

**FINAL REPORT ON
RESULTS OF SOIL GAS SURVEY,
TUTU, ST. THOMAS, U.S.
VIRGIN ISLANDS**

SUPPLEMENT

**PHOTOCOPIES OF ORIGINAL GAS
CHROMATOGRAMS AS RECORDED
ON SITE BY TRACER RESEARCH CORPORATION**

December 18, 1987

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READY
 DATE " 11/4/87
 TIME " 07:47
 FI= 1. FE= 1. MN= 0.
 PRESS 'ENTER' TO SKIP ENTRY
 FILE NAME=" GCL
 TIME FUNCTION VALUE
 TT= .01 TF=" AZ TV= 1
 TT= .01 TF=" PM TV= 1
 TT=

METHOD NUMBER:MN=

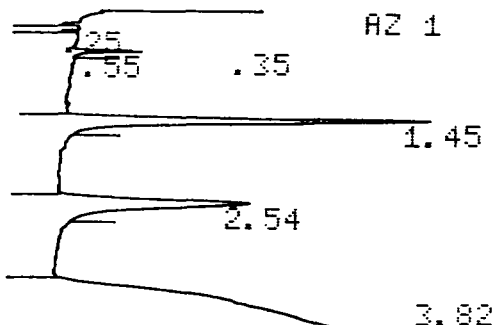
END OF DIALOG

AT= 16
 PT=200
 OF=10

11/4/87
 OV-101 6' 1/8" FID
 Voltage-10
 Sensitivity-4
 42% N₂ - 30 ml/min
 40% H₂ - 20
 60% Air - 300
 Detector 250°C
 Injector 200°C
 Column 80°C
 M. Kuntz

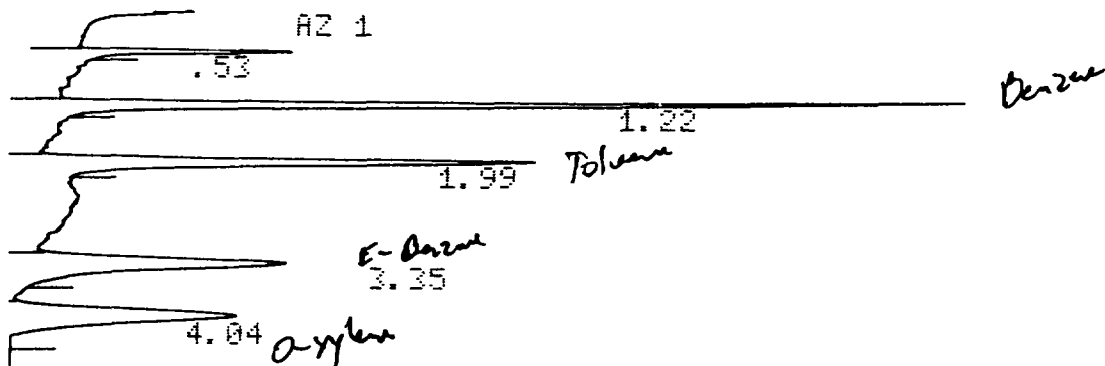
5 ul 5%h
 BTX 70°C iso

CHANNEL A INJECT 11/04/87 08:22:19



AT= 8

CHANNEL A INJECT 11/04/87 08:30:11



GCL 11/04/87 08:30:11 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 1 INDEX 1

PEAK#	AREA%	RT	AREA	BC
1	4.914	0.53	6882	01
2	26.389	1.22	36959	01
3	23.889	1.99	33457	01
4	20.812	3.35	29148	01
5	23.996	4.04	33607	01

TUT 003 1059

MTX 5%h

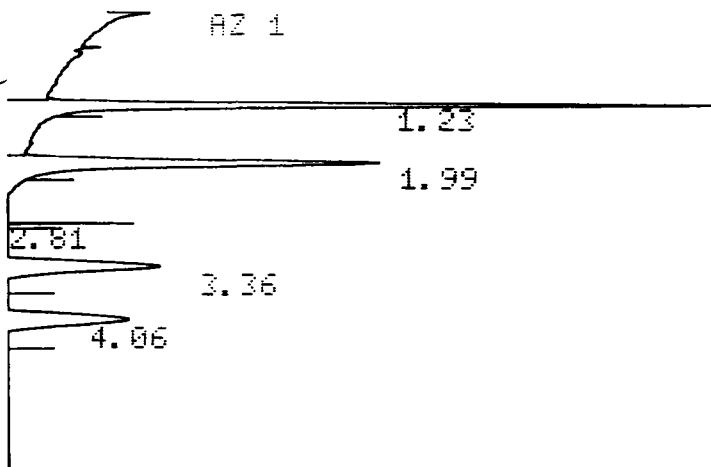
TOTAL 100.

140053

9

CHANNEL A INJECT 11/04/87 08:39:17

AZ 1



GCL 11/04/87 08:39:17 CH= "R" PS= 1.

FILE 1. METHOD 0. RUN 2 INDEX 2

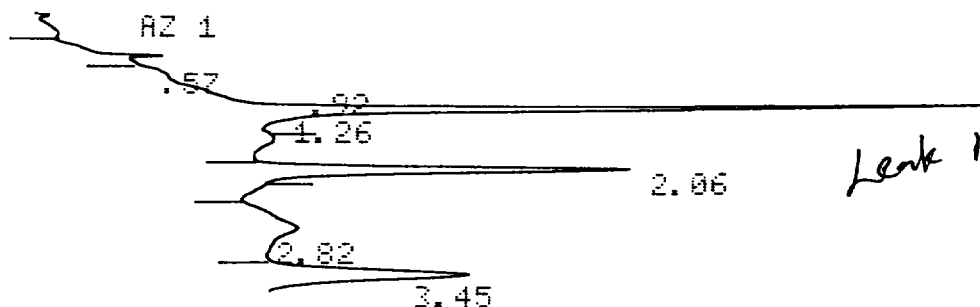
PEAK#	AREA%	RT	AREA	BC
1	27.238	1.23	27055	01
2	24.992	1.99	24824	01
3	1.044	2.81	1037	01
4	22.279	3.36	22130	01
5	24.447	4.06	24283	01

TOTAL 100. 99329

OF=15

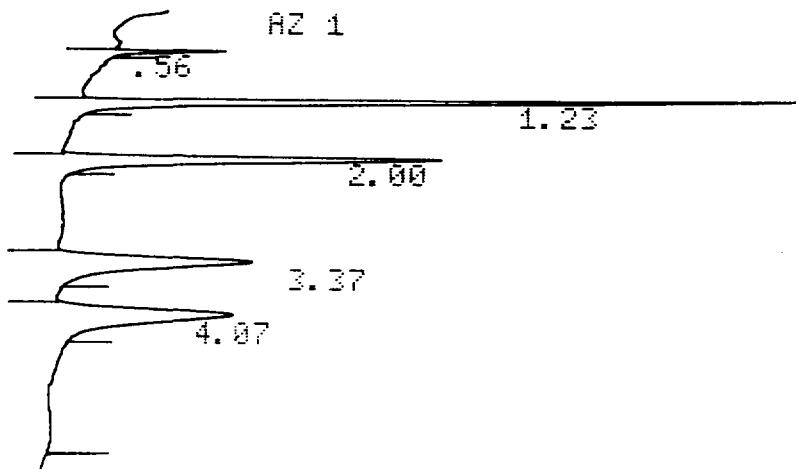
CHANNEL A INJECT 11/04/87 08:46:27

AZ 1



CHANNEL A INJECT 11/04/87 08:54:59

AZ 1

*5d 5h**Leak in Septum**5d 5h*

TUT 003 1060

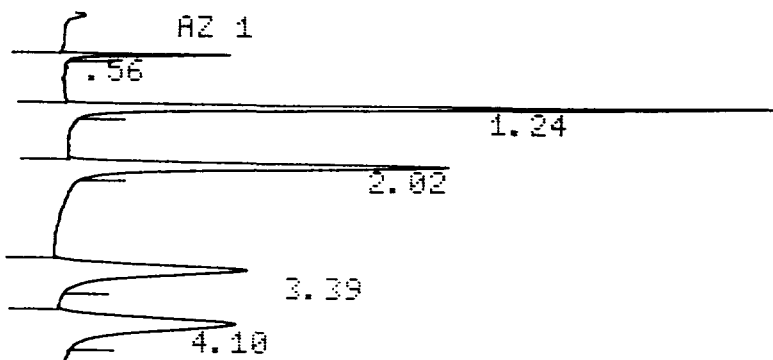
GCL 11/04/87 08:54:59 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 3 INDEX 3

PEAK#	AREA%	RT	AREA BC
1	2.422	0.56	2396 01
2	27.534	1.23	27237 01
3	24.556	2.	24292 01
4	22.365	3.37	22124 01
5	23.123	4.07	22874 01
TOTAL	100.		98923

5ul gtl.
PTX

CHANNEL A INJECT 11/04/87 09:12:52



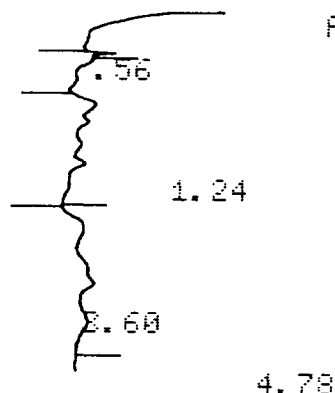
GCL 11/04/87 09:12:52 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 4 INDEX 4

PEAK#	AREA%	RT	AREA BC
1	3.063	0.56	3032 01
2	27.097	1.24	26820 01
3	24.437	2.02	24187 01
4	21.86	3.39	21636 01
5	23.542	4.1	23301 01
TOTAL	100.		98976

N2 blank
2002/

CHANNEL A INJECT 11/04/87 09:20:45



TUT 003 1061

GCL 11/04/87 09:20:45 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 5 INDEX 5

1	1.689	0.56	466	01
2	41.203	1.24	11370	01
3	57.108	3.6	15759	01

TOTAL 100. 27595

*Ar Sample
2000h*

CHANNEL A INJECT 11/04/87 09:28:41

AZ 1

.54

2.96

GCL 11/04/87 09:28:41 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 6 INDEX 6

PEAK# AREA% RT AREA BC

1 100. 0.54 69825 01

TOTAL 100. 69825

*System Blank
2000h*

CHANNEL A INJECT 11/04/87 09:37:26

AZ 1

.55

4.3

GCL 11/04/87 09:37:26 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 7 INDEX 7

PEAK# AREA% RT AREA BC

1 100. 0.55 87099 01

TOTAL 100. 87099

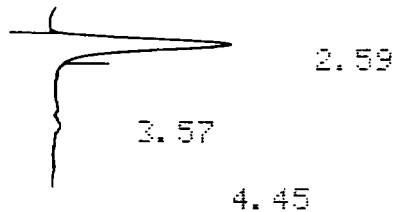
*Drift
2000h
#1
4'*

CHANNEL A INJECT 11/04/87 09:47:07

AZ 1

56

TUT 003 1062



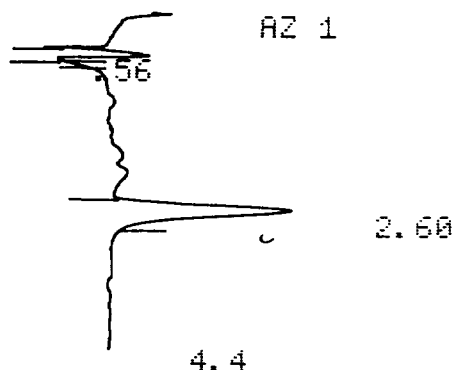
GCL 11/04/87 09:47:07 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 8 INDEX 8

PEAK#	AREA%	RT	AREA BC
1	18.592	0.56	4631 01
2	81.408	2.59	20278 01
TOTAL	100.		24909

*Drift
2nd 4'*

CHANNEL A INJECT 11/04/87 09:52:09
AZ 1



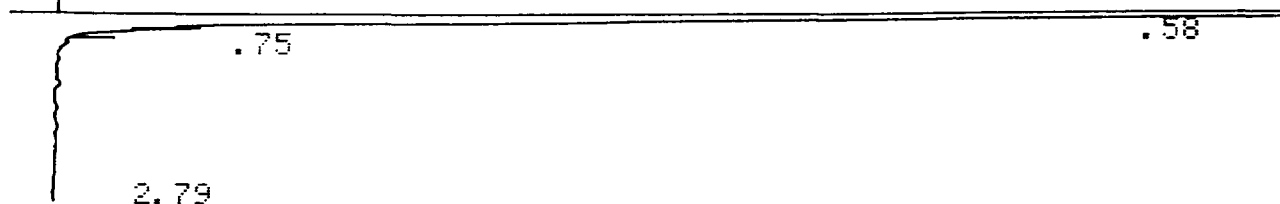
GCL 11/04/87 09:52:09 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 9 INDEX 9

PEAK#	AREA%	RT	AREA BC
1	17.809	0.56	4390 01
2	82.191	2.6	20260 01
TOTAL	100.		24650

*0-4-4
504*

CHANNEL A INJECT 11/04/87 10:38:14
AZ 1



GCL 11/04/87 10:38:14 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 10 INDEX 10

PEAK#	AREA%	RT	AREA BC
1	99.347	0.58	671917 02
2	0.653	0.75	4419 03

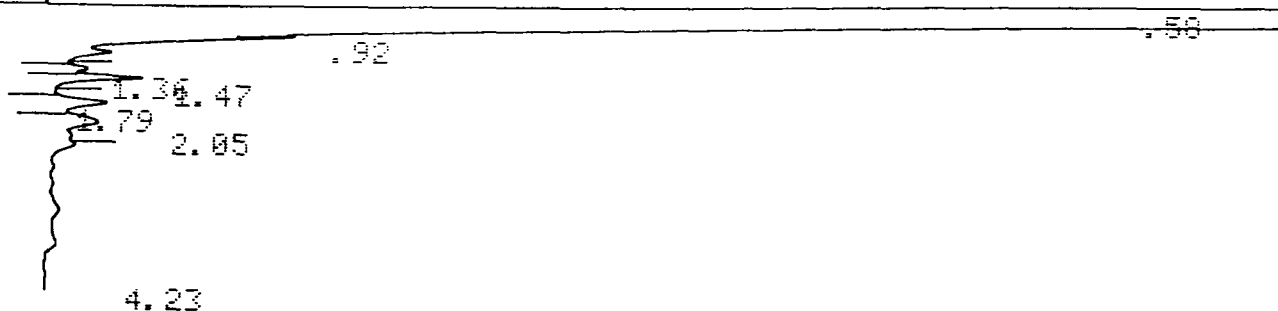
TOTAL 100.000000

TOT 003 1063

*1-4-4
100*

CHANNEL A INJECT 11/04/87 10:41:47

AZ 1



GCL 11/04/87 10:41:47 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 11 INDEX 11

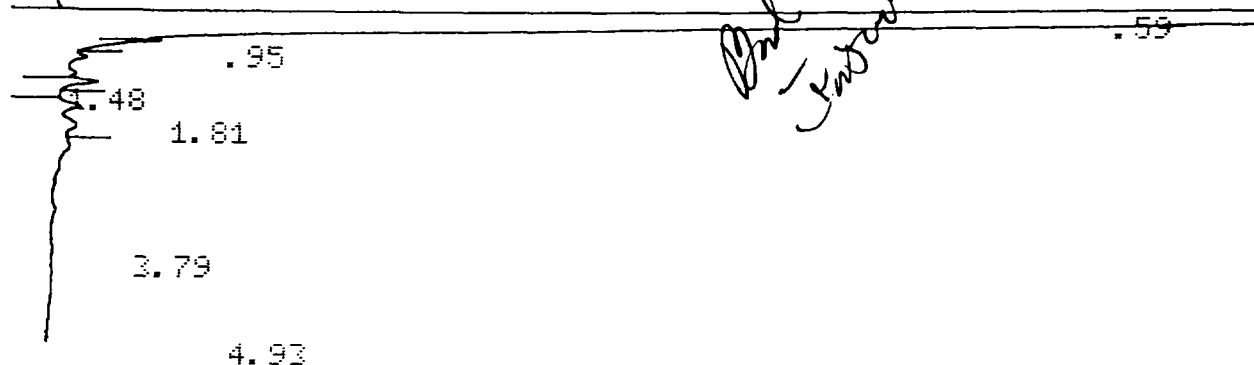
PEAK#	AREA%	RT	AREA	BC
1	99.651	0.58	8017611	02
2	0.203	0.92	16370	03
3	0.015	1.36	1218	02
4	0.051	1.47	4119	03
5	0.039	1.79	3176	02
6	0.039	2.05	3163	03

TOTAL 100. 8045657

*56-04-41
500ul*

CHANNEL A INJECT 11/04/87 10:46:37

AZ 1



*56-04-41
500ul*

GCL 11/04/87 10:46:37 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 12 INDEX 12

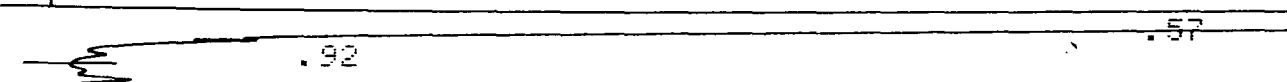
PEAK#	AREA%	RT	AREA	BC
1	99.809	0.59	4049212	02
2	0.109	0.95	4427	03
3	0.032	1.48	1284	01
4	0.05	1.81	2034	01

TOTAL 100. 4056957

*56-04-41
500ul*

CHANNEL A INJECT 11/04/87 10:52:26

AZ 1



TOT 003 1064

2.04

CL 11/04/87 10:52:26 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 13 INDEX 13

PEAK#	AREA%	RT	AREA	BC
1	99.681	0.57	7080273	02
2	0.19	0.92	13507	03
3	0.067	1.46	4729	01
4	0.032	1.79	2298	01
5	0.03	2.04	2125	01

TOTAL 100. 7102932

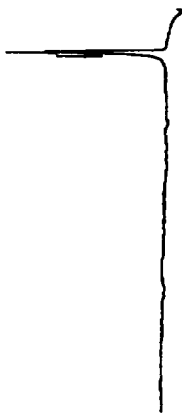
CHANNEL A INJECT 11/04/87 11:06:13

AZ 1



CHANNEL A INJECT 11/04/87 11:08:15

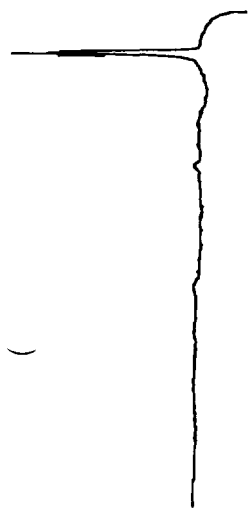
AZ 1



NO DATA, CHANNEL A

CHANNEL A INJECT 11/04/87 11:14:30

AZ 1



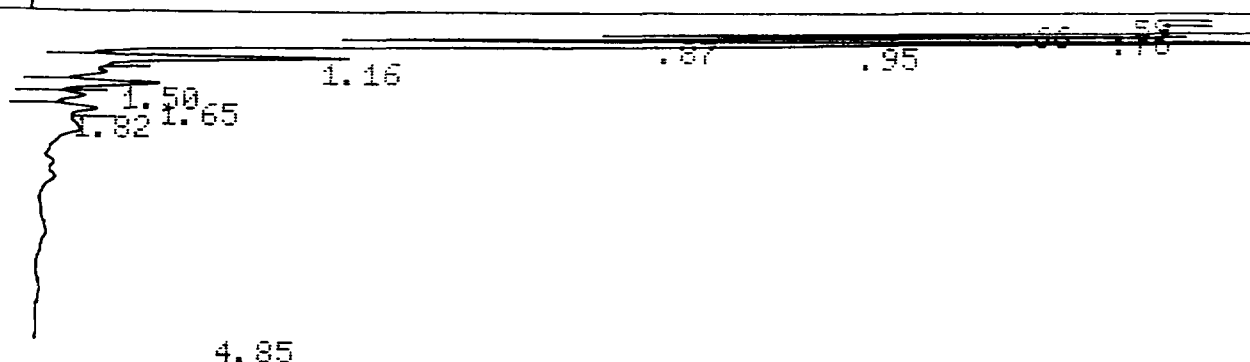
56-C4 - 3.5
500

56-C4 - 3.5
500

56-C4 - 3.5
1000

CHANNEL A INJECT 11/04/87 11:44:12

AZ 1



GCL 11/04/87 11:44:12 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 16 INDEX 16

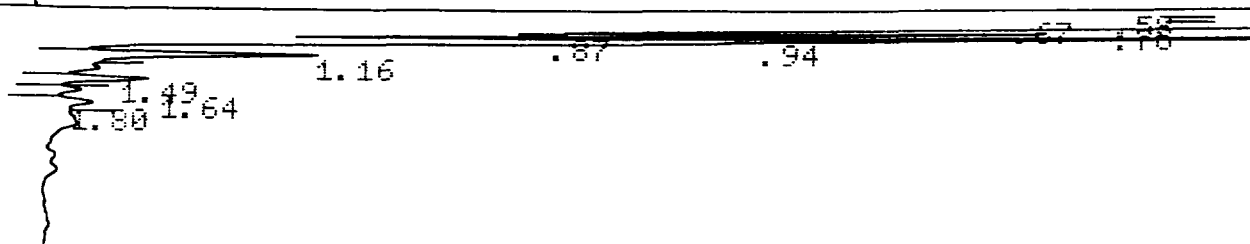
PEAK#	AREA%	RT	AREA	BC
1	84.642	0.59	5355058	02
2	7.464	0.66	472223	02
3	6.07	0.76	384028	02
4	0.507	0.87	32076	02
5	1.053	0.95	66651	08
6	0.155	1.16	9785	05
7	0.063	1.5	3969	01
8	0.018	1.65	1169	02
9	0.028	1.82	1777	03

TOTAL 100. 6326736

50-44-71
504

CHANNEL A INJECT 11/04/87 11:50:40

AZ 1



GCL 11/04/87 11:50:40 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 17 INDEX 17

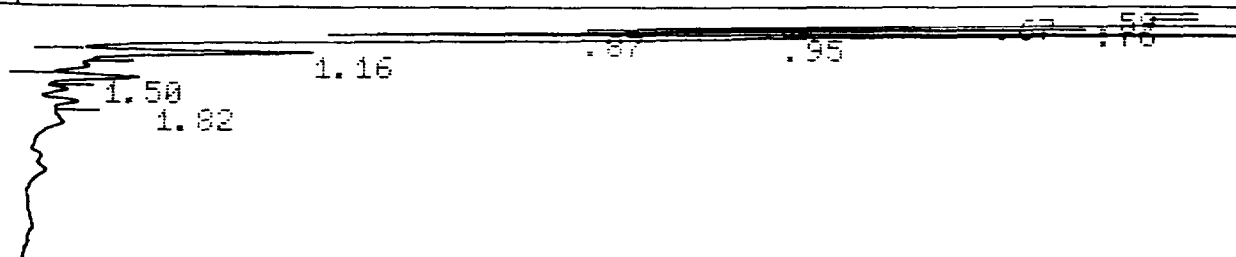
PEAK#	AREA%	RT	AREA	BC
1	85.712	0.58	5031891	02
2	6.865	0.67	403034	02
3	5.703	0.76	334785	02
4	0.474	0.87	27855	02
5	0.993	0.94	58321	08
6	0.149	1.16	8770	05
7	0.06	1.49	3534	01
8	0.017	1.64	982	02
9	0.026	1.8	1551	03

TOTAL 100. 5870723

TUT 003 1066

50-44-71
504

CHANNEL A INJECT 11/04/87 11:55:05
AZ 1



GCL 11/04/87 11:55:05 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 18 INDEX 18

PEAK#	AREA%	RT	AREA	BC
1	85.448	0.59	5251046	02
2	7.095	0.67	435988	02
3	5.733	0.76	352296	02
4	0.494	0.87	30353	02
5	1.002	0.95	61587	02
6	0.155	1.16	9534	03
7	0.06	1.5	3663	01
8	0.014	1.82	833	01

TOTAL 100. 6145300

66-04-5
501

CHANNEL A INJECT 11/04/87 12:00:25
AZ 1

56-04-5
1001

CHANNEL A INJECT 11/04/87 12:10:01
AZ 1

0.67

READY
DATE " 11/4/87
TIME " 12:12
FI= 1. FE= 1. MN= 0.
PRESS 'ENTER' TO SKIP ENTRY
FILE NAME=" GCL
TIME FUNCTION VALUE
TT= .01 TF=" AZ TV= 1
TT= .01 TF=" PM TV= 1
TT= 4.4 TF=" ER TV= 1
TT=

METHOD NUMBER:MN=

END OF DIALOG
AT= 8
PT=200
OF=10

TUT 003 1067

2-04-5
2001

CHANNEL A INJECT 11/04/87 12:14:15

0.56

3.84

GCL 11/04/87 12:14:45 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 1 INDEX 1

PEAK# AREA% RT AREA BC

1 100. 0.56 2635 01

TOTAL 100. 2635

66-07-5
200ml

CHANNEL A INJECT 11/04/87 12:19:36

AZ 1

0.57

GCL 11/04/87 12:19:36 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 2 INDEX 2

PEAK# AREA% RT AREA BC

1 100. 0.57 2021 01

TOTAL 100. 2021

66-07-5
200ml

CHANNEL A INJECT 11/04/87 12:25:00

AZ 1

0.58

1.29

2.10

3.54

4.28 0

GCL 11/04/87 12:25:00 CH= "A" PS= 1

FILE 1. METHOD 0. RUN 3 INDEX 3

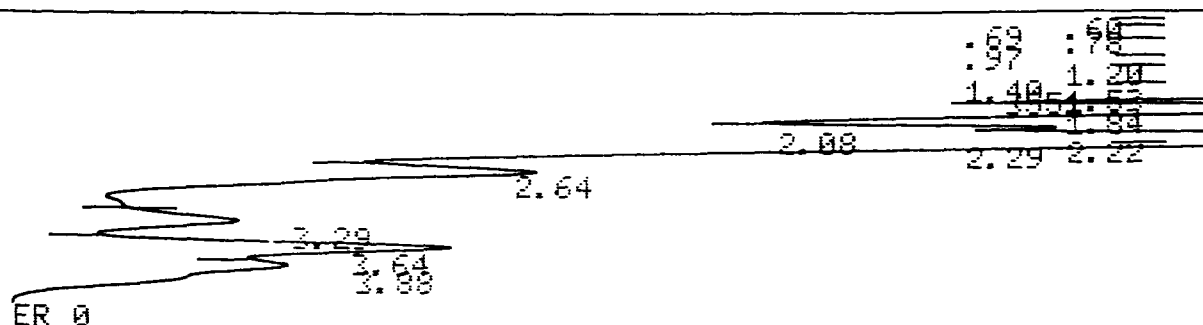
TUT 003 1068

1	3.687	0.58	2922	01
2	32.363	1.29	25649	01
3	29.239	2.1	23173	01
4	26.351	3.54	20884	01
5	8.36	4.28	6626	01

TOTAL 100. 79254

56-02-5
5/10

CHANNEL A INJECT 11/04/87 12:37:27
AZ 1



GCL 11/04/87 12:37:27 CH= "A" PS= 1.

