 70.3      | 369.9       | -2.5        |
| 08:52:24           | 769.4        | 1.6          | 0.2           | 70.4      | -113.1      | -2.3        |
| 08:53:24           | 600.0        | 1.5          | 0.2           | 70.6      | -301.5      | -2.5        |
| 08:54:24           | 583.4        | 1.5          | 0.2           | 70.7      | -308.6      | -2.3        |
| 08:55:24           | 496.0        | 1.5          | 0.2           | 70.8      | -309.5      | -2.5        |
| 08:56:24           | 694.6        | 1.6          | 0.2           | 70.8      | -310.4      | -2.3        |
| 08:57:24           | 801.9        | 1.6          | 0.2           | 70.6      | -311.4      | -2.5        |
| 08:58:24           | 855.6        | 1.7          | 0.2           | 70.6      | -310.2      | -2.3        |
| 08:59:24           | 805.6        | 1.6          | 0.2           | 70.6      | -310.2      | -2.5        |
| 09:00:24           | 657.7        | 1.6          | 0.2           | 70.5      | -310.3      | -2.3        |
| 09:01:24           | 573.4        | 1.6          | 0.2           | 70.2      | -310.2      | -2.4        |
| 09:02:24           | 486.9        | 1.8          | 0.2           | 70.0      | -310.3      | -2.3        |
| 09:03:24           | 340.4        | 1.8          | 0.2           | 69.9      | -310.4      | -2.5        |
| 09:04:24           | 306.5        | 1.7          | 0.2           | 69.6      | -310.3      | -2.4        |
| 09:05:24           | 363.4        | 1.8          | 0.2           | 69.5      | -310.3      | -2.5        |
| 09:06:24           | 338.1        | 1.8          | 0.2           | 69.8      | -310.3      | -2.4        |
| 09:07:24           | 294.4        | 1.8          | 0.2           | 69.8      | -310.4      | -2.4        |
| 09:08:24           | 265.5        | 1.8          | 0.2           | 70.0      | -310.3      | -2.4        |
| 09:09:24           | 251.4        | 1.8          | 0.2           | 69.9      | -310.4      | -2.4        |
| 09:10:24           | 233.2        | 1.8          | 0.2           | 70.1      | -310.4      | -2.4        |
| 09:11:24           | 218.7        | 1.8          | 0.2           | 70.1      | -310.4      | -2.5        |
| 09:12:24           | 192.7        | 1.8          | 0.2           | 70.0      | -310.4      | -2.3        |

Test #: 0419-01

| 04-19-1997<br>Time | THC o<br>oob | THC i<br>oob | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 09:13:24           | 193.8        | 1.8          | 0.2           | 70.2      | -310.4      | -2.4        |
| 09:14:24           | 166.2        | 1.7          | 0.2           | 70.5      | -310.4      | -2.4        |
| 09:15:24           | 173.2        | 1.7          | 0.2           | 70.2      | -310.4      | -2.4        |
| 09:16:24           | 165.0        | 1.6          | 0.2           | 70.3      | -310.4      | -2.3        |
| 09:17:24           | 165.0        | 1.7          | 0.2           | 70.3      | -310.4      | -2.4        |
| 09:18:24           | 141.0        | 1.7          | 0.2           | 70.2      | -310.4      | -2.4        |
| 09:19:24           | 155.1        | 1.8          | 0.2           | 70.3      | -310.4      | -2.4        |
| 09:20:24           | 144.6        | 1.8          | 0.2           | 70.3      | -310.4      | -2.4        |
| 09:21:24           | 138.3        | 1.8          | 0.2           | 70.0      | -310.4      | -2.3        |
| 09:22:24           | 129.8        | 1.8          | 0.2           | 70.2      | -310.3      | -2.3        |
| 09:23:24           | 148.0        | 1.8          | 0.2           | 70.5      | -310.4      | -2.4        |
| 09:24:24           | 123.5        | 1.9          | 0.2           | 70.8      | -310.4      | -2.3        |
| 09:25:24           | 136.5        | 1.8          | 0.2           | 70.8      | -310.4      | -2.4        |
| 09:26:24           | 118.5        | 1.8          | 0.2           | 70.7      | -310.4      | -2.4        |
| 09:27:24           | 104.3        | 1.8          | 0.2           | 70.5      | -310.4      | -2.4        |
| 09:28:24           | 98.2         | 1.9          | 0.2           | 70.5      | -310.4      | -2.4        |
| 09:29:24           | 102.3        | 1.8          | 0.2           | 70.6      | -310.4      | -2.3        |
| 09:30:24           | 102.3        | 1.8          | 0.2           | 70.7      | -310.4      | -2.3        |
| 09:31:24           | 102.4        | 1.8          | 0.2           | 70.6      | -310.4      | -2.4        |
| 09:32:24           | 95.9         | 1.8          | 0.2           | 70.5      | -310.4      | -2.4        |
| 09:33:24           | 84.3         | 1.9          | 0.2           | 70.3      | -310.3      | -2.4        |
| 09:34:24           | 82.0         | 1.9          | 0.2           | 70.1      | -310.3      | -2.4        |
| 09:35:24           | 79.5         | 1.8          | 0.2           | 70.1      | -310.3      | -2.3        |
| 09:36:24           | 78.4         | 1.8          | 0.2           | 70.2      | -310.3      | -2.3        |
| 09:37:24           | 82.1         | 1.8          | 0.2           | 70.2      | -310.3      | -2.4        |
| 09:38:24           | 85.1         | 1.8          | 0.2           | 70.2      | -310.1      | -2.3        |
| 09:39:24           | 99.9         | 1.8          | 0.2           | 70.1      | -310.2      | -2.3        |
| 09:40:24           | 114.7        | 1.9          | 0.2           | 70.1      | -310.3      | -2.3        |
| 09:41:24           | 106.7        | 1.9          | 0.2           | 70.1      | -9.1        | -2.3        |
| 09:42:24           | 106.5        | 1.8          | 0.2           | 69.9      | 343.7       | -2.3        |
| 09:43:24           | 124.4        | 1.8          | 0.2           | 69.8      | 343.9       | -2.4        |
| 09:44:24           | 116.2        | 1.8          | 0.2           | 69.5      | 343.6       | -2.3        |
| 09:45:24           | 123.1        | 1.9          | 0.2           | 69.6      | 345.8       | -2.3        |
| 09:46:24           | 128.7        | 1.8          | 0.2           | 69.7      | 346.8       | -2.3        |
| 09:47:24           | 136.3        | 1.8          | 0.2           | 69.8      | 346.9       | -2.3        |
| 09:48:24           | 128.5        | 1.8          | 0.3           | 69.6      | 346.3       | -2.3        |
| 09:49:24           | 129.4        | 1.9          | 0.2           | 69.3      | 346.7       | -2.3        |
| 09:50:24           | 161.7        | 1.9          | 0.2           | 68.9      | 345.2       | -2.3        |
| 09:51:24           | 170.8        | 1.8          | 0.2           | 68.6      | 344.3       | -2.3        |
| 09:52:24           | 193.8        | 1.8          | 0.2           | 68.4      | 339.9       | -2.3        |
| 09:53:24           | 336.1        | 1.9          | 0.2           | 68.5      | 333.9       | -2.3        |
| 09:54:24           | 442.1        | 1.9          | 0.2           | 68.7      | 330.5       | -2.3        |
| 09:55:24           | 526.9        | 1.9          | 0.2           | 68.7      | 324.1       | -2.3        |
| 09:56:24           | 592.9        | 1.9          | 0.2           | 68.7      | 318.0       | -2.3        |
| 09:57:24           | 712.9        | 1.9          | 0.2           | 68.8      | 311.8       | -2.3        |
| 09:58:24           | 764.7        | 2.0          | 0.2           | 68.8      | 305.4       | -2.3        |
| 09:59:24           | 817.4        | 2.0          | 0.2           | 68.9      | 300.3       | -2.3        |
| 10:00:24           | 793.7        | 1.9          | 0.2           | 68.9      | 298.3       | -2.4        |
| 10:01:24           | 762.7        | 1.9          | 0.2           | 68.6      | 296.7       | -2.4        |
| 10:02:24           | 691.4        | 1.9          | 0.2           | 68.5      | 296.1       | -2.3        |
| 10:03:24           | 776.7        | 2.0          | 0.2           | 68.7      | 292.6       | -2.3        |
| 10:04:24           | 630.5        | 1.8          | 0.2           | 68.9      | 291.6       | -2.3        |
| 10:05:24           | 720.6        | 1.8          | 0.2           | 69.1      | 286.2       | -2.3        |
| 10:06:24           | 799.0        | 1.8          | 0.2           | 69.2      | 282.8       | -2.3        |
| 10:07:24           | 667.6        | 1.9          | 0.2           | 69.2      | 280.0       | -2.3        |
| 10:08:24           | 796.6        | 1.9          | 0.2           | 69.2      | 272.7       | -2.3        |

