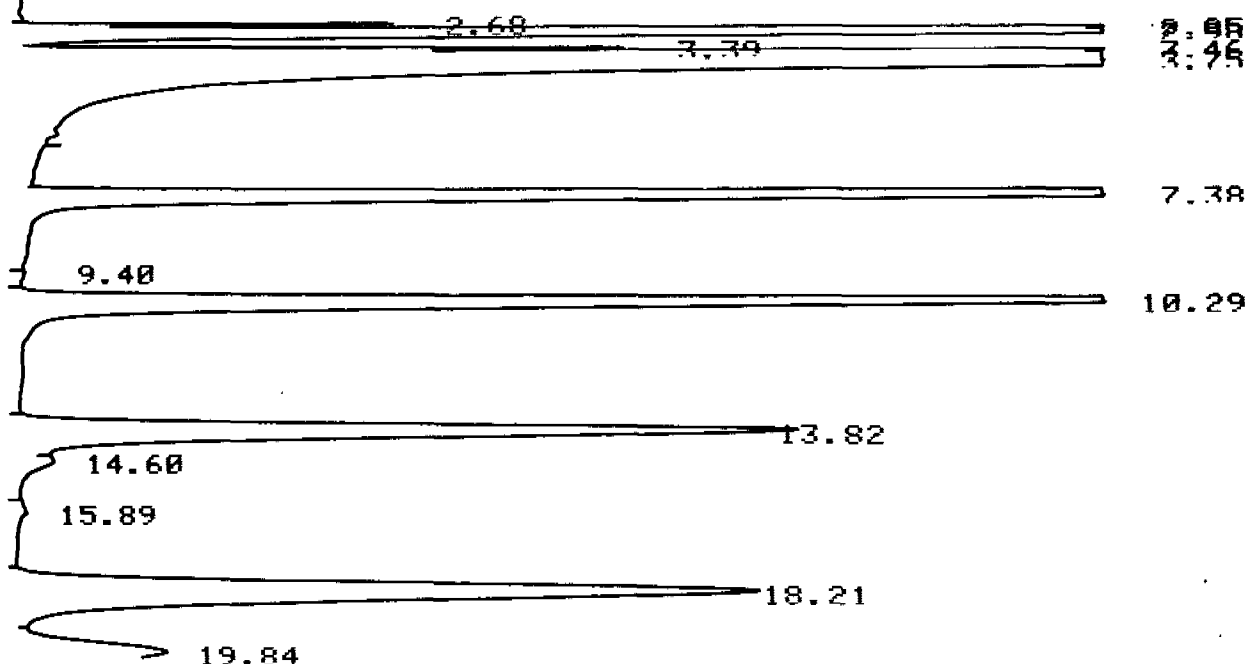


Practice Badge Calibration

5/9/84

DELETE CHANGE RUN @
CHANGE RUN 1 STOP
OPTN # 3 @
INJ/BTL, STROKE: 1 1 @
START



HP RUN # 1
ID: 1-10
ESTD

MAY/09/84
BOTTLE 1

TIME 09:11:43

RT	EXP RT	AREA	CAL #	AMT
2.68	2.68	342	(R) 1	4.4457 E+ 6

DIL FACTOR: 1.0000 E+ 0

HP RUN # 1
ID: 1-10
AREA %

MAY/09/84
BOTTLE 1

TIME 09:11:78

RT	AREA	AREA %
----	------	--------

DO 104975
CONFIDENTIAL

2.98	4215	7.939
3.39	827	1.558
3.46	2110	3.974
3.75	19130	36.032
7.38	7674	14.454
10.29	6440	12.130
13.82	4642	8.743
14.60	255	0.480
15.89	79	0.149
18.21	5549	10.452
19.84	132	0.249

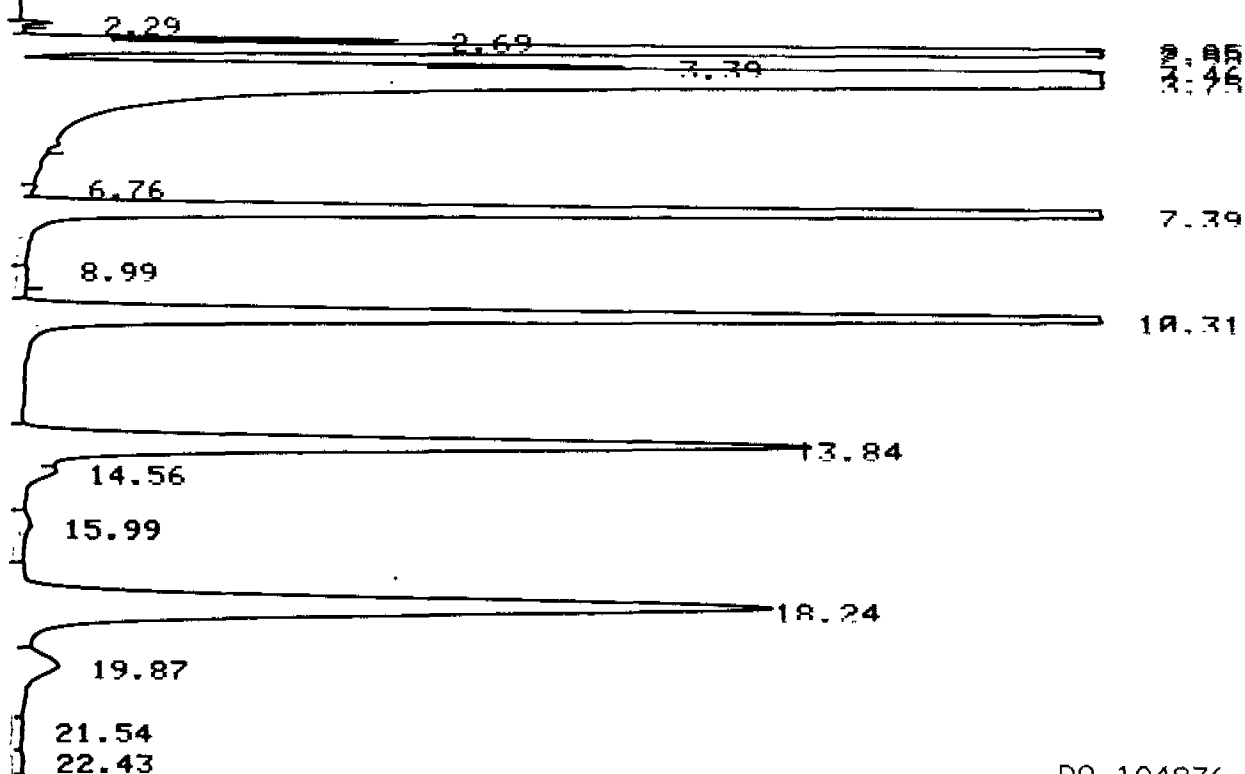
DIL FACTOR: 1.0000 E+ 0

NO METHOD ESTD

TEMP1 150 125 125
 TIME1 20.00
 INJ TEMP 400 250 250
 FID TEMP 400 300 300
 AUX TEMP 175 100 100
 ESCAPE
 TIME 09:11:96
 DELETE ESCAPE
 TIME1 4 0 0

TEMP1 150 125 125
 TIME1 40.00
 INJ TEMP 400 250 250
 FID TEMP 400 300 300

ESCAPE
 DELETE CHANGE RUN 0
 CHANGE RUN 0 0
 CHANGE RUN 1 STOP
 OPTN # 3 0
 INJ/BTL STROKE: 1 1 0
 STOP ESCAPE
 START



27.53

28.89

31.41

31.87

33.59

35.75

HP RUN # 1
ID:1-10
ESTD

MAY/09/84
BOTTLE 1

TIME 09:11:95

RT	EXP RT	AREA
2.29	2.29	33

CAL #	AMT
(R) 1	204.240

DIL FACTOR: 1.0000 E+ 0

HP RUN # 1
ID:1-10
AREA %

MAY/09/84
BOTTLE 1

TIME 09:11:30

RT	AREA	AREA %
2.29	33	0.050
2.69	347	0.521
2.85	1721	2.582
2.98	4274	6.413
3.39	824	1.236
3.46	1906	2.860
3.75	19160	28.750
7.39	7296	10.948
10.31	6460	9.693
13.84	4703	7.057
14.56	265	0.398
15.99	108	0.162
18.24	6048	9.075
19.87	472	0.708
21.54	31	0.047
22.43	35	0.053
23.93	6554	9.834
27.53	32	0.048
28.89	123	0.185
31.41	219	0.329
31.87	35	0.053
33.59	129	0.194
35.75	5869	8.806