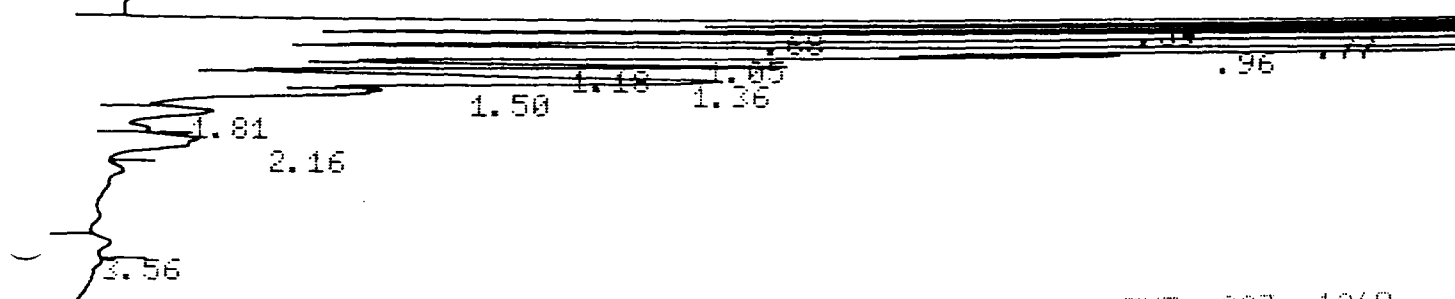
FILE 1. METHOD 0. RUN 4 INDEX 4

PEAK#	AREAZ	RT	AREA BC
1	26.148	0.6	3676239 02
2	9.114	0.69	1281405 02
3	27.786	0.78	3906543 02
4	17.117	0.97	2406460 02
5	3.841	1.2	540043 02
6	7.141	1.4	1003984 02
7	3.461	1.53	486596 02
8	1.625	1.84	228402 02
9	0.462	2.08	64993 02
10	1.193	2.22	167757 02
11	0.867	2.29	121883 02
12	0.509	2.64	71522 03
13	0.097	3.29	13666 02
14	0.32	3.64	44923 02
15	0.319	3.88	44814 03

TOTAL 100. 14059230

56-02-5
0.24 1/100

CHANNEL A INJECT 11/04/87 12:44:26
AZ 1



GCL 11/04/87 12:44:26 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 5 INDEX 5

TUT 003 1069

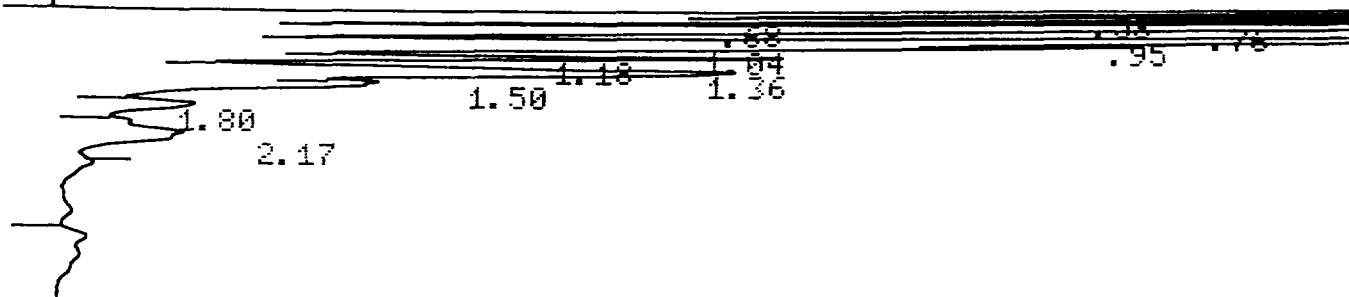
1	26.217	0.59	200845 02
2	9.949	0.68	76217 02
3	29.951	0.77	229457 02
4	13.746	0.96	105311 02
5	4.536	1.05	34752 02
6	3.862	1.18	29589 02
7	7.155	1.36	54815 02
8	2.867	1.5	21963 02
9	0.556	1.81	4257 03
10	0.999	2.16	7657 01
11	0.161	3.56	1234 01

TOTAL 100. 766097

CHANNEL A INJECT 11/04/87 12:50:59

AZ 1

56-02-5'
0.24 1/100



ER 0

GCL 11/04/87 12:50:59 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 6 INDEX 6

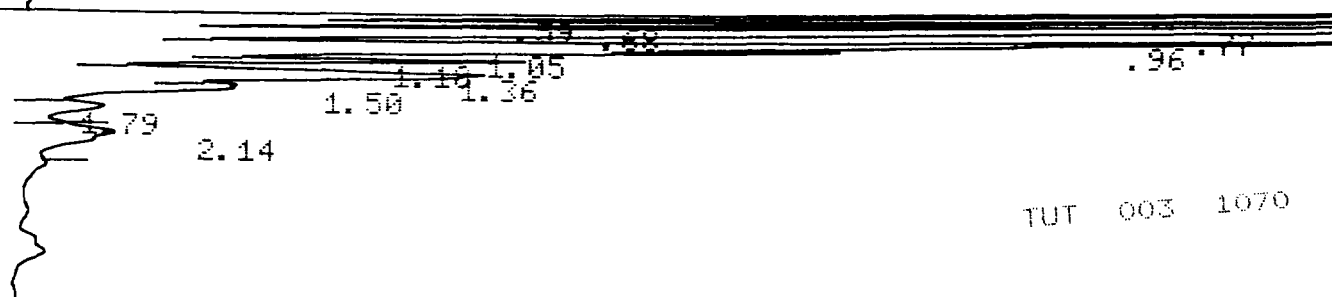
PEAK#	AREA%	RT	AREA BC
1	24.167	0.58	204149 02
2	9.564	0.68	80794 02
3	29.07	0.76	245569 02
4	13.564	0.95	114578 02
5	4.554	1.04	38472 02
6	4.108	1.18	34704 02
7	7.654	1.36	64656 02
8	3.73	1.5	31507 02
9	1.563	1.8	13201 02
10	2.027	2.17	17121 03

TOTAL 100. 844751

56-02-8.6'
0.2 1/1000

13:04:56 14:08:34
CHANNEL A INJECT 11/04/87 14:22:29

AZ 1



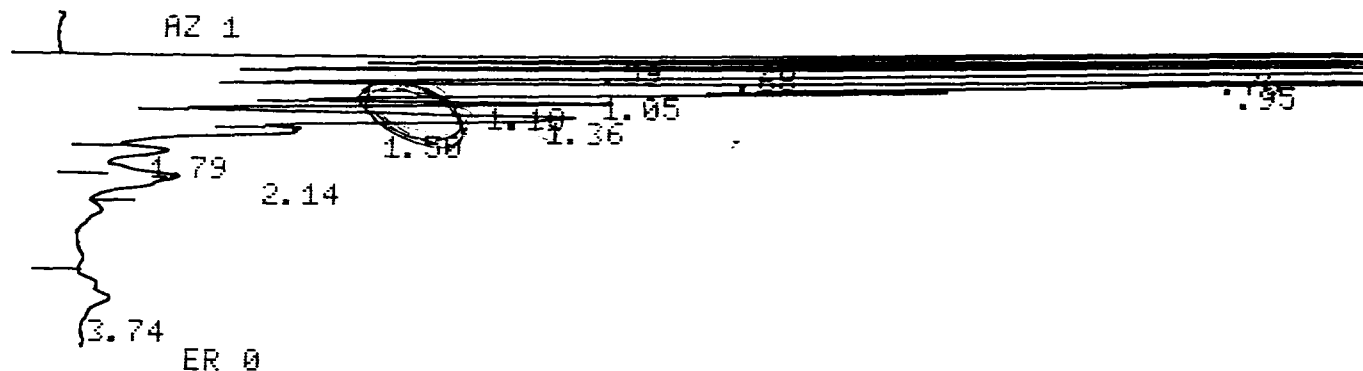
TUT 003 1070

FILE 1. METHOD 0. RUN 7 INDEX 7

PEAK#	AREAZ	RT	AREA BC
1	19.638	0.59	104681 02
2	10.604	0.68	56527 02
3	31.99	0.77	170524 02
4	14.849	0.96	79152 02
5	5.727	1.05	30528 02
6	3.962	1.18	21119 02
7	7.952	1.36	42387 02
8	3.41	1.5	18178 02
9	0.556	1.79	2963 03
10	1.314	2.14	7002 01

TOTAL 100. 533061

CHANNEL A INJECT 11/04/87 14:28:07



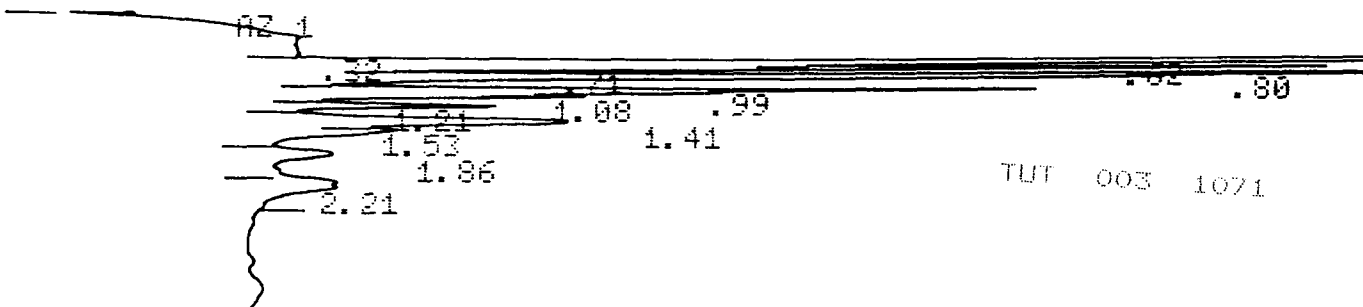
CL 11/04/87 14:28:07 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 8 INDEX 8

PEAK#	AREAZ	RT	AREA BC
1	17.92	0.59	106791 02
2	9.961	0.68	59361 02
3	30.427	0.76	181322 02
4	14.357	0.95	85556 02
5	5.915	1.05	35251 02
6	4.063	1.18	24213 02
7	8.303	1.36	49482 02
8	4.012	1.5	23906 02
9	2.166	1.79	12906 02
10	1.945	2.14	11591 03
11	0.931	3.74	5550 01

TOTAL 100. 595929

CHANNEL A INJECT 11/04/87 14:35:25



GCL 11/04/87 14:35:25 CH= "A" PS= 1.

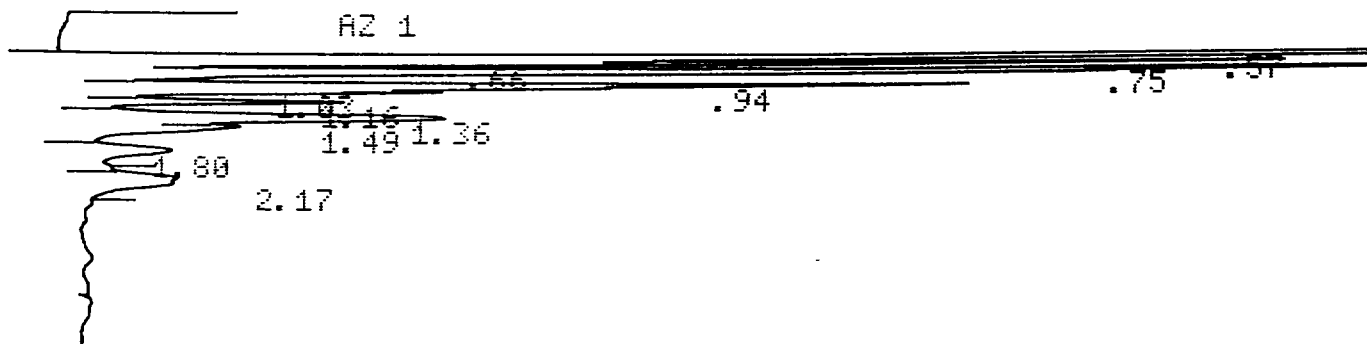
FILE 1. METHOD 0. RUN 9 INDEX 9

PEAK#	AREA%	RT	AREA BC
1	11.078	0.32	65449 02
2	36.507	0.62	215682 02
3	6.77	0.71	39994 02
4	14.276	0.8	84340 02
5	7.779	0.99	45960 02
6	2.758	1.08	16292 02
7	3.493	1.21	20638 02
8	6.494	1.41	38366 02
9	4.05	1.53	23929 02
10	4.019	1.86	23746 02
11	2.776	2.21	16399 03

TOTAL 100. 590795

56-A2-4.5'
0.2 1/100

CHANNEL A INJECT 11/04/87 14:42:03



GCL 11/04/87 14:42:03 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 10 INDEX 10

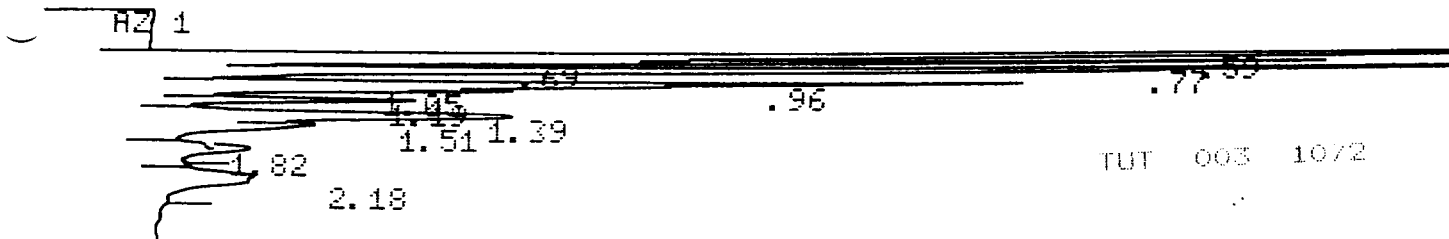
PEAK#	AREA%	RT	AREA BC
1	49.199	0.57	227687 02
2	8.046	0.66	37234 02
3	16.938	0.75	78389 02
4	9.037	0.94	41822 02
5	2.282	1.03	10561 02
6	2.573	1.16	11906 02
7	6.222	1.36	28797 02
8	2.504	1.49	11590 02
9	1.255	1.8	5807 03
10	1.944	2.17	8998 01

TOTAL 100. 462791

235 104

56-A2-4.5'
0.2 1/100

CHANNEL A INJECT 11/04/87 14:47:39



TUT 003 10/2

GCL

11/04/87 14:47:39

CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 11 INDEX 11

PEAK#	AREA%	RT	AREA BC
1	49.247	0.59	215969 02
2	7.935	0.69	34799 02
3	19.846	0.77	87033 08
4	7.961	0.96	34913 06
5	1.864	1.05	8174 06
6	1.844	1.19	8087 06
7	5.641	1.39	24739 06
8	2.248	1.51	9857 06
9	1.326	1.82	5817 07
10	2.086	2.18	9150 01

TOTAL 100. 438538

222 569

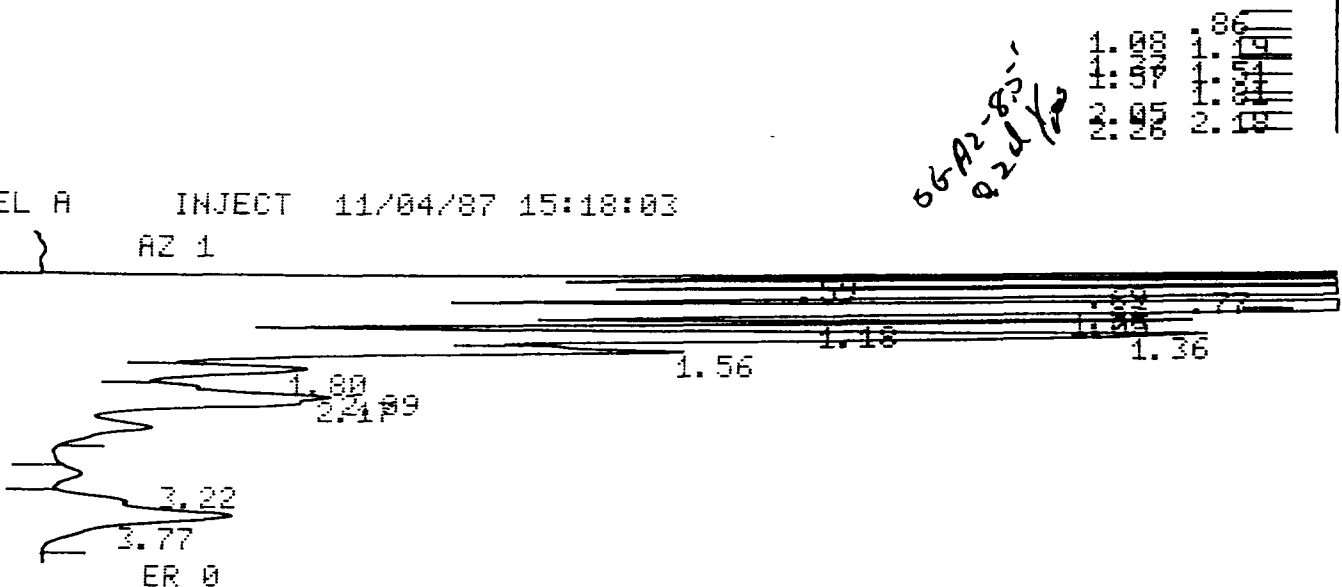
66-A2-8.5
601 1

CHANNEL A INJECT 11/04/87 15:00:21

AZ 1

CHANNEL A INJECT 11/04/87 15:18:03

AZ 1



GCL

11/04/87 15:18:03

CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 12 INDEX 12

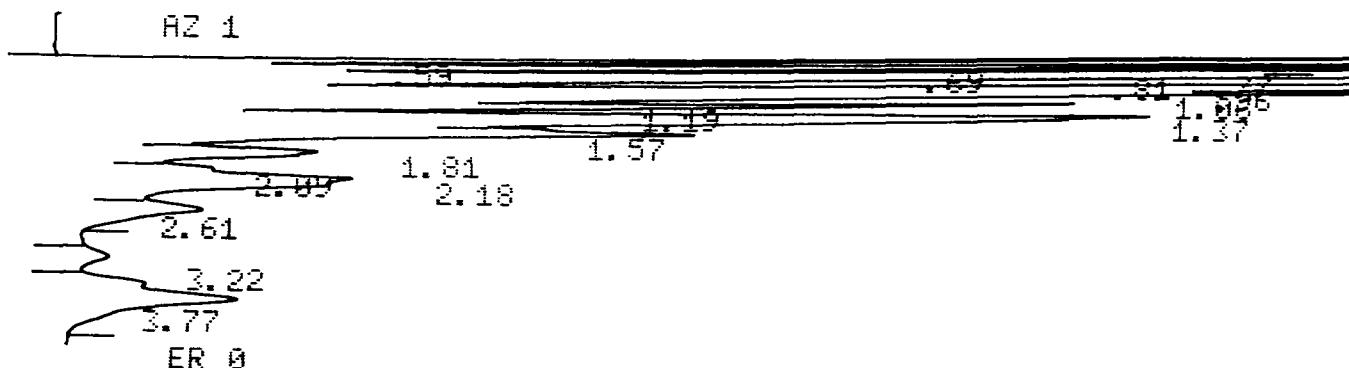
PEAK#	AREA%	RT	AREA BC
1	9.617	0.59	127320 02
2	11.021	0.69	145901 02
3	31.814	0.77	421191 02
4	13.139	0.96	173942 02
5	6.602	1.05	87408 02
6	3.916	1.18	51844 02
7	8.896	1.36	117773 02
8	4.839	1.56	64065 02
9	2.304	1.8	30506 02
10	0.745	2.09	9869 02
11	4.214	2.17	55789 03
12	0.199	3.22	2641 02

TUT 003 1073

TOTAL 100. 1323898

SG-A2-8.5
0.1 µl / 10

CHANNEL A INJECT 11/04/87 15:23:39



GCL 11/04/87 15:23:39 CH= "A" PS= 1.

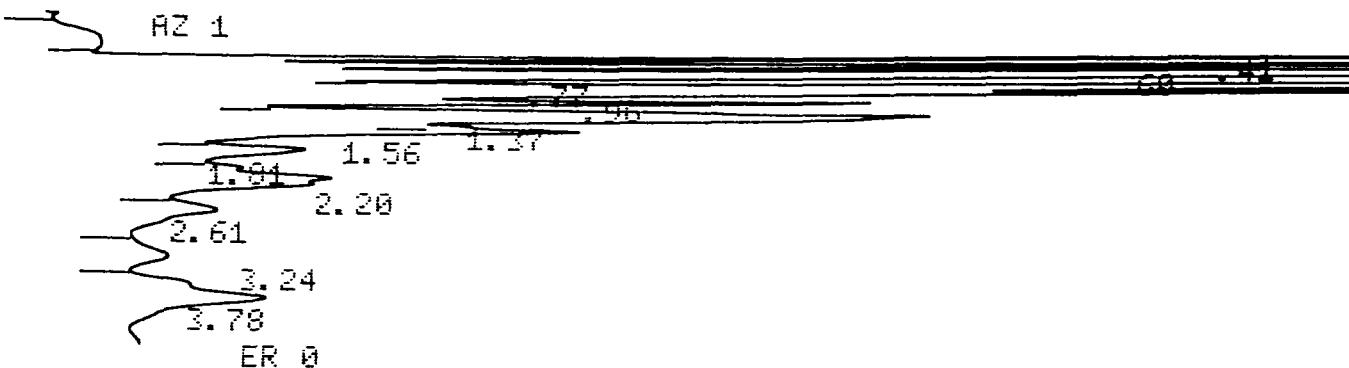
FILE 1. METHOD 0. RUN 13 INDEX 13

PEAK#	AREA%	RT	AREA BC
1	5.954	0.59	57869 02
2	8.504	0.69	82645 02
3	14.907	0.77	144879 02
4	12.977	0.81	126115 02
5	13.197	0.96	128252 02
6	8.05	1.06	78239 02
7	4.612	1.19	44827 02
8	11.347	1.37	110277 02
9	6.343	1.57	61648 02
10	2.959	1.81	28757 02
11	0.958	2.09	9310 02
12	4.536	2.18	44086 02
13	2.02	2.61	19634 03
14	0.298	3.22	2897 02
15	3.337	3.77	32428 03

TOTAL 100. 971863

SG-A2-8.5
0.1 µl / 1000

CHANNEL A INJECT 11/04/87 15:30:12



GCL 11/04/87 15:30:12 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 14 INDEX 14 TUT 003 1074

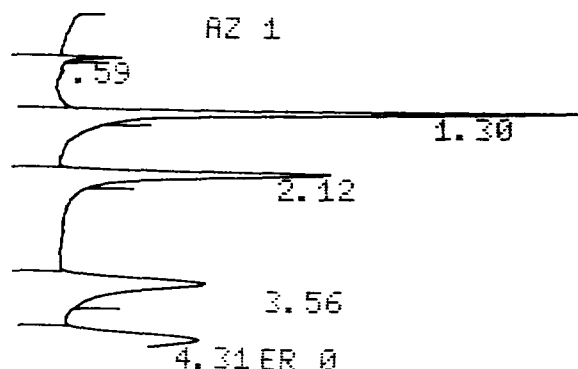
PEAK#	AREA%	RT	AREA BC
1	0.91	0.41	2561 02

3	32.041	0.77	266076	02
4	24.378	0.96	202444	02
5	11.604	1.37	96364	02
6	4.901	1.56	40700	02
7	3.342	1.81	27750	02
8	6.029	2.2	50064	02
9	2.651	2.61	22016	02
10	1.259	3.24	10458	02
11	3.425	3.78	28439	03

TOTAL 100. 830433

54 SH
DTX

CHANNEL A INJECT 11/04/87 15:36:59



GCL 11/04/87 15:36:59 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 15 INDEX 15

PK#	AREA%	RT	AREA	BC
1	1.918	0.59	1157	01
2	34.969	1.3	21092	01
3	30.252	2.12	18247	01
4	29.907	3.56	18039	01
5	2.954	4.31	1782	01

TOTAL 100. 60317

FI= 1. FE= 1. MN= 0.

PRESS 'ENTER' TO SKIP ENTRY

FILE NAME=" GCL

TIME FUNCTION VALUE

TT= .01 TF=" AZ TV= 1

TT= .01 TF=" PM TV= 1

TT= 5.0 TF=" ER TV= 1

TT=

METHOD NUMBER:MN=

END OF DIALOG

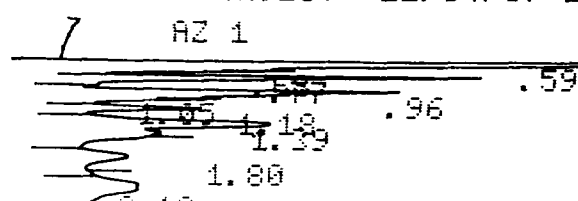
AT= 8

PT=200

OF=10

1178

CHANNEL A INJECT 11/04/87 15:54:49



TOT 003 1075

64-03-5
0.22 / 100

GCL 11/04/87 15:54:49 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 16 INDEX 16

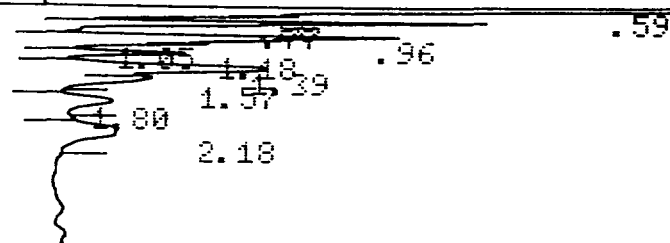
PEAK#	AREA%	RT	AREA BC
1	61.792	0.59	107999 02
2	3.359	0.68	5870 02
3	8.214	0.77	14357 02
4	9.089	0.96	15886 02
5	2.38	1.05	4159 02
6	2.537	1.18	4434 02
7	6.869	1.39	12006 03
8	2.005	1.8	3504 01
9	3.755	2.18	6563 01

TOTAL 100. 174778

66-83-5'
0.24 1/100

CHANNEL A INJECT 11/04/87 15:59:38

AZ 1



GCL 11/04/87 15:59:38 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 17 INDEX 17

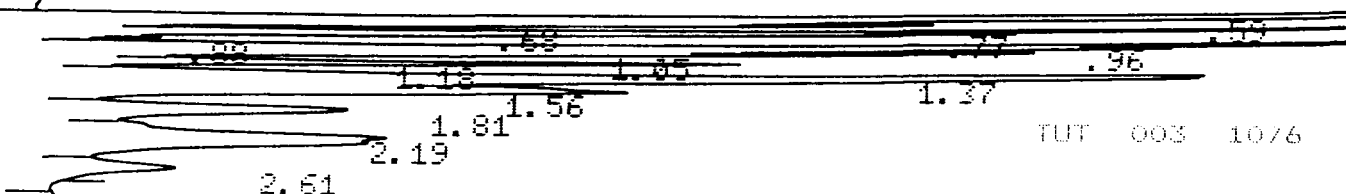
PEAK#	AREA%	RT	AREA BC
1	58.085	0.59	115781 02
2	3.254	0.68	6486 02
3	8.161	0.77	16267 02
4	8.363	0.96	16671 02
5	2.263	1.05	4511 02
6	2.755	1.18	5491 02
7	8.487	1.39	16918 02
8	3.605	1.57	7185 03
9	1.865	1.8	3718 01
10	3.163	2.18	6304 01

TOTAL 100. 199332

66-83-8'
0.5 1/100

16:05:22
CHANNEL A INJECT 11/04/87 16:15:09

AZ 1



TUT 003 10/6

3.58
ER 0

GCL 11/04/87 16:15:09 CH= "A" PS= 1.

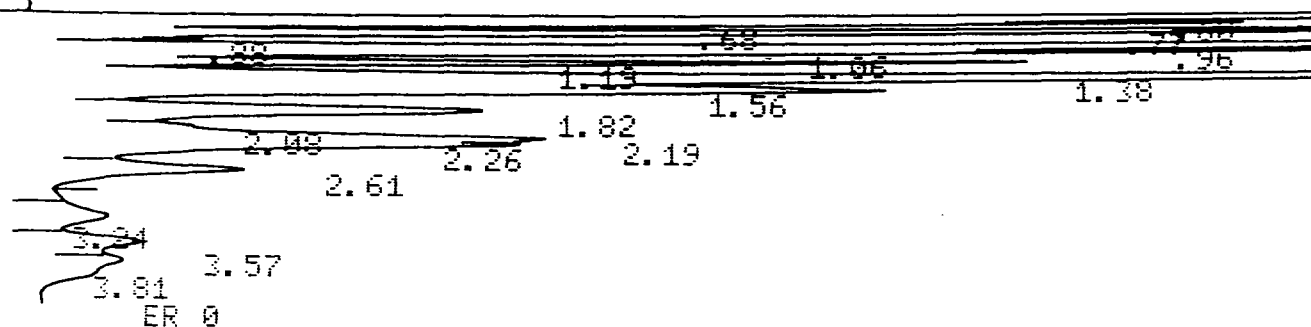
FILE 1. METHOD 0. RUN 18 INDEX 18

PEAK#	AREA%	RT	AREA BC
1	48.954	0.59	470223 02
2	2.288	0.68	21974 02
3	6.277	0.77	60292 02
4	0.259	0.88	2489 02
5	8.171	0.96	78483 02
6	3.276	1.05	31469 02
7	2.911	1.18	27962 02
8	9.913	1.37	95222 02
9	5.182	1.56	49779 02
10	3.237	1.81	31090 02
11	5.828	2.19	55977 02
12	1.318	2.61	12656 03
13	0.532	3.2	5113 02
14	1.854	3.58	17805 03

TOTAL 100. 960534

CHANNEL A INJECT 11/04/87 16:21:00

AZ 1



GCL 11/04/87 16:21:00 CH= "A" PS= 1.

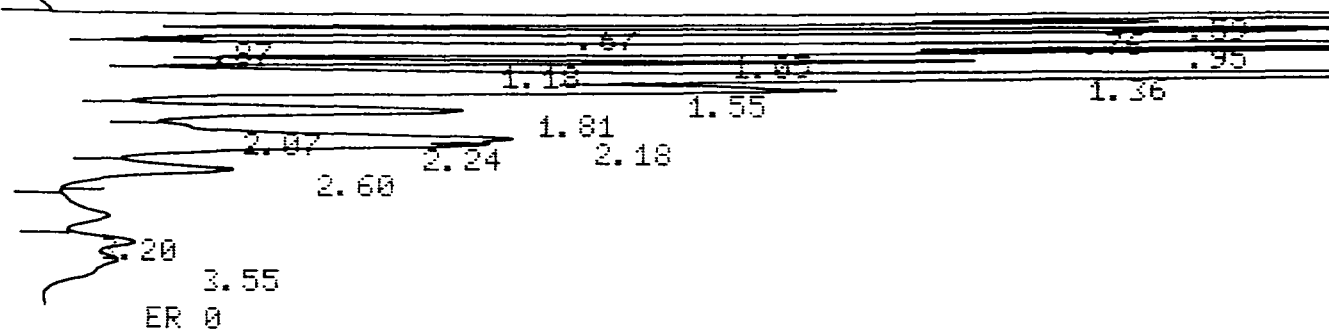
FILE 1. METHOD 0. RUN 19 INDEX 19

PEAK#	AREA%	RT	AREA BC
1	45.644	0.6	598607 02
2	2.316	0.68	30380 02
3	6.353	0.77	83319 02
4	0.274	0.88	3592 02
5	8.35	0.96	109509 02
6	3.436	1.06	45065 02
7	3.158	1.19	41419 02
8	10.53	1.38	138102 02
9	5.62	1.56	73711 02
10	3.587	1.82	47036 02
11	0.639	2.08	8375 02
12	2.86	2.19	37508 02
13	3.006	2.26	39419 02
14	1.768	2.61	23187 03
15	0.501	3.24	6570 02
16	0.849	3.57	11132 02
17	1.109	3.81	14541 03

TOT 003 1077

CHANNEL A INJECT 11/04/87 16:26:45

AZ 1



GCL 11/04/87 16:26:45 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 20 INDEX 20

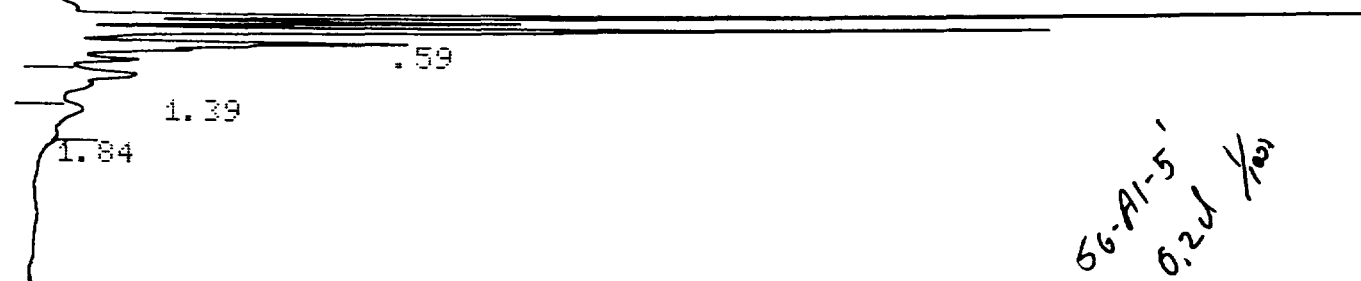
PEAK#	AREA%	RT	AREA	BC
1	45.22	0.59	547086	02
2	2.391	0.67	28926	02
3	6.353	0.76	76857	02
4	0.267	0.87	3226	02
5	8.359	0.95	101128	02
6	3.549	1.05	42933	02
7	3.121	1.18	37761	02
8	10.56	1.36	127760	02
9	5.686	1.55	68790	02
10	3.597	1.81	43516	02
11	0.631	2.07	7629	02
12	2.791	2.18	33769	02
13	3.007	2.24	36374	02
14	1.75	2.6	21175	03
15	0.691	3.2	8354	02
16	2.029	3.55	24542	03

TOTAL 100. 1209826

56-A1-5'
0.2d 1/200

CHANNEL A INJECT 11/04/87 16:38:48

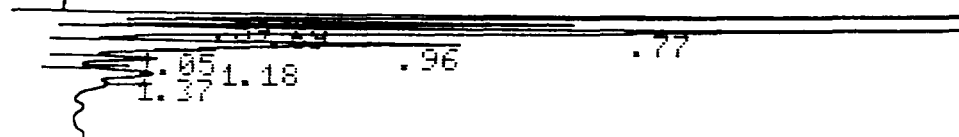
AZ 1



56-A1-5'
0.2d 1/200

CHANNEL A INJECT 11/04/87 16:43:45

AZ 1



TUT 003 1078

GCL 11/04/87 16:43:45 CH= "A" PS= 1.