Test #: 0419-01

| 04-19-1997<br>Time | THC o<br>oom | THC i<br>oom | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 10:09:24           | 805.4        | 1.8          | 0.2           | 69.4      | 268.2       | -2.3        |
| 10:10:24           | 661.8        | 1.8          | 0.2           | 69.1      | 266.2       | -2.4        |
| 10:11:24           | 642.3        | 1.8          | 0.2           | 69.1      | 264.9       | -2.4        |
| 10:12:24           | 581.4        | 1.8          | 0.2           | 69.0      | 264.5       | -2.4        |
| 10:13:24           | 516.9        | 1.8          | 0.2           | 69.0      | 264.5       | -2.3        |
| 10:14:24           | 468.6        | 1.9          | 0.2           | 68.9      | 264.5       | -2.4        |
| 10:15:24           | 425.1        | 1.9          | 0.2           | 68.8      | 264.5       | -2.4        |
| 10:16:24           | 388.8        | 2.0          | 0.2           | 68.7      | 264.5       | -2.4        |
| 10:17:24           | 347.4        | 2.1          | 0.2           | 68.5      | 264.5       | -2.4        |
| 10:18:24           | 316.6        | 2.1          | 0.2           | 68.5      | 264.5       | -2.4        |
| 10:19:24           | 290.1        | 2.2          | 0.2           | 68.5      | 264.6       | -2.4        |
| 10:20:24           | 268.8        | 2.2          | 0.2           | 68.5      | 264.6       | -2.4        |
| 10:21:24           | 239.8        | 2.2          | 0.2           | 68.5      | 264.5       | -2.4        |
| 10:22:24           | 225.0        | 2.2          | 0.2           | 68.4      | 264.5       | -2.4        |
| 10:23:24           | 212.7        | 2.2          | 0.2           | 68.2      | 264.5       | -2.4        |
| 10:24:24           | 207.8        | 2.3          | 0.2           | 68.3      | 264.5       | -2.4        |
| 10:25:24           | 198.3        | 2.2          | 0.2           | 68.4      | 264.5       | -2.4        |
| 10:26:24           | 188.3        | 2.2          | 0.2           | 68.3      | 264.5       | -2.4        |
| 10:27:24           | 183.8        | 2.1          | 0.2           | 68.3      | 264.5       | -2.4        |
| 10:28:24           | 178.5        | 2.2          | 0.2           | 68.4      | 264.5       | -2.4        |
| 10:29:24           | 175.4        | 2.1          | 0.2           | 68.4      | 264.5       | -2.4        |
| 10:30:24           | 170.7        | 2.2          | 0.2           | 68.3      | 264.5       | -2.4        |
| 10:31:24           | 168.1        | 2.2          | 0.2           | 68.2      | 264.5       | -2.4        |
| 10:32:24           | 162.7        | 2.2          | 0.2           | 68.3      | 264.5       | -2.4        |
| 10:33:24           | 159.9        | 2.2          | 0.2           | 68.2      | 264.5       | -2.4        |
| 10:34:24           | 152.7        | 2.2          | 0.2           | 68.0      | 264.5       | -2.4        |
| 10:35:24           | 149.8        | 2.2          | 0.2           | 67.9      | 264.5       | -2.4        |
| 10:36:24           | 147.4        | 2.1          | 0.2           | 68.1      | 264.5       | -2.4        |
| 10:37:24           | 144.2        | 2.1          | 0.2           | 68.0      | 264.5       | -2.4        |
| 10:38:24           | 136.2        | 2.1          | 0.2           | 67.7      | 264.5       | -2.4        |
| 10:39:24           | 132.5        | 2.0          | 0.2           | 67.8      | 264.5       | -2.4        |
| 10:40:24           | 129.7        | 2.0          | 0.2           | 67.9      | 264.5       | -2.4        |
| 10:41:24           | 125.2        | 2.0          | 0.2           | 68.0      | 264.5       | -2.4        |
| 10:42:24           | 122.3        | 1.9          | 0.2           | 68.0      | 264.5       | -2.4        |
| 10:43:24           | 115.1        | 2.1          | 0.2           | 67.9      | 264.5       | -2.4        |
| 10:44:24           | 108.8        | 1.9          | 0.2           | 68.0      | 264.6       | -2.4        |
| 10:45:24           | 103.8        | 2.0          | 0.2           | 67.9      | 264.5       | -2.3        |
| 10:46:24           | 91.3         | 1.9          | 0.2           | 67.6      | 264.5       | -2.4        |
| 10:47:24           | 91.4         | 2.0          | 0.2           | 67.7      | 264.0       | -2.4        |
| 10:48:24           | 82.4         | 2.0          | 0.2           | 67.7      | 264.3       | -2.4        |
| 10:49:24           | 76.8         | 1.9          | 0.2           | 67.8      | 264.6       | -2.4        |
| 10:50:24           | 81.9         | 1.9          | 0.2           | 67.6      | 264.1       | -2.3        |
| 10:51:24           | 90.2         | 1.9          | 0.2           | 67.6      | 263.2       | -2.4        |
| 10:52:24           | 129.9        | 1.9          | 0.2           | 67.6      | 259.0       | -2.4        |
| 10:53:24           | 339.3        | 1.9          | 0.2           | 67.6      | 252.8       | -2.4        |
| 10:54:24           | 442.4        | 1.9          | 0.2           | 67.6      | 247.2       | -2.4        |
| 10:55:24           | 542.6        | 2.0          | 0.2           | 67.5      | 240.6       | -2.4        |
| 10:56:24           | 681.6        | 2.0          | 0.2           | 67.5      | 234.6       | -2.4        |
| 10:57:24           | 709.0        | 1.8          | 0.2           | 67.6      | 228.2       | -2.3        |
| 10:58:24           | 811.8        | 1.9          | 0.2           | 67.5      | 222.2       | -2.4        |
| 10:59:24           | 745.6        | 1.8          | 0.2           | 67.5      | 216.7       | -2.4        |
| 11:00:24           | 677.0        | 1.9          | 0.2           | 67.5      | 215.2       | -2.4        |
| 11:01:24           | 658.1        | 1.8          | 0.2           | 67.5      | 211.7       | -2.4        |
| 11:02:24           | 594.5        | 1.8          | 0.2           | 67.6      | 210.6       | -2.4        |
| 11:03:24           | 575.8        | 1.8          | 0.2           | 67.5      | 205.6       | -2.4        |
| 11:04:24           | 671.8        | 1.7          | 0.2           | 67.6      | 201.9       | -2.4        |