DIL FACTOR: 1.0000 E+ 0

CALIB ESTD

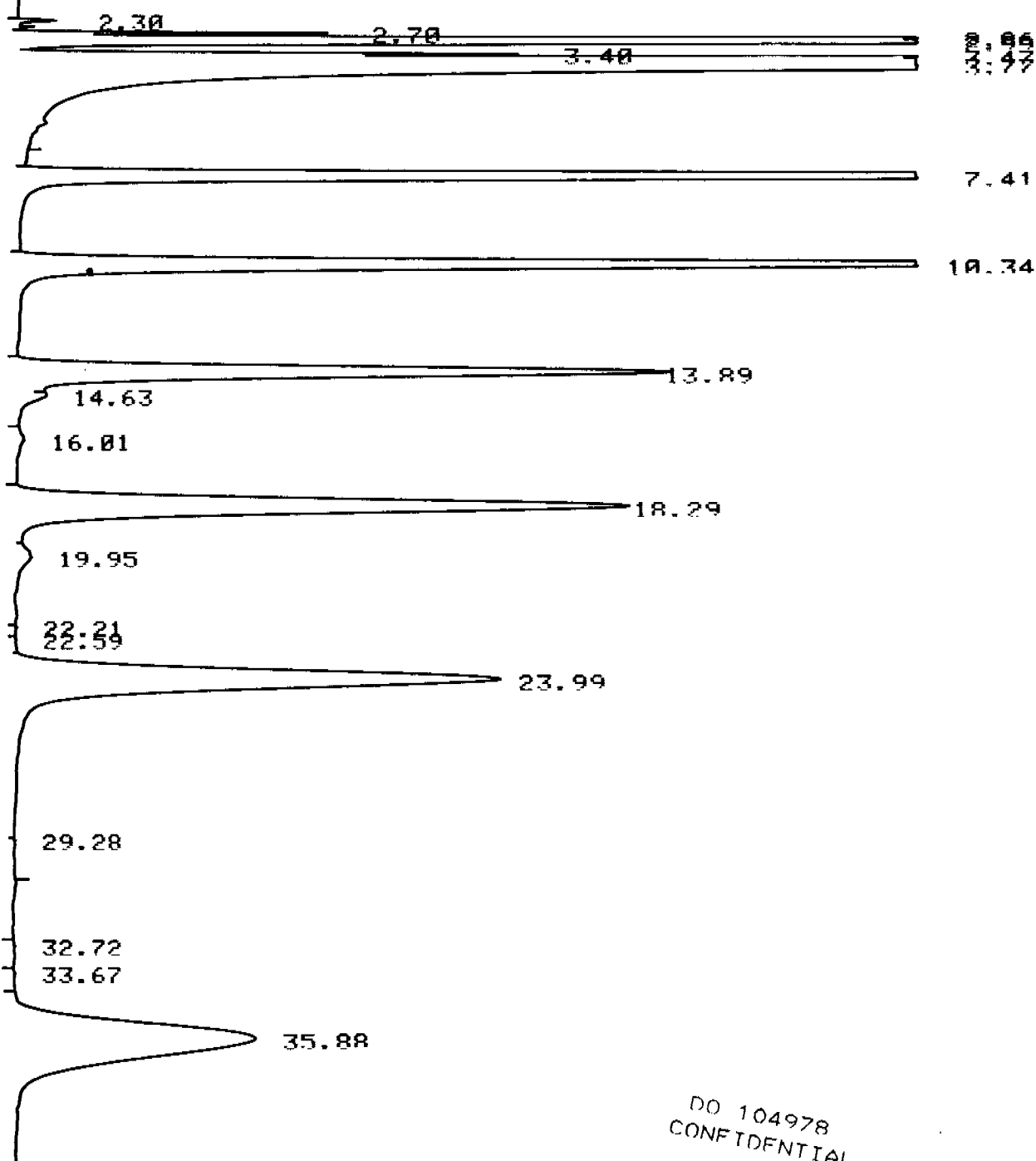
DO 104977
CONFIDENTIAL

RT.
REF: 3 . 4 6
: 7 . 3 9
: 1 0 . 3 1
: 1 3 . 8 4
: 1 8 . 2 4
: 2 3 . 9 3
: 3 5 . 7 5
:

AMT
: 9 9 . 9
: 1 2 6 3 . 1 2
: 1 1 4 7 . 0 4
: 1 1 6 5 . 2 5
: 1 0 2 1 . 4 8
: 1 2 0 5 . 4
: 1 1 1 3 . 9 5

DIL FACTOR:

READY
DELETE CHANGE RUN @
CHANGE RUN 0 @
CHANGE RUN 1 STOP
OPTN # 3 @
INJ/BTL, STROKE: 1 1 @
START



DO 104978
CONFIDENTIAL

HP RUN # 1
ID:1-10
ESTD

MAY/09/84
BOTTLE 1

TIME 09:11:49

RT	EXP RT	AREA	CAL #	AMT
3.47	3.46	2059	(R) 1	107.919
7.41	7.41	7276	2	1259.66
10.34	10.33	6484	3	1151.30
13.89	13.88	4695	4	1163.27
18.29	18.29	5869	5	991.251
23.99	23.99	6572	6	1200.71
35.88	35.85	5748	7	1090.98

DIL FACTOR: 1.0000 E+ 0

CALIB 2 @

READY
CALIB @

READY
ESTD

% RTW: 7.00

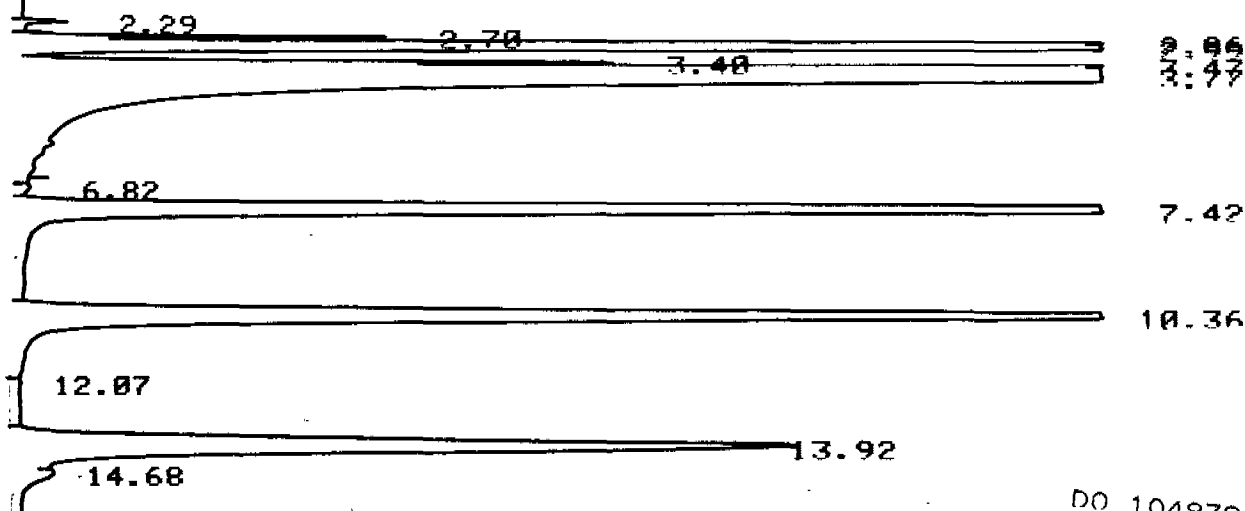
CALIB RUNS 3

CAL #	RT	AMT	AMT/AREA
(R) 1	3.46	9.9900 E+ 1	5.0250 E- 2
2	7.39	1.2631 E+ 3	1.7339 F- 1
3	10.32	1.1470 E+ 3	1.7720 F- 1
4	13.86	1.1653 E+ 3	2.4800 E- 1
5	18.26	1.0215 E+ 3	1.7176 E- 1
6	23.96	1.2054 E+ 3	1.8364 E- 1
7	35.82	1.1140 E+ 3	1.9202 E- 1