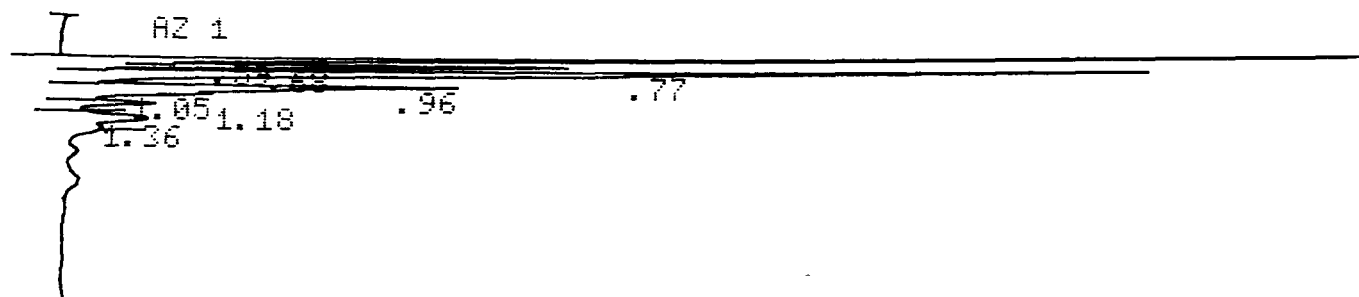
FILE 1. METHOD 0. RUN 21 INDEX 21

PEAK#	AREA%	RT	AREA BC
1	27.629	0.59	31472 02
2	12.804	0.69	14585 02
3	35.491	0.77	40427 02
4	14.903	0.96	16976 02
5	3.701	1.05	4216 02
6	2.542	1.18	2896 03
7	2.93	1.37	3337 01

TOTAL 100. 113909

56-A1-5
0.24

CHANNEL A INJECT 11/04/87 16:50:52



GCL 11/04/87 16:50:52 CH= "A" PS= 1.

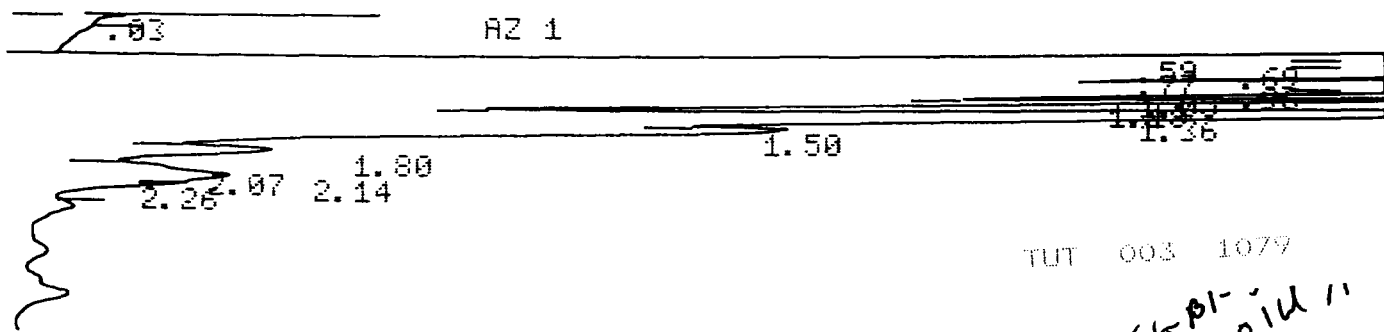
FILE 1. METHOD 0. RUN 22 INDEX 22

PEAK#	AREA%	RT	AREA BC
1	27.296	0.59	30880 02
2	12.614	0.68	14270 02
3	35.574	0.77	40246 02
4	15.077	0.96	17057 02
5	3.59	1.05	4061 02
6	2.66	1.18	3009 03
7	3.19	1.36	3609 01

TOTAL 100. 113132

56-B1-5
0.52 / 1000

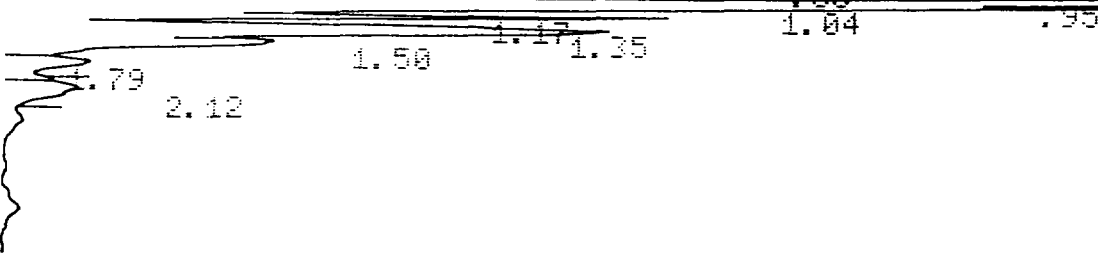
16:59:54
CHANNEL A INJECT 11/04/87 17:02:36



TUT 003 1079

56-B1-5
0.14

AZ 1



GCL 11/04/87 17:10:21 CH= "A" PS= 1.

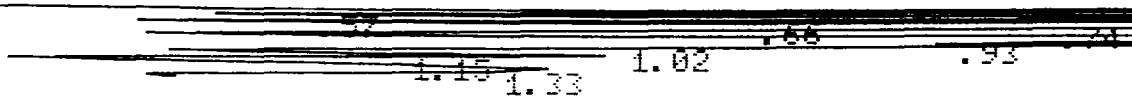
FILE 1. METHOD 0. RUN 23 INDEX 23

PEAK#	AREA%	RT	AREA BC
1	12.419	0.59	93914 02
2	11.204	0.68	84730 02
3	37.282	0.76	281936 02
4	16.635	0.95	125793 02
5	6.716	1.04	50790 02
6	3.818	1.17	28874 02
7	7.718	1.35	58363 02
8	3.09	1.5	23364 02
9	0.51	1.79	3859 03
10	0.607	2.12	4593 01

TOTAL 100. 756216

*56-11-15
21/1/88*

CHANNEL A INJECT 11/04/87 17:15:53
AZ 1



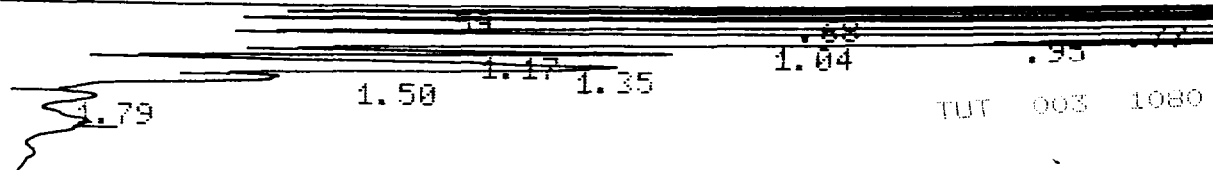
READY
DATE " 11/4/87
TIME " 17:20
FI= 1. FE= 1. MN= 0.
PRESS 'ENTER' TO SKIP ENTRY
FILE NAME=" GCL
TIME FUNCTION VALUE
TT= .01 TF=" AZ TV= 1
TT= .01 TF=" PM TV= 1
TT=

*Power
was
cut off!*

METHOD NUMBER:MN=

END OF DIALOG
AT= 8
PT=200
OF=10

CHANNEL A INJECT 11/04/87 17:21:40
AZ 1



TOT 003 1080

FILE 1. METHOD 0. RUN 1 INDEX 1

PEAK#	AREA%	RT	AREA	BC
1	12.125	0.59	90511	02
2	11.293	0.68	84306	02
3	37.685	0.77	281317	02
4	16.99	0.95	126827	02
5	6.826	1.04	50957	02
6	3.805	1.17	28402	02
7	7.767	1.35	57981	02
8	3.049	1.5	22761	02
9	0.461	1.79	3439	03

TOTAL 100. 746501

10/5/87

42 psi N₂-30 min
60 psi Air-300
40 psi H₂-30
Fid 80°C Iso
250°C detector
200°C Injector

AT-8
PT-200
Volage 16

M. Kishly

5ul 5ul
BTX

READY

DATE " 11/5/87

TIME " 07:42

FI= 1. FE= 1. MN= 0.

PRESS 'ENTER' TO SKIP ENTRY

FILE NAME=" GCL

TIME FUNCTION VALUE

TT= .01 TF=" AZ TV= 1

TT= .01 TF=" PM TV= 1

TT= 5.0 TF=" ER TV= 1

TT=

METHOD NUMBER:MN=

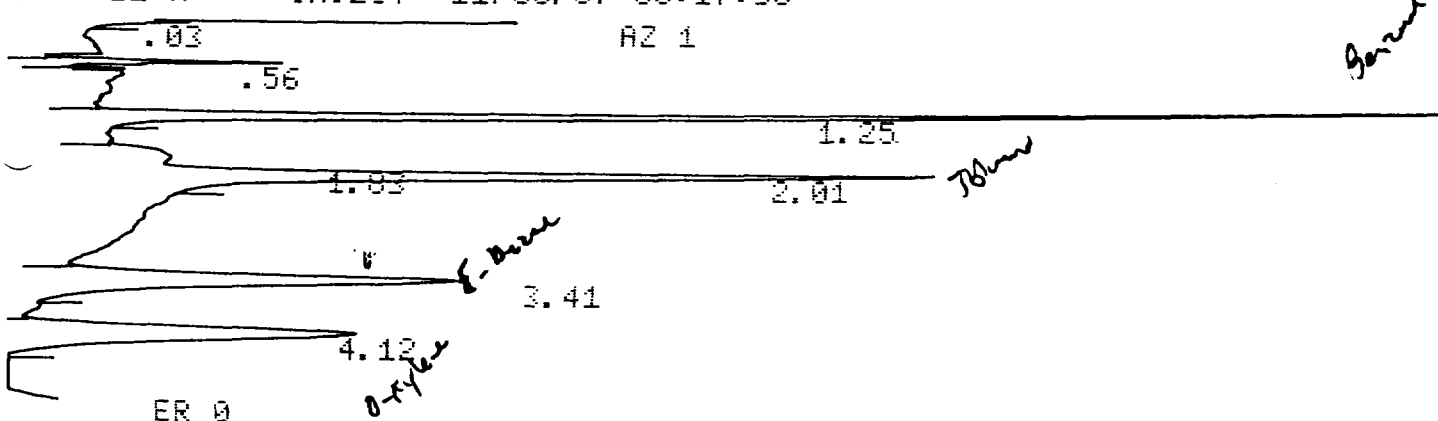
END OF DIALOG

AT= 8

PT=200

OF=10

CHANNEL A INJECT 11/05/87 08:17:35



GCL 11/05/87 08:17:35 CH= "A" PS= 1.

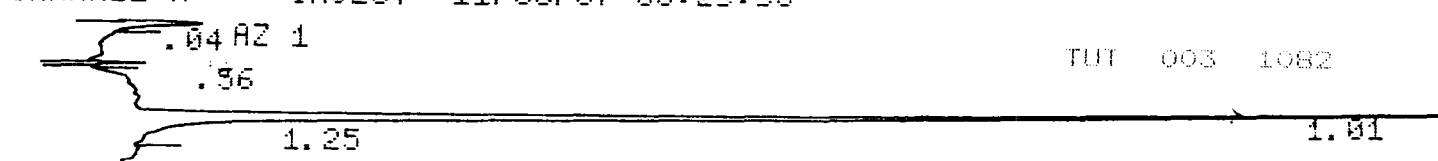
FILE 1. METHOD 0. RUN 1 INDEX 1

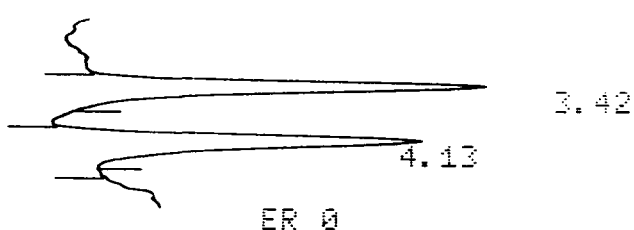
PEAK#	AREAZ	RT	AREA BC
1	1.064	0.03	2296 01
2	2.748	0.56	5930 03
3	25.224	1.25	54422 01
4	2.797	1.83	6035 02
5	25.4	2.01	54803 03
6	20.889	3.41	45070 01
7	21.877	4.12	47200 01

TOTAL 100. 215756

5ul 5ul
BTX

CHANNEL A INJECT 11/05/87 08:23:36





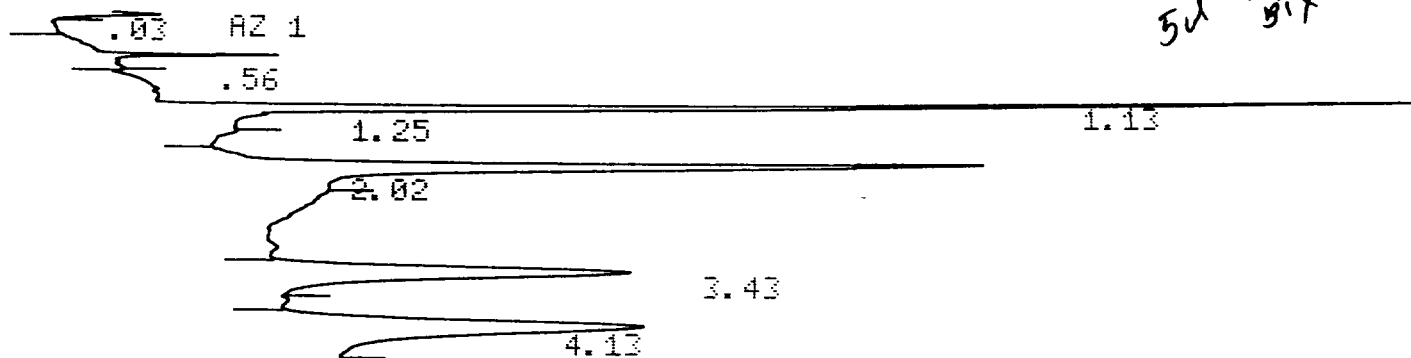
GCL 11/05/87 08:23:36 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 2 INDEX 2

PEAK#	AREA%	RT	AREA BC
1	1.463	0.04	3200 01
2	0.394	0.56	861 01
3	3.279	1.01	7172 02
4	28.528	1.25	62401 03
5	22.671	2.03	49590 01
6	21.203	3.42	46378 01
7	22.462	4.13	49131 01

TOTAL 100. 218733

CHANNEL A INJECT 11/05/87 08:29:23



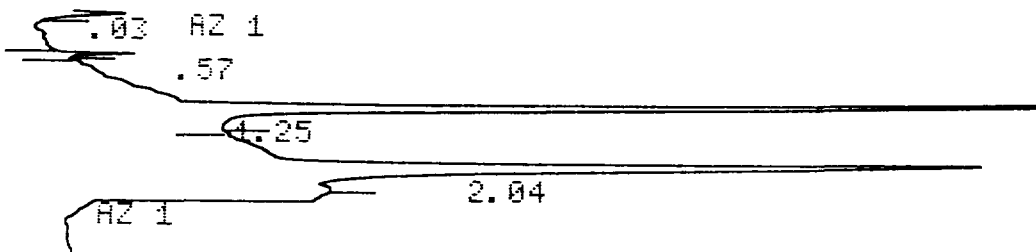
GCL 11/05/87 08:29:23 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 3 INDEX 3

PEAK#	AREA%	RT	AREA BC
1	1.166	0.03	2291 01
2	2.094	0.56	4112 01
3	0.489	1.13	960 02
4	26.631	1.25	52306 03
5	24.513	2.02	48147 01
6	20.387	3.43	40043 01
7	24.72	4.13	48553 01

TOTAL 100. 196412

CHANNEL A INJECT 11/05/87 08:35:28



TOT 003 1083

4.14

GCL 11/05/87 08:35:28 CH= "A" PS= 1.

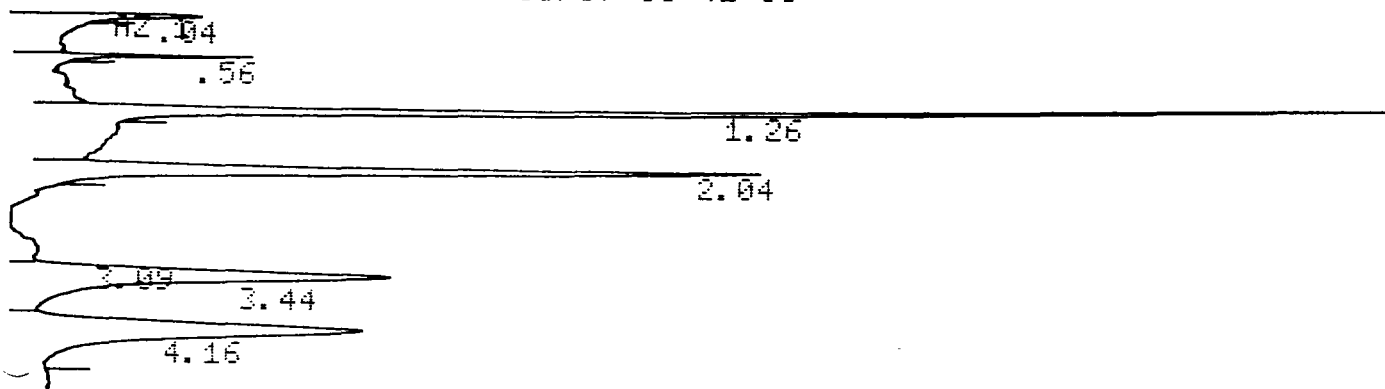
FILE 1. METHOD 0. RUN 4 INDEX 4

PEAK#	AREA%	RT	AREA BC
1	1.181	0.03	2266 01
2	0.654	0.57	1255 01
3	28.65	1.25	54981 01
4	25.501	2.04	48937 01
5	22.495	3.44	43169 01
6	21.52	4.14	41297 01

TOTAL 100. 191905

5d 3d.
BTX

CHANNEL A INJECT 11/05/87 08:42:05



GCL 11/05/87 08:42:05 CH= "A" PS= 1.

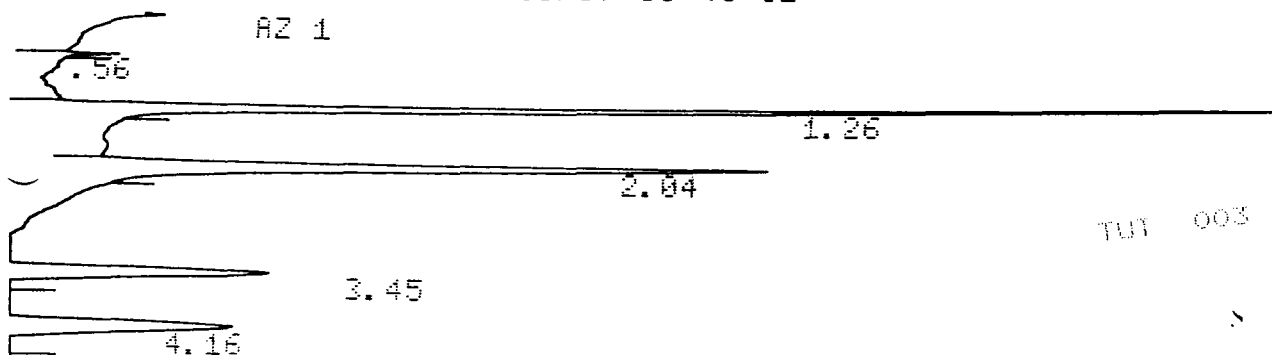
FILE 1. METHOD 0. RUN 5 INDEX 5

PEAK#	AREA%	RT	AREA BC
1	1.61	0.04	3430 01
2	1.704	0.56	3629 01
3	24.157	1.26	51457 01
4	21.14	2.04	45029 01
5	3.371	3.09	7181 02
6	24.351	3.44	51869 02
7	23.667	4.16	50413 03

TOTAL 100. 213008

5d 3d.
BTX

CHANNEL A INJECT 11/05/87 08:48:52



TUT 003 1084

GCL 11/05/87 08:48:52 CH= "A" PS= 1.

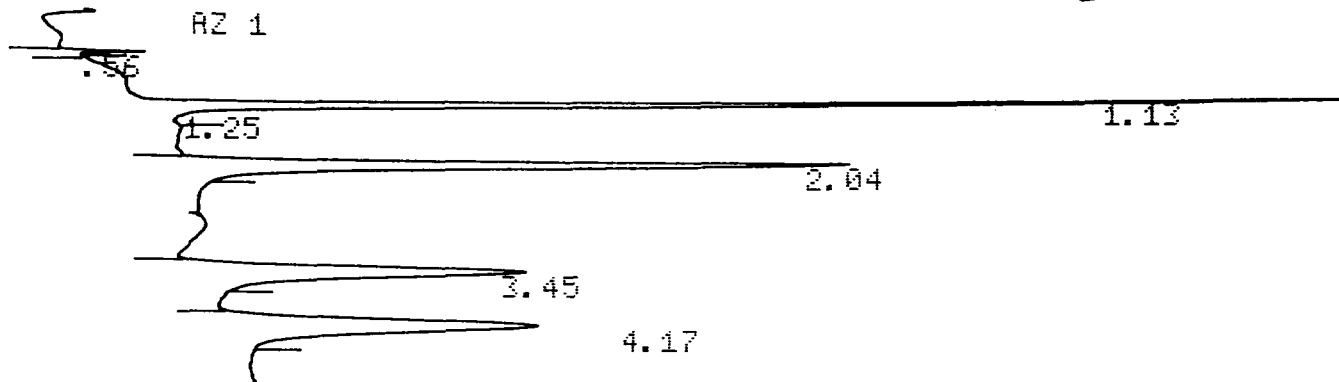
FILE 1. METHOD 0. RUN 6 INDEX 6

PEAK#	AREA%	RT	AREA BC
1	0.537	0.56	936 01
2	28.236	1.26	49256 01
3	26.803	2.04	46757 01
4	20.233	3.45	35295 01
5	24.191	4.16	42200 01

TOTAL 100. 174444

CHANNEL A INJECT 11/05/87 08:56:33

AZ 1



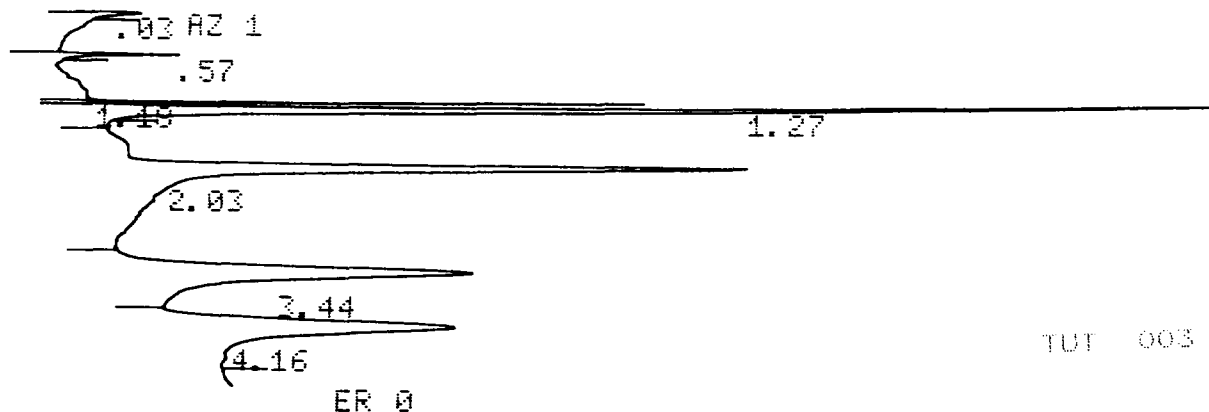
GCL 11/05/87 08:56:33 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 7 INDEX 7

PEAK#	AREA%	RT	AREA BC
1	0.721	0.56	1237 01
2	1.201	1.13	2062 02
3	27.919	1.25	47921 03
4	26.221	2.04	45007 01
5	21.054	3.45	36137 01
6	22.884	4.17	39278 01

TOTAL 100. 171642

CHANNEL A INJECT 11/05/87 09:02:44



ER 0

GCL 11/05/87 09:02:44 CH= "A" PS= 1.

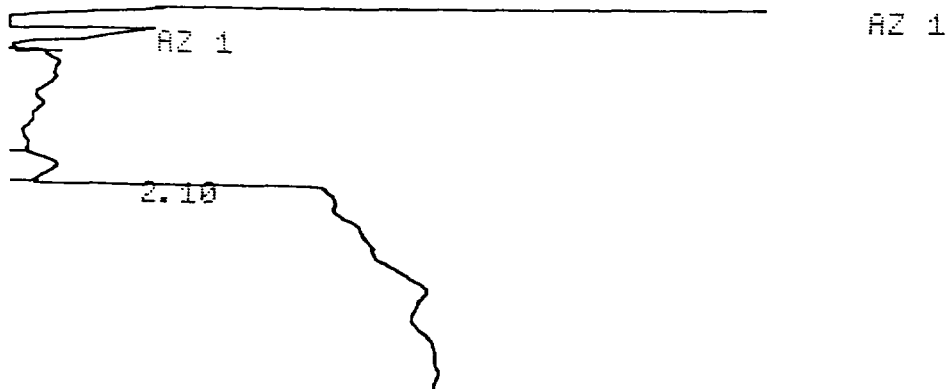
FILE 1. METHOD 0. RUN 8 INDEX 8

1	0.706	0.03	1443	01
2	1.039	0.57	2123	01
3	1.311	1.18	2680	02
4	21.918	1.27	44793	03
5	33.639	2.03	68749	02
6	21.625	3.44	44196	02
7	19.761	4.16	40386	03

TOTAL 100. 204370

*N2 Blank
2000*

CHANNEL A INJECT 11/05/87 09:12:38



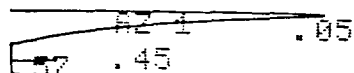
GCL 11/05/87 09:12:38 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 9 INDEX 9

PEAK#	AREA%	RT	AREA BC
1	1.182	2.1	3113 02
2	98.818	4.91	260205 03

TOTAL 100. 263318

CHANNEL A INJECT 11/05/87 09:19:52



*At Smith
2000*

GCL 11/05/87 09:19:52 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 10 INDEX 10

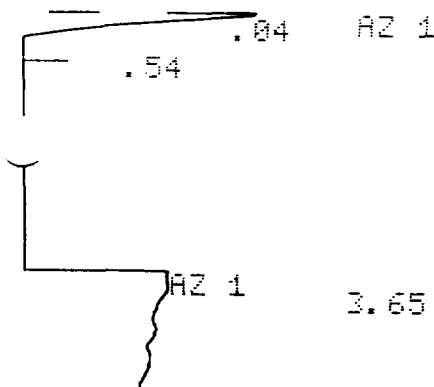
PEAK#	AREA%	RT	AREA BC
1	81.204	0.05	102480 02
2	7.559	0.45	9540 02
3	11.237	0.57	14181 03

TOTAL 100. 126201

TOT 003 1086

*At Smith
2000*

CHANNEL A INJECT 11/05/87 09:27:01



GCL 11/05/87 09:27:01 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 11 INDEX 11

PEAK#	AREA%	RT	AREA BC
1	85.41	0.04	91881 02
2	14.59	0.54	15696 03

TOTAL 100. 107577

CHANNEL A INJECT 11/05/87 09:46:20

~~0.55~~ ~~AZ 1~~ ~~AZ 1~~ ~~AZ 1~~

CHANNEL A INJECT 11/05/87 09:50:15

~~0.05~~ ~~0.43~~ ~~0.042~~ 1

2.14

2.60

3.47

ER 0

GCL 11/05/87 09:50:15 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 12 INDEX 12

PEAK#	AREA%	RT	AREA BC
1	64.209	0.04	79939 02
2	12.248	0.43	15248 02
3	5.243	0.55	6528 03
4	4.449	2.6	5539 01
5	13.851	3.47	17244 03

TOTAL 100. 124498

09:50:15

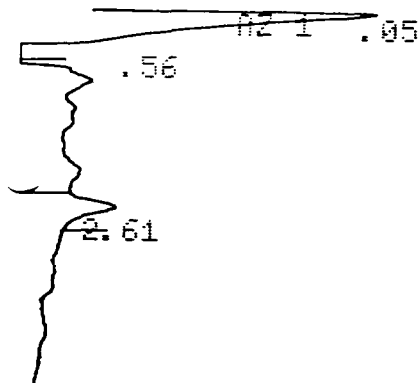
*Drift #2-2.5
2001*

*Drift #2-2.5
2001*

TUT 003 1087

*Drift #2-2.5
2001*

CHANNEL A INJECT 11/05/87 09:57:22



GCL 11/05/87 09:57:22 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 13 INDEX 13

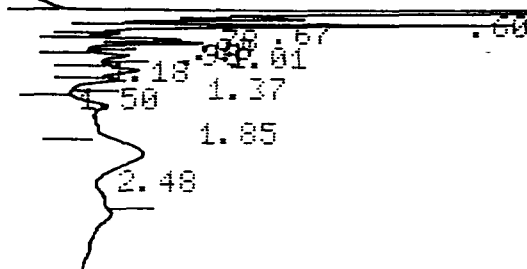
PEAK#	AREA%	RT	AREA	BC
1	88.561	0.05	101657	02
2	6.05	0.56	6945	03
3	5.389	2.61	6186	01

TOTAL 100. 114788

60-A3-5'
0.51 1/10

CHANNEL A INJECT 11/05/87 10:20:58

AZ 1



GCL 11/05/87 10:20:58 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 14 INDEX 14

PEAK#	AREA%	RT	AREA	BC
1	58.373	0.6	70024	02
2	6.807	0.67	8166	02
3	10.108	0.78	12126	02
4	1.026	0.88	1231	02
5	2.125	0.96	2549	02
6	2.731	1.01	3276	03
7	0.952	1.18	1142	01
8	1.983	1.37	2379	02
9	1.38	1.5	1655	03
10	5.188	1.85	6224	02
11	9.326	2.48	11188	03

TOTAL 100. 119960

60-A3-5'
2.2 1/10

CHANNEL A INJECT 11/05/87 10:25:52

AZ 1

TOT 003 1088



GCL 11/05/87 10:25:52 CH= "A" PS= 1.