Test #: 0419-01

| 04-19-1997<br>Time | THC o<br>oom | THC i<br>oom | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 11:05:24           | 697.3        | 1.7          | 0.2           | 67.7      | 195.2       | -2.4        |
| 11:06:24           | 692.6        | 1.8          | 0.2           | 67.7      | 189.5       | -2.4        |
| 11:07:24           | 698.9        | 1.7          | 0.2           | 67.7      | 185.1       | -2.4        |
| 11:08:24           | 634.9        | 1.9          | 0.2           | 67.6      | 184.2       | -2.4        |
| 11:09:24           | 532.3        | 1.9          | 0.2           | 67.4      | 183.6       | -2.4        |
| 11:10:24           | 477.1        | 1.8          | 0.2           | 67.3      | 182.4       | -2.3        |
| 11:11:24           | 465.7        | 1.9          | 0.2           | 67.2      | 182.0       | -2.4        |
| 11:12:24           | 484.5        | 1.9          | 0.2           | 67.1      | 180.8       | -2.4        |
| 11:13:24           | 441.7        | 2.0          | 0.2           | 67.0      | 180.8       | -2.4        |
| 11:14:24           | 399.7        | 1.9          | 0.2           | 67.0      | 180.8       | -2.4        |
| 11:15:24           | 352.6        | 1.9          | 0.2           | 67.1      | 180.8       | -2.4        |
| 11:16:24           | 309.8        | 1.9          | 0.2           | 67.1      | 180.8       | -2.4        |
| 11:17:24           | 304.3        | 2.0          | 0.2           | 67.3      | 180.8       | -2.4        |
| 11:18:24           | 278.6        | 2.1          | 0.2           | 67.4      | 180.7       | -2.4        |
| 11:19:24           | 251.3        | 2.1          | 0.2           | 67.1      | 180.7       | -2.4        |
| 11:20:24           | 241.9        | 2.1          | 0.2           | 67.1      | 180.7       | -2.4        |
| 11:21:24           | 229.9        | 2.1          | 0.2           | 67.2      | 180.7       | -2.4        |
| 11:22:24           | 212.5        | 1.9          | 0.2           | 67.4      | 180.7       | -2.4        |
| 11:23:24           | 207.6        | 1.9          | 0.2           | 67.2      | 180.7       | -2.4        |
| 11:24:24           | 198.8        | 1.9          | 0.2           | 67.0      | 180.8       | -2.4        |
| 11:25:24           | 190.1        | 1.9          | 0.2           | 66.9      | 180.8       | -2.4        |
| 11:26:24           | 168.3        | 2.1          | 0.2           | 66.7      | 180.8       | -2.4        |
| 11:27:24           | 171.9        | 2.0          | 0.2           | 66.6      | 180.8       | -2.4        |
| 11:28:24           | 173.7        | 2.1          | 0.2           | 66.5      | 180.8       | -2.4        |
| 11:29:24           | 170.9        | 2.1          | 0.2           | 66.7      | 180.8       | -2.4        |
| 11:30:24           | 164.4        | 2.2          | 0.2           | 66.8      | 180.8       | -2.4        |
| 11:31:24           | 161.6        | 2.2          | 0.2           | 66.7      | 180.8       | -2.4        |
| 11:32:24           | 163.6        | 2.1          | 0.2           | 66.8      | 180.8       | -2.4        |
| 11:33:24           | 158.5        | 1.9          | 0.2           | 66.9      | 180.8       | -2.3        |
| 11:34:24           | 159.0        | 2.0          | 0.2           | 66.8      | 180.8       | -2.4        |
| 11:35:24           | 153.8        | 1.9          | 0.2           | 66.8      | 180.8       | -2.4        |
| 11:36:24           | 149.5        | 1.9          | 0.2           | 66.8      | 180.8       | -2.4        |
| 11:37:24           | 148.0        | 1.8          | 0.2           | 66.9      | 180.8       | -2.4        |
| 11:38:24           | 144.5        | 1.9          | 0.2           | 67.0      | 180.8       | -2.4        |
| 11:39:24           | 141.9        | 1.9          | 0.2           | 67.0      | 180.8       | -2.3        |
| 11:40:24           | 140.7        | 1.8          | 0.2           | 67.0      | 180.8       | -2.4        |
| 11:41:24           | 136.8        | 1.8          | 0.2           | 67.0      | 180.8       | -2.4        |
| 11:42:24           | 130.3        | 1.8          | 0.2           | 67.0      | 180.8       | -2.4        |
| 11:43:24           | 127.9        | 1.8          | 0.2           | 66.9      | 180.8       | -2.4        |
| 11:44:24           | 119.2        | 1.7          | 0.2           | 66.9      | 180.8       | -2.4        |
| 11:45:24           | 119.6        | 1.8          | 0.2           | 66.9      | 180.8       | -2.4        |
| 11:46:24           | 117.7        | 1.7          | 0.2           | 66.9      | 180.8       | -2.4        |
| 11:47:24           | 112.5        | 1.8          | 0.2           | 66.8      | 180.8       | -2.4        |
| 11:48:24           | 107.1        | 1.7          | 0.2           | 66.8      | 180.8       | -2.4        |
| 11:49:24           | 100.9        | 1.6          | 0.2           | 66.8      | 180.8       | -2.4        |
| 11:50:24           | 99.2         | 1.6          | 0.2           | 66.7      | 180.8       | -2.4        |
| 11:51:24           | 94.3         | 1.6          | 0.2           | 66.7      | 180.8       | -2.4        |
| 11:52:24           | 92.0         | 1.7          | 0.2           | 66.8      | 180.8       | -2.4        |
| 11:53:24           | 87.5         | 1.7          | 0.2           | 66.7      | 180.8       | -2.4        |
| 11:54:24           | 82.8         | 1.8          | 0.2           | 66.7      | 180.8       | -2.4        |
| 11:55:24           | 79.0         | 1.7          | 0.2           | 66.6      | 180.8       | -2.4        |
| 11:56:24           | 76.0         | 1.7          | 0.2           | 66.5      | 180.8       | -2.4        |
| 11:57:24           | 71.5         | 1.6          | 0.2           | 66.3      | 180.8       | -2.3        |
| 11:58:24           | 67.1         | 1.6          | 0.2           | 66.4      | 180.8       | -2.3        |
| 11:59:24           | 65.5         | 1.7          | 0.2           | 66.5      | 180.8       | -2.3        |
| 12:00:24           | 63.4         | 1.7          | 0.2           | 66.6      | 180.8       | -2.4        |