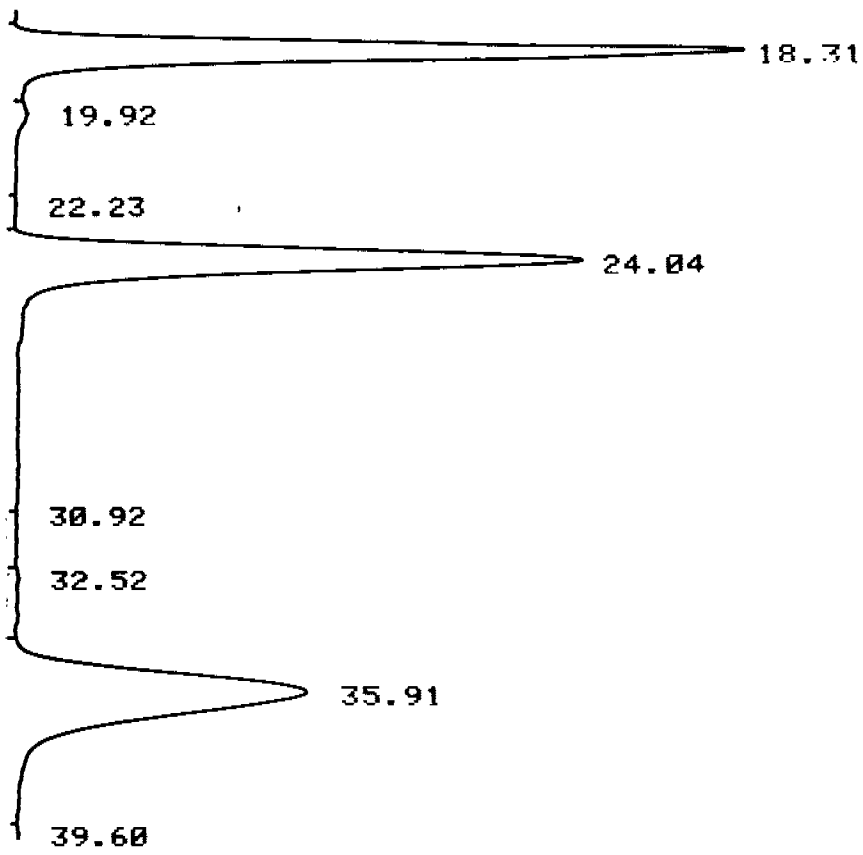
DIL FACTOR: 1.0000 E+ 0

DELETE CHANGE RUN @
STOP ESCAPE
DELETE CHANGE RUN @
CHANGE RUN 0 @
CHANGE RUN 1 @
CHANGE RUN 1 STOP

OPTN # 3 @
INJ/BTL,STROKE: 1 1 @
START



DO 104979
CONFIDENTIAL



HP RUN # 2
ID: 1-10
STD

MAY/09/84
BOTTLE 1

TIME 09:11:42

RT	EXP RT	AREA	CAL #	AMT
3.47	3.46	1899	(R) 1	95.424
7.42	7.41	7148	2	1239.39
10.36	10.34	6332	3	1122.00
13.92	13.90	4640	4	1150.73
18.31	18.31	5831	5	1001.52
24.04	24.02	6432	6	1181.16
35.91	35.92	5773	7	1108.54

DIL FACTOR: 1.0000 E+ 0

START
STOP

HP RUN # 3
AREAS?

MAY/09/84

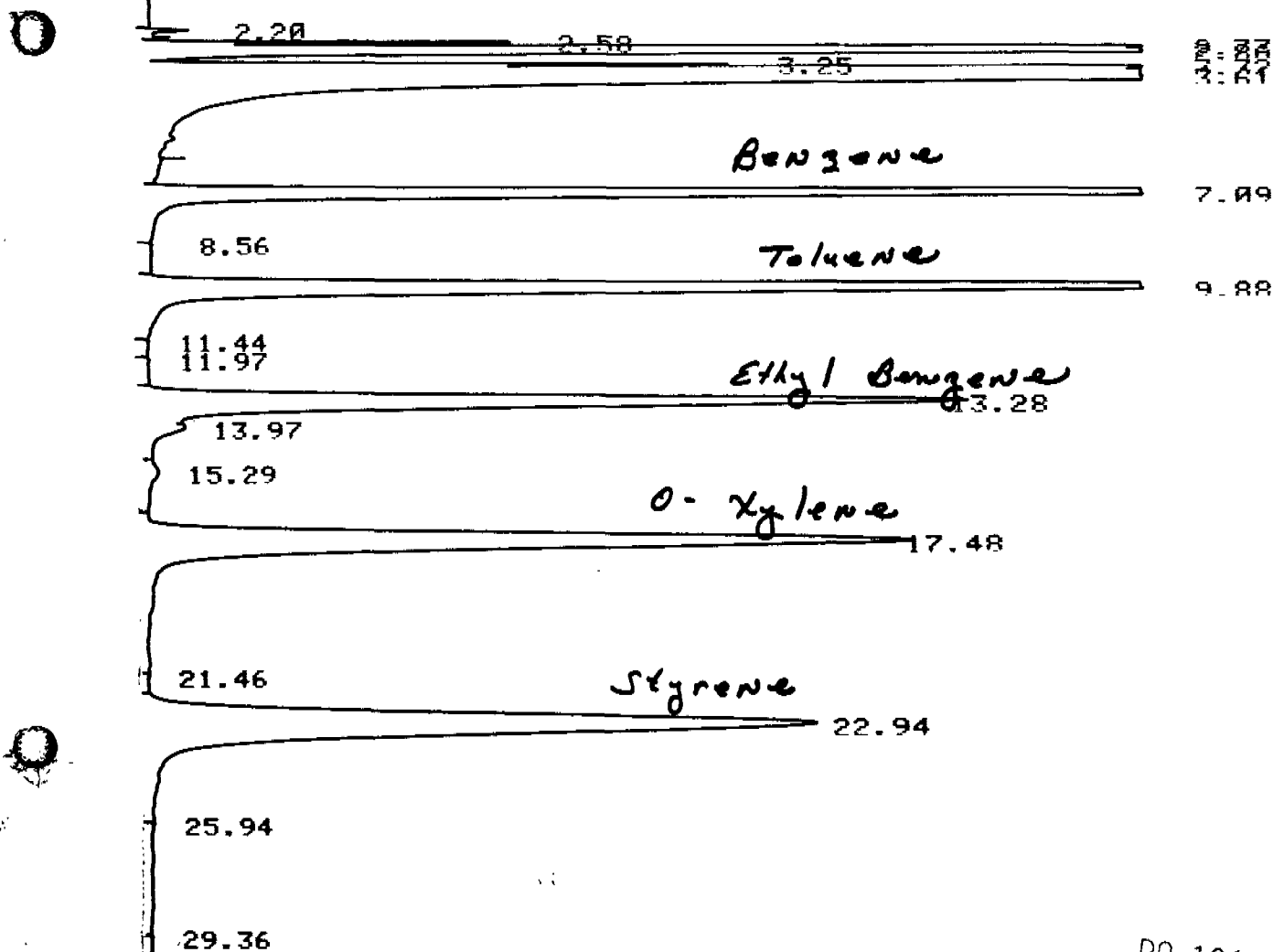
TIME 09:11:00

Calibration 5-14-84

TEMP1 150 125 125
TIME1 40.00
INJ TEMP 400 250 250
FID TEMP 400 300 300
AUX TEMP 175 100 100

CHT SPD 0.50
ZERO 10.0
ATTN 2↑ 1
FID SGNL +B
SLP SENS 0.01
AREA REJ 25
FLOW A 35.0 35.0
FLOW B 20.0 19.7

START



α-Methyl Styrene

34.29

STOP

HP RUN # 2
ID: 1-10
AREA %

MAY/09/84
BOTTLE 34

RT	AREA	AREA %
2.20	42	0.066
2.58	341	0.535
2.73	1688	2.650
2.86	4251	6.673
3.25	839	1.317
3.32	2148	3.372
3.61	15930	25.006
7.09	6416	10.071
9.88	6746	10.589
13.28	5061	7.944
13.97	282	0.443
15.29	185	0.290
17.48	6428	10.090
21.46	31	0.049
22.94	7594	11.921
25.94	258	0.405
29.36	62	0.097
34.29	5403	8.481

DIL FACTOR: 1.0000 E+ 0

CALIB ESTD
% RTW: 5

REF:	RT	AMT
3	6.1	1.0000
7	8.9	1.2631
9	8.8	1.1470
13	2.8	1.1653
17	4.8	1.0215
22	9.4	1.2054
35	8.2	1.1140
34	2.9	1.1140

DIL FACTOR: 1

READY
ESTD

% RTW: 5.00

CALIB RUNS 1

CAL #	RT	AMT	AMT/AREA
(R) 1	3.61	1.0000 E+ 3	6.2775 E- 2
2	7.09	1.2631 E+ 4	1.9687 E+ 0
3	9.88	1.1470 E+ 4	1.7003 E+ 0
4	13.28	1.1653 E+ 4	2.3075 E+ 0
5	17.48	1.0215 E+ 4	1.5891 E+ 0
6	22.94	1.2054 E+ 4	1.5873 E+ 0
7	34.29	1.1140 E+ 4	2.0618 E+ 0