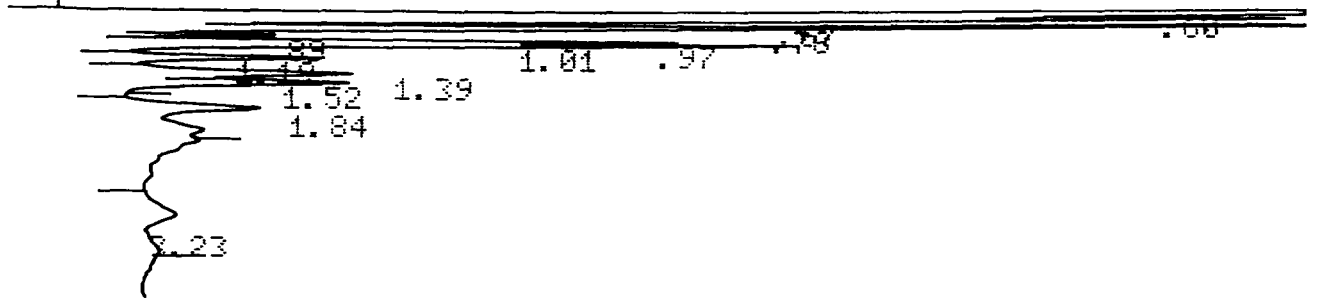
FILE 1. METHOD 0. RUN 15 INDEX 15

PEAK#	AREA%	RT	AREA	BC
1	66.181	0.59	356888	02
2	7.148	0.67	38547	02
3	10.692	0.77	57660	02
4	0.952	0.88	5135	02
5	2.632	0.95	14191	02
6	4.204	1.	22670	02
7	1.73	1.17	9328	02
8	2.432	1.38	13113	02
9	2.18	1.5	11757	03
10	1.849	1.82	9970	01

TOTAL 100. 539259

SG-A3-5
2d Y100

CHANNEL A INJECT 11/05/87 10:31:30
AZ 1



GCL 11/05/87 10:31:30 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 16 INDEX 16

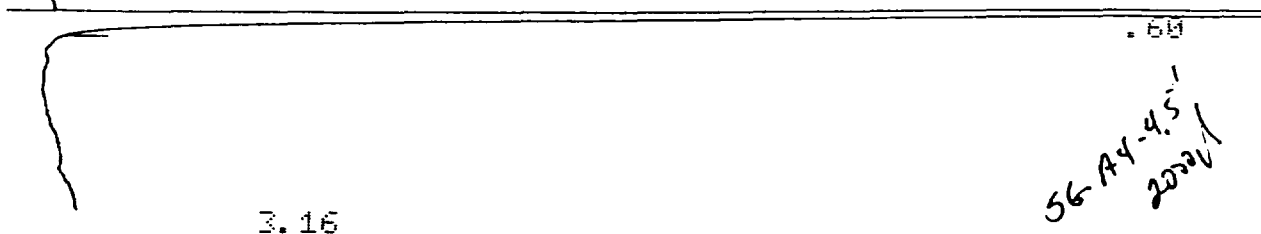
PEAK#	AREA%	RT	AREA	BC
1	65.446	0.6	381219	02
2	7.043	0.67	41028	02
3	10.576	0.78	61607	02
4	1.01	0.89	5882	02
5	2.787	0.97	16237	02
6	4.131	1.01	24064	02
7	1.917	1.19	11168	02
8	2.729	1.39	15898	02
9	2.273	1.52	13243	03
10	1.57	1.84	9145	01
11	0.516	3.23	3005	01

TOTAL 100. 582496

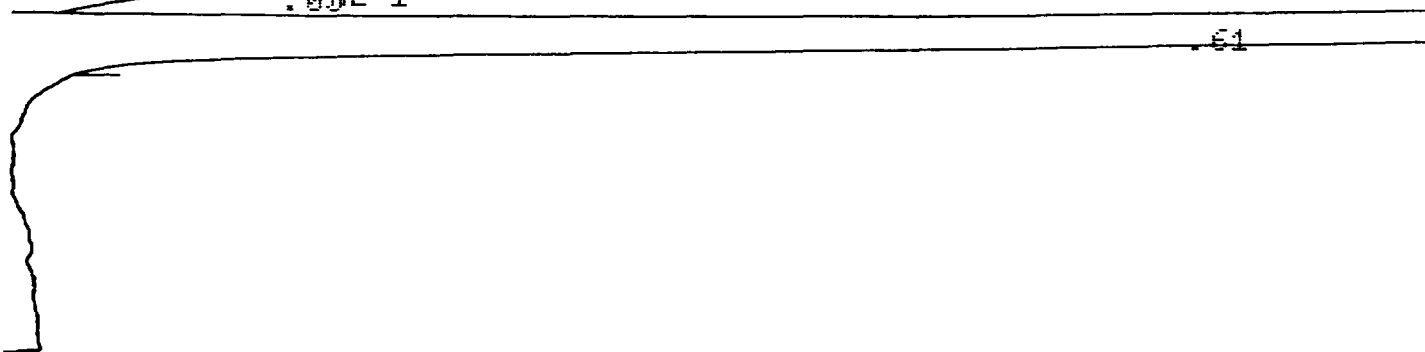
TOT 003 1089

SG-A4-4.5
500

CHANNEL A INJECT 11/05/87 11:03:15
AZ 1



CHANNEL A INJECT 11/05/87 11:07:11
AZ 1

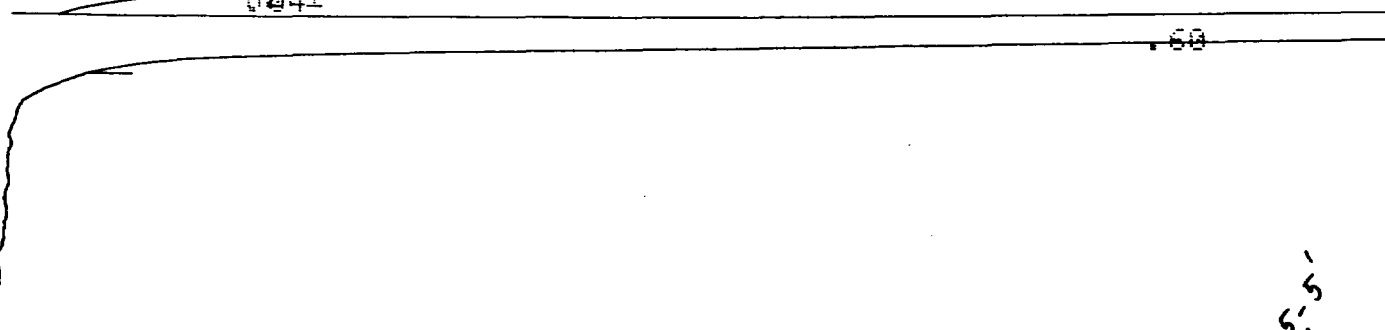


GCL 11/05/87 11:07:11 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 17 INDEX 17

PEAK#	AREA%	RT	AREA BC
1	0.091	0.05	21299 02
2	99.909	0.61	23395873 03
TOTAL	100.		23417172

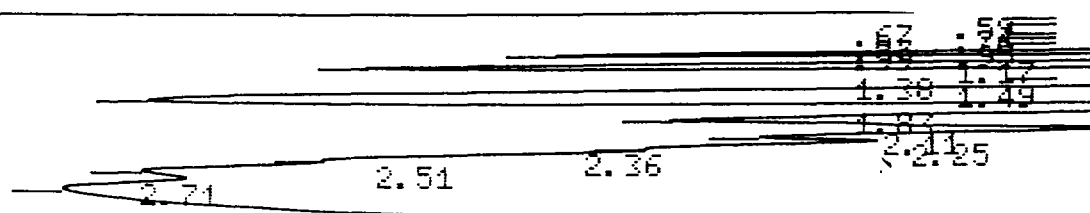
CHANNEL A INJECT 11/05/87 11:13:26
AZ 1



CHANNEL A INJECT 11/05/87 11:18:14
AZ 1

CHANNEL A INJECT 11/05/87 11:19:35
AZ 1

TUT 003 1090



1195 4.75

1221

GCL 11/05/87 11:19:35 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 18 INDEX 18

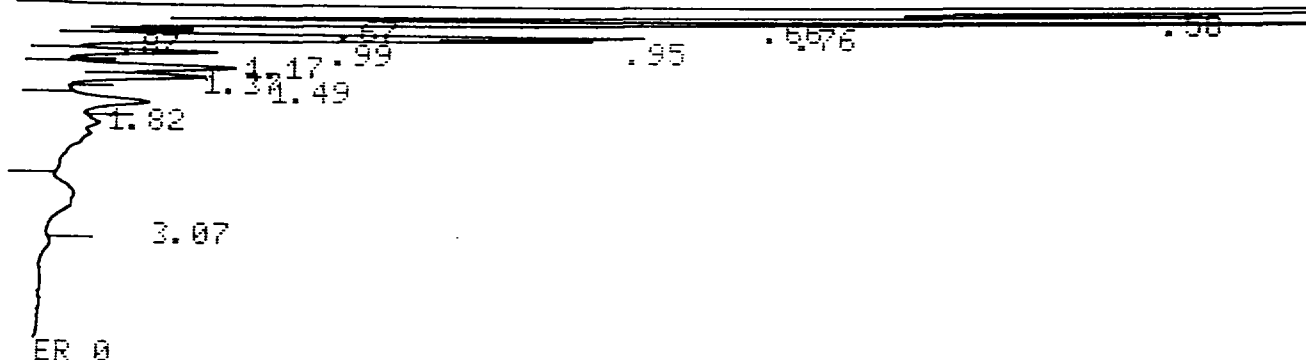
PEAK#	AREA%	RT	AREA BC
1	54.215	0.59	6056141 02
2	9.539	0.67	1065612 02
3	13.416	0.76	1498591 02
4	0.937	0.87	104646 02
5	4.243	0.95	473964 02
6	4.374	0.99	488587 02
7	1.831	1.17	204554 02
8	2.967	1.38	331376 02
9	2.291	1.49	255917 02
10	2.063	1.83	230470 02
11	1.308	2.11	146073 02
12	0.724	2.25	80889 02
13	0.404	2.36	45154 02
14	0.246	2.51	27453 02
15	0.254	2.71	28418 02
16	1.007	3.23	112477 02
17	0.181	3.69	20215 03

TOTAL 100. 11170537

56-A35-5
24/100

CHANNEL A INJECT 11/05/87 11:27:46

AZ 1



GCL 11/05/87 11:27:46 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 19 INDEX 19

PEAK#	AREA%	RT	AREA BC
1	71.524	0.58	400639 02
2	3.263	0.66	18277 02
3	3.437	0.67	19251 02
4	9.513	0.76	53289 02
5	0.609	0.87	3412 02
6	3.08	0.95	17250 02
7	2.764	0.99	15482 02
8	1.025	1.17	5742 03
9	1.725	1.37	9664 02
10	1.309	1.49	7334 03
11	0.92	1.82	5153 01

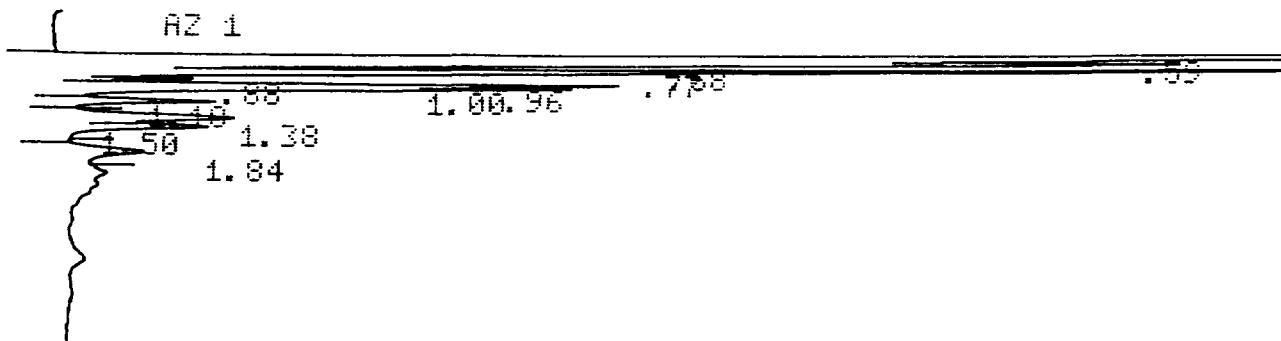
TUT 003 1091

5

TOTAL 100. 560148

56A 2d 1

11:37:20
CHANNEL A INJECT 11/05/87 11:38:40



GCL 11/05/87 11:38:40 CH= "A" PS= 1.

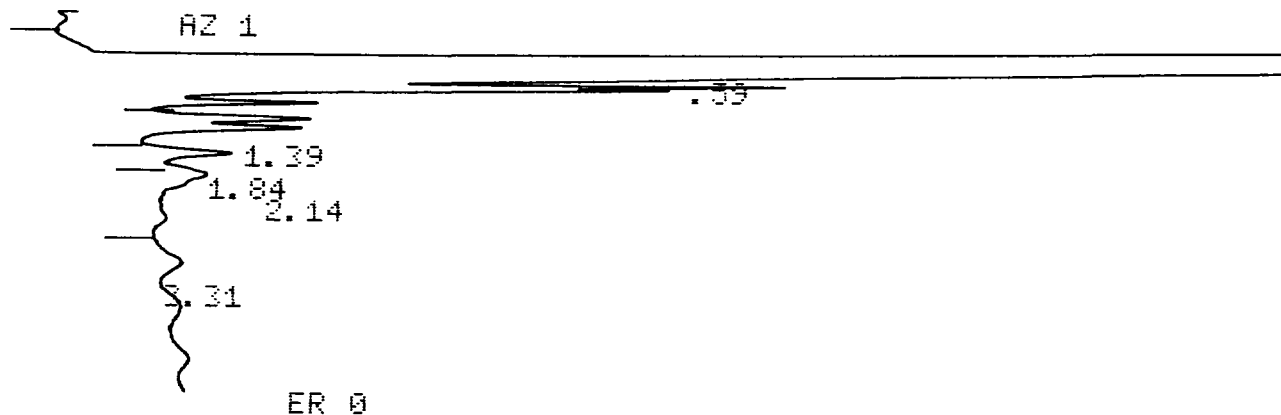
FILE 1. METHOD 0. RUN 20 INDEX 20

PEAK#	AREA%	RT	AREA	BC
1	70.853	0.59	364865	02
2	7.03	0.68	36203	02
3	9.959	0.77	51283	02
4	0.684	0.88	3522	02
5	3.201	0.96	16486	02
6	2.968	1.	15286	02
7	1.078	1.18	5550	03
8	1.961	1.38	10096	02
9	1.384	1.5	7127	03
10	0.882	1.84	4544	01

TOTAL 100. 514962

56A4-5.5
501

CHANNEL A INJECT 11/05/87 11:45:08



GCL 11/05/87 11:45:08 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 21 INDEX 21

PEAK#	AREA%	RT	AREA	BC
1	98.741	0.59	8443914	02
2	0.421	1.39	36022	02
3	0.201	1.84	17221	02
4	0.361	2.14	30891	02
5	0.075	5.31	3755	02

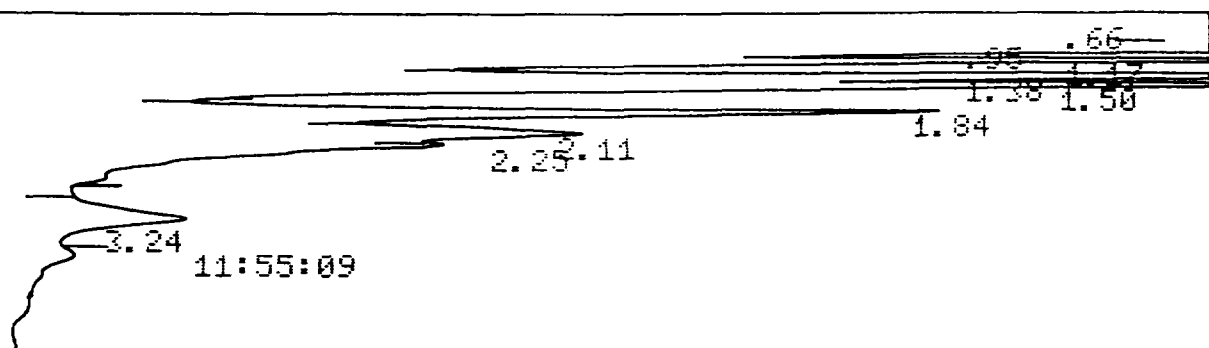
TUT 003 1092

5.5

TOTAL 100.

8551602

56' 20"

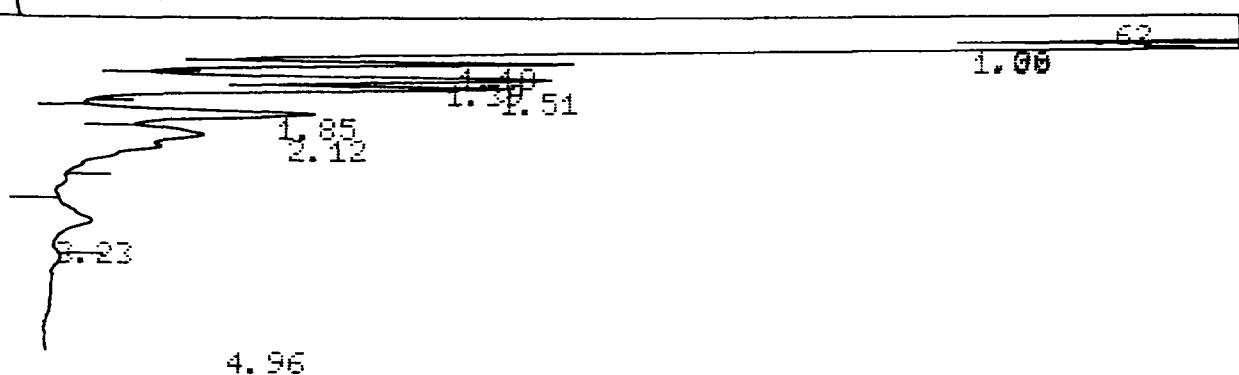
CHANNEL A INJECT 11/05/87 11:51:27
AZ 1

GCL 11/05/87 11:51:27 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 22 INDEX 22

PEAK#	AREA%	RT	AREA	BC
1	97.811	0.66	23096469	08
2	0.621	0.95	146686	05
3	0.178	1.17	42131	05
4	0.341	1.38	80640	06
5	0.297	1.5	70201	07
6	0.276	1.84	65085	06
7	0.235	2.11	55463	06
8	0.166	2.25	39239	07
9	0.074	3.24	17572	01

TOTAL 100. 23613486

56-A4-5.5'
100hCHANNEL A INJECT 11/05/87 11:57:58
AZ 1

GCL 11/05/87 11:57:58 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 23 INDEX 23

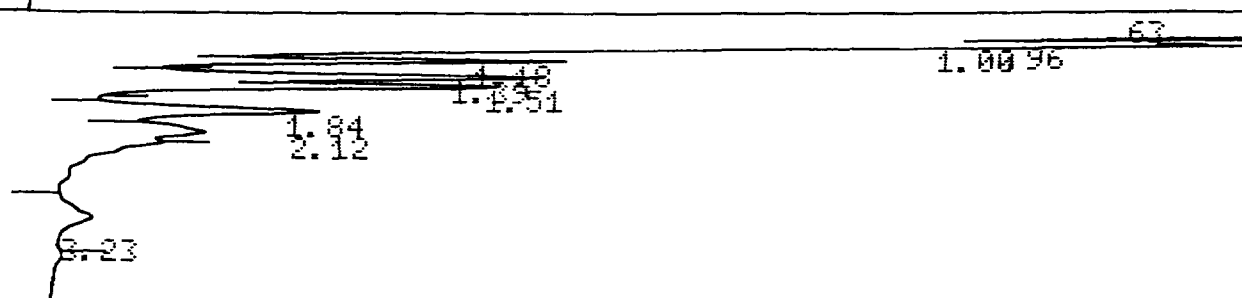
PEAK#	AREA%	RT	AREA	BC
1	98.785	0.62	12978697	08
2	0.211	0.96	27706	06
3	0.163	1.	21363	07
4	0.101	1.18	13237	05
5	0.188	1.39	24754	06
6	0.165	1.51	21702	07
7	0.148	1.85	19290	02

TUF 003 1093

9 0.039 3.23 5103 01 (5)
TOTAL 100. 13138364

56-A4-1004

CHANNEL A INJECT 11/05/87 12:03:39
AZ 1



GCL 11/05/87 12:03:39 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 24 INDEX 24

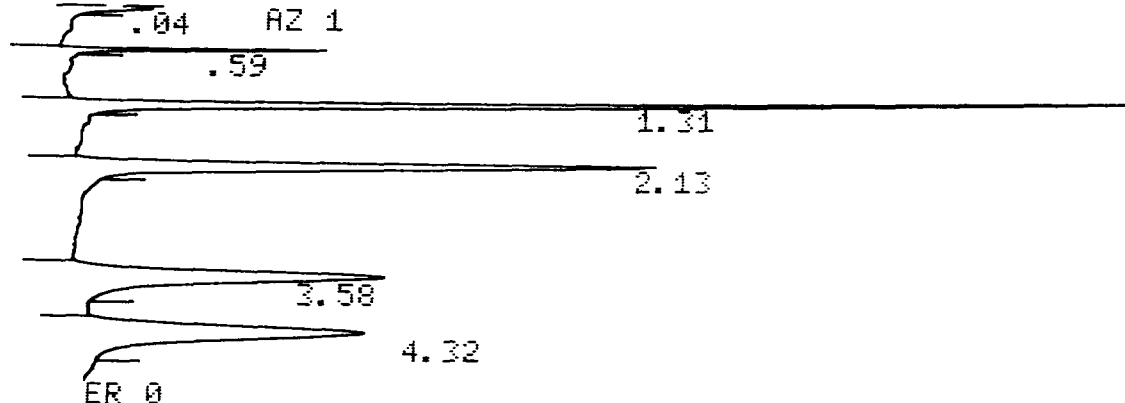
PEAK#	AREA%	RT	AREA BC
1	99.027	0.63	12901618 08
2	0.204	0.96	26606 06
3	0.144	1.	18796 07
4	0.096	1.18	12541 05
5	0.183	1.39	23821 06
6	0.157	1.51	20414 07
7	0.115	1.84	14938 02
8	0.04	2.12	5192 03
9	0.034	3.23	4482 01

TOTAL 100. 13028408

126770

54 541

CHANNEL A INJECT 11/05/87 12:09:37
AZ 1



GCL 11/05/87 12:09:37 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 25 INDEX 25

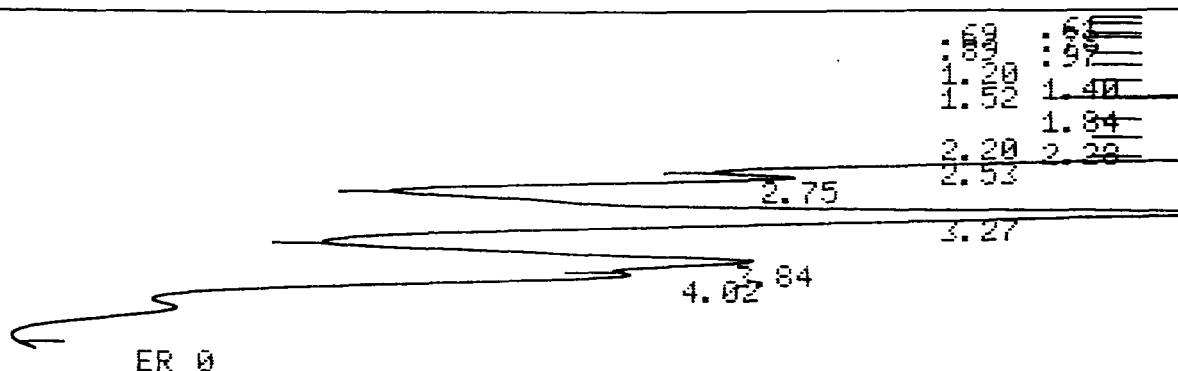
PEAK#	AREA%	RT	AREA BC
1	1.462	0.04	2364 01
2	3.013	0.59	4873 01
3	25.792	1.31	41717 01
4	23.524	2.13	38049 01

101 003 1094

TOTAL 100. 161744

56-B3.5-521

CHANNEL A INJECT 11/05/87 12:16:16
AZ 1



GCL 11/05/87 12:16:16 CH= "A" PS= 1.

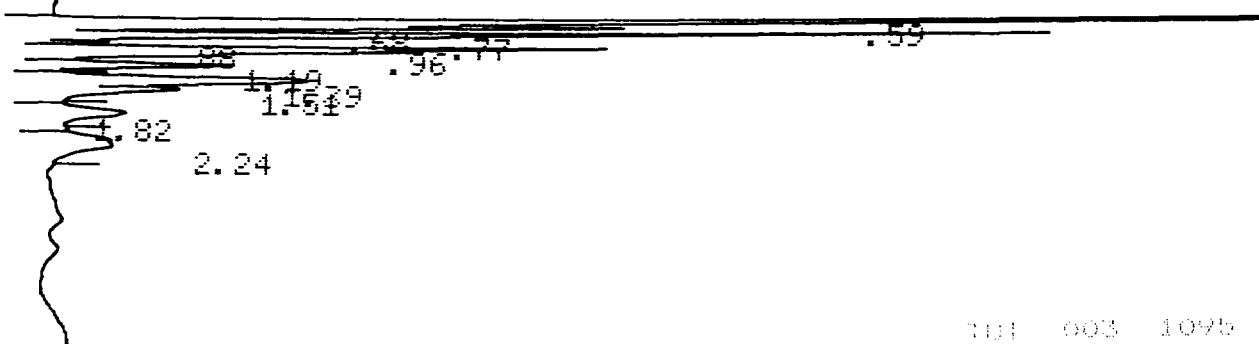
FILE 1. METHOD 0. RUN 26 INDEX 26

PEAK#	AREA%	RT	AREA	BC
1	35.205	0.61	6804949	02
2	7.171	0.69	1386052	02
3	12.985	0.78	2509847	02
4	0.682	0.89	131915	02
5	13.382	0.97	2586658	02
6	3.553	1.2	686701	02
7	8.651	1.4	1672153	02
8	4.245	1.52	820475	02
9	3.79	1.84	732658	02
10	3.333	2.2	644170	02
11	2.927	2.28	565729	02
12	0.614	2.53	118683	02
13	0.494	2.75	95476	02
14	1.586	3.27	306588	02
15	0.77	3.84	148837	02
16	0.613	4.02	118585	03

TOTAL 100. 19329476

56-B3.5-51
14 1/10

CHANNEL A INJECT 11/05/87 12:26:52
AZ 1



101 003 1095

GCL 11/05/87 12:26:52 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 27 INDEX 27

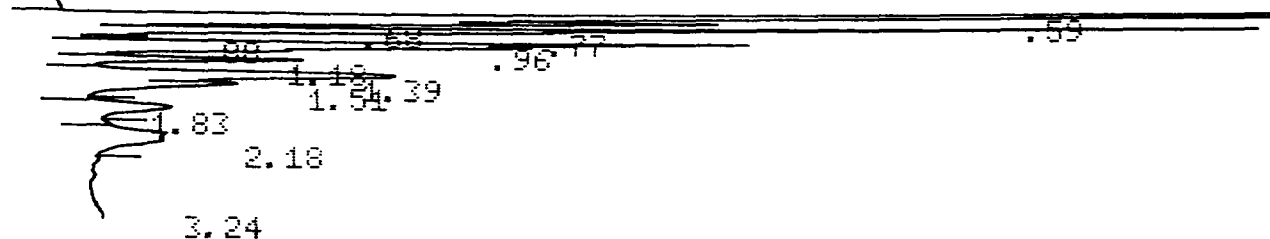
1	61.458	0.59	192278	02
2	5.197	0.68	16259	02
3	9.657	0.77	30213	02
4	0.417	0.88	1304	02
5	9.273	0.96	29011	02
6	2.075	1.19	6493	03
7	5.636	1.39	17632	02
8	2.352	1.51	7357	03
9	1.629	1.82	5095	01
10	2.307	2.24	7218	01

TOTAL 100. 312860

120582

56-035-5
1/1 1/10

CHANNEL A INJECT 11/05/87 12:32:43
AZ 1



GCL 11/05/87 12:32:43 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 28 INDEX 28

PEAK#	AREAX	RT	AREA	BC
1	58.001	0.59	211030	02
2	5.279	0.68	19206	02
3	10.097	0.77	36738	02
4	0.538	0.88	1956	02
5	10.337	0.96	37610	02
6	2.575	1.19	9368	02
7	6.409	1.39	23318	02
8	2.715	1.51	9878	03
9	1.752	1.82	6374	01
10	2.299	2.18	8363	01

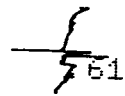
TOTAL 100. 363841

152811

56-03-5
0.58 1/10

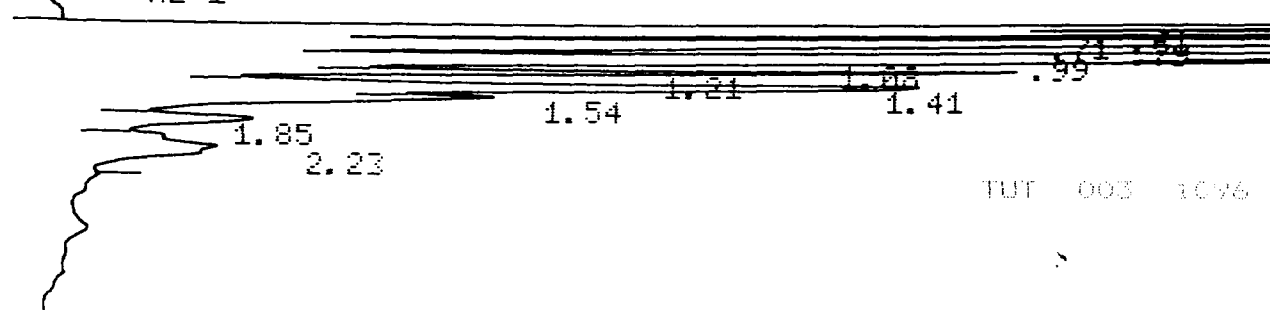
56.14 13:28:53

CHANNEL A INJECT 11/05/87 13:32:48
AZ 1



56-03-5
50L

CHANNEL A INJECT 11/05/87 13:34:28
AZ 1



GCL 11/05/87 13:34:28 CH= "A" PS= 1.