Test #: 0419-01

| 04-19-1997<br>Time | THC o<br>oom | THC i<br>oom | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 12:01:24           | 62.3         | 1.6          | 0.2           | 66.4      | 180.8       | -2.4        |
| 12:02:24           | 59.0         | 1.6          | 0.2           | 66.3      | 180.8       | -2.4        |
| 12:03:24           | 56.2         | 1.6          | 0.2           | 66.5      | 180.8       | -2.4        |
| 12:04:24           | 54.2         | 1.5          | 0.2           | 66.5      | 180.8       | -2.4        |
| 12:05:24           | 51.4         | 1.5          | 0.2           | 66.5      | 180.8       | -2.4        |
| 12:06:24           | 51.0         | 1.6          | 0.2           | 66.6      | 180.8       | -2.4        |
| 12:07:24           | 49.6         | 1.5          | 0.2           | 66.5      | 180.8       | -2.4        |
| 12:08:24           | 47.0         | 1.5          | 0.2           | 66.5      | 180.8       | -2.4        |
| 12:09:24           | 45.5         | 1.5          | 0.2           | 66.5      | 180.8       | -2.3        |
| 12:10:24           | 43.7         | 1.5          | 0.2           | 66.5      | 180.8       | -2.3        |
| 12:11:24           | 41.7         | 1.5          | 0.2           | 66.5      | 180.8       | -2.3        |
| 12:12:24           | 40.8         | 1.5          | 0.2           | 66.5      | 180.8       | -2.4        |
| 12:13:24           | 40.3         | 1.6          | 0.2           | 66.3      | 180.8       | -2.4        |
| 12:14:24           | 38.6         | 1.5          | 0.2           | 66.3      | 180.8       | -2.4        |
| 12:15:24           | 36.7         | 1.5          | 0.2           | 66.2      | 180.8       | -2.4        |
| 12:16:24           | 35.7         | 1.5          | 0.2           | 66.2      | 180.8       | -2.4        |
| 12:17:24           | 34.8         | 1.5          | 0.2           | 66.3      | 180.8       | -2.4        |
| 12:18:24           | 33.4         | 1.5          | 0.2           | 66.3      | 180.8       | -2.4        |
| 12:19:24           | 32.9         | 1.5          | 0.2           | 66.3      | 180.8       | -2.4        |
| 12:20:24           | 32.4         | 1.5          | 0.2           | 66.4      | 180.8       | -2.4        |
| 12:21:24           | 32.1         | 1.5          | 0.2           | 66.3      | 180.8       | -2.4        |
| 12:22:24           | 29.8         | 1.5          | 0.1           | 66.2      | 180.8       | -1.5        |
| 12:23:24           | 30.1         | 1.4          | 0.2           | 66.3      | 180.8       | -2.3        |
| 12:24:24           | 28.6         | 1.4          | 0.2           | 66.4      | 180.8       | -2.1        |
| 12:25:24           | 28.8         | 1.4          | 0.2           | 66.3      | 180.8       | -2.4        |
| 12:26:24           | 28.4         | 1.4          | 0.2           | 66.2      | 180.8       | -2.4        |
| 12:27:24           | 28.1         | 1.4          | 0.2           | 66.2      | 180.8       | -2.4        |
| 12:28:24           | 26.7         | 1.4          | 0.2           | 66.3      | 180.8       | -2.4        |
| 12:29:24           | 26.6         | 1.5          | 0.2           | 66.3      | 180.8       | -2.4        |
| 12:30:24           | 25.9         | 1.5          | 0.2           | 66.2      | 180.8       | -2.4        |
| 12:31:24           | 25.4         | 1.5          | 0.2           | 66.2      | 180.8       | -2.4        |
| 12:32:24           | 25.0         | 1.4          | 0.2           | 66.2      | 180.8       | -2.4        |
| 12:33:24           | 24.6         | 1.5          | 0.2           | 66.3      | 180.8       | -2.4        |
| 12:34:24           | 23.6         | 1.5          | 0.2           | 66.3      | 180.8       | -2.4        |
| 12:35:24           | 22.7         | 1.5          | 0.2           | 66.3      | 180.8       | -2.3        |
| 12:36:24           | 23.5         | 1.4          | 0.2           | 66.2      | 180.8       | -2.3        |
| 12:37:24           | 22.5         | 1.4          | 0.2           | 66.2      | 180.8       | -2.4        |
| 12:38:24           | 22.6         | 1.5          | 0.2           | 66.2      | 180.8       | -2.3        |
| 12:39:24           | 21.9         | 1.5          | 0.2           | 66.2      | 180.8       | -2.3        |
| 12:40:24           | 21.3         | 1.5          | 0.2           | 66.2      | 180.8       | -2.4        |
| 12:41:24           | 21.5         | 1.4          | 0.2           | 66.1      | 180.8       | -2.4        |
| 12:42:24           | 20.7         | 1.4          | 0.2           | 66.1      | 180.8       | -2.3        |
| 12:43:24           | 20.6         | 1.3          | 0.2           | 66.1      | 180.8       | -2.4        |
| 12:44:24           | 20.6         | 1.4          | 0.2           | 66.0      | 180.8       | -2.4        |
| 12:45:24           | 19.7         | 1.4          | 0.2           | 66.0      | 180.8       | -2.4        |
| 12:46:24           | 19.6         | 1.4          | 0.2           | 65.9      | 180.8       | -2.3        |
| 12:47:24           | 18.9         | 1.3          | 0.2           | 66.0      | 180.8       | -2.4        |
| 12:48:24           | 18.6         | 1.3          | 0.2           | 65.9      | 180.8       | -2.3        |
| 12:49:24           | 18.7         | 1.3          | 0.2           | 66.0      | 180.8       | -2.4        |
| 12:50:24           | 18.5         | 1.3          | 0.2           | 66.0      | 180.8       | -2.3        |
| 12:51:24           | 18.0         | 1.3          | 0.2           | 66.0      | 180.8       | -2.4        |
| 12:52:24           | 17.7         | 1.3          | 0.2           | 66.0      | 180.8       | -2.4        |
| 12:53:24           | 17.6         | 1.3          | 0.2           | 66.0      | 180.8       | -2.4        |
| 12:54:24           | 17.0         | 1.4          | 0.2           | 65.9      | 180.8       | -2.3        |
| 12:55:24           | 16.8         | 1.4          | 0.2           | 65.9      | 180.8       | -2.3        |
| 12:56:24           | 16.7         | 1.4          | 0.2           | 65.8      | 180.8       | -2.3        |