DIL FACTOR: 1.0000 E+ 0

% RTW: 5

RT
REF: 3 . 6 1
: 7 . ESCAPE

AMT
: 1 0 0 0

CALIB ESTD

% RTW: 5

RT
REF: 3 . 6 1
: 7 . 0 9
: 9 . 8 8
: 1 3 . 2 8
: 1 7 . 4 8
: 2 2 . 9 4
: 3 4 . 2 9
: 0

AMT
: 1 0 0 0
: 1 2 6 3 . 1
: 1 1 4 7
: 1 1 6 5 . 3
: 1 0 2 1 . 5
: 1 2 0 5 . 4
: 1 1 1 4

#1

DIL FACTOR: 1

READY
ESTD

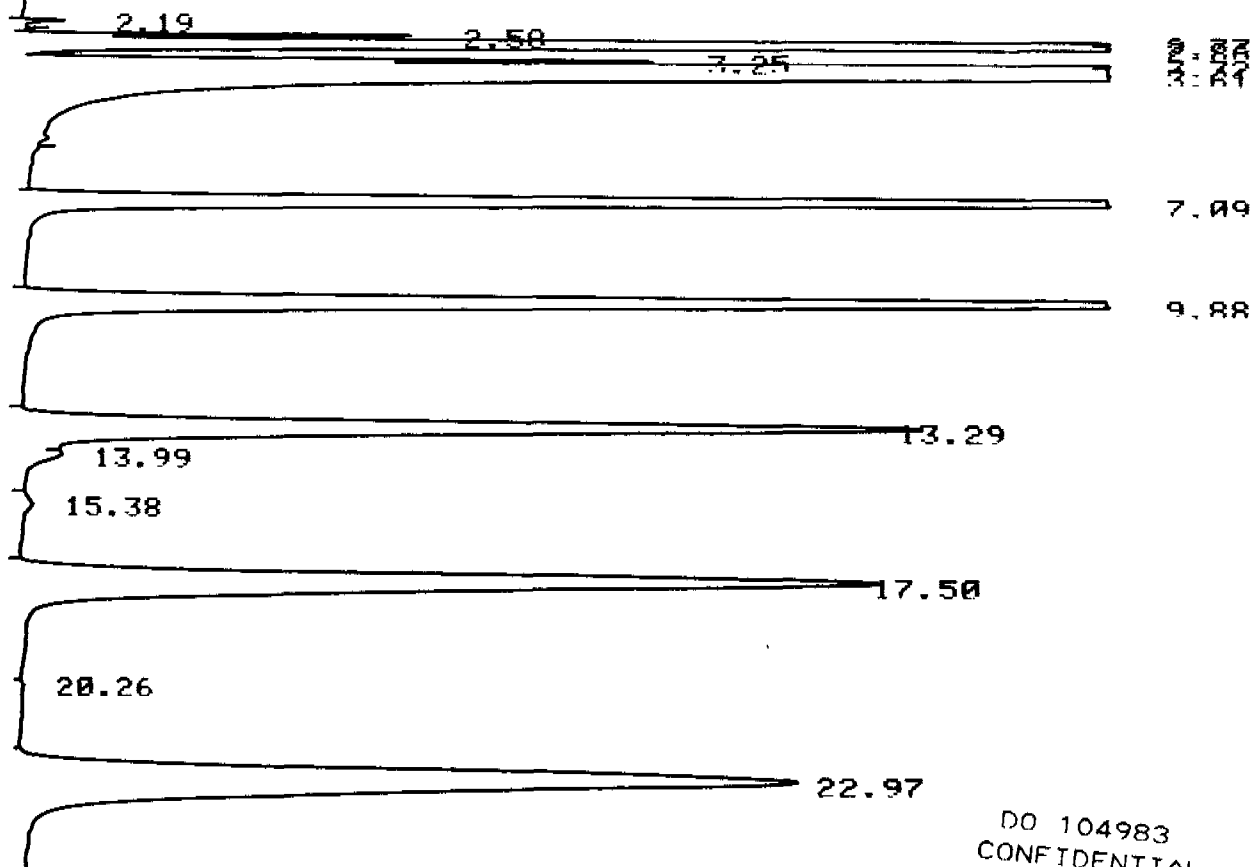
% RTW: 5.00

CALIB RUNS 1

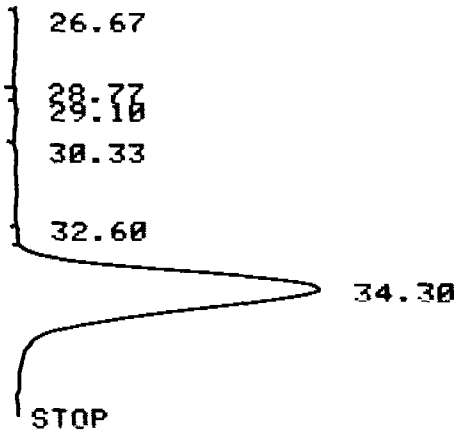
CAL #	RT	AMT	AMT/AREA
(R) 1	3.61	1.0000 E+ 3	6.2775 F- 2
2	7.09	1.2631 E+ 3	1.9687 E- 1
3	9.88	1.1470 E+ 3	1.7003 E- 1
4	13.28	1.1653 E+ 3	2.3025 E- 1
5	17.48	1.0215 E+ 3	1.5891 E- 1
6	22.94	1.2054 E+ 3	1.5873 E- 1
7	34.29	1.1140 E+ 3	2.0618 E- 1

OIL FACTOR: 1.0000 E+ 0

START



DO 104983
CONFIDENTIAL



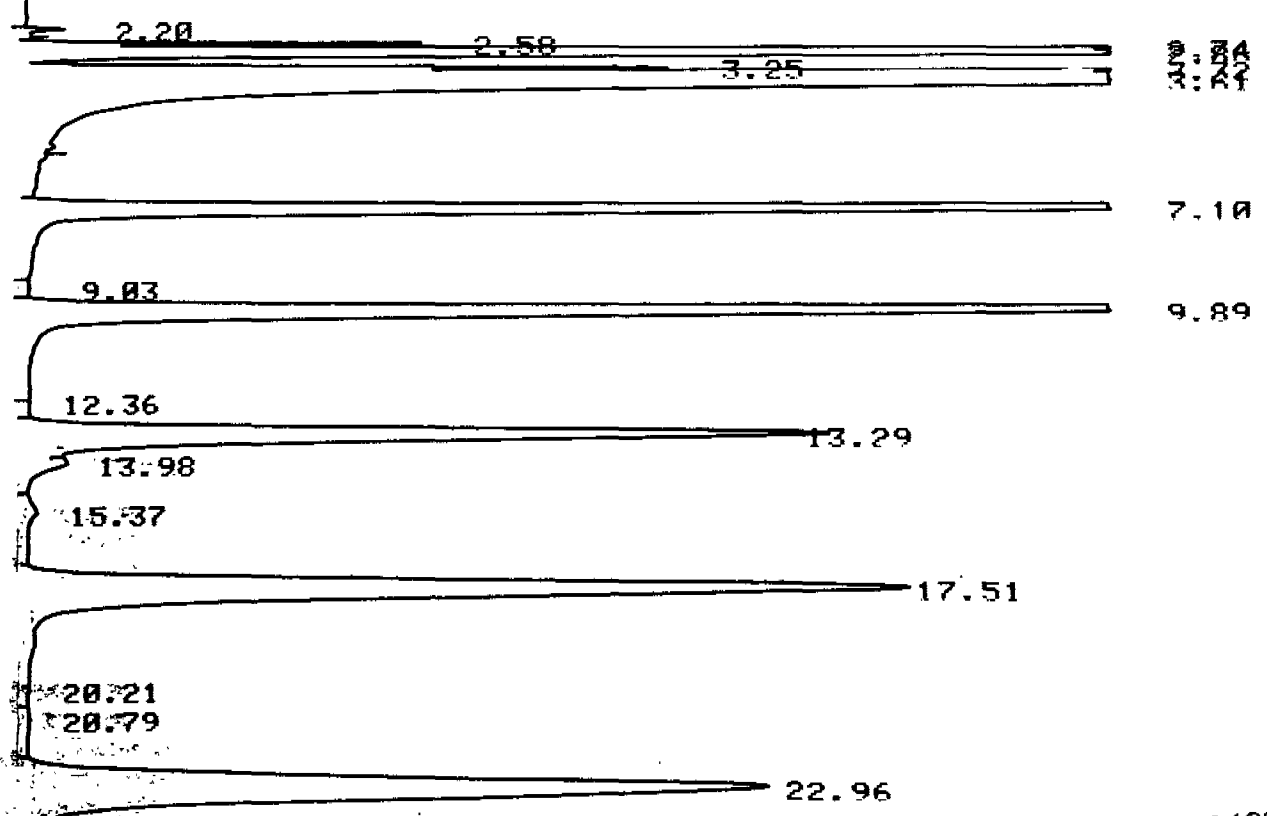
HP RUN # 3 MAY/09/84
ID:1-10 BOTTLE 23
ESTD

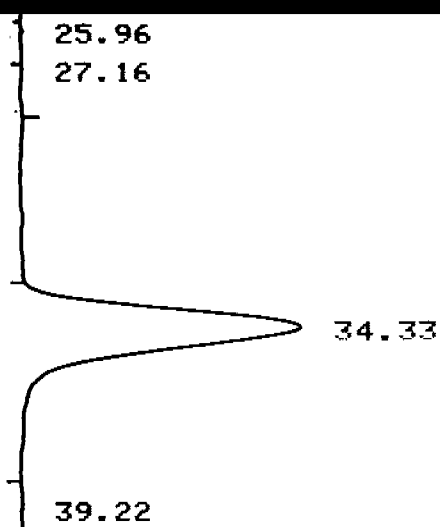
RT	EXP RT	AREA	CAL #	AMT
3.61	3.61	15690	(R) 1	984.933
7.09	7.09	6360	2	1252.07
9.88	9.88	6752	3	1148.02
13.29	13.28	5066	4	1166.45
17.50	17.48	6556	5	1041.84
22.97	22.94	8054	6	1278.42
34.30	34.29	5743	7	1184.10