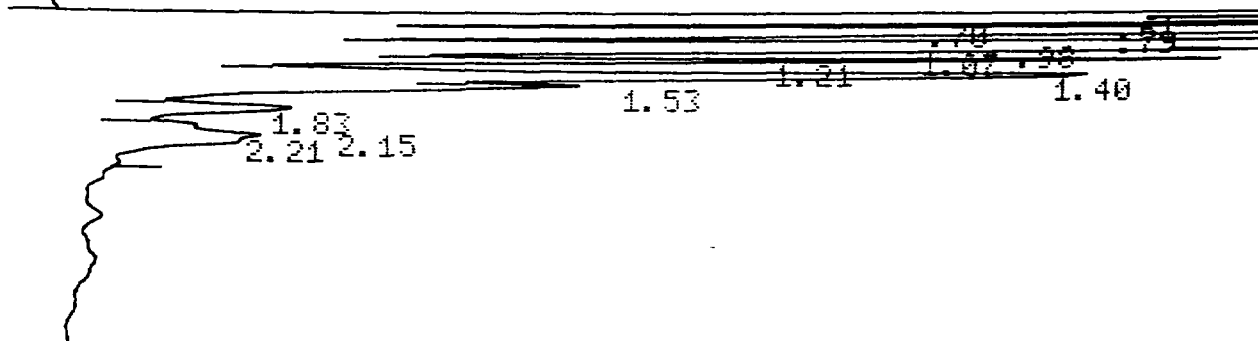
FILE 1. METHOD 0. RUN 29 INDEX 29

PEAK#	AREA%	RT	AREA	BC
1	28.483	0.61	356724	02
2	10.861	0.71	136029	02
3	28.479	0.79	356670	02
4	12.823	0.99	160593	02
5	3.468	1.08	43432	02
6	3.529	1.21	44197	02
7	5.986	1.41	74966	02
8	3.042	1.54	38101	02
9	1.488	1.85	18639	02
10	1.841	2.23	23055	03

TOTAL 100. 1252406

CHANNEL A INJECT 11/05/87 13:40:15

AZ 1



GCL 11/05/87 13:40:15 CH= "A" PS= 1.

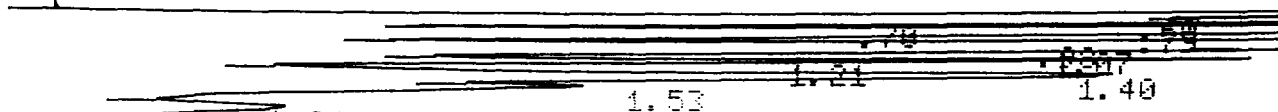
FILE 1. METHOD 0. RUN 30 INDEX 30

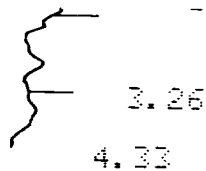
PEAK#	AREA%	RT	AREA	BC
1	28.121	0.61	421404	02
2	10.82	0.7	162136	02
3	28.736	0.79	430619	02
4	12.819	0.98	192103	02
5	3.612	1.07	54125	02
6	3.517	1.21	52706	02
7	5.959	1.4	89293	02
8	2.993	1.53	44854	02
9	1.429	1.83	21408	02
10	0.538	2.15	8059	02
11	1.457	2.21	21832	03

TOTAL 100. 1498539

CHANNEL A INJECT 11/05/87 13:47:37

AZ 1





GCL 11/05/87 13:47:37 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 31 INDEX 31

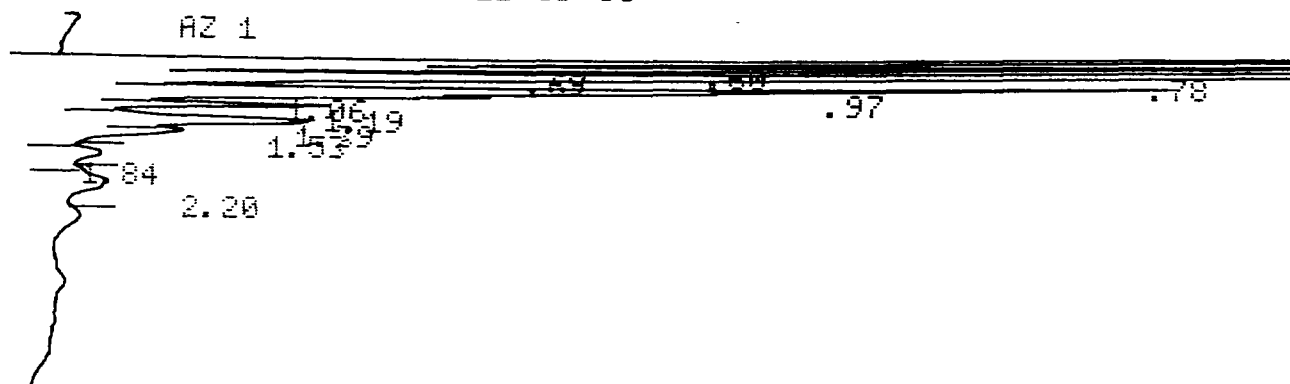
PEAK#	AREA%	RT	AREA BC
1	27.893	0.6	429715 02
2	10.783	0.7	166124 02
3	28.864	0.79	444678 02
4	12.904	0.98	198806 02
5	3.535	1.07	54464 02
6	3.576	1.21	55092 02
7	5.964	1.4	91876 02
8	2.968	1.53	45720 02
9	1.39	1.84	21413 02
10	0.528	2.15	8140 02
11	1.494	2.21	23024 03
12	0.101	3.26	1556 01

TOTAL 100. 1540608

11/10/89

56-22-51
0.24 Yaw

CHANNEL A INJECT 11/05/87 13:59:08



GCL 11/05/87 13:59:08 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 32 INDEX 32

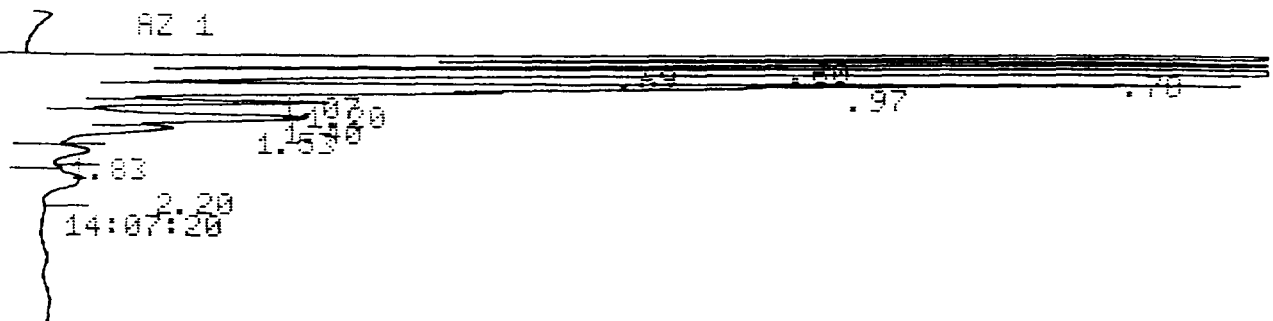
PEAK#	AREA%	RT	AREA BC
1	29.527	0.6	122739 02
2	12.605	0.69	52397 02
3	36.651	0.78	152354 08
4	10.52	0.97	43732 06
5	2.123	1.06	8823 06
6	1.769	1.19	7352 06
7	3.726	1.39	15490 06
8	1.664	1.53	6918 07
9	0.511	1.84	2123 01
10	0.904	2.2	3757 01

TOTAL 100. 415685

TOT 000 1000

292946

56-22-51
0.24 Yaw



GCL 11/05/87 14:04:40 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 33 INDEX 33

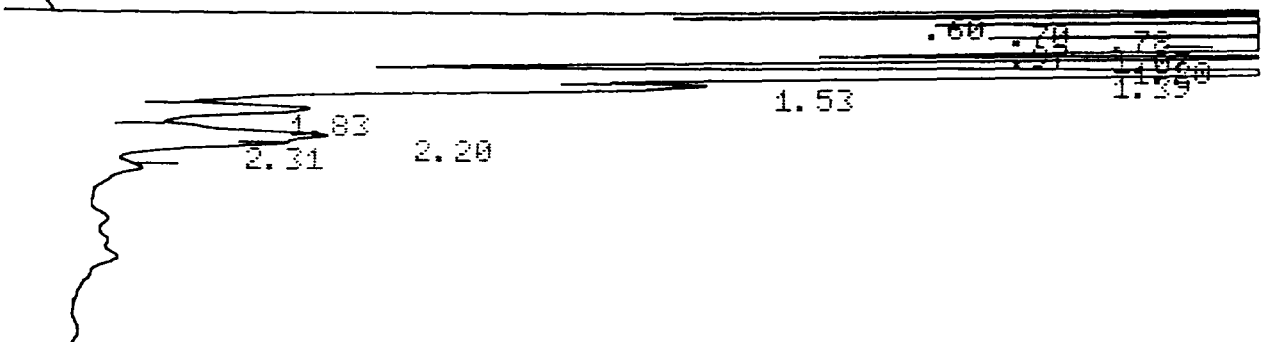
PEAK#	AREA%	RT	AREA	BC
1	28.853	0.6	129758	02
2	12.757	0.69	57370	02
3	37.174	0.78	167178	08
4	10.68	0.97	48029	06
5	2.065	1.07	9285	06
6	1.808	1.2	8129	06
7	3.692	1.4	16605	06
8	1.643	1.53	7387	07
9	0.522	1.83	2347	01
10	0.807	2.2	3627	01

TOTAL 100. 449715

319957

62-Cl-5'
nd 1/10

CHANNEL A INJECT 11/05/87 14:13:30
AZ 1



GCL 11/05/87 14:13:30 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 34 INDEX 34

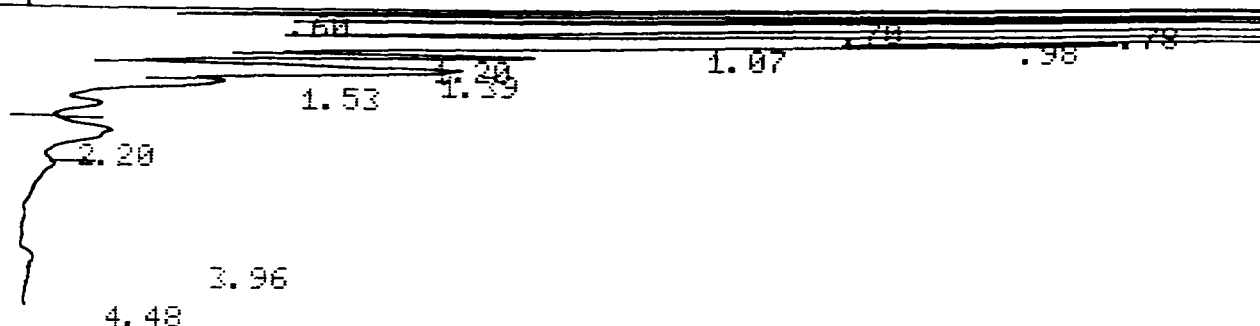
PEAK#	AREA%	RT	AREA	BC
1	8.247	0.6	179738	02
2	9.993	0.7	217808	02
3	42.698	0.78	930612	02
4	17.006	0.97	370653	02
5	6.481	1.07	141252	02
6	3.607	1.2	78605	02
7	6.517	1.39	142048	02
8	2.776	1.53	60503	02
9	1.062	1.83	23145	02
10	1.169	2.2	25480	02

TOT 100.000

TOTAL 100. 2179520

56-C1-5
0.2d 1/1000

CHANNEL A INJECT 11/05/87 14:25:32
AZ 1



GCL 11/05/87 14:25:32 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 35 INDEX 35

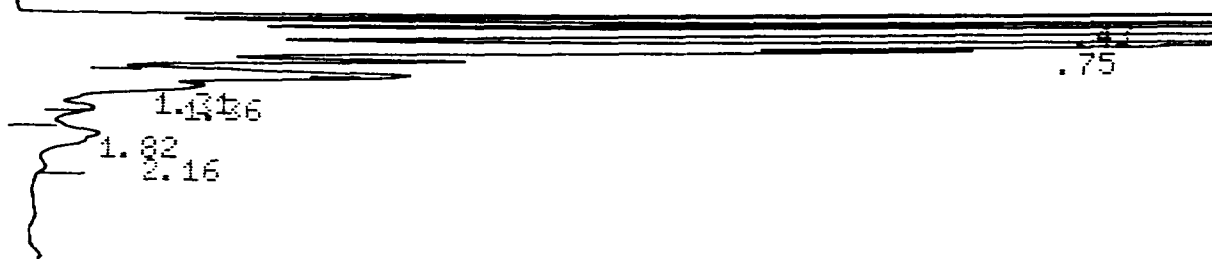
PEAK#	AREA%	RT	AREA BC
1	7.611	0.6	46625 02
2	9.842	0.7	60293 02
3	42.799	0.78	262182 02
4	17.556	0.98	107544 02
5	6.954	1.07	42599 02
6	3.724	1.2	22813 02
7	6.859	1.39	42015 02
8	3.465	1.53	21225 03
9	1.19	2.2	7290 01

TOTAL 100. 612586

565961

56-C1-5'
0.2d 1/1000

CHANNEL A INJECT 11/05/87 14:30:37
AZ 1



GCL 11/05/87 14:30:37 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 36 INDEX 36

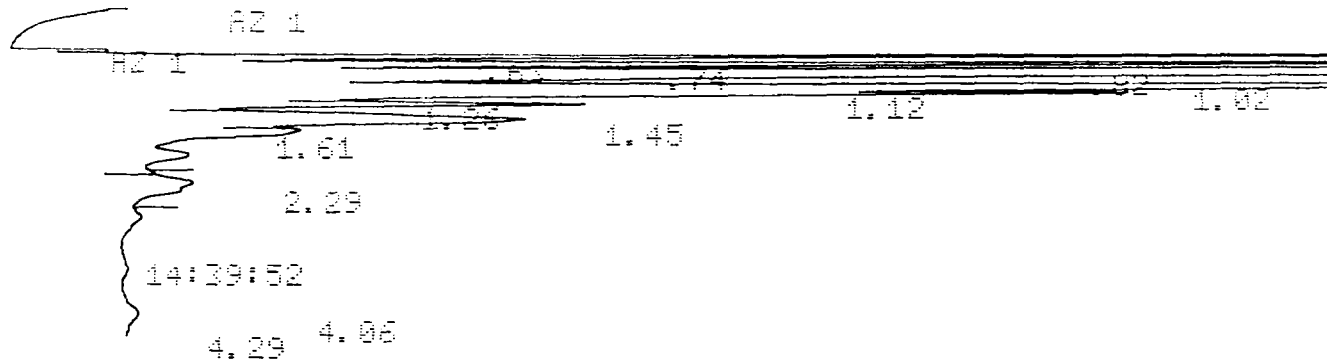
PEAK#	AREA%	RT	AREA BC
1	0.528	0.43	2964 02
2	84.953	0.75	476770 02
3	3.039	1.31	17054 02
4	8.167	1.36	45836 02
5	1.13	1.82	6341 02
6	2.183	2.16	12250 03

TOTAL 100. 561215

100.000 0.000

11-5'
1/1000

CHANNEL A INJECT 11/05/87 14:36:32



GCL 11/05/87 14:36:32 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 37 INDEX 37

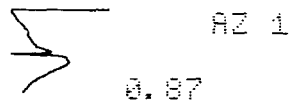
PEAK#	AREA%	RT	AREA	BC
1	7.569	0.63	45057	02
2	9.828	0.74	58507	02
3	42.901	0.82	255394	02
4	17.707	1.02	105410	02
5	6.785	1.12	40394	02
6	3.699	1.26	22023	02
7	6.857	1.45	40818	02
8	3.532	1.61	21029	03
9	1.123	2.29	6683	01

TOTAL 100. 595315

550 254

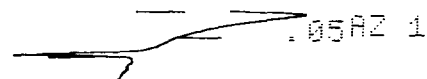
56-01-4.5'
0.5d 1/10

CHANNEL A INJECT 11/05/87 14:50:29



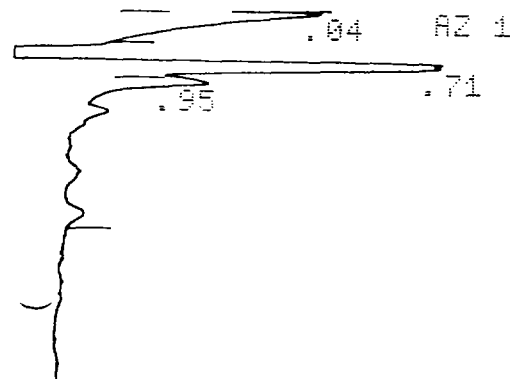
56-01-4.5'
10d 1/10

CHANNEL A INJECT 11/05/87 14:52:15



56-01-4.5'
200d

CHANNEL A INJECT 11/05/87 14:54:06



OUT 003 11/05/87

5.01GCL
1.

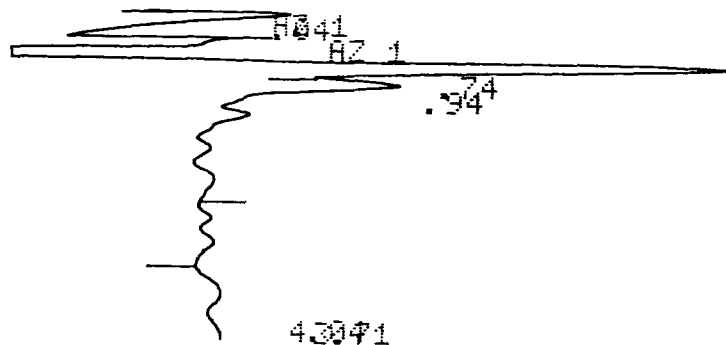
11/05/87 14:54:06 CH= "A" PS=

PEAK#	AREA%	RT	AREA BC
1	4.591	0.04	18287 01
2	26.691	0.71	106321 02
3	68.718	0.95	273730 03
TOTAL	100.		398338

380051

56.01 = 7.5
2001

CHANNEL A INJECT 11/05/87 15:01:52



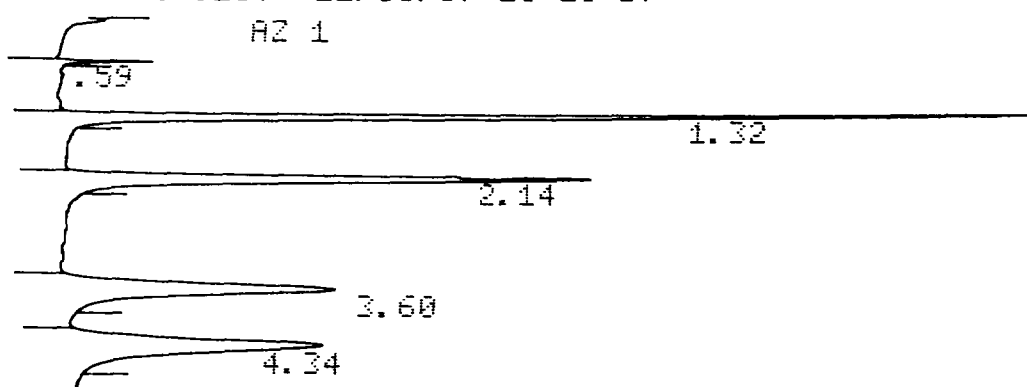
GCL 11/05/87 15:01:52 CH= "A" PS= 1.

PEAK#	AREA%	RT	AREA BC
1	3.44	0.04	12038 01
2	32.884	0.74	115080 02
3	63.149	0.94	220995 03
4	0.527	3.71	1846 01
TOTAL	100.		349959

337921

56.01

15:14:42
CHANNEL A INJECT 11/05/87 15:15:37



GCL 11/05/87 15:15:37 CH= "A" PS= 1.

PEAK#	AREA%	RT	AREA BC
1	1.152	0.59	1654 01
2	26.927	1.32	38663 01
3	24.651	2.14	35396 01
4	22.329	3.6	32061 01
5	24.942	4.34	35812 01

56.01 = 7.5

2001

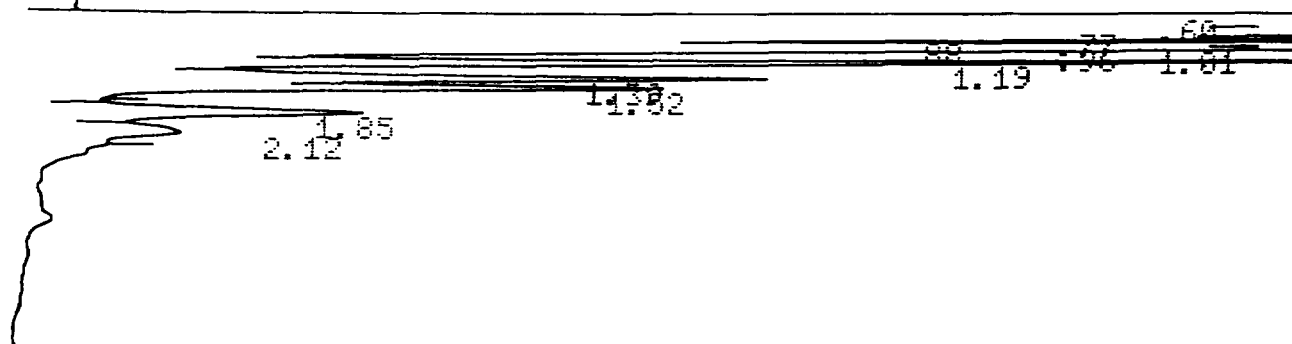
TOTAL 100.

143587

60

CHANNEL A INJECT 11/05/87 15:22:12

AZ 1



GCL 11/05/87 15:22:12 CH= "A" PS= 1.

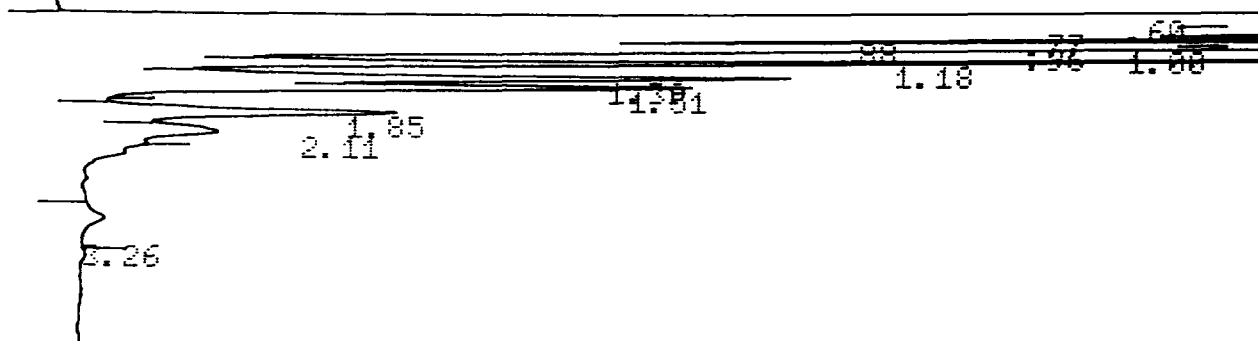
FILE 1. METHOD 0. RUN 41 INDEX 41

PEAK#	AREA%	RT	AREA	BC
1	88.162	0.6	7849811	02
2	6.682	0.77	594922	02
3	0.614	0.88	54677	02
4	1.161	0.96	103410	02
5	1.509	1.01	134349	02
6	0.71	1.19	63218	02
7	0.479	1.39	42692	02
8	0.373	1.52	33238	03
9	0.225	1.85	20018	02
10	0.084	2.12	7497	03

TOTAL 100. 8903832

CHANNEL A INJECT 11/05/87 15:28:30

AZ 1



GCL 11/05/87 15:28:30 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 42 INDEX 42

PEAK#	AREA%	RT	AREA	BC
1	87.932	0.6	7843081	02
2	6.847	0.77	610678	02
3	0.63	0.88	56156	02
4	1.196	0.96	106702	02
5	1.493	1.01	133461	02

7	0.471	1.39	42010	02
8	0.381	1.51	33943	03
9	0.241	1.85	21519	02
10	0.097	2.11	8688	03
11	0.026	3.26	2279	01

TOTAL 100. 8919445

1076364

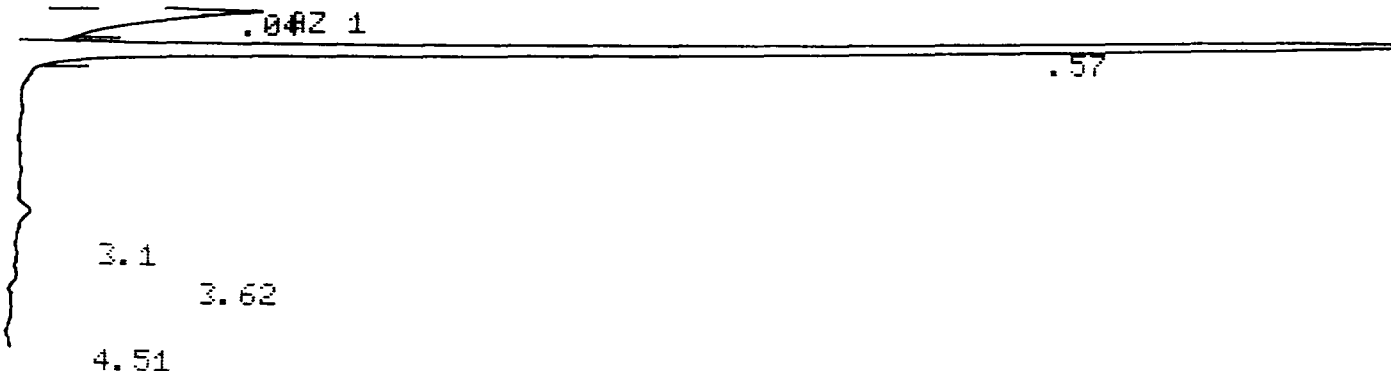
56-03-5' 5001

15:41:34
CHANNEL A INJECT 11/05/87 15:42:28
AZ 1



56-03-5' 20001

CHANNEL A INJECT 11/05/87 15:45:13
AZ 1



GCL 11/05/87 15:45:13 CH= "A" PS= 1.