Test #: 0419-01

| 04-19-1997<br>Time | THC o<br>oom | THC i<br>oom | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 12:57:24           | 16.7         | 1.3          | 0.2           | 65.7      | 180.8       | -2.4        |
| 12:58:24           | 15.9         | 1.4          | 0.2           | 65.7      | 180.8       | -2.4        |
| 12:59:24           | 15.8         | 1.4          | 0.2           | 65.7      | 180.8       | -2.4        |
| 13:00:24           | 15.8         | 1.4          | 0.2           | 65.7      | 180.8       | -2.4        |
| 13:01:24           | 15.8         | 1.3          | 0.2           | 65.7      | 180.8       | -2.4        |
| 13:02:24           | 15.8         | 1.3          | 0.2           | 65.8      | 180.8       | -2.4        |
| 13:03:24           | 14.9         | 1.3          | 0.2           | 65.8      | 180.8       | -2.3        |
| 13:04:24           | 14.7         | 1.3          | 0.2           | 65.7      | 180.8       | -2.4        |
| 13:05:24           | 14.6         | 1.3          | 0.2           | 65.9      | 180.8       | -2.4        |
| 13:06:24           | 14.6         | 1.3          | 0.2           | 65.9      | 180.8       | -2.3        |
| 13:07:24           | 14.6         | 1.3          | 0.2           | 65.9      | 180.8       | -2.4        |
| 13:08:24           | 14.5         | 1.3          | 0.2           | 65.8      | 180.8       | -2.3        |
| 13:09:24           | 13.8         | 1.3          | 0.2           | 65.8      | 180.8       | -2.4        |
| 13:10:24           | 13.6         | 1.3          | 0.2           | 65.7      | 180.8       | -2.4        |
| 13:11:24           | 13.6         | 1.3          | 0.2           | 65.8      | 180.8       | -2.4        |
| 13:12:24           | 13.6         | 1.3          | 0.2           | 65.8      | 180.8       | -2.4        |
| 13:13:24           | 13.3         | 1.3          | 0.2           | 65.7      | 180.8       | -2.4        |
| 13:14:24           | 12.8         | 1.3          | 0.2           | 65.7      | 180.8       | -2.4        |
| 13:15:24           | 12.8         | 1.3          | 0.2           | 65.7      | 180.8       | -2.3        |
| 13:16:24           | 12.3         | 1.3          | 0.2           | 65.7      | 180.8       | -2.3        |
| 13:17:24           | 12.8         | 1.3          | 0.2           | 65.6      | 180.8       | -2.4        |
| 13:18:24           | 12.8         | 1.3          | 0.2           | 65.6      | 180.8       | -2.4        |
| 13:19:24           | 12.3         | 1.2          | 0.2           | 65.6      | 180.8       | -2.4        |
| 13:20:24           | 11.8         | 1.2          | 0.2           | 65.7      | 180.8       | -2.4        |
| 13:21:24           | 11.8         | 1.2          | 0.2           | 65.6      | 180.8       | -2.4        |
| 13:22:24           | 11.8         | 1.2          | 0.2           | 65.6      | 180.8       | -2.3        |
| 13:23:24           | 11.8         | 1.2          | 0.2           | 65.6      | 180.8       | -2.3        |
| 13:24:24           | 11.8         | 1.2          | 0.2           | 65.5      | 180.8       | -2.4        |
| 13:25:24           | 11.3         | 1.2          | 0.2           | 65.5      | 180.8       | -2.3        |
| 13:26:24           | 10.8         | 1.3          | 0.2           | 65.5      | 180.8       | -2.4        |
| 13:27:24           | 10.8         | 1.3          | 0.2           | 65.6      | 180.8       | -2.3        |
| 13:28:24           | 10.8         | 1.3          | 0.2           | 65.6      | 180.9       | -2.3        |
| 13:29:24           | 10.8         | 1.3          | 0.2           | 65.6      | 180.8       | -2.3        |
| 13:30:24           | 10.8         | 1.2          | 0.2           | 65.7      | 180.8       | -2.3        |
| 13:31:24           | 10.8         | 1.2          | 0.2           | 65.6      | 180.9       | -2.4        |
| 13:32:24           | 10.6         | 1.2          | 0.2           | 65.7      | 180.9       | -2.4        |
| 13:33:24           | 10.5         | 1.2          | 0.2           | 65.7      | 180.9       | -2.3        |
| 13:34:24           | 10.4         | 1.2          | 0.2           | 65.6      | 180.8       | -2.4        |
| 13:35:24           | 9.9          | 1.2          | 0.2           | 65.6      | 180.9       | -2.4        |
| 13:36:24           | 9.8          | 1.2          | 0.2           | 65.6      | 180.8       | -2.4        |
| 13:37:24           | 9.8          | 1.2          | 0.2           | 65.7      | 180.9       | -2.4        |
| 13:38:24           | 9.8          | 1.2          | 0.2           | 65.6      | 180.9       | -2.3        |
| 13:39:24           | 9.8          | 1.2          | 0.2           | 65.6      | 180.9       | -2.4        |
| 13:40:24           | 9.8          | 1.3          | 0.2           | 65.6      | 180.8       | -2.4        |
| 13:41:24           | 9.4          | 1.2          | 0.2           | 65.6      | 180.8       | -2.4        |
| 13:42:24           | 9.3          | 1.2          | 0.2           | 65.6      | 180.8       | -2.4        |
| 13:43:24           | 9.0          | 1.2          | 0.2           | 65.5      | 180.9       | -2.4        |
| 13:44:24           | 8.8          | 1.2          | 0.2           | 65.4      | 180.9       | -2.4        |
| 13:45:24           | 8.8          | 1.3          | 0.2           | 65.5      | 180.9       | -2.3        |
| 13:46:24           | 8.8          | 1.3          | 0.2           | 65.5      | 180.9       | -2.3        |
| 13:47:24           | 8.8          | 1.3          | 0.2           | 65.6      | 180.9       | -2.4        |
| 13:48:24           | 8.8          | 1.3          | 0.2           | 65.6      | 180.9       | -2.4        |
| 13:49:24           | 8.8          | 1.3          | 0.2           | 65.6      | 180.9       | -2.4        |
| 13:50:24           | 8.8          | 1.2          | 0.2           | 65.5      | 180.9       | -2.3        |
| 13:51:24           | 8.8          | 1.2          | 0.2           | 65.6      | 180.9       | -2.3        |
| 13:52:24           | 8.8          | 1.2          | 0.2           | 65.6      | 180.9       | -2.3        |

Test #: 0419-01

| 04-19-1997<br>Time | THC o<br>oem | THC i<br>oem | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 13:53:24           | 8.8          | 1.2          | 0.2           | 65.6      | 180.9       | -2.4        |
| 13:54:24           | 8.3          | 1.2          | 0.2           | 65.7      | 180.9       | -2.4        |
| 13:55:24           | 7.8          | 1.2          | 0.2           | 65.7      | 180.9       | -2.3        |
| 13:56:24           | 7.9          | 1.2          | 0.2           | 65.7      | 180.9       | -2.4        |
| 13:57:24           | 7.8          | 1.2          | 0.2           | 65.7      | 180.9       | -2.3        |
| 13:58:24           | 7.8          | 1.3          | 0.2           | 65.7      | 180.9       | -2.3        |
| 13:59:24           | 7.8          | 1.2          | 0.2           | 65.7      | 180.9       | -2.4        |
| 14:00:24           | 7.8          | 1.3          | 0.2           | 65.7      | 180.9       | -2.4        |
| 14:01:24           | 7.8          | 1.3          | 0.2           | 65.7      | 180.9       | -2.4        |
| 14:02:24           | 7.8          | 1.3          | 0.2           | 65.7      | 180.9       | -2.4        |
| 14:03:24           | 7.8          | 1.3          | 0.2           | 65.7      | 180.9       | -2.4        |
| 14:04:24           | 7.4          | 1.3          | 0.2           | 65.7      | 180.9       | -2.4        |
| 14:05:24           | 7.1          | 1.3          | 0.2           | 65.7      | 180.9       | -2.4        |
| 14:06:24           | 6.8          | 1.3          | 0.2           | 65.7      | 180.9       | -2.4        |
| 14:07:24           | 7.0          | 1.3          | 0.2           | 65.7      | 180.9       | -2.4        |
| 14:08:24           | 6.8          | 1.2          | 0.2           | 65.7      | 180.9       | -2.3        |
| 14:09:24           | 6.7          | 1.3          | 0.2           | 65.7      | 180.9       | -2.4        |
| Avg =              | 210.5        | 1.7          | 0.2           | 67.5      | 187.0       | -2.3        |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-19-1997 Current Time = 14:11:28