#2

DIL FACTOR: 1.0000 E+ 0

ALIB @
READY
START





HP RUN # 4 MAY/09/84
ID: 1-10 BOTTLE 22
ESCAPE
STOP @

HP RUN # 4 MAY/09/84
ID: 1-10 BOTTLE 23
AREA %

RT	AREA	AREA %
2.20	37	0.060
2.58	338	0.544
2.74	1713	2.758
2.86	4258	6.854
3.25	836	1.346
3.32	1932	3.110
3.61	15940	25.660
7.10	6212	10.000
9.89	6478	10.428
13.29	4511	7.262
13.98	261	0.420
15.37	73	0.118
17.51	6704	10.792
20.79	29	0.047
22.96	7530	12.122
27.16	57	0.092
34.33	5186	8.348
39.22	26	0.042

DIL FACTOR: 1.0000 E+ 0

CALIB @

READY
ESTD

% RTW: 5.00

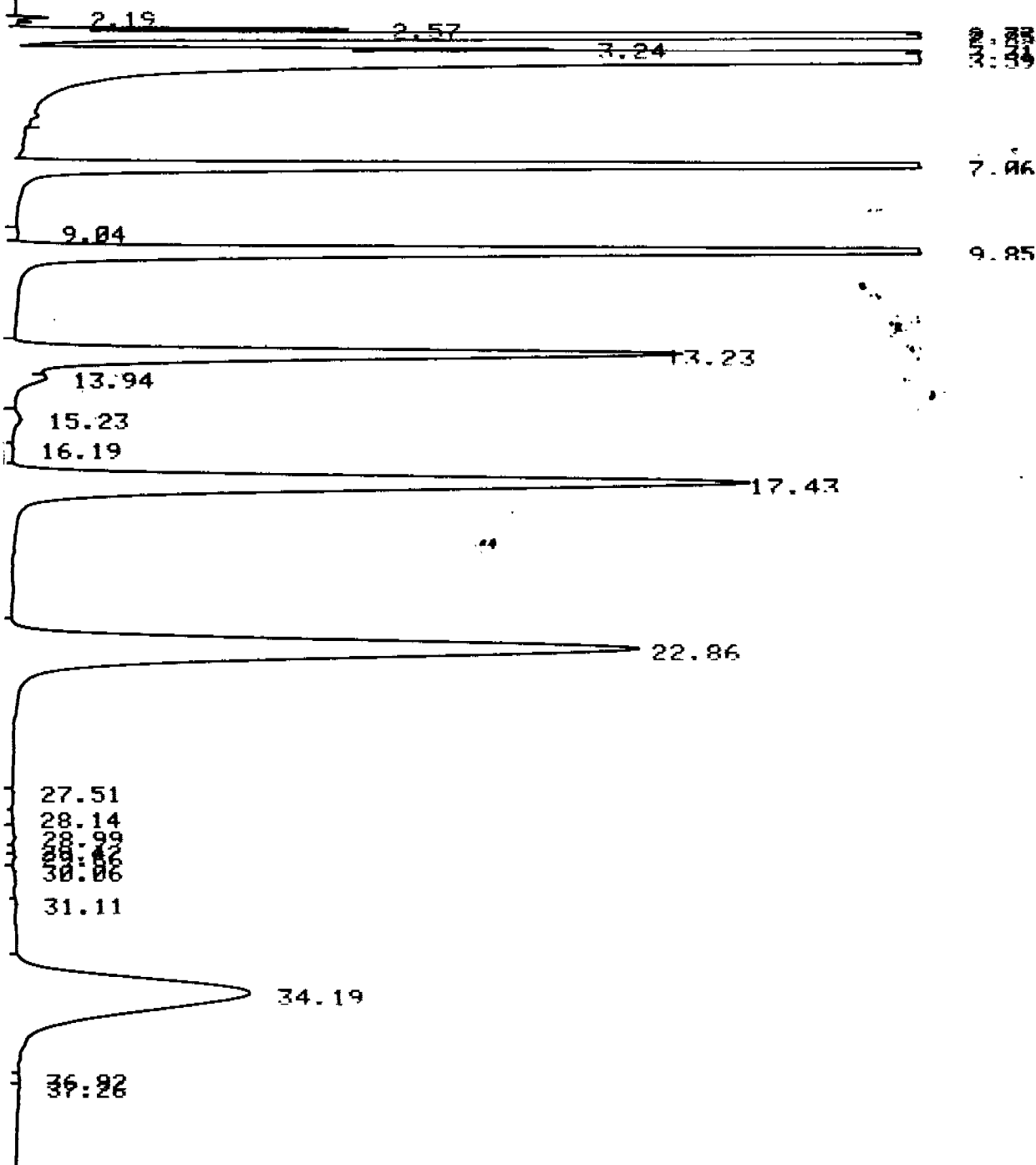
CALIB RIINS 3

CAL #	RT	AMT	AMT/AREA
(R) 1	3.61	1.0000 E+ 3	6.3082 E- 2
2	7.09	1.2631 E+ 3	1.9960 E- 1
3	9.88	1.1470 E+ 3	1.7232 E- 1
4	13.28	1.1653 E+ 3	2.3953 E- 1
5	17.49	1.0215 E+ 3	1.5570 E- 1
6	22.95	1.2054 E+ 3	1.5616 E- 1