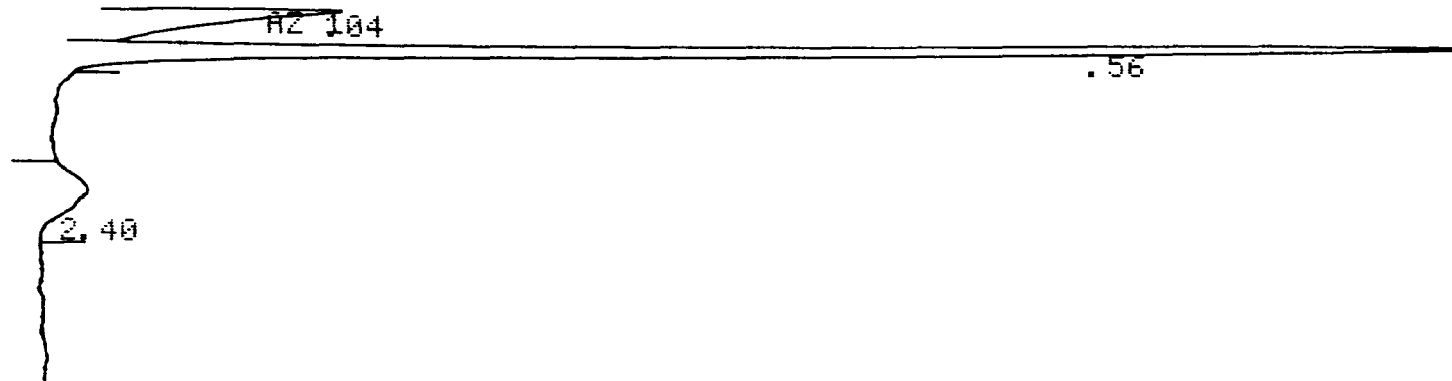
FILE 1. METHOD 0. RUN 43 INDEX 43

PEAK#	AREA%	RT	AREA	BC
1	13.511	0.04	19378	01
2	86.489	0.57	124047	01

TOTAL 100. 143425

56-03-5' 20001

CHANNEL A INJECT 11/05/87 15:50:12
AZ 104



GCL 11/05/87 15:50:12 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 44 INDEX 44

PEAK#	AREA%	RT	AREA	BC
1	15.4	0.04	24949	02
2	76.862	0.56	124518	03
3	7.738	2.4	10535	04

TOT 003 1104

03-5' 20001

TOTAL 100.

162002

15:56:03

CHANNEL A INJECT 11/05/87 15:57:06

AZ04

.56

GCL 11/05/87 15:57:06 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 45 INDEX 45

PEAK#	AREA%	RT	AREA BC
1	20.181	0.04	21812 01
2	79.819	0.56	86270 01
TOTAL	100.		108082

56-04C-5'
50ul

CHANNEL A INJECT 11/05/87 16:05:41

AZ 1

0.98

CHANNEL A INJECT 11/05/87 16:07:38

.05AZ 1

16:10:31

4.54

GCL 11/05/87 16:07:38 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 46 INDEX 46

PEAK#	AREA%	RT	AREA BC
1	100.	0.05	16740 01
TOTAL	100.		16740

56-04C-5'
50ul

CHANNEL A INJECT 11/05/87 16:12:50

AZ 1.05

56-04C-5'
50ul



4.64

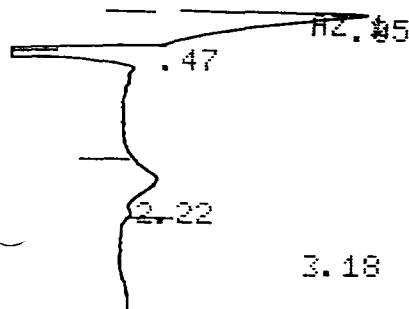
GCL 11/05/87 16:12:50 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 47 INDEX 47

PEAK#	AREA%	RT	AREA BC
1	81.064	0.05	62356 02
2	11.163	0.46	8587 03
3	7.773	2.16	5979 01
TOTAL	100.		76922

SG 04C-5'
20001

CHANNEL A INJECT 11/05/87 16:17:58



GCL 11/05/87 16:17:58 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 48 INDEX 48

PEAK#	AREA%	RT	AREA BC
1	83.143	0.05	68072 02
2	9.103	0.47	7453 03
3	7.753	2.22	6348 01
TOTAL	100.		81873

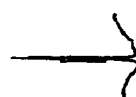
SG A2A-4.5'
1st Y100

CHANNEL A INJECT 11/05/87 16:29:45



1.74

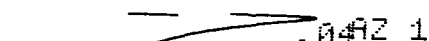
CHANNEL A INJECT 11/05/87 16:32:05



AZ 1

SG A2A-4.5'
5th

CHANNEL A INJECT 11/05/87 16:33:47



AZ 1

REF 003 1106

56'

3.51
4.24

GCL 11/05/87 16:33:47 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 49 INDEX 49

PEAK#	AREA%	RT	AREA BC
1	100.	0.04	16843 01
TOTAL	100.		16843

56-A2A-461
20001

CHANNEL A INJECT 11/05/87 16:38:40

AZ 05



GCL 11/05/87 16:38:40 CH= "A" PS= 1.

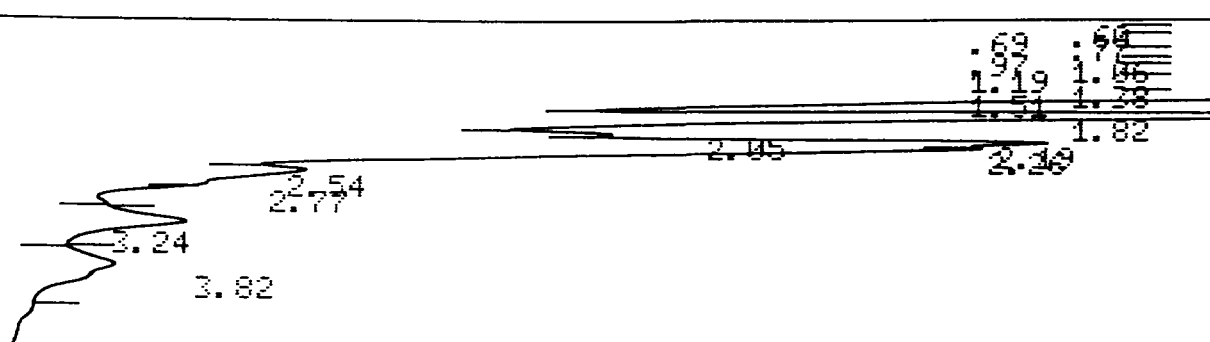
FILE 1. METHOD 0. RUN 50 INDEX 50

PEAK#	AREA%	RT	AREA BC
1	100.	0.05	20900 01
TOTAL	100.		20900

56-A2A-461
5701

16:45:08
CHANNEL A INJECT 11/05/87 16:46:21

AZ 1



GCL 11/05/87 16:46:21

FILE 1. METHOD 0. RUN 51 INDEX 51

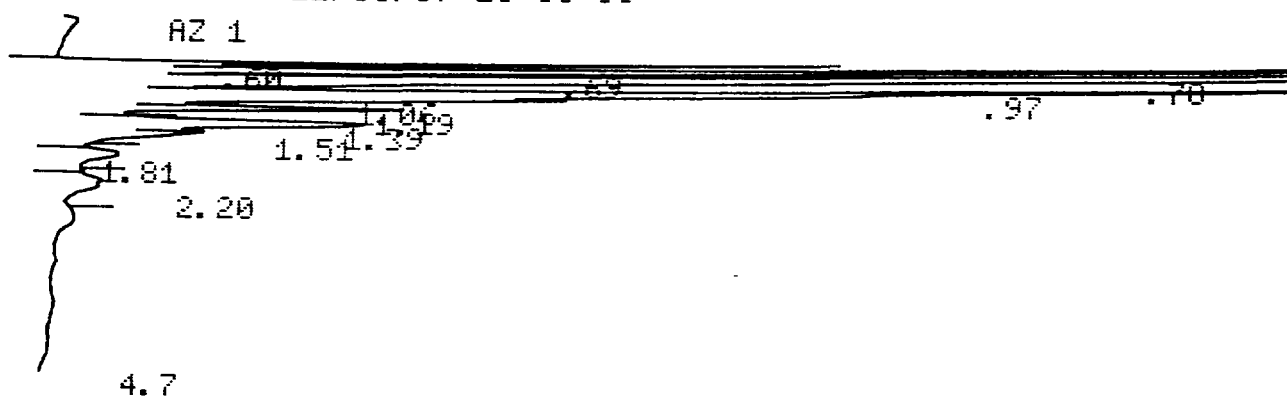
PEAK# AREA% RT AREA BC

1	4.392	0.6	379803	02
2	14.55	0.69	1258373	02
3	40.812	0.77	3529597	02
4	16.903	0.97	1461813	02
5	4.475	1.06	387035	02
6	4.297	1.19	371587	02
7	6.389	1.38	552587	02
8	3.456	1.51	298870	02
9	1.778	1.82	153789	02
10	0.372	2.05	32142	02
11	0.981	2.19	84816	02
12	0.894	2.26	77301	02
13	0.366	2.54	31643	02
14	0.042	2.77	3656	03
15	0.147	3.24	12710	01
16	0.147	3.82	12720	01

TOTAL 100. 8648442

56-A2A-7'
2d Y100

CHANNEL A INJECT 11/05/87 16:55:05



GCL 11/05/87 16:55:05 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 52 INDEX 52

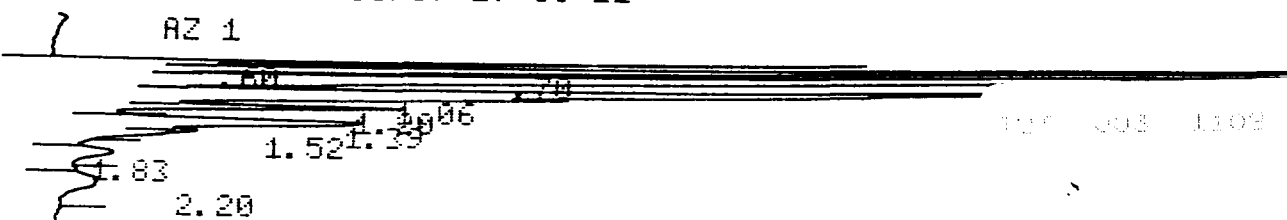
PEAK#	AREA%	RT	AREA	BC
1	4.438	0.6	15023	02
2	16.286	0.69	55128	02
3	48.871	0.78	165428	08
4	16.089	0.97	54462	06
5	3.043	1.06	10301	06
6	2.579	1.19	8729	07
7	5.054	1.39	17107	02
8	1.973	1.51	6677	03
9	0.803	1.81	2719	01
10	0.864	2.2	2923	01

TOTAL 100. 338497

323 Y74

56-A2A-7'
2d Y100

CHANNEL A INJECT 11/05/87 17:00:21



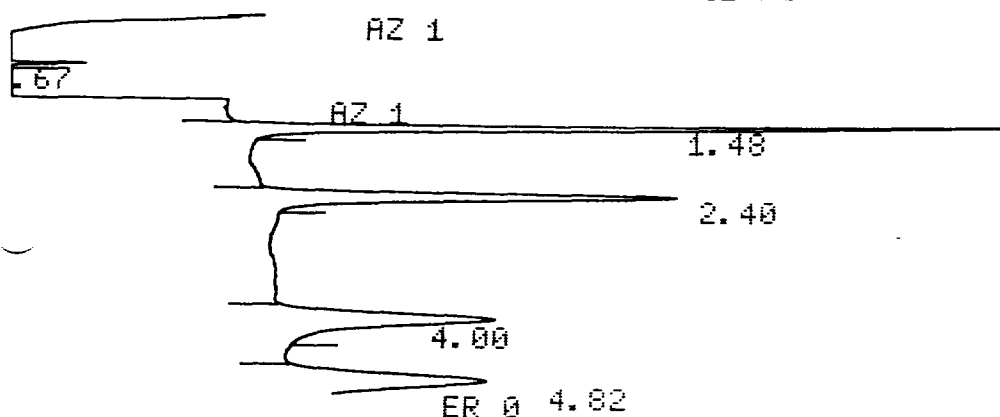
GCL 11/05/87 17:00:21 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 53 INDEX 53

PEAK#	AREA%	RT	AREA BC
1	4.6	0.6	15759 02
2	16.036	0.7	54937 02
3	48.444	0.78	165965 08
4	16.498	0.97	56521 06
5	2.944	1.06	10087 06
6	2.687	1.2	9207 07
7	5.008	1.39	17156 02
8	1.874	1.52	6421 03
9	0.831	1.83	2848 01
10	1.078	2.2	3692 01

TOTAL 100. 342593

CHANNEL A INJECT 11/05/87 17:12:10



GCL 11/05/87 17:12:10 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 54 INDEX 54

PEAK#	AREA%	RT	AREA BC
1	1.728	0.67	1907 01
2	30.426	1.48	33578 01
3	26.999	2.4	29796 01
4	24.789	4.	27357 01
5	16.059	4.82	17723 01

TOTAL 100. 110361

326834

5254

For 003 11.00

11/6/87

Fid
OV-101

6' K"

Colm - 80°C iso

Det - 250°C

Inj - 200°C

Sensitivity - 8

M. Brodeur

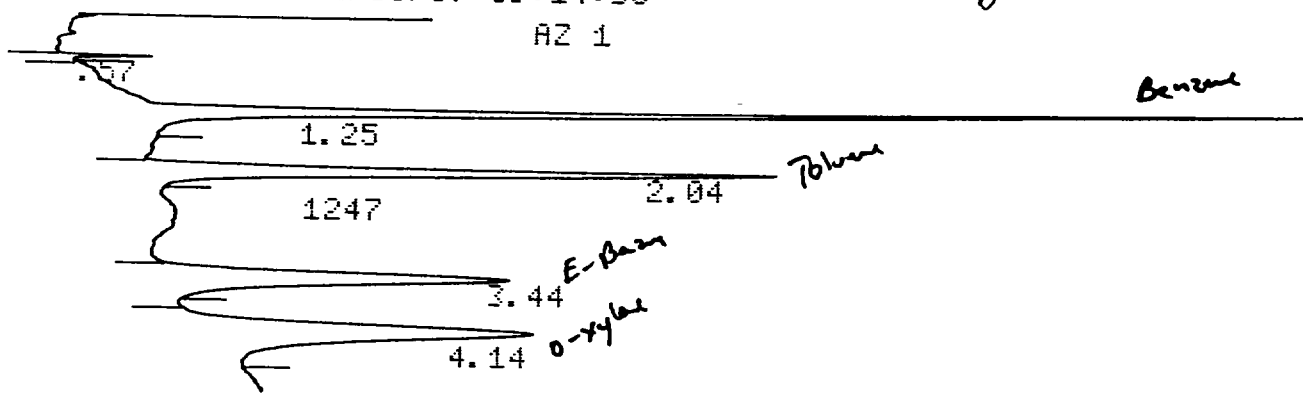
READY
DATE " 11/6/87
TIME " 08:40
FI= 1. FE= 1. MN= 0.
PRESS 'ENTER' TO SKIP ENTRY
FILE NAME=" GCL
TIME FUNCTION VALUE
TT= .01 TF=" AZ TV= 1
TT= .01 TF=" PM TV= 1
TT= 5.0 TF=" ER TV= 1
TT=

METHOD NUMBER:MN=

END OF DIALOG
AT= 8
PT=200
OF=15

CHANNEL A INJECT 11/06/87 09:14:38
AZ 1

5.2 Stal.
BTX



GCL 11/06/87 09:14:38 CH= "A" PS= 1.

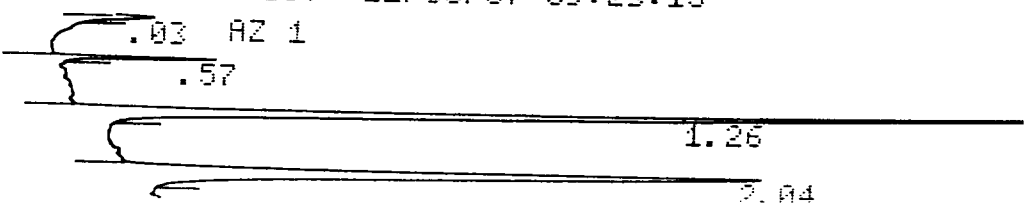
FILE 1. METHOD 0. RUN 1 INDEX 1

PEAK#	AREA%	RT	AREA BC
1	0.725	0.57	1442 01
2	30.425	1.25	60538 01
3	22.323	2.04	44417 01
4	20.593	3.44	40975 01
5	25.934	4.14	51601 01

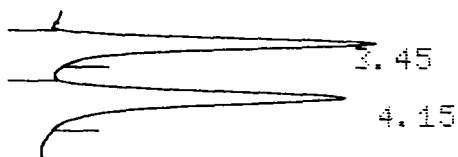
TOTAL 100. 198973

5.2 Stal.
BTX

CHANNEL A INJECT 11/06/87 09:23:15



707 000 1110



GCL 11/06/87 09:23:15 CH= "A" PS= 1.

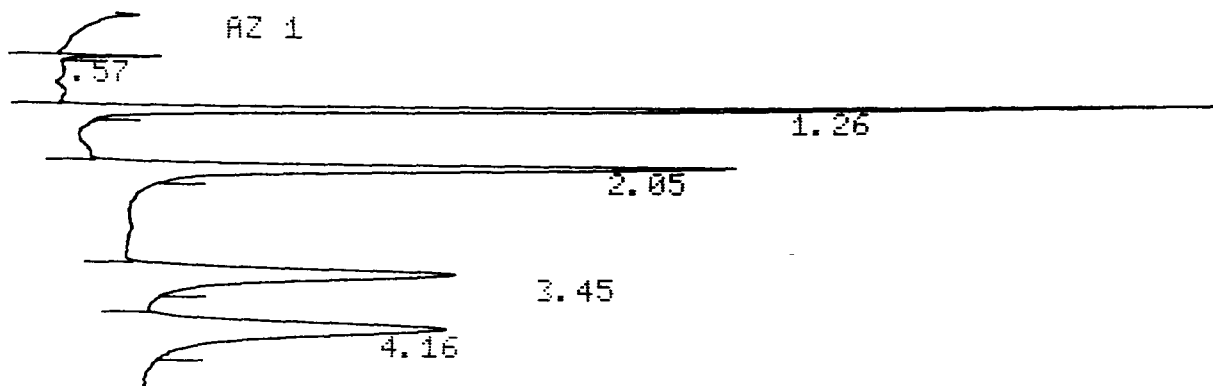
FILE 1. METHOD 0. RUN 2 INDEX 2

PEAK#	AREAZ	RT	AREA BC
1	1.05	0.03	1844 01
2	1.619	0.57	2844 01
3	26.753	1.26	47002 01
4	24.442	2.04	42941 01
5	21.437	3.45	37662 01
6	24.7	4.15	43394 01

TOTAL 100. 175687

5ul 5ul

CHANNEL A INJECT 11/06/87 09:29:19
AZ 1



GCL 11/06/87 09:29:19 CH= "A" PS= 1.

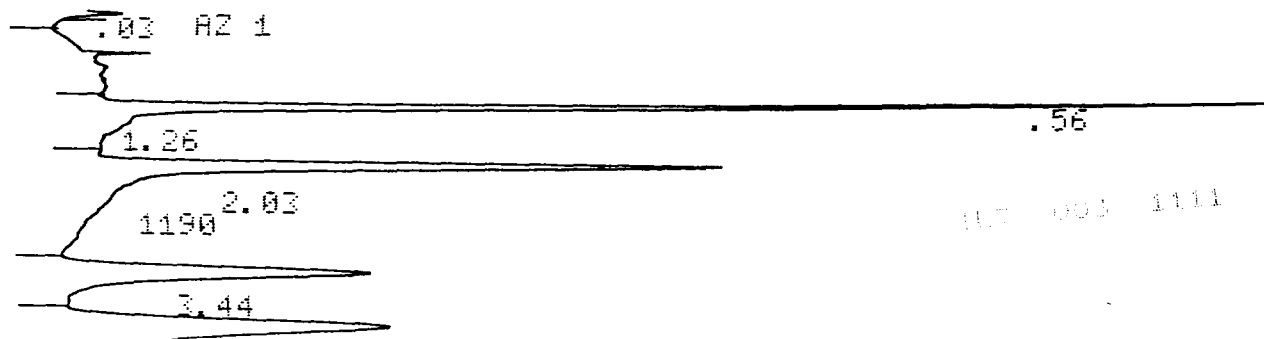
FILE 1. METHOD 0. RUN 3 INDEX 3

PEAK#	AREAZ	RT	AREA BC
1	0.969	0.57	1667 01
2	26.83	1.26	46153 01
3	24.729	2.05	42538 01
4	21.69	3.45	37311 01
5	25.782	4.16	44349 01

TOTAL 100. 172018

5ul 5ul

CHANNEL A INJECT 11/06/87 09:36:43
AZ 1



11/06/87 09:36:43

GCL 11/06/87 09:36:43 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 4 INDEX 4

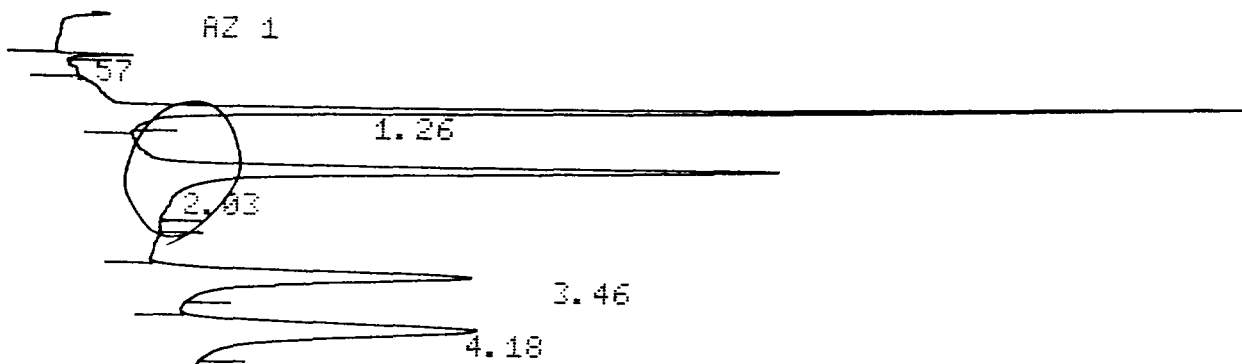
PEAK#	AREA%	RT	AREA	BC
1	0.532	0.03	1402	01
2	6.789	0.56	17901	02
3	27.737	1.26	73138	02
4	29.384	2.03	77480	02
5	13.979	3.44	36860	02
6	21.579	4.16	56901	03

TOTAL 100. 263682

PT=100

CHANNEL A INJECT 11/06/87 09:42:45

AZ 1



GCL 11/06/87 09:42:45 CH= "A" PS= 1.

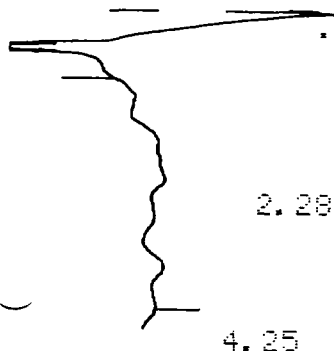
FILE 1. METHOD 0. RUN 5 INDEX 5

PEAK#	AREA%	RT	AREA	BC
1	0.701	0.57	1319	01
2	26.8	1.26	50422	01
3	30.112	2.03	56652	01
4	19.672	3.46	37011	01
5	22.715	4.18	42736	01

TOTAL 100. 188140

CHANNEL A INJECT 11/06/87 09:50:44

.04 AZ 1



GCL 11/06/87 09:50:44 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 6 INDEX 6

1	53.624	0.04	38659 01
2	46.376	2.28	33434 01

TOTAL 100. 72093

Aug 2001

CHANNEL A INJECT 11/06/87 09:57:59

.002 1

.55



4.75

GCL 11/06/87 09:57:59 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 7 INDEX 7

PEAK#	AREA%	RT	AREA BC
-------	-------	----	---------

1	59.232	0.04	16623 01
---	--------	------	----------

2	40.768	0.55	11441 03
---	--------	------	----------

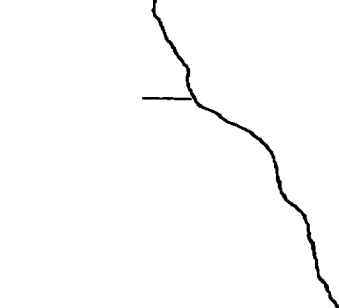
TOTAL 100. 28064

System Blank 2001

CHANNEL A INJECT 11/06/87 10:03:15

AZ 1 .05

.55



ER 0

GCL 11/06/87 10:03:15 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 8 INDEX 8

PEAK#	AREA%	RT	AREA BC
-------	-------	----	---------

1	76.626	0.05	84601 02
---	--------	------	----------

2	11.546	0.44	12748 02
---	--------	------	----------

3	11.828	0.55	13059 03
---	--------	------	----------

TOTAL 100. 110408

Drift #3-2 2001

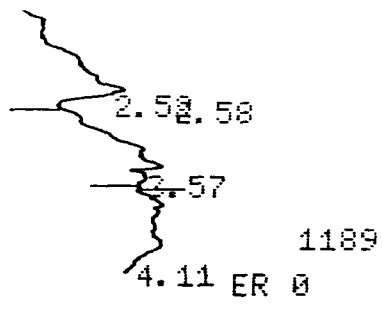
10:09:52

CHANNEL A INJECT 11/06/87 10:10:47

AZ 1 AZ 1

.56

TUT 003 1113



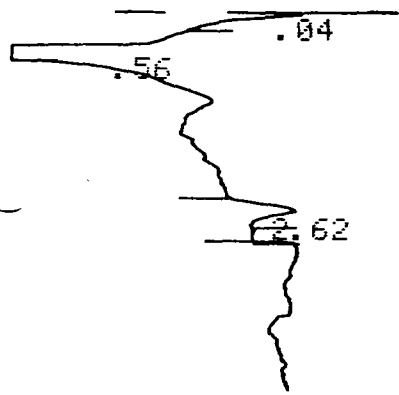
GCL 11/06/87 10:10:47 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 9 INDEX 9

PEAK#	AREA%	RT	AREA BC
1	3.641	0.56	2739 03
2	51.168	2.52	38495 02
3	11.677	2.58	8785 02
4	20.152	3.57	15161 03
5	13.362	4.11	10053 01
TOTAL	100.		75233

*Drift #3 -2
2002*

CHANNEL A INJECT 11/06/87 10:16:46



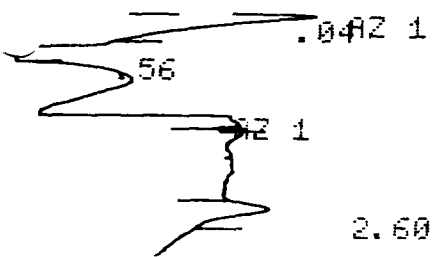
GCL 11/06/87 10:16:46 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 10 INDEX 10

PEAK#	AREA%	RT	AREA BC
1	53.428	0.04	9702 01
2	11.702	0.56	2125 03
3	34.87	2.62	6332 01
TOTAL	100.		18159

*Drift #3 -2
2002*

CHANNEL A INJECT 11/06/87 10:23:03



TUT 003 1114

ER 0 4.70

GCL

11/06/87 10:23:03

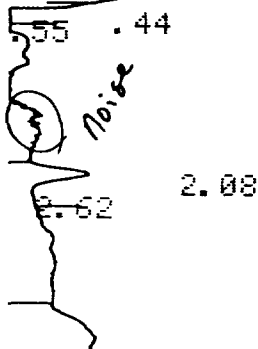
CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 11 INDEX 11

PEAK#	AREA%	RT	AREA BC
1	48.801	0.04	15490 01
2	6.695	0.56	2125 03
3	18.717	2.6	5941 01
4	25.787	4.7	8185 01
TOTAL	100.		31741

56-86-1-5-1
2000/

CHANNEL A INJECT 11/06/87 10:46:33
AZ 1



ER 0

GCL

11/06/87 10:46:33

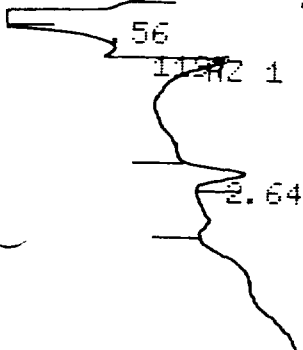
CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 12 INDEX 12

PEAK#	AREA%	RT	AREA BC
1	58.469	0.04	67960 02
2	26.563	0.44	30875 02
3	3.522	0.55	4094 03
4	5.728	2.08	6658 02
5	5.718	2.62	6646 03
TOTAL	100.		116233

56-86-1-5-1
2000/

CHANNEL A INJECT 11/06/87 10:52:45
AZ 1



ER 0

GCL

11/06/87 10:52:45

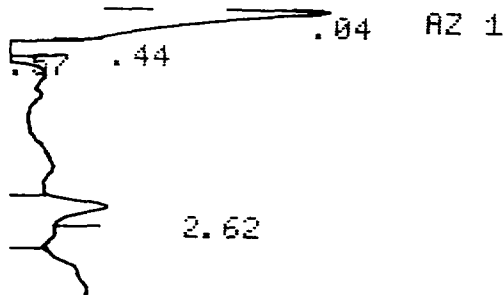
CH= "A" PS= 1.