File Name = c:\ceadata\041997.PRM Calibration File: c:\ceadata\0419a.CAL

Test #: Post-1 out 600 in 0

| 04-19-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 14:11:29           | 605.6        | 0.1          | 0.2           | 65.7      | 180.8       | -2.3        |
| 14:11:34           | 605.4        | 0.1          | 0.2           | 65.7      | 180.9       | -2.4        |
| 14:11:44           | 606.3        | -0.3         | 0.2           | 65.6      | 180.8       | -2.3        |
| 14:11:54           | 606.2        | -0.4         | 0.2           | 65.7      | 180.8       | -2.4        |
| 14:12:04           | 605.7        | -0.4         | 0.2           | 65.6      | 180.8       | -2.3        |
| 14:12:14           | 606.3        | -0.4         | 0.2           | 65.6      | 180.8       | -2.3        |
| 14:12:24           | 606.3        | -0.5         | 0.2           | 65.6      | 180.8       | -2.4        |
| 14:12:34           | 605.7        | -0.5         | 0.2           | 65.6      | 180.8       | -2.4        |
| 14:12:44           | 605.6        | -0.5         | 0.2           | 65.6      | 180.8       | -2.4        |
| 14:12:54           | 606.3        | -0.5         | 0.2           | 65.6      | 180.8       | -2.4        |
| 14:13:04           | 605.4        | -0.5         | 0.2           | 65.6      | 180.8       | -2.4        |
| Avg =              | 605.9        | -0.3         | 0.2           | 65.6      | 180.8       | -2.4        |

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

Marine

Clinton, WA

Performed for: NWMA

Date Printed = 04-19-1997 Current Time = 14:15:31

File Name = c:\cendata\041997.PRM Calibration File: c:\cendata\0419a.CAL

Test #: Post-1 out 297 in 30.4

| 04-19-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|

|          |       |      |     |      |       |      |
|----------|-------|------|-----|------|-------|------|
| 14:15:32 | 297.0 | 29.6 | 0.2 | 65.7 | 180.9 | -2.4 |
| 14:15:34 | 295.7 | 29.6 | 0.3 | 65.5 | 180.8 | -2.3 |
| 14:15:44 | 295.8 | 29.6 | 0.2 | 65.7 | 180.9 | -2.4 |
| 14:15:54 | 295.9 | 29.6 | 0.2 | 65.7 | 180.9 | -2.3 |
| 14:16:04 | 295.8 | 29.7 | 0.2 | 65.7 | 180.9 | -2.4 |
| 14:16:14 | 295.8 | 29.6 | 0.2 | 65.7 | 180.9 | -2.4 |
| 14:16:24 | 295.8 | 29.6 | 0.2 | 65.7 | 180.9 | -2.3 |
| 14:16:34 | 295.9 | 29.6 | 0.2 | 65.6 | 180.9 | -2.4 |
| 14:16:44 | 295.8 | 29.6 | 0.2 | 65.7 | 180.9 | -2.4 |
| 14:16:54 | 295.9 | 29.7 | 0.2 | 65.7 | 180.9 | -2.3 |
| 14:17:04 | 295.9 | 29.7 | 0.2 | 65.7 | 180.9 | -2.4 |
| 14:17:14 | 295.9 | 29.7 | 0.2 | 65.7 | 180.9 | -2.4 |

|       |       |      |     |      |       |      |
|-------|-------|------|-----|------|-------|------|
| Avg = | 295.9 | 29.6 | 0.2 | 65.7 | 180.9 | -2.4 |
|-------|-------|------|-----|------|-------|------|

RADIAN CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for: NMMA

Date Printed = 04-19-1997 Current Time = 14:19:59

File Name = c:\ceadata\041997.PRM Calibration File:c:\ceadata\0419a.CAL

Test #: Post-1 out 0 in 15

| 04-19-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 14:20:00           | -0.0         | 14.6         | 0.2           | 65.5      | 180.9       | -2.4        |
| 14:20:04           | -0.0         | 14.6         | 0.2           | 65.5      | 180.9       | -2.3        |
| 14:20:14           | -0.0         | 14.6         | 0.2           | 65.6      | 180.9       | -2.4        |
| 14:20:24           | -0.0         | 14.6         | 0.2           | 65.6      | 180.9       | -2.4        |
| 14:20:34           | -0.0         | 14.6         | 0.2           | 65.6      | 180.9       | -2.4        |
| 14:20:44           | -0.0         | 14.6         | 0.2           | 65.6      | 180.9       | -2.4        |
| 14:20:54           | -0.0         | 14.6         | 0.2           | 65.6      | 180.9       | -2.4        |
| 14:21:04           | -0.0         | 14.6         | 0.2           | 65.6      | 180.9       | -2.4        |
| 14:21:14           | -0.0         | 14.6         | 0.2           | 65.6      | 180.9       | -2.4        |
| Avg =              | -0.0         | 14.6         | 0.2           | 65.6      | 180.9       | -2.4        |

## RADIANT CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

Marine

Clinton, WA

Performed for:

NNA

Date Printed = 04-19-1997 Current Time = 14:27:17

File Name = c:\cendata\041997.PRM Calibration File: c:\cendata\0419a.CAL

Test #: Out 122 styrene

| 04-19-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 14:27:20           | 303.7        | 1.4          | 0.2           | 65.6      | 180.9       | -2.4        |
| 14:27:24           | 303.7        | 1.4          | 0.2           | 65.6      | 180.9       | -2.4        |
| 14:27:34           | 303.6        | 1.4          | 0.2           | 65.6      | 180.9       | -2.4        |
| 14:27:44           | 303.7        | 1.4          | 0.2           | 65.5      | 180.9       | -2.3        |
| 14:27:54           | 303.7        | 1.4          | 0.2           | 65.5      | 180.9       | -2.4        |
| 14:28:04           | 303.7        | 1.3          | 0.2           | 65.5      | 180.9       | -2.4        |
| 14:28:14           | 304.3        | -0.4         | 0.2           | 65.5      | 180.9       | -2.4        |
| 14:28:24           | 304.7        | -1.0         | 0.2           | 65.5      | 180.9       | -2.4        |
| 14:28:34           | 304.5        | -1.0         | 0.2           | 65.5      | 180.8       | -2.4        |
| 14:28:44           | 304.7        | -1.0         | 0.2           | 65.5      | 180.8       | -2.4        |
| 14:28:54           | 304.7        | -1.0         | 0.2           | 65.5      | 180.8       | -2.4        |
| 14:29:04           | 304.8        | -1.0         | 0.2           | 65.5      | 180.9       | -2.4        |
| 14:29:14           | 304.8        | -1.0         | 0.2           | 65.5      | 180.9       | -2.3        |
| 14:29:24           | 304.7        | -1.0         | 0.2           | 65.5      | 180.9       | -2.4        |
| 14:29:34           | 304.8        | -1.0         | 0.2           | 65.5      | 180.9       | -2.4        |
| 14:29:44           | 304.7        | -1.0         | 0.2           | 65.5      | 180.9       | -2.4        |
| 14:29:54           | 304.8        | -1.0         | 0.2           | 65.5      | 180.9       | -2.4        |
| Avg =              | 304.3        | -0.1         | 0.2           | 65.5      | 180.9       | -2.4        |

RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, WA  
 Performed for: ~~XXXX~~  
 Date Printed = 04-19-1997 Current Time = 14:37:08  
 File Name = c:\ceadata\041997.PRW Calibration File: c:\ceadata\0419a.CAL