#3

DIL FACTOR: 1.0000 E+ 0

START



HP RUN # 5
ID: 1-10
ESTD

MAY/09/84
BOTTLE 22

RT	EXP RT	AREA	CONC	#	AMT
3.59	3.61	16		1	1016.88
7.96	7.05	6		2	1231.33

DO 104986
CONFIDENTIAL

TEMP1 150 125 125
 TIME1 40.00
 INJ TEMP 400 250 250
 FID TEMP 400 300 300
 AUX TEMP 175 100 100

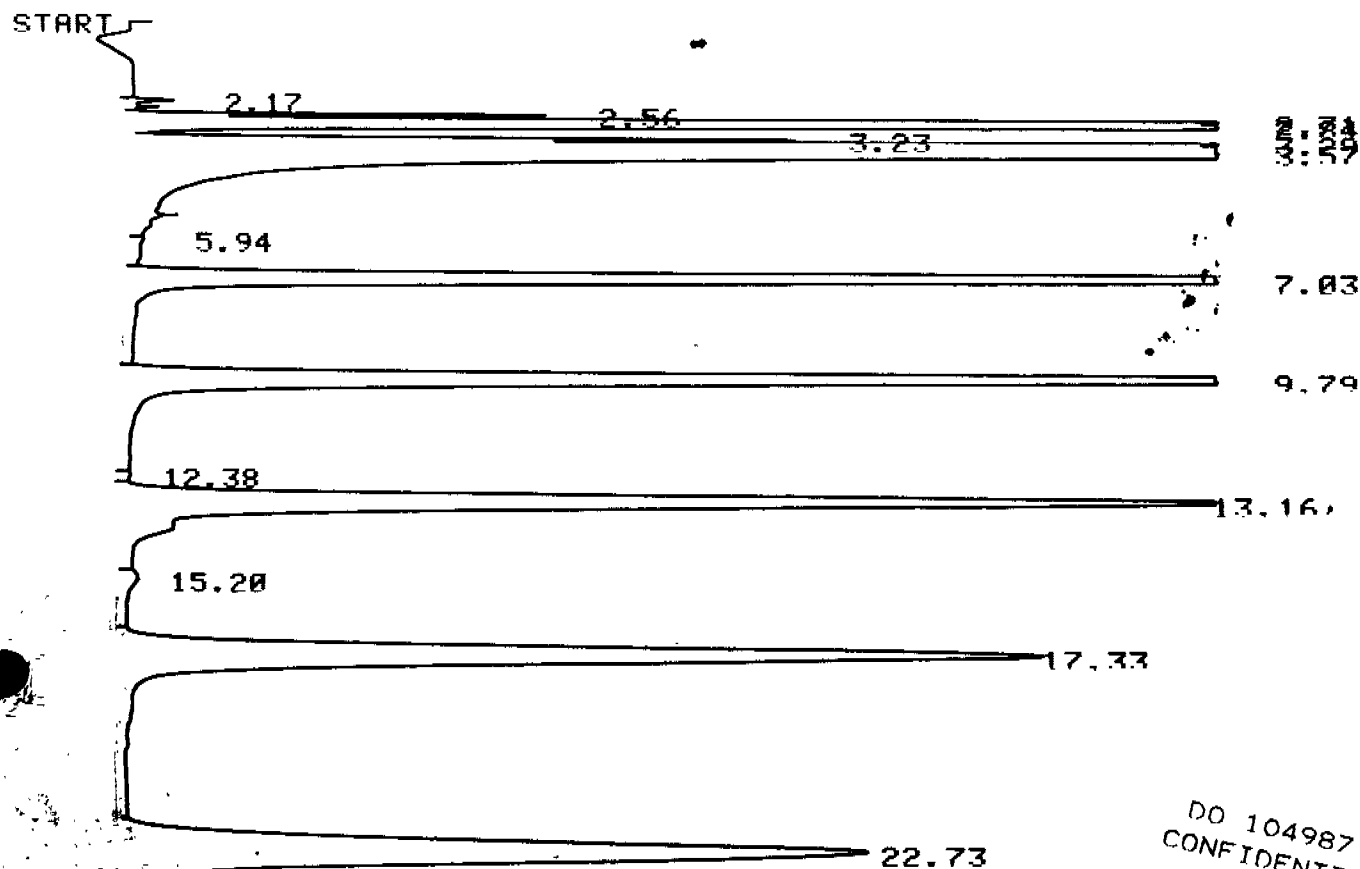
List Conditions
 5/15/84

CHT SPD 0.50
 ZERO 10.0
 ATTN 2↑ 1
 FID SGNL +B
 SLP SENS 0.01
 AREA REJ 25
 FLOW A 35.0 35.4
 FLOW B 20.0 19.9

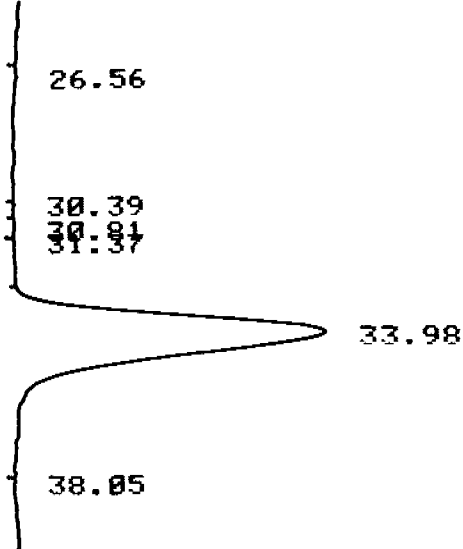
ESTD
 % RTW: 5.00 CALIB RUNS 3

CAL #	RT	AMT	AMT/AREA
(R) 1	3.61	1.0000 E+ 3	6.3082 E- 2
2	7.09	1.2631 E+ 3	1.9960 E- 1
3	9.88	1.1470 E+ 3	1.7232 E- 1
4	13.28	1.1653 E+ 3	2.3953 E- 1
5	17.49	1.0215 E+ 3	1.5570 E- 1
6	22.95	1.2054 E+ 3	1.5616 E- 1
7	34.30	1.1140 E+ 3	2.0499 E- 1

DIL FACTOR: 1.0000 E+ 0



DO 104987
 CONFIDENTIAL



Calibration
Check 1

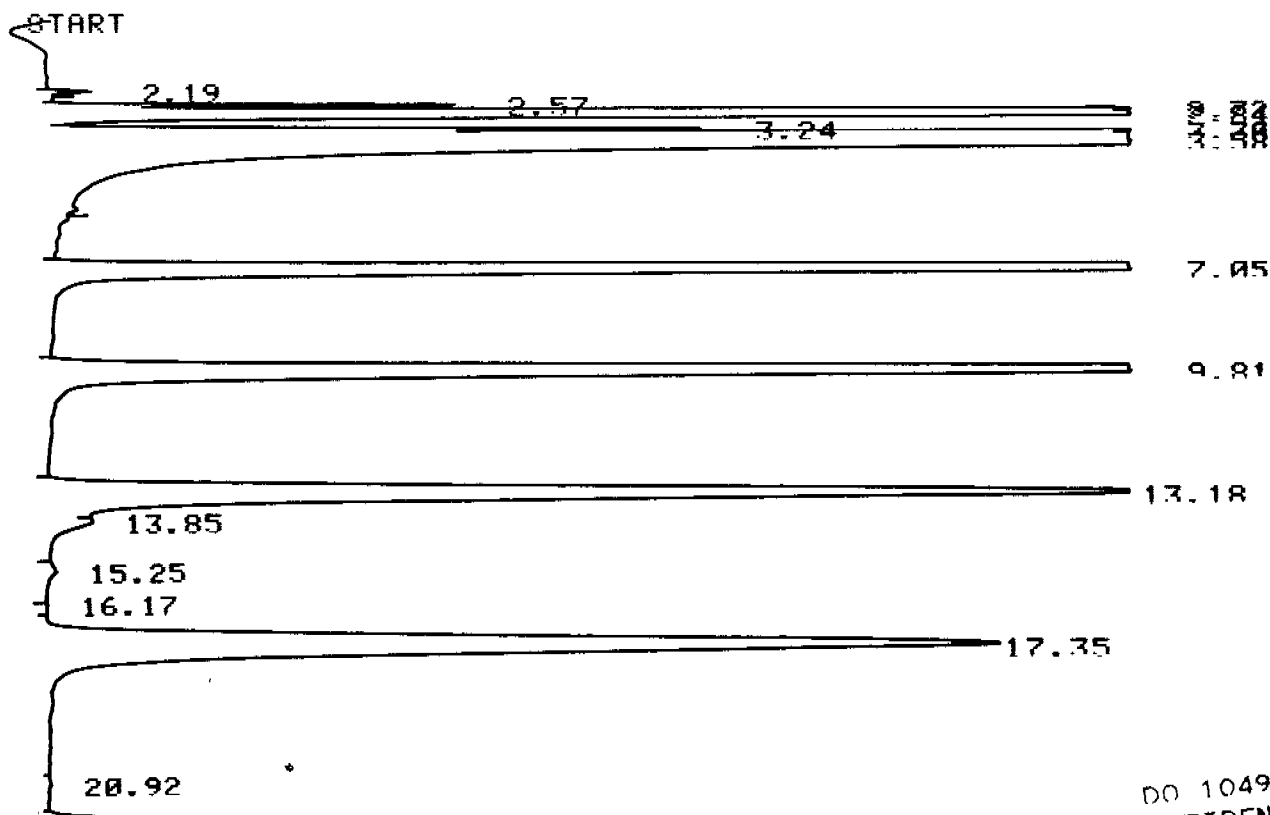
HP RUN # 7
ID: 1-10
ESTD

MAY/09/84
BOTTLE 36

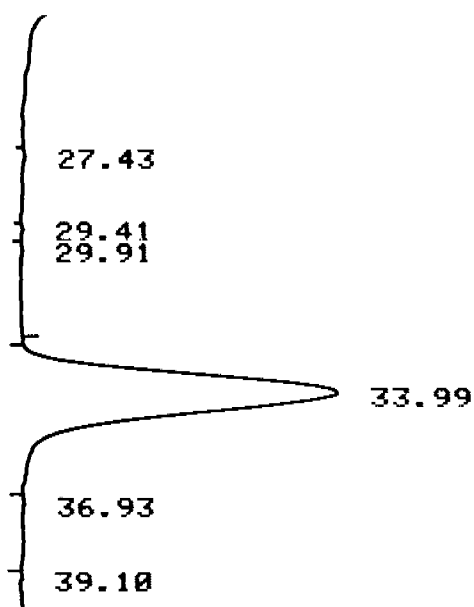
RT	EXP RT	AREA	CAL #	AMT	std	%
3.57	3.61	16270	(R) 1	1026.34	1000	
7.03	7.01	7512	2	1499.40	1263	18.7
9.79	9.77	6918	3	1192.12	1147	3.9
13.16	13.13	6546	4	1567.98	1653	5.2
17.33	17.29	6810	5	1060.31	1022	3.7
22.73	22.69	7320	6	1143.08	1205	5.1
33.98	33.91	5827	7	1194.47	1114	2.1

DIL FACTOR: 1.0000 E+ 0

STOP



DO 104988
CONFIDENTIAL



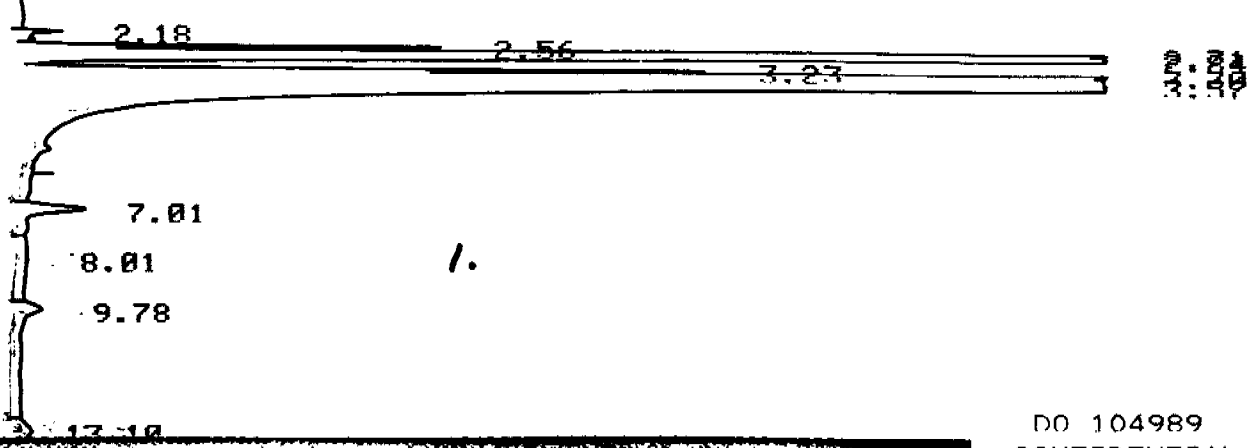
HP RUN # 8 MAY/09/84
 ID: 1-10 BOTTLE 36
 ESTD