TUT 003 1115

PEAK#	AREA%	RT	AREA BC
1	62.131	0.04	15890 01
2	13.153	0.56	3364 03
3	24.716	2.64	6321 01
TOTAL	100.		25575

56-06-1-5
2000

CHANNEL A INJECT 11/06/87 11:02:03



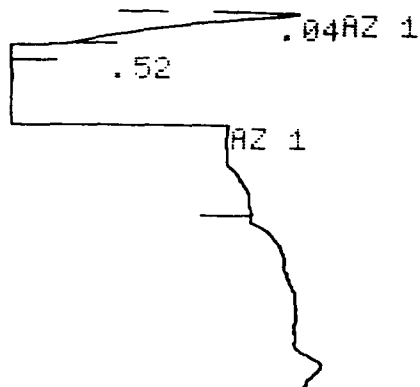
GCL 11/06/87 11:02:03 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 14 INDEX 14

PEAK#	AREA%	RT	AREA BC
1	72.954	0.04	83267 02
2	17.965	0.44	20505 02
3	3.089	0.57	3526 03
4	5.992	2.62	6839 01
TOTAL	100.		114137

56-06-2-4
2000

CHANNEL A INJECT 11/06/87 11:27:20



GCL 11/06/87 11:27:20 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 15 INDEX 15

PEAK#	AREA%	RT	AREA BC
1	51.105	0.04	16022 01
2	11.958	0.52	3749 03
3	31.887	4.54	9997 02
4	5.049	4.92	1583 03
TOTAL	100.		31351

TUT 003 1116

56-06-2
2000

CHANNEL A INJECT 11/06/87 11:34:33

.05 AZ 1
.56

ER 0

GCL 11/06/87 11:34:33 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 16 INDEX 16

PEAK#	AREA%	RT	AREA BC
1	90.456	0.05	110939 02
2	3.419	0.56	4193 03
3	6.125	4.89	7512 01

TOTAL 100. 122644

11:52:04
CHANNEL A INJECT 11/06/87 11:53:09

AZ 1

CHANNEL A INJECT 11/06/87 11:56:48

.05 1
.45
4.35

GCL 11/06/87 11:56:48 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 17 INDEX 17

PEAK#	AREA%	RT	AREA BC
1	83.043	0.05	74490 02
2	16.957	0.45	15210 03

TOTAL 100. 89700

CHANNEL A INJECT 11/06/87 12:01:42

AZ.05

56-09c-5'
5001

56-09c-5'
2201

56-09c-5'
2001

FUT 003 1117

Noise

4.92

GCL 11/06/87 12:01:42 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 18 INDEX 18

PEAK#	AREA%	RT	AREA BC
1	78.325	0.05	75418 02
2	13.056	0.45	12571 03
3	8.619	2.35	8299 01

TOTAL 100. 96288

12:06:51
CHANNEL A INJECT 11/06/87 12:07:42

.04 AZ 1



12:12:194.63

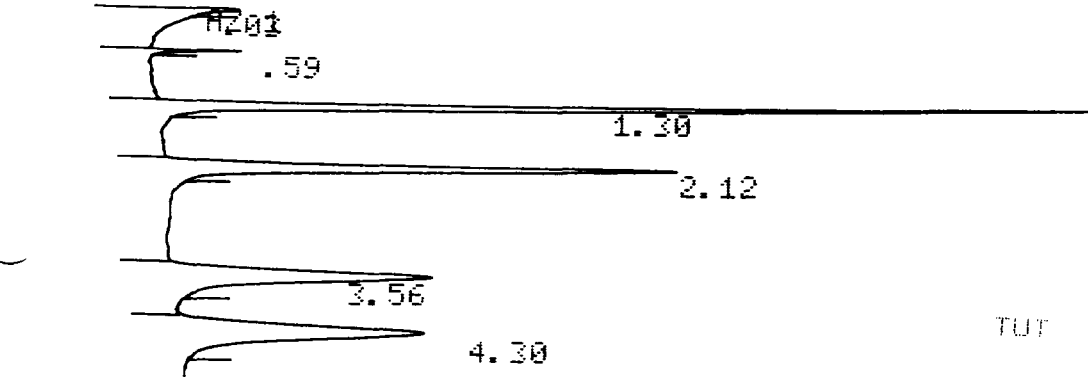
GCL 11/06/87 12:07:42 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 19 INDEX 19

PEAK#	AREA%	RT	AREA BC
1	100.	0.04	14945 01

TOTAL 100. 14945

CHANNEL A INJECT 11/06/87 12:15:01



66-04E-3
5th
3A

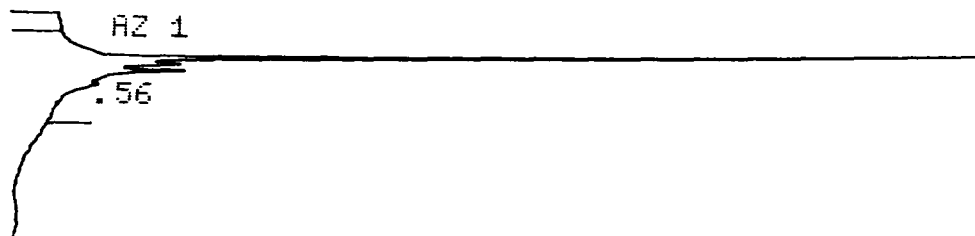
TUT 003 1118

GCL 11/06/87 12:15:01 CH= "A" PS= 1.

PEAK#	AREA%	RT	AREA BC
1	0.933	0.03	1296 01
2	1.186	0.59	1647 01
3	26.721	1.3	37118 01
4	24.287	2.12	33738 01
5	21.864	3.56	30372 01
6	25.009	4.3	34740 01
TOTAL	100.		138911

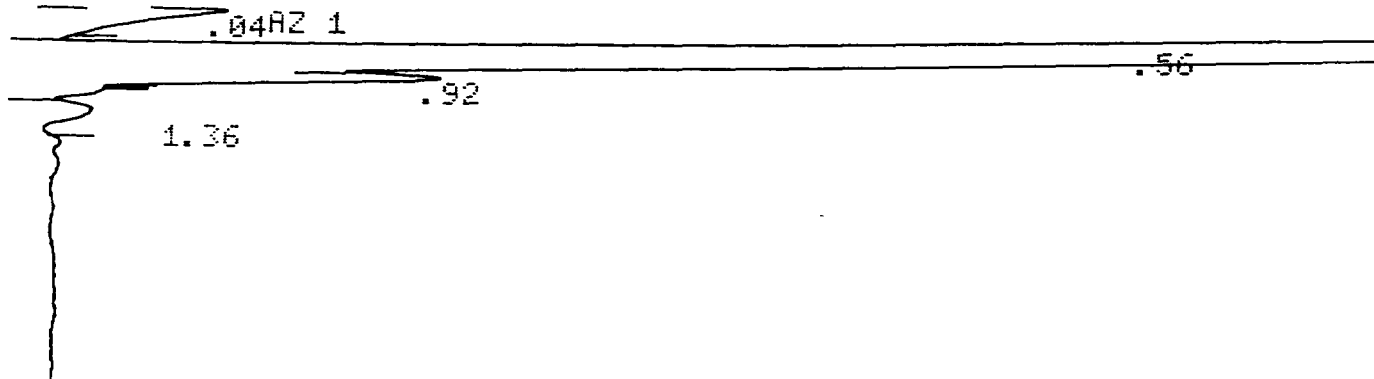
56-84C-7
502

CHANNEL A INJECT 11/06/87 12:21:50



56-84C-7
2002

CHANNEL A INJECT 11/06/87 12:26:00



GCL 11/06/87 12:26:00 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 21 INDEX 21

PEAK#	AREA%	RT	AREA BC
1	1.432	0.04	16376 01
2	96.947	0.56	1108699 08
3	1.246	0.92	14249 05
4	0.375	1.36	4290 01
TOTAL	100.		1143614

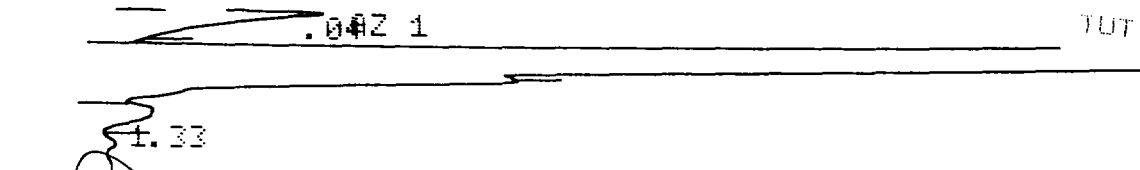
56-84C-7
2002

CHANNEL A INJECT 11/06/87 12:33:07



56-84C-7
2002

CHANNEL A INJECT 11/06/87 12:37:54



TUT 003 1119

2.48

GCL 11/06/87 12:37:54 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 22 INDEX 22

PEAK#	AREA%	RT	AREA	BC
1	1.768	0.04	18550	01
2	96.928	0.57	1016865	01
3	0.502	1.33	5269	01
4	0.801	2.48	8407	01
TOTAL	100.		1049091	

ArS⁶₂₀₀₀

CHANNEL A INJECT 11/06/87 13:35:09

0.05 1
0.57 .45



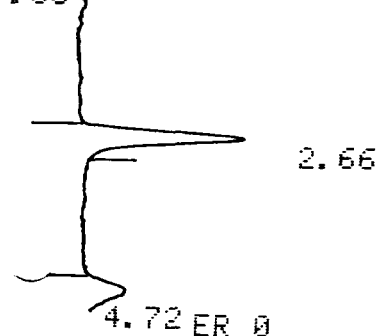
GCL 11/06/87 13:35:09 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 23 INDEX 23

PEAK#	AREA%	RT	AREA	BC
1	66.886	0.05	70839	02
2	17.241	0.45	18260	02
3	15.873	0.57	16811	03
TOTAL	100.		105910	

15:02:47
CHANNEL A INJECT 11/06/87 15:03:53

0.04
0.57 .45



56-705-41
2000

GCL 11/06/87 15:03:53 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 24 INDEX 24

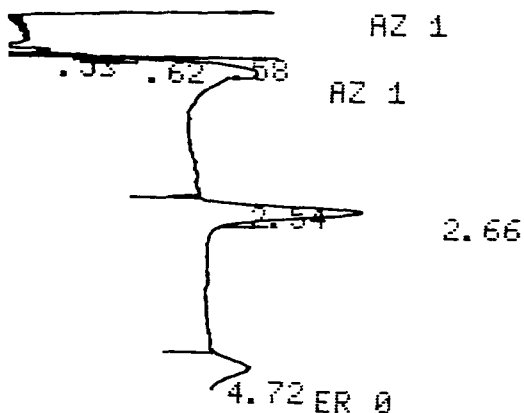
TUT 003 1120

1	61.732	0.04	79697 02
2	18.461	0.45	23834 02
3	1.07	0.58	1381 03
4	15.236	2.66	19670 01
5	3.501	4.72	4520 01

56-705-41
20002

TOTAL 100. 129102

CHANNEL A INJECT 11/06/87 15:10:22



GCL 11/06/87 15:10:22 CH= "A" PS= 1.

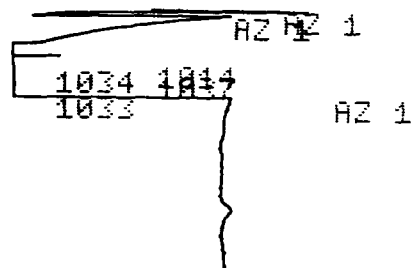
FILE 1. METHOD 0. RUN 25 INDEX 25

PEAK#	AREA%	RT	AREA BC
1	20.594	0.53	7640 02
2	6.372	0.58	2364 02
3	7.213	0.62	2676 03
4	2.609	2.54	968 02
5	49.958	2.66	18534 03
6	13.254	4.72	4917 01

TOTAL 100. 37099

56-701-551
20002

15:19:23
CHANNEL A INJECT 11/06/87 15:20:41



1027 1169 1168 1167 1168 1169 1168 1150 1150 1150 1150 1150
1169 1169
READY

DATE " 11/6/87

TIME " 1609

I= 1. FE= 1. MN= 0.

PRESS 'ENTER' TO SKIP ENTRY

FILE NAME=" GCL

TIME	FUNCTION	VALUE
TT= .01	TF=" AZ	TV= 1
TT= .01	TF=" PM	TV= 1
TT= 5.0	TF=" ER	TV= 1

TUT 003 1121

CHANNEL A INJECT 11/08/87 16:27:56

AZ 1

.56 AZ 1

READY

DATE " 11/9/87

TIME " 08:22

FI= 1. FE= 1. MN= 0.

PRESS 'ENTER' TO SKIP ENTRY

FILE NAME=" GCL

TIME FUNCTION VALUE

TT= .01 TF=" AZ TV= 1

TT= .01 TF=" PM TV= 1

TT= 5.0 TF=" ER TV= 1

TT=

METHOD NUMBER:MN=

END OF DIALOG

AT= 8

PT=100

OF=15

689	668	828	1155	1155	1155	1155	1155	1160	1160	1160	1160
1160	1155	1157	1157	1159	1158	1159	1158	1156	1155	1152PT	EVA

L:

PT= 191.

CHANNEL A INJECT 11/09/87 08:38:49

AZ 1

1164

.56

GCL

11/09/87 08:38:49

CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 1 INDEX 1

PEAK# AREA% RT AREA BC

1 100. 0.56 5006 01

TOTAL 100. 5006

1168

CHANNEL A INJECT 11/09/87 08:45:59

AZ 1

.55

1.24

Toluene

2.02

TUT 003 1122

11/9/87
Fid
N-101 6' 1/2"
N₂ 30 ml/min - 50 psi
H₂ 30 " - 40 psi
Ar 300 " - 60 psi
Sensitivity - 8
Voltage - 20
80° Iso
det - 250°C
inj - 200°C
M. Kutz

6ul H₂O Blank

6ul 5ul
BTX

3.40
p-Xylene
4.11

GCL 11/09/87 08:45:59 CH= "A" PS= 1.

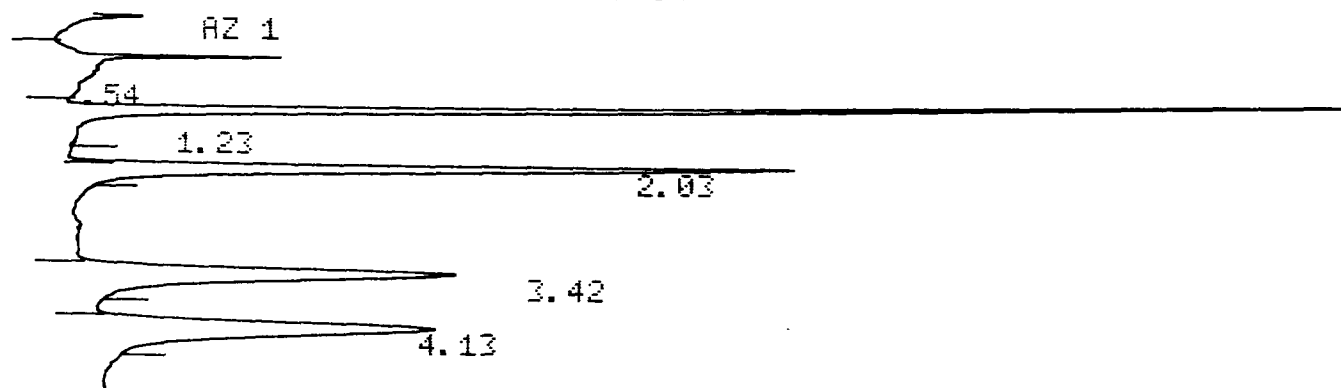
FILE 1. METHOD 0. RUN 2 INDEX 2

PEAK#	AREA%	RT	AREA BC
1	2.377	0.55	4859 01
2	26.818	1.24	54812 01
3	24.864	2.02	50819 01
4	22.15	3.4	45272 01
5	23.79	4.11	48623 01

TOTAL 100. 204385

5th Std.

1161
CHANNEL A INJECT 11/09/87 08:53:30



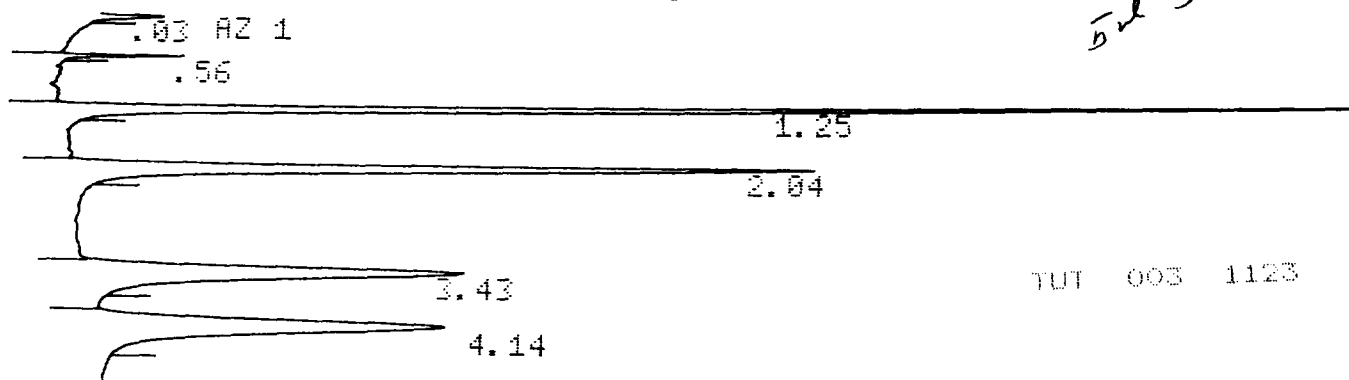
GCL 11/09/87 08:53:30 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 3 INDEX 3

PEAK#	AREA%	RT	AREA BC
1	6.305	0.54	12787 02
2	27.996	1.23	56778 03
3	22.104	2.03	44830 01
4	21.364	3.42	43328 01
5	22.232	4.13	45088 01

TOTAL 100. 202811

CHANNEL A INJECT 11/09/87 09:03:07



5th Std.

TOT 003 1123

FILE 1. METHOD 0. RUN 4 INDEX 4

PEAK#	AREA%	RT	AREA BC
1	0.982	0.03	1958 01
2	1.106	0.56	2206 01
3	27.09	1.25	54035 01
4	24.977	2.04	49820 01
5	21.531	3.43	42948 01
6	24.314	4.14	48499 01

TOTAL 100. 199466

*N2 Blank
2002*

CHANNEL A INJECT 11/09/87 09:11:38

0.04 AZ 1

1155 AZ 1

4.47

GCL 11/09/87 09:11:38 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 5 INDEX 5

PEAK#	AREA%	RT	AREA BC
1	100.	0.04	55483 01

TOTAL 100. 55483

*Am Suph
2002*

CHANNEL A INJECT 11/09/87 09:22:30

0.05 AZ 1

55
1.41
3.61

GCL 11/09/87 09:22:30 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 6 INDEX 6

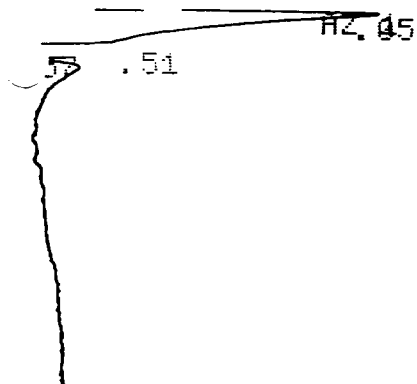
PEAK#	AREA%	RT	AREA BC
1	74.374	0.05	115592 02
2	0.882	0.55	13805 03
3	5.766	1.41	8962 01
4	10.977	2.04	47243 01

TUT 003 1124

TOTAL 100.

155419

546 ten 2000u

09:27:45
CHANNEL A INJECT 11/09/87 09:29:03

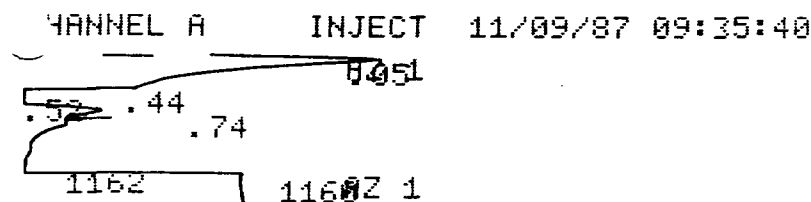
GCL 11/09/87 09:29:03 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 7 INDEX 7

PEAK#	AREA%	RT	AREA BC
1	89.668	0.05	120387 02
2	7.173	0.51	9630 02
3	3.16	0.57	4242 03

TOTAL 100. 134259

Air Sample 2000u



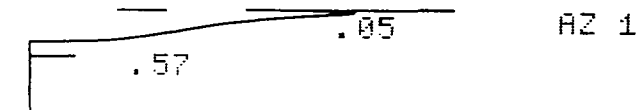
GCL 11/09/87 09:35:40 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 8 INDEX 8

PEAK#	AREA%	RT	AREA BC
1	65.023	0.05	109867 02
2	7.282	0.44	12304 02
3	9.182	0.52	15514 02
4	18.513	0.74	31281 03

TOTAL 100. 168966

Drift #4-2 2000u

09:41:18
CHANNEL A INJECT 11/09/87 09:42:26

TUT 003 1125

2.59

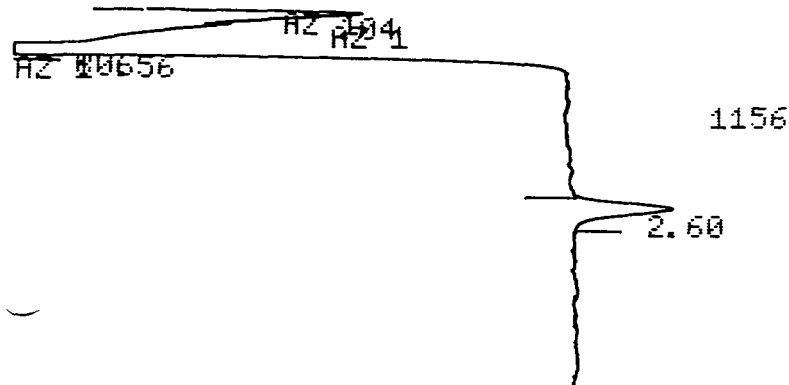
GCL 11/09/87 09:42:26 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 9 INDEX 9

PEAK#	AREA%	RT	AREA BC
1	91.522	0.05	132807 02
2	1.228	0.57	1782 03
3	7.25	2.59	10520 01

TOTAL 100. 145109

1186 1164 1165
CHANNEL A INJECT 11/09/87 09:49:54



*Dr. Pt. #4-2
2000/1*

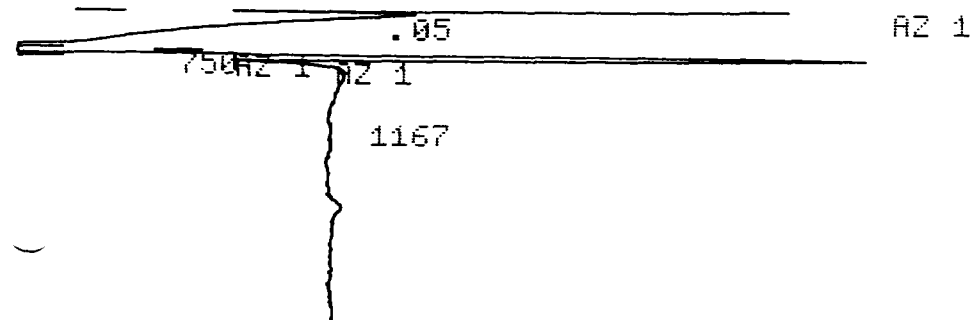
GCL 11/09/87 09:49:54 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 10 INDEX 10

PEAK#	AREA%	RT	AREA BC
1	90.907	0.04	135229 02
2	1.456	0.56	2166 03
3	7.637	2.6	11360 01

TOTAL 100. 148755

10:10:01
CHANNEL A INJECT 11/09/87 10:11:19



*SG-701-5
2000/1*

TUT 003 1126

4.13

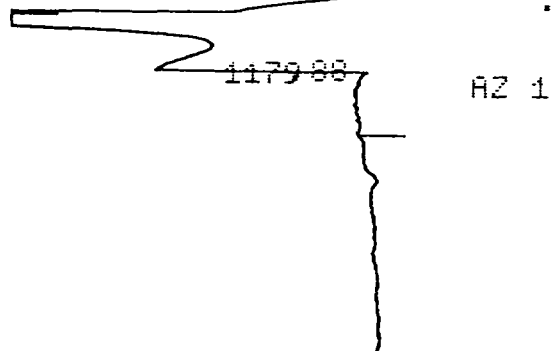
GCL 11/09/87 10:11:19 CH= "A" PS= 1.

PEAK#	AREA%	RT	AREA BC
1	100.	0.05	158798 01
TOTAL	100.		158798

SG-T01-5'
2001

11640F=25

CHANNEL A INJECT 11/09/87 10:17:37
AZ 1



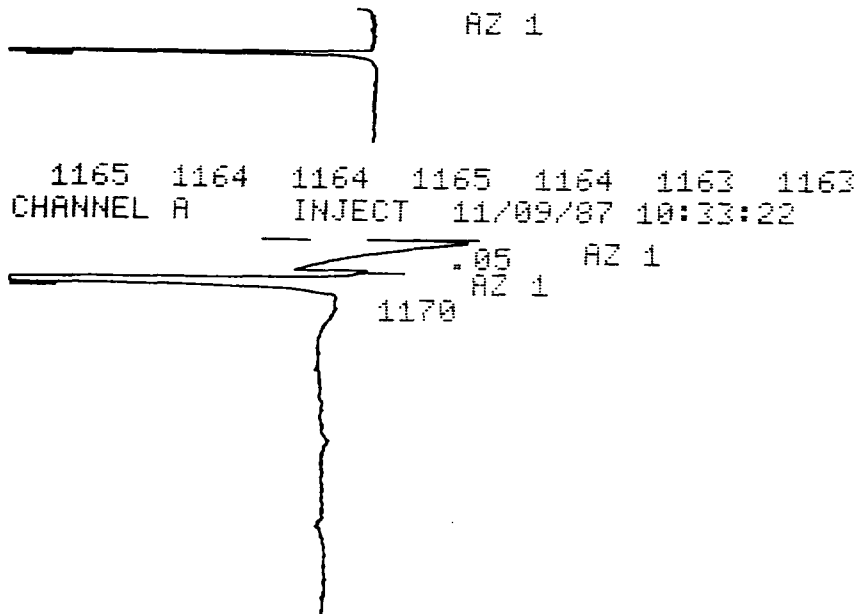
GCL 11/09/87 10:17:37 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 12 INDEX 12

PEAK#	AREA%	RT	AREA BC
1	33.54	0.05	161544 01
2	66.46	0.88	320108 01
TOTAL	100.		481652

SG-T01-7'
1001

10:25:28
CHANNEL A INJECT 11/09/87 10:26:59
AZ 1



SG-T01-7'
1001

1165 1164 1164 1165 1164 1163 1163
CHANNEL A INJECT 11/09/87 10:33:22

0.05 AZ 1
1170

GCL 11/09/87 10:33:22 CH= "A" PS= 1.

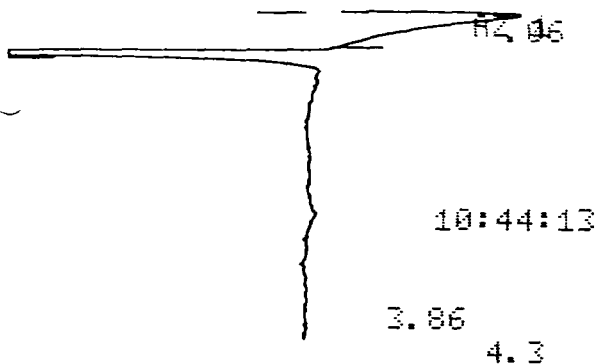
FILE 1. METHOD 0. RUN 13 INDEX 13

PEAK#	AREA%	RT	AREA BC
1	100.	0.05	20276 01

TUT 003 1127

T01-70

CHANNEL A INJECT 11/09/87 10:41:40



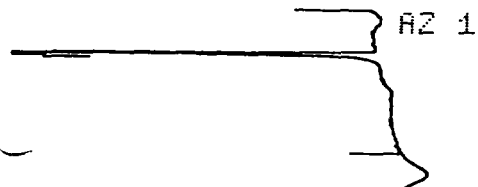
GCL 11/09/87 10:41:40 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 14 INDEX 14

PEAK#	AREA%	RT	AREA BC
1	100.	0.06	29473 01
TOTAL	100.		29473

66-T02-5'
1000V

CHANNEL A INJECT 11/09/87 10:46:57

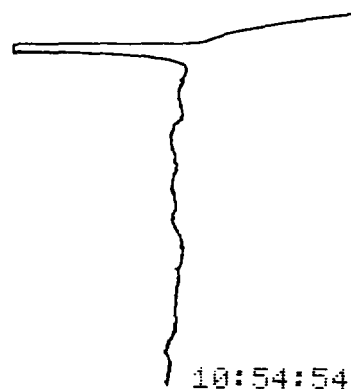


CHANNEL A INJECT 11/09/87 10:50:08
AZ 1

NO DATA, CHANNEL A

66-T02-5'
1000V

CHANNEL A INJECT 11/09/87 10:50:11
AZ 1



NO DATA, CHANNEL A

66-T02-5'
1000V

~ 1163
CHANNEL A INJECT 11/09/87 10:56:15



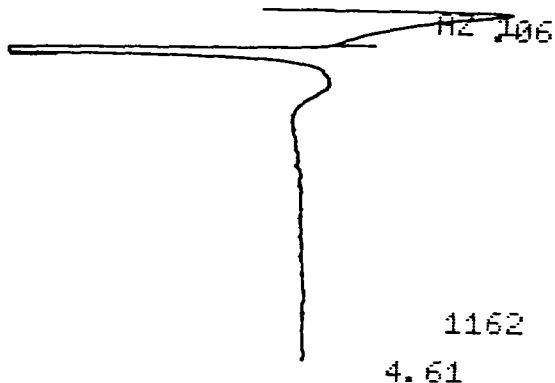
TUT 003 1128

GCL 11/09/87 10:56:15 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 17 INDEX 17

PEAK#	AREA%	RT	AREA BC
1	100.	0.05	24729 01
TOTAL	100.		24729

CHANNEL A INJECT 11/09/87 11:02:34

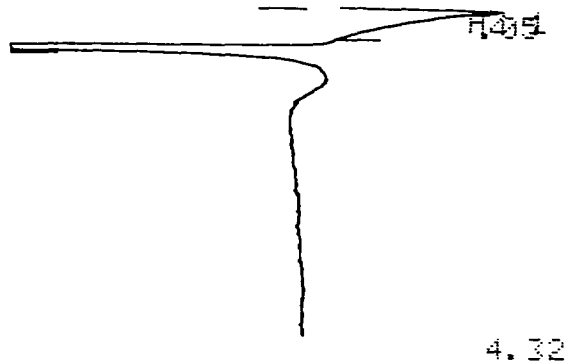


GCL 11/09/87 11:02:34 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 18 INDEX 18

PEAK#	AREA%	RT	AREA BC
1	100.	0.06	28116 01
TOTAL	100.		28116

1162 1163 1162 1163
CHANNEL A INJECT 11/09/87 11:08:56



L 11/09/87 11:08:56 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 19 INDEX 19

PEAK#	AREA%	RT	AREA BC
1	100.	0.05	24650 01

TOT 003 1129

. 2.1

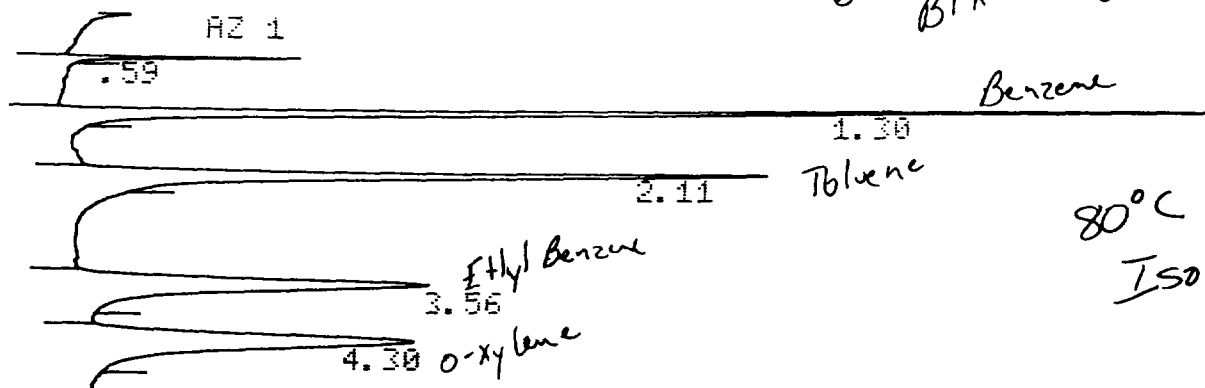
56-702-7
1000

56-702-7
1000

CHANNEL A

INJECT 11/09/87 11:13:59

AZ 1

6 ul STD
BTX all compounds
500 µg/l80°C
ISO

GCL

11/09/87 11:13:59

CH= "A" PS= 1.