Test #: Out 59.2 styrene

| 04-19-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 14:37:11           | 141.6        | -1.0         | 0.2           | 65.5      | 180.9       | -2.4        |
| 14:37:13           | 141.6        | -1.0         | 0.2           | 65.5      | 180.9       | -2.4        |
| 14:37:14           | 141.6        | -1.0         | 0.2           | 65.5      | 180.9       | -2.4        |
| 14:37:24           | 141.6        | -1.0         | 0.2           | 65.5      | 180.9       | -2.3        |
| 14:37:34           | 141.6        | -3.8         | 0.2           | 65.5      | 180.9       | -2.4        |
| 14:37:44           | 141.6        | 0.1          | 0.2           | 65.4      | 180.9       | -2.3        |
| 14:37:54           | 141.6        | 0.1          | 0.2           | 65.5      | 180.9       | -2.4        |
| 14:38:04           | 141.6        | 0.1          | 0.2           | 65.4      | 180.9       | -2.3        |
| 14:38:14           | 141.6        | 0.1          | 0.2           | 65.4      | 180.9       | -2.3        |
| 14:38:24           | 141.6        | 0.1          | 0.2           | 65.5      | 180.9       | -2.4        |
| 14:38:34           | 140.9        | 0.1          | 0.2           | 65.4      | 180.9       | -2.4        |
| 14:38:44           | 140.6        | 0.1          | 0.2           | 65.4      | 180.9       | -2.4        |
| 14:38:54           | 140.6        | 0.1          | 0.2           | 65.4      | 180.9       | -2.4        |
| 14:39:04           | 141.5        | 0.1          | 0.2           | 65.5      | 180.9       | -2.4        |
| 14:39:14           | 141.6        | 0.1          | 0.2           | 65.5      | 180.9       | -2.4        |
| 14:39:24           | 141.6        | 0.1          | 0.2           | 65.5      | 180.9       | -2.3        |
| 14:39:34           | 141.6        | 0.1          | 0.2           | 65.5      | 180.9       | -2.4        |
| 14:39:44           | 141.6        | 0.1          | 0.2           | 65.5      | 180.9       | -2.4        |
| 14:39:54           | 141.6        | 0.1          | 0.2           | 65.5      | 180.9       | -2.4        |
| 14:40:04           | 141.6        | 0.1          | 0.2           | 65.5      | 180.9       | -2.3        |
| 14:40:14           | 141.6        | 0.1          | 0.2           | 65.5      | 180.9       | -2.3        |
| 14:40:24           | 141.6        | 0.1          | 0.2           | 65.4      | 180.9       | -2.3        |
| Avg =              | 141.5        | -0.3         | 0.2           | 65.5      | 180.9       | -2.4        |

## RADIANT CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

6 Marine

Arlington, WA

Performed for:

MMA

Date Printed = 04-19-1997 Current Time = 14:44:57

File Name = c:\ceedata\041997.PRM Calibration File: c:\ceedata\0419a.CAL

Test #: Towel test ore bkand

| 04-19-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 14:45:01           | 5.7          | 0.1          | 0.2           | 65.3      | 180.9       | -2.3        |
| 14:45:02           | 5.7          | 0.1          | 0.2           | 65.3      | 180.9       | -2.3        |
| 14:45:04           | 5.7          | 0.1          | 0.2           | 65.3      | 180.9       | -2.3        |
| 14:45:05           | 5.7          | 0.1          | 0.2           | 65.3      | 180.9       | -2.3        |
| 14:45:07           | 5.7          | 0.1          | 0.2           | 65.3      | 180.9       | -2.3        |
| 14:45:09           | 5.7          | 0.1          | 0.2           | 65.3      | 180.9       | -2.3        |
| 14:45:10           | 5.7          | 0.1          | 0.2           | 65.3      | 180.9       | -2.3        |
| 14:45:14           | 5.8          | 0.1          | 0.3           | 65.2      | 180.9       | -2.4        |
| 14:45:24           | 5.7          | 0.1          | 0.2           | 65.3      | 180.9       | -2.4        |
| 14:45:34           | 5.7          | 0.1          | 0.2           | 65.2      | 180.9       | -2.4        |
| 14:45:44           | 5.7          | 0.1          | 0.2           | 65.3      | 180.9       | -2.4        |
| 14:45:54           | 5.7          | 0.1          | 0.2           | 65.2      | 180.9       | -2.3        |
| 14:46:04           | 5.7          | 0.1          | 0.2           | 65.2      | 180.9       | -2.3        |
| 14:46:14           | 5.7          | 0.1          | 0.2           | 65.2      | 180.9       | -2.4        |
| 14:46:24           | 5.7          | 0.1          | 0.2           | 65.3      | 180.9       | -2.4        |
| Avg =              | 5.7          | 0.1          | 0.2           | 65.3      | 180.9       | -2.4        |



## RADIANT CORPORATION

Environmental Measurement and Analysis Department

Continuous Emissions Monitoring Data

US Marine

Arlington, WA

Performed for:

NMMF

Date Printed = 04-19-1997 Current Time = 14:49:26

File Name = c:\cendata\041997.PRM Calibration File:c:\cendata\0419a.CAL

Test #: Towel test

| 04-19-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 14:49:30           | 5.3          | 0.1          | 0.2           | 64.9      | 190.0       | -2.3        |
| 14:50:24           | 5.2          | 0.1          | 0.2           | 64.9      | 183.6       | -2.3        |
| 14:51:24           | 33.2         | 0.1          | 0.2           | 64.8      | 181.0       | -2.3        |
| 14:52:24           | 50.9         | 0.1          | 0.2           | 64.8      | 181.0       | -2.3        |
| 14:53:24           | 75.0         | 0.1          | 0.2           | 65.0      | 181.0       | -2.4        |
| 14:54:24           | 94.9         | 0.1          | 0.2           | 65.3      | 181.0       | -2.4        |
| 14:55:24           | 101.8        | 0.1          | 0.2           | 65.4      | 181.0       | -2.4        |
| 14:56:24           | 112.1        | 0.1          | 0.2           | 65.4      | 181.0       | -2.4        |
| 14:57:24           | 126.7        | 0.1          | 0.2           | 65.4      | 181.0       | -2.4        |
| 14:58:24           | 136.5        | 0.1          | 0.2           | 65.4      | 181.0       | -2.4        |
| 14:59:24           | 139.5        | 0.1          | 0.2           | 65.4      | 181.0       | -2.4        |
| 15:00:24           | 141.8        | 0.1          | 0.2           | 65.4      | 181.0       | -2.4        |
| 15:01:24           | 149.2        | 0.1          | 0.2           | 65.4      | 181.0       | -2.4        |
| 15:02:24           | 149.8        | 0.1          | 0.2           | 65.3      | 181.0       | -2.4        |
| 15:03:24           | 155.0        | 0.1          | 0.2           | 65.3      | 181.0       | -2.4        |
| 15:04:24           | 153.5        | 0.1          | 0.2           | 65.3      | 181.0       | -2.4        |
| 15:05:24           | 176.8        | 0.1          | 0.2           | 65.3      | 176.1       | -2.3        |
| 15:06:24           | 217.3        | 0.1          | 0.2           | 65.3      | 11.1        | -2.4        |
| 15:07:24           | 251.8        | 0.1          | 0.2           | 65.3      | -1.3        | -2.4        |
| 15:08:24           | 272.1        | 0.1          | 0.2           | 65.3      | -1.3        | -2.3        |
| 15:09:24           | 298.1        | 0.1          | 0.2           | 65.3      | 20.5        | -2.4        |
| 15:10:24           | 301.8        | 0.1          | 0.2           | 65.3      | 98.5        | -2.4        |
| 15:11:24           | 301.5        | 0.1          | 0.2           | 65.2      | 98.5        | -2.4        |
| 15:12:24           | 320.2        | 0.1          | 0.2           | 65.2      | 98.5        | -2.4        |
| 15:13:24           | 320.7        | 0.1          | 0.2           | 65.2      | 98.5        | -2.4        |
| 15:14:24           | 317.9        | 0.1          | 0.2           | 65.1      | 98.5        | -2.4        |
| 15:15:24           | 304.9        | 0.1          | 0.2           | 65.2      | 98.5        | -2.4        |
| 15:16:24           | 303.7        | 0.1          | 0.2           | 65.2      | 98.5        | -2.4        |
| 15:17:24           | 301.8        | 0.1          | 0.2           | 65.1      | 98.5        | -2.4        |
| 15:18:24           | 292.6        | 0.1          | 0.2           | 65.2      | 98.5        | -2.4        |
| 15:19:24           | 287.0        | 0.1          | 0.2           | 65.2      | 115.5       | -2.4        |
| 15:20:24           | 247.2        | 0.1          | 0.2           | 65.0      | 198.7       | -2.3        |
| 15:21:24           | 209.5        | 0.1          | 0.2           | 65.0      | 198.7       | -2.4        |
| 15:22:24           | 172.2        | 0.1          | 0.2           | 65.1      | 198.7       | -2.4        |
| 15:23:24           | 135.4        | 0.1          | 0.2           | 65.2      | 262.4       | -2.4        |
| 15:24:24           | 107.6        | 0.1          | 0.2           | 65.1      | 298.7       | -2.4        |
| 15:25:24           | 86.0         | 0.1          | 0.2           | 65.1      | 298.7       | -2.4        |
| 15:26:24           | 69.7         | 0.1          | 0.2           | 65.2      | 326.6       | -2.3        |
| 15:27:24           | 57.2         | 0.1          | 0.2           | 65.1      | 398.8       | -2.4        |
| 15:28:24           | 43.5         | 0.1          | 0.2           | 65.0      | 398.8       | -2.4        |