RT	EXP RT	AREA	CAL #	AMT	Std	% Error
3.58	3.61	16560	(R) 1	1044.63	1000	
7.05	7.03	7490	2	1495.00	1293	15.6
9.81	9.79	7066	3	1217.63	1147	9.5
13.18	13.16	6209	4	1487.26	1658	10.0
17.35	17.34	7072	5	1101.10	1022	2.7
22.76	22.75	7578	6	1183.37	1205	1.8
33.99	34.01	5711	7	1170.69	1114	5.0

DIL FACTOR: 1.0000 E+ 0

STOP ESCAPE
 CHANGE RUN STOP
 DELETE CHANGE RUN @
 CHANGE RUN STOP
 CHANGE RUN 1 @ @
 DELETE CHANGE RUN @
 CHANGE RUN 1 @ @
 DELETE CHANGE RUN @
 CHANGE RUN 1 ESCAPE
 CHANGE RUN 5 STOP
 OPTN # 3 @
 INJ/BTL STROKE: 1 1 @
 START

*Benzene calibration
 is off. Correction to
 RRF $\frac{1500}{1800} = \frac{.1989}{x}$
 $x = .1732$
 Be Am x $\frac{.8466}{.1732}$ - correct factor*



16.41
17.17
18.49
19.37
20.07
20.72

22.62

24.79

28.79
28.74
30.35

33.65

36.73

We have compounds showing up on blanks. we also see material in solvent. we have contaminated solvent or tank residual due to syring. will calculate ppm subtracting background and full numbers. - Ave

B	32.7	35	35	34
T	37	10	20	22
CB	63	-	-	21
X	15	-	-	5
S	20	21	-	14
	45	-	-	15

HP RUN # 11
ID: 1-10
ESTD

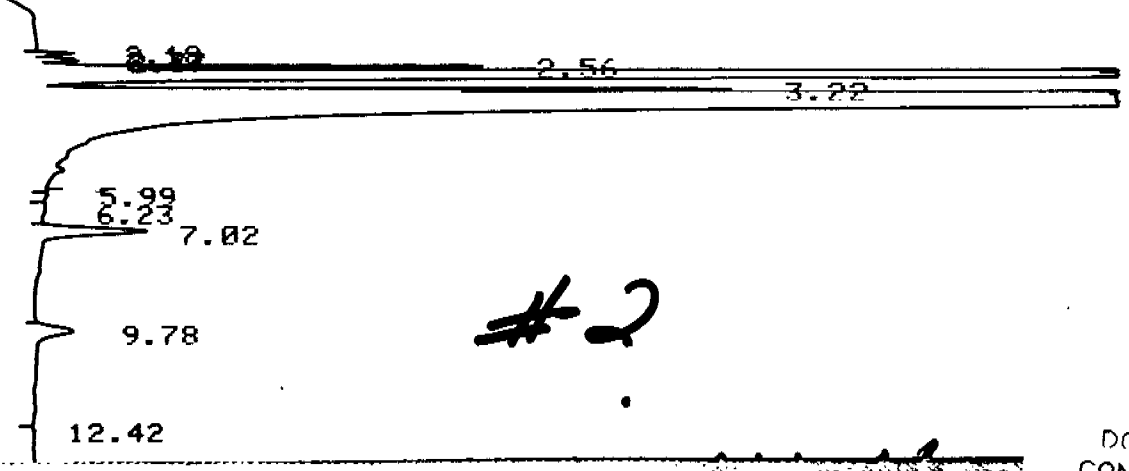
MAY/04/84
BOTTLE 1

RT	EXP RT	AREA	CAL #	AMT
3.57	3.61	16690	(R) 1	1052.83
7.01	7.01	201	2	40.120
9.78	9.77	121	3	20.851
13.10	13.13	267	4	63.955
17.17	17.29	98	5	15.259
22.62	22.69	135	6	21.082
33.65	33.91	220	7	45.098

35 B
20 T
63 CB
15 X
21 S
45

DIL FACTOR: 1.0000 E+ 0

START



16.18

18.24

20.32

22.61

25.13

28.74

29.82

30.43

32.46

33.25

34.44

35.37

39.42

~~Mike Jenkins~~~~5.5.84~~

Ben 80T

5-15-84 Days

~~432042~~ .433752

6:30 → 480

600 min

HP RUN # 12
ID: 1-10
ESTD

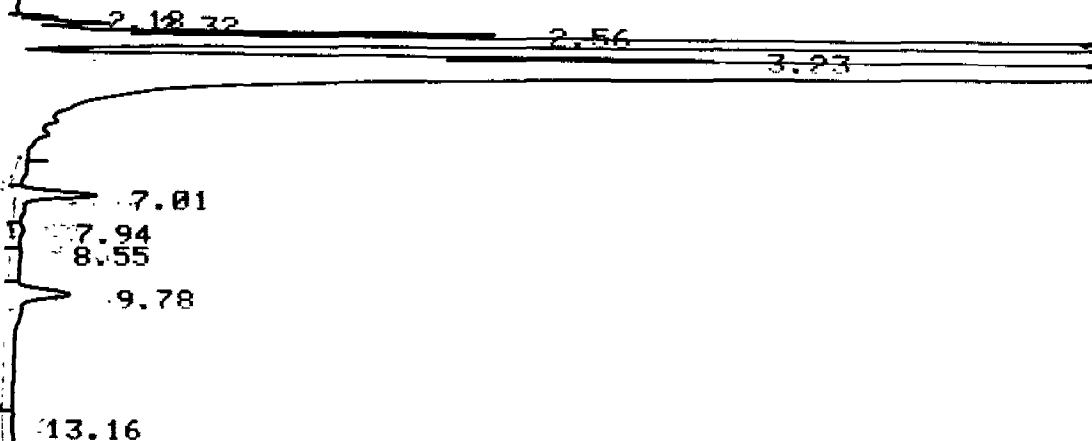
MAY/09/84
BOTTLE 2

RT	EXP RT	AREA	CAL #	AMT
3.57	3.61	16900	(R) 1	1066.08
7.02	7.01	385	2	76.846
9.78	9.77	271	3	46.699
22.61	22.69	168	6	26.235
34.44	33.91	106	7	21.729

DIL FACTOR: 1.0000 E+ 0

65.8 31.8 .5
24 .4
12 .2
6 .01

START



DO 104991
CONFIDENTIAL

17.32
~~18.34~~
 21.26
 22.50
 25.30
~~27.06~~
 29.33
~~30.30~~
 32.34
 34.36
 36.68
 38.12

~~J. 2 Davis~~

Mike Jenkins
 432042
 SS "B"

~~433820~~

IF ~~4720~~

6 → 4:30

600 min

~~Fun SAT~~

#3

HP RUN # 13
 ID: 1-10
 STD

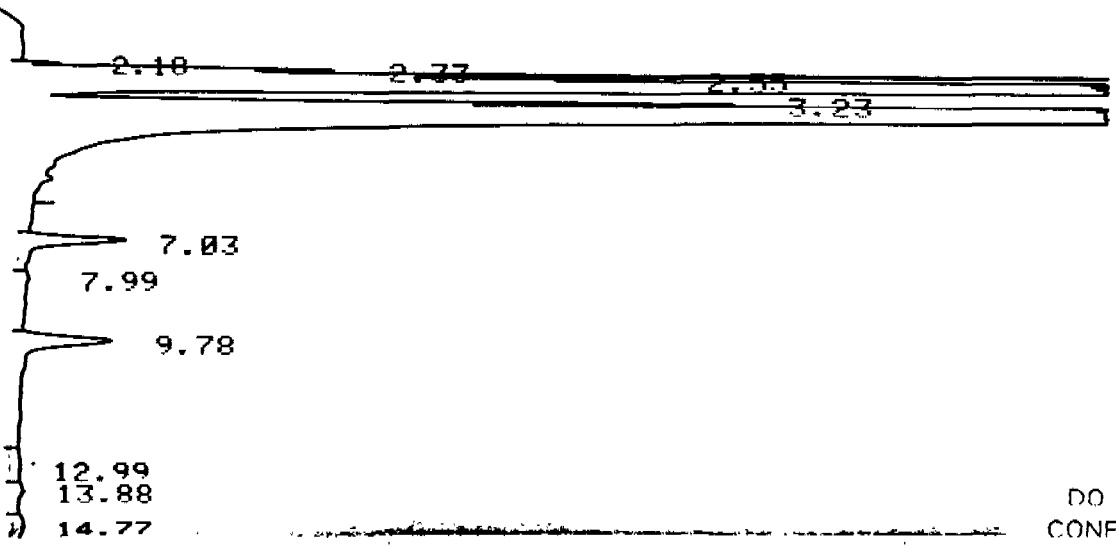
MAY/09/84
 BOTTLE 3

RT	EXP RT	AREA	CAL #	AMT
3.57	3.61	17190	(R) 1	1084.37
7.01	7.01	280	2	55.888
9.78	9.77	300	3	51.697
13.16	13.13	73	4	17.486
17.32	17.29	111	5	17.283
22.50	22.69	60	6	9.370
34.36	33.91	40	7	8.200