Test #: Towel test

| 04-19-1997<br>Time | THC o<br>oem | THC i<br>oem | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|
| 15:29:24           | 33.4         | 0.1          | 0.2           | 64.9      | 476.0       | -2.4        |
| 15:30:24           | 29.6         | 0.1          | 0.2           | 64.9      | 498.7       | -2.4        |
| 15:31:24           | 26.6         | 0.1          | 0.2           | 64.9      | 498.7       | -2.4        |
| 15:32:24           | 23.4         | 0.1          | 0.2           | 64.9      | 498.6       | -2.4        |
| 15:33:24           | 20.0         | 0.1          | 0.2           | 64.7      | 464.2       | -2.4        |
| 15:34:24           | 17.5         | 0.1          | 0.2           | 64.7      | 177.2       | -2.4        |
| 15:35:24           | 15.7         | 0.1          | 0.2           | 64.8      | 98.9        | -2.4        |
| 15:36:24           | 13.8         | 0.1          | 0.2           | 64.8      | 98.9        | -2.4        |
| 15:37:24           | 12.3         | 0.1          | 0.2           | 64.9      | 98.9        | -2.4        |
| 15:38:24           | 11.2         | 0.1          | 0.2           | 64.9      | 98.9        | -2.4        |
| 15:39:24           | 10.0         | 0.1          | 0.2           | 64.9      | 98.9        | -2.4        |
| 15:40:24           | 9.2          | 0.1          | 0.2           | 64.8      | -117.7      | -2.4        |
| 15:41:24           | 8.8          | 0.1          | 0.2           | 64.8      | -443.1      | -2.4        |
| 15:42:24           | 7.9          | 0.1          | 0.2           | 64.7      | -441.5      | -2.4        |
| 15:43:24           | 7.5          | 0.1          | 0.2           | 64.7      | -442.1      | -2.4        |
| 15:44:24           | 6.7          | 0.1          | 0.2           | 64.6      | -442.6      | -2.4        |
| 15:45:24           | 6.6          | 0.1          | 0.2           | 64.6      | -443.1      | -2.4        |
| 15:46:24           | 5.9          | 0.1          | 0.2           | 64.7      | -443.7      | -2.4        |
| 15:47:24           | 5.7          | 0.1          | 0.2           | 64.7      | -444.0      | -2.4        |
| 15:48:24           | 5.8          | 0.1          | 0.2           | 64.6      | -443.7      | -2.4        |
| 15:49:24           | 5.3          | 0.1          | 0.2           | 64.5      | -443.9      | -2.4        |
| 15:50:24           | 4.9          | 0.1          | 0.2           | 64.4      | -444.1      | -2.4        |
| 15:51:24           | 4.9          | 0.1          | 0.2           | 64.4      | -446.8      | -2.4        |
| 15:52:24           | 4.9          | 0.1          | 0.2           | 64.4      | -444.3      | -2.4        |
| 15:53:24           | 4.9          | 0.1          | 0.2           | 64.5      | -444.9      | -2.4        |
| 15:54:24           | 4.9          | 0.1          | 0.2           | 64.6      | -445.1      | -2.4        |
| 15:55:24           | 4.9          | 0.1          | 0.2           | 64.6      | -445.4      | -2.3        |
| =====              |              |              |               |           |             |             |
| Avg =              | 109.5        | 0.1          | 0.2           | 65.0      | 45.2        | -2.4        |
| =====              |              |              |               |           |             |             |

RADIAN CORPORATION  
 Environmental Measurement and Analysis Department  
 Continuous Emissions Monitoring Data  
 US Marine  
 Arlington, MA  
 Performed for: ~~NSM~~  
 Date Printed = 04-19-1997 Current Time = 15:56:06  
 File Name = c:\cemdata\041997.PRM Calibration File: c:\cemdata\0419a.CAL

Test #: Post T test bknd

| 04-19-1997<br>Time | THC o<br>ppm | THC i<br>ppm | Flow<br>inH2O | Temp<br>F | Resin<br>lb | Ps<br>inH2O |  |  |  |  |  |
|--------------------|--------------|--------------|---------------|-----------|-------------|-------------|--|--|--|--|--|
| 15:56:11           | 4.9          | 0.1          | 0.2           | 64.7      | -513.6      | -2.3        |  |  |  |  |  |
| 15:56:13           | 4.9          | 0.1          | 0.2           | 64.7      | -513.6      | -2.3        |  |  |  |  |  |
| 15:56:14           | 4.9          | 0.1          | 0.2           | 64.7      | -513.6      | -2.3        |  |  |  |  |  |
| 15:56:24           | 4.9          | 0.1          | 0.2           | 64.6      | -455.4      | -2.4        |  |  |  |  |  |
| 15:56:34           | 4.9          | 0.1          | 0.2           | 64.6      | -436.9      | -2.4        |  |  |  |  |  |
| 15:56:44           | 4.9          | 0.1          | 0.2           | 64.6      | -437.7      | -2.4        |  |  |  |  |  |
| 15:56:54           | 4.9          | 0.1          | 0.2           | 64.6      | -438.5      | -2.4        |  |  |  |  |  |
| 15:57:04           | 4.9          | 0.1          | 0.2           | 64.6      | -438.4      | -2.4        |  |  |  |  |  |
| 15:57:14           | 4.9          | 0.1          | 0.2           | 64.6      | -438.4      | -2.4        |  |  |  |  |  |
| 15:57:24           | 4.9          | 0.1          | 0.2           | 64.5      | -438.7      | -2.4        |  |  |  |  |  |
| 15:57:34           | 4.9          | 0.1          | 0.2           | 64.5      | -438.7      | -2.4        |  |  |  |  |  |
| 15:57:44           | 4.9          | 0.1          | 0.2           | 64.5      | -438.7      | -2.4        |  |  |  |  |  |
| 15:57:54           | 4.9          | 0.1          | 0.2           | 64.5      | -439.0      | -2.4        |  |  |  |  |  |
| 15:58:04           | 4.9          | 0.1          | 0.2           | 64.5      | -438.9      | -2.4        |  |  |  |  |  |
| Avg =              | 4.9          | 0.1          | 0.2           | 64.6      | -455.7      | -2.4        |  |  |  |  |  |