48.4 144 .02
 80 80 .05
 2.01
 2.01
 2.01
 2.01

DIL FACTOR: 1.0000 E+ 0

START



1000
 1000
 1000

17.30

18.80

#4

S. Dots n

OT 434287

6-6 720 min

25.10

28.50

30.84

31.57

32.80

33.99

35.86

HP RUN # 14

D:1-10

STD

MAY/09/84

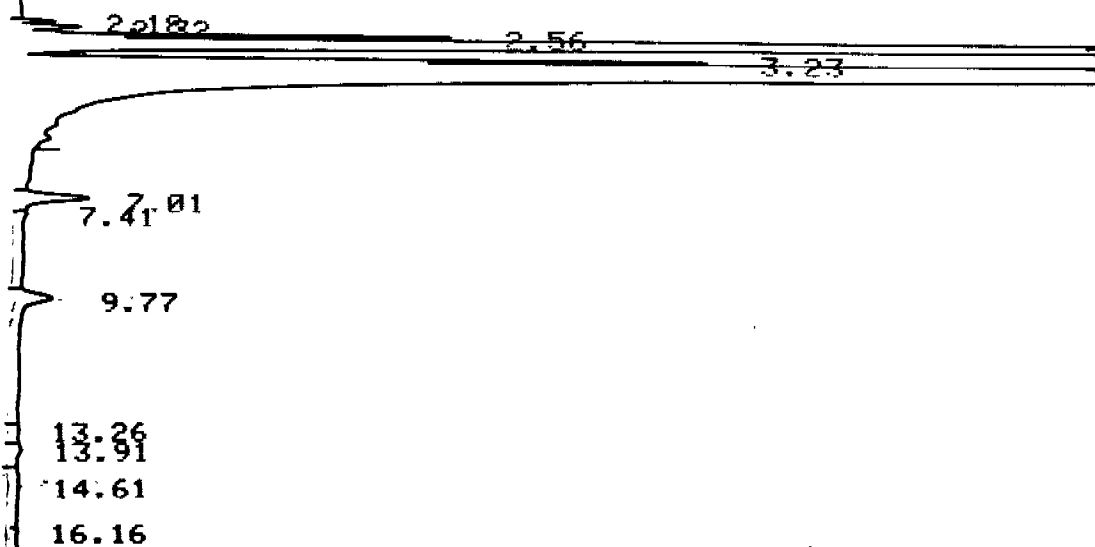
BOTTLE 4

RT	EXP RT	AREA	CAL #	AMT
3.57	3.61	16900	1	1066.08
7.03	7.01	342	2	68.263
9.78	9.77	464	3	79.957
17.30	17.29	76	5	11.833
33.99	33.91	73	7	14.964

59.2 25.1 .03
 57.75 .8
 12.29 .02
 4.01

DIL FACTOR: 1.0000 E+ 0

START



3.57
 7.03
 9.78
 17.30
 33.99

DO 104993
 CONFIDENTIAL

17.84
18.67
19.43

21.93
22.69

24.15

26.50
26.87

28.62

30.67
31.16

32.52

34.42

35.40
36.68

38.63

C2 Bolen

4310 43

6 → 4:40

640 min

05

HP RUN # 15
ID: 1-10
ESTD

MAY/09/84
BOTTLE 5

RT	EXP RT	AREA	CAL #	AMT
3.57	3.61	16870	(R) 1	1064.19
7.01	7.01	206	2	41.118
9.77	9.77	169	3	29.122
22.69	22.69	117	6	18.271
34.42	33.91	49	7	10.045

35.6 1.6 2.01
4 2.01
2.01
2.01

DIL FACTOR: 1.0000 E+ 0

STOP ESCAPE

5 STOP

TEMP1 150 125 125
ESCAPE

5 STOP

CHANGE RUN DELETE ESCAPE
DELETE CHANGE RUN @
CHANGE RUN 0 @
CHANGE RUN 5 STOP

5 STOP

OPTN # 1 @

ID: 1 - 1 @

OPTN # 2 @

(M-D-Y) DATE: 5 - 1 6 - 8 4

(H.M.S) TIME: 1 . 0 0 . 0 0

CHANGE RUN 6 @

DELETE STOP

CHANGE RUN 8 STOP

CHANGE RUN 6 @

DO 104994
CONFIDENTIAL

DELETE CHANGE RUN a

CHANGE RUN 6 a

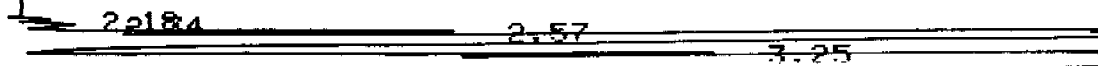
CHANGE RUN 8 STOP

8 STOP

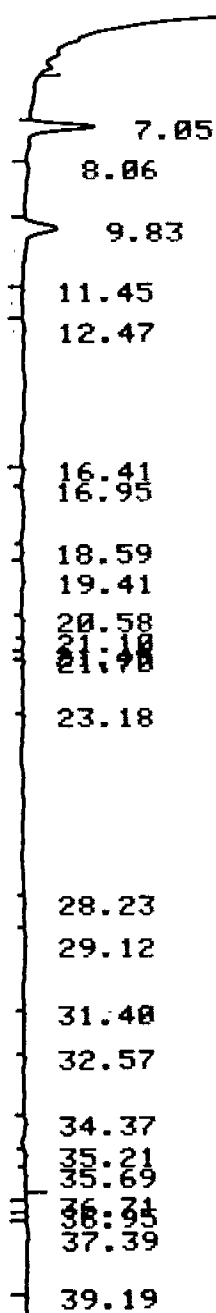
OPTN # 3 a

INJ/BTL, STROKE: 1 1 a

START



2.18
2.57
3.25



MF Browing

Ben. Board OS

433343

6-5 - 660 min

HP RUN # 7
ID:1-1
ESTD

MAY/16/84
BOTTLE 6

TIME 01:04:01

RT EXP RT AREA CAL # AMT

7.58 7.61 16950 (D) 1.1862 02

DO 104995
CONFIDENTIAL

9.83 9.82
16.95 17.39
23.18 22.82
34.37 34.10

190
50
105
39

3 32.741
5 7.785
6 16.397
7 7.995

4.01
4.01
4.01

DIL FACTOR: 1.0000 E+ 0

START

2.19 74 2.50 7.25

2.01
4.01

7.06

9.84

13.18

14.00

14.81

15.81

18.47

20.18

20.94

22.15

23.79

27.63

28.24

29.26

29.35

30.55

31.49

34.72

35.19

36.00

38.20

39.69

C Raymond

ETH. SOT

434177

660 min

6 AM 5 PM

IP RUN # 8
ID: 1-1
ESTD

MAY/16/84
BOTTLE 7

TIME 01:46:33

DO 104996
CONFIDENTIAL

RT

EXP RT

AREA

CAL

AMT

3.60

3.61

16790

(R) 1 1059.14

7.06

7.07

236

2 17.106

4.01 4.01 4.01

13.18

13.24

35

4

8.384

20.01

DIL FACTOR: 1.0000 E+ 0

DELETE CHANGE RUN 8 @

CHANGE RUN 9 @

CHANGE RUN 1 @ STOP

OPTN # 3 @

INJ/BTL, STROKE: 1 1 @

START

2.19 2.75 2.58 3.25

2.19
2.75
2.58
3.25

6.48
7.07

8.90
9.82

11.29

13.02
13.90

16.61
17.33

18.89

21.00

25.82

29.75

32.68

34.14

35.97

H. Alford Jr.

432677

5-6 660 min

HP RUN # 109
ID: 1-1
ESTD

MAY/16/84
BOTTLE 9

TIME 02:37:01

RT

EXP RT

AREA

CAL #

AMT

DO 104997
CONFIDENTIAL