FILE 1.

METHOD 0.

RUN 20

INDEX 20

PEAK#	AREA%	RT	AREA BC
1	2.187	0.59	4235 01
2	26.749	1.3	51808 01
3	24.769	2.11	47973 01
4	22.181	3.56	42960 01
5	24.115	4.3	46706 01

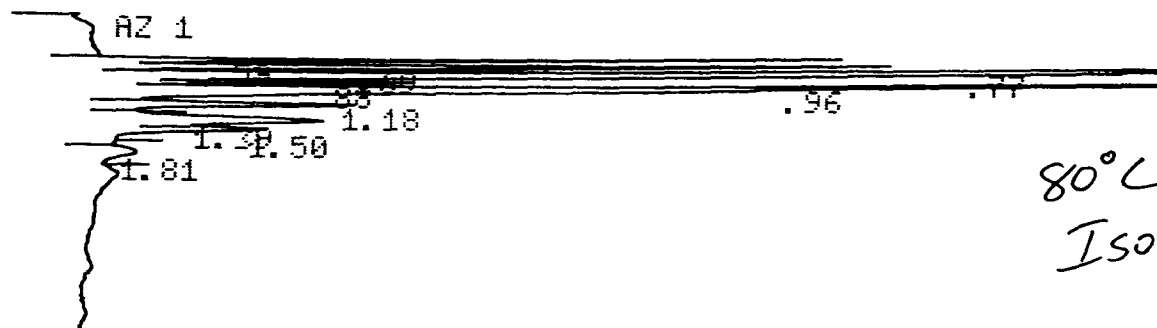
TOTAL 100. 193682

6-T03-4
500

CHANNEL A

INJECT 11/09/87 12:13:57

AZ 1

80°C
ISO

GCL

11/09/87 12:13:57

CH= "A" PS= 1.

FILE 1.

METHOD 0.

RUN 21

INDEX 21

PEAK#	AREA%	RT	AREA BC
1	6.333	0.59	12990 02
2	10.797	0.69	22149 02
3	37.568	0.77	77065 02
4	3.509	0.88	7199 02
5	27.732	0.96	56887 08
6	3.718	1.18	7627 05
7	6.076	1.39	12463 02
8	3.206	1.5	6577 03
9	1.06	1.81	2175 01

TOTAL 100. 205132

OF=10

TUT 003 1130

SG-T03-4
1000

TOTAL 100.

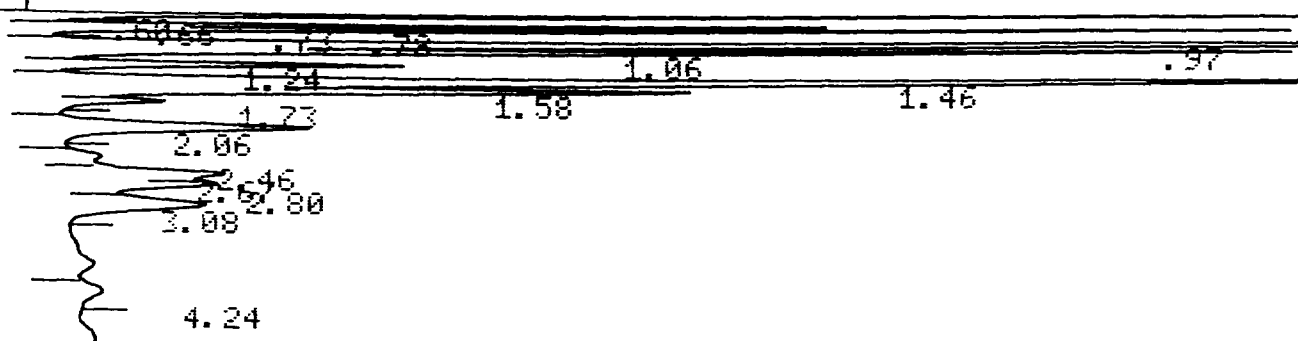
508257

65-7 100d

12:33:44

CHANNEL A INJECT 11/09/87 12:36:23

AZ 1



GCL 11/09/87 12:36:23 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 24 INDEX 24

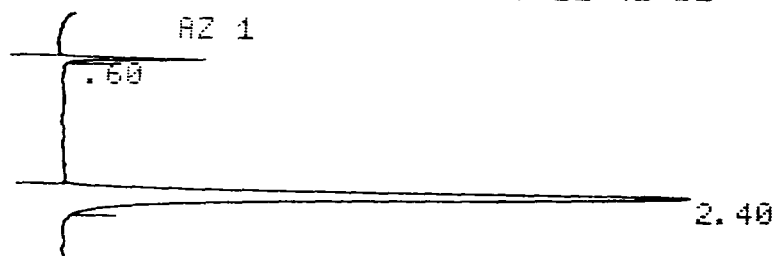
PEAK#	AREA%	RT	AREA	BC
1	5.885	0.6	25737	02
2	0.414	0.66	1812	02
3	3.548	0.73	15517	02
4	6.55	0.78	28646	03
5	27.434	0.97	119983	02
6	9.861	1.06	43126	08
7	2.952	1.24	12909	06
8	18.185	1.46	79534	02
9	7.483	1.58	32728	02
10	1.314	1.73	5748	03
11	4.567	2.06	19972	01
12	0.781	2.46	3416	02
13	3.374	2.67	14755	02
14	3.146	2.8	13761	02
15	3.925	3.08	17167	03
16	0.581	4.24	2540	01

TOTAL 100. 437351

54 SW. BTX
50°C

CHANNEL A INJECT 11/09/87 12:42:32

AZ 1



FI= 1. FE= 1. MN= 0.

PRESS 'ENTER' TO SKIP ENTRY

FILE NAME=" GCL

ME FUNCTION VALUE

TT= .01 TF=" AZ TV= 1

TT= .01 TF=" PM TV= 1

TT=

TUT 003 1131

METHOD NUMBER:MN=

READY

TIME " 12:46
 FI= 1. FE= 1. MN= 0.
 PRESS 'ENTER' TO SKIP ENTRY
 FILE NAME=" GCL
 TIME FUNCTION VALUE
 TT= .01 TF=" AZ TV= 1
 IT= .01 TF=" PM TV= 1
 TT=

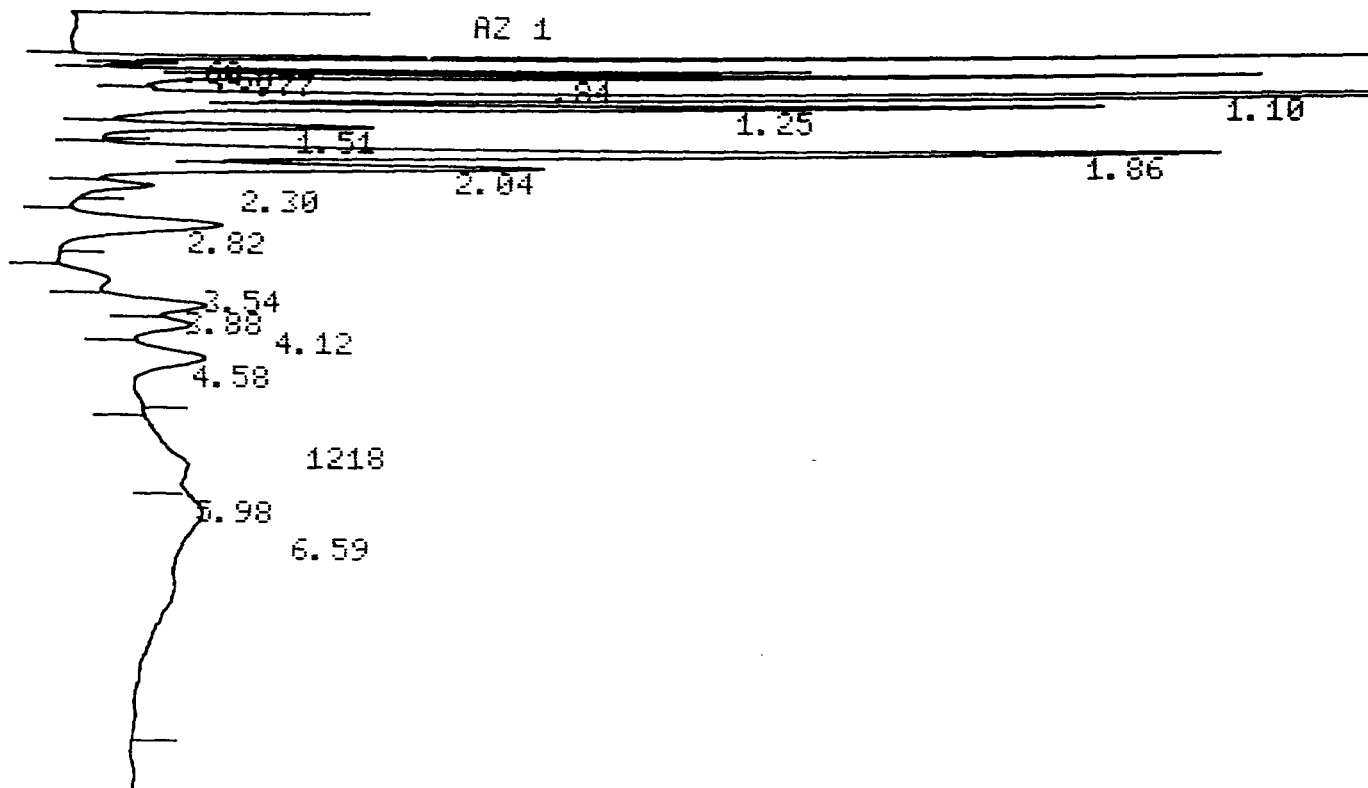
METHOD NUMBER:MN=

END OF DIALOG

AT= 8
 PT=100
 OF=10

50-70 3-4' 40°C
 100'

CHANNEL A INJECT 11/09/87 12:52:44

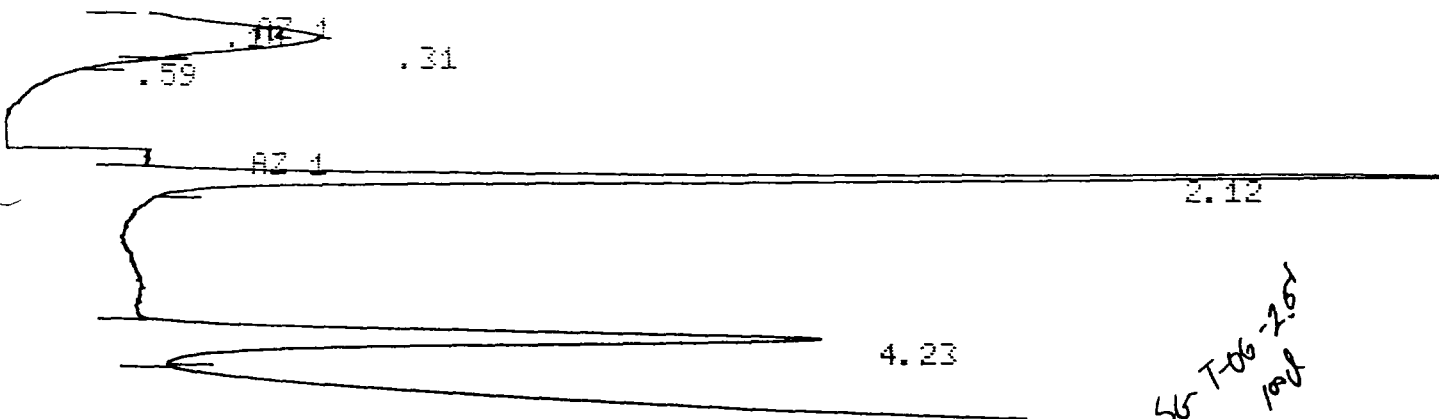


GCL 11/09/87 12:52:44 CH= "A" PS= 1.

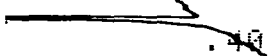
FILE 1. METHOD 0. RUN 1 INDEX 1

PEAK#	AREA%	RT	AREA	BC
1	4.649	0.6	25512	02
2	0.491	0.68	2693	02
3	3.121	0.77	17124	02
4	6.888	0.84	37798	02
5	23.739	1.1	130269	02
6	8.547	1.25	46899	08
7	2.465	1.51	13528	05
8	14.762	1.86	81008	02
9	5.924	2.04	32506	02
10	0.924	2.3	5071	03
11	3.909	2.82	21450	01
12	1.214	3.54	6662	02
13	3.184	3.88	17473	02
14	2.617	4.12	14359	02
15	3.421	4.58	18771	02

TUT 003 1132

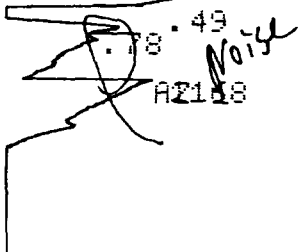


13:57:34
CHANNEL A INJECT 11/09/87 13:58:31
AZ 1



*56-T-06-2.6
1000*
*56-T-06-2.5
1000*

CHANNEL A INJECT 11/09/87 14:00:14
AZ 1 .06



AZ 1
4.88

GCL 11/09/87 14:00:14 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 2 INDEX 2

PEAK#	AREA%	RT	AREA	BC
1	63.629	0.06	137208	02
2	13.446	0.49	28995	02
3	22.925	0.78	49434	03

TOTAL 100. 215637

TT=5.0
TF=" ER TV= 1
PT EVAL:
PT= 174.

*56-T-06-2.5
1000*

CHANNEL A INJECT 11/09/87 14:07:34
AZ 1



TUT 003 1133

GCL 11/09/87 14:07:34 CH= "A" PS= 1.

PEAK#	AREA%	RT	AREA BC
1	6.973	0.04	13756 01
2	93.027	0.78	183506 01
TOTAL	100.		197262

SG-T-07-5'
1000

14:15:05
CHANNEL A INJECT 11/09/87 14:16:07

AZ 1
0.93

SG-T-07-5'
1000

CHANNEL A INJECT 11/09/87 14:18:10

AZ 1
773 4.98

4.71

GCL 11/09/87 14:18:10 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 4 INDEX 4

PEAK#	AREA%	RT	AREA BC
1	100.	0.05	19118 01

TOTAL 100. 19118

OF=20

CHANNEL A INJECT 11/09/87 14:24:08

AZ 1 AZ 1
AZ 1

Bad Injector

SG-T-07-5'
1000

1141

CHANNEL A INJECT 11/09/87 14:25:41

.05 AZ 1

SG-T-07-5'
1000

TUT 003 1134

4.19

FILE 1. METHOD 0. RUN 5 INDEX 5

PEAK#	AREA%	RT	AREA BC
1	100.	0.05	17183 01
TOTAL	100.		17183

14:37:59

CHANNEL A INJECT 11/09/87 14:39:01

AZ 1
1156

1.16

CHANNEL A INJECT 11/09/87 14:41:29

AZ 105
.47 1179 .69
4.16

GCL 11/09/87 14:41:29 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 6 INDEX 6

PEAK#	AREA%	RT	AREA BC
1	28.467	0.05	101424 02
2	7.283	0.47	25948 03
3	64.25	0.69	228911 01
TOTAL	100.		356283

CHANNEL A INJECT 11/09/87 14:46:36

AZ 1
1100 1112 AZ 1
.68

GCL 11/09/87 14:46:36 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 7 INDEX 7

PEAK#	AREA%	RT	AREA BC
1	100.	0.68	226330 01
TOTAL	100.		226330

14:55:15

CHANNEL A INJECT 11/09/87 14:56:54

AZ 1
.49 .06

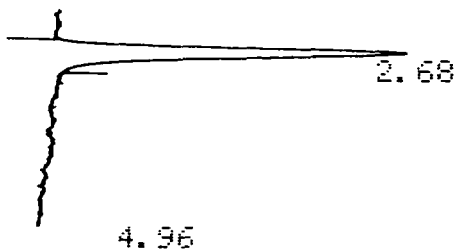
TUT 003 1135

66-7-07-5.51
50A

56-7-07-5.51
1000A

66-7-07-5.51
1000A

66-7-08-2
1000A



GCL 11/09/87 14:56:54 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 8 INDEX 8

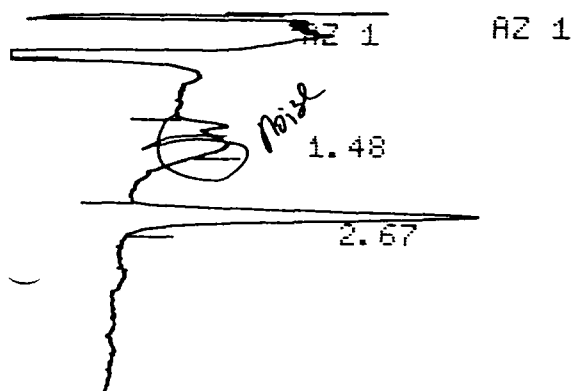
PEAK#	AREA%	RT	AREA BC
1	77.723	0.06	125231 02
2	10.505	0.49	16926 03
3	0.796	1.49	1282 01
4	10.976	2.68	17685 01

TOTAL 100. 161124

16967

66-T-08-2'
1000

CHANNEL A INJECT 11/09/87 15:02:28



GCL 11/09/87 15:02:28 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 9 INDEX 9

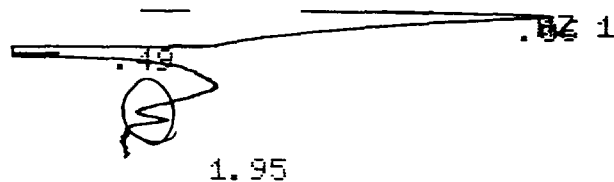
PEAK#	AREA%	RT	AREA BC
1	20.522	1.48	4527 01
2	79.478	2.67	17532 01

TOTAL 100. 22059

19000

66-T-08-2'
1000

CHANNEL A INJECT 11/09/87 15:08:45

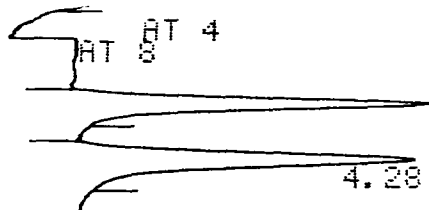


5ul 5ul
BTX

CHANNEL A INJECT 11/09/87 15:14:04



TU1 003 1136



3.55

4.28

GCL 11/09/87 15:14:04 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 10 INDEX 10

PEAK#	AREA%	RT	AREA BC
1	1.063	0.03	2048 01
2	26.926	1.3	51866 01
3	25.439	2.11	49002 01
4	21.265	3.55	40962 01
5	25.306	4.28	48745 01

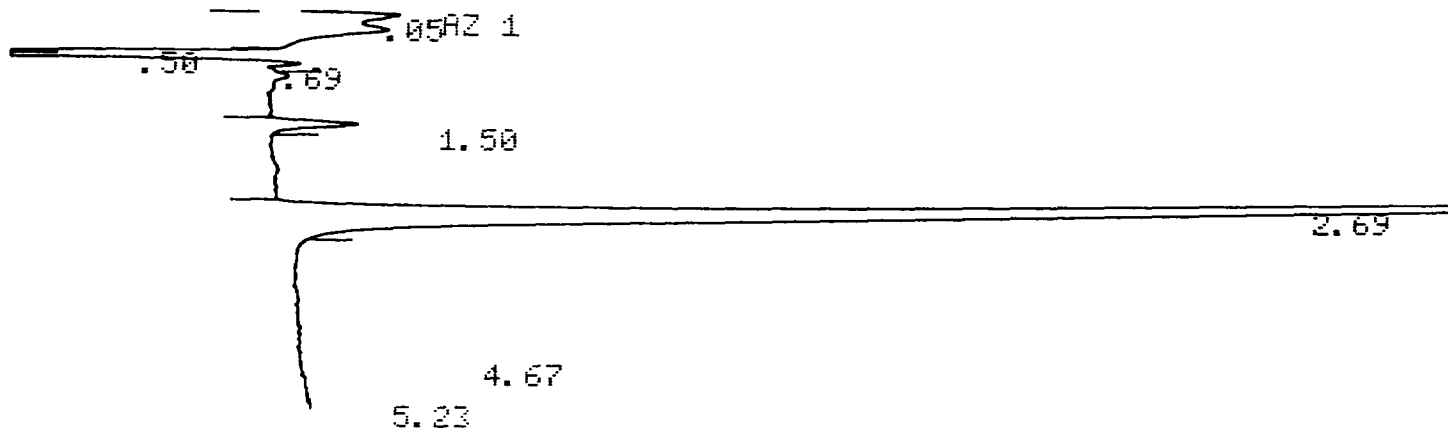
TOTAL 100. 192623

15:35:38
CHANNEL A INJECT 11/09/87 15:36:30



66-T-10-3
600

1166
CHANNEL A INJECT 11/09/87 15:38:56



66-T-10-3
1000

GCL 11/09/87 15:38:56 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 11 INDEX 11

PEAK#	AREA%	RT	AREA BC
1	33.935	0.05	114239 02
2	4.8	0.5	16158 03
3	7.445	0.69	25064 01
4	1.609	1.5	5418 01
5	52.21	2.69	175759 01

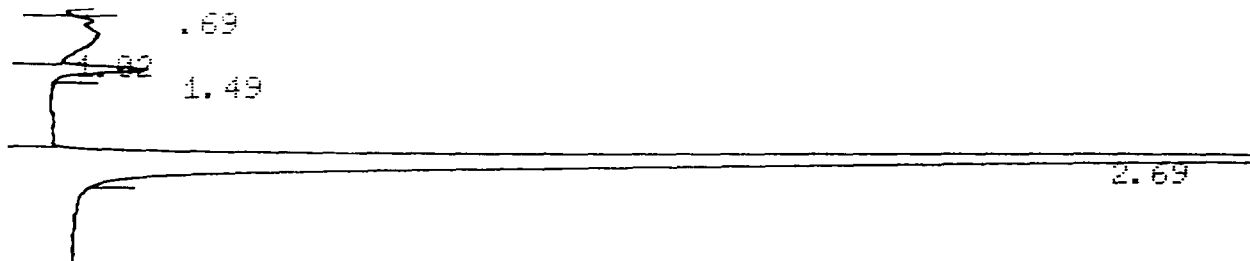
TOTAL 100. 336638

CHANNEL A INJECT 11/09/87 15:45:14

206241

66-T-10-3
1000

TOT 003 1137



GCL 11/09/87 15:45:14 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 12 INDEX 12

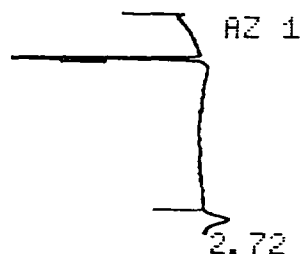
PEAK#	AREA%	RT	AREA BC
1	7.128	0.05	16876 01
2	10.525	0.69	24918 01
3	3.541	1.02	8384 02
4	2.501	1.49	5921 03
5	76.304	2.69	180648 01

211487

50-T-11-5
508

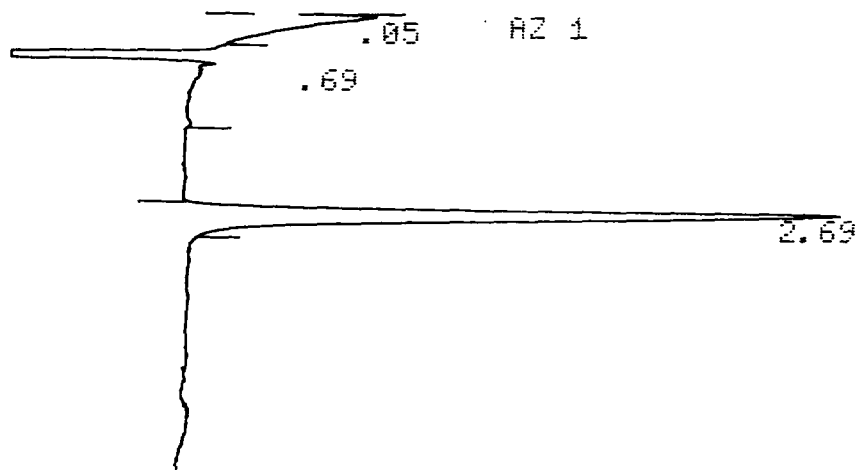
TOTAL 100. 236747

CHANNEL A INJECT 11/09/87 16:06:15



50-T-11-5
1000

CHANNEL A INJECT 11/09/87 16:10:19



GCL 11/09/87 16:10:19 CH= "A" PS= 1.

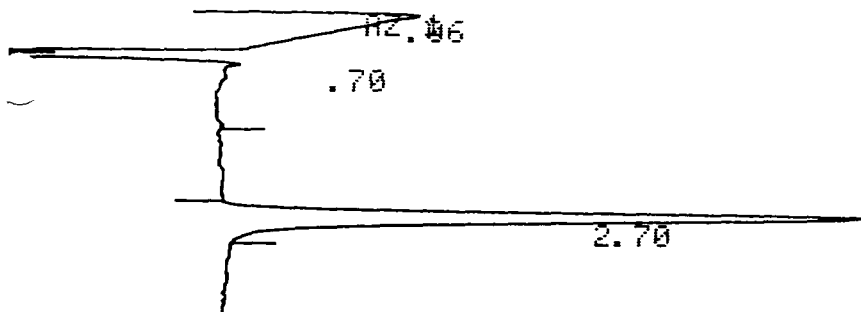
FILE 1. METHOD 0. RUN 13 INDEX 13

PEAK#	AREA%	RT	AREA BC
1	5.5	0.05	15144 01
2	70.758	0.69	194835 01
3	23.742	2.69	65375 01

TOT 003 1138

50-T-11-5

CHANNEL A INJECT 11/09/87 16:17:27



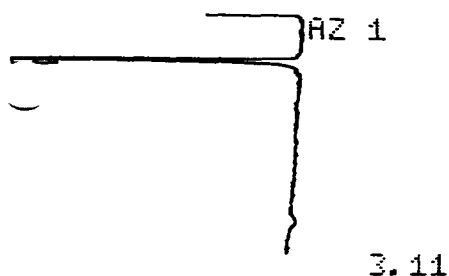
GCL 11/09/87 16:17:27 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 14 INDEX 14

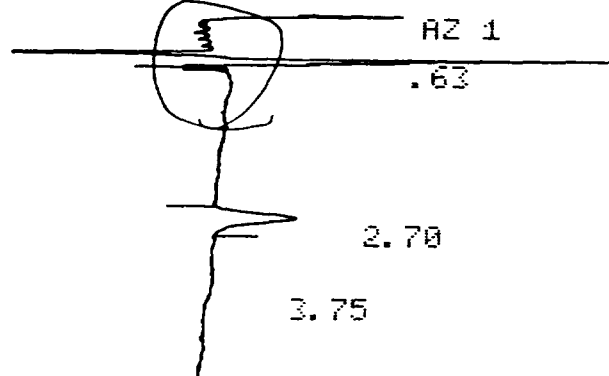
PEAK#	AREA%	RT	AREA BC
1	35.723	0.06	144429 01
2	48.286	0.7	195222 01
3	15.992	2.7	64655 01

TOTAL 100. 404306

16:26:51
CHANNEL A INJECT 11/09/87 16:27:56



CHANNEL A INJECT 11/09/87 16:31:47



late hit
on run button

GCL 11/09/87 16:31:47 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 15 INDEX 15

AK#	AREA%	RT	AREA BC
1	78.607	0.63	29785 03
2	21.393	2.7	8106 01

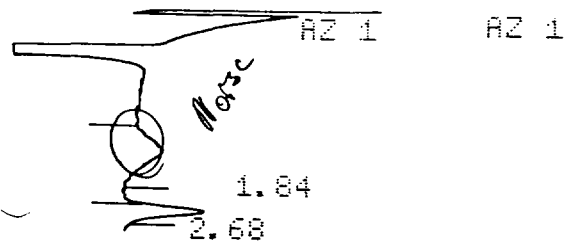
TOTAL 100. 37891

TU 003 1139

5.6-T-1 100

SG-T-12-3.5
100

SG-T-12-3.5
100



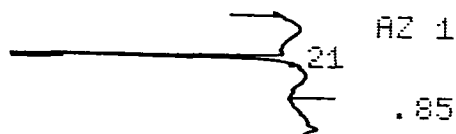
GCL 11/09/87 16:37:17 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 16 INDEX 16

PEAK#	AREA%	RT	AREA BC
1	56.413	1.84	7701 01
2	43.587	2.68	5950 01
TOTAL	100.		13651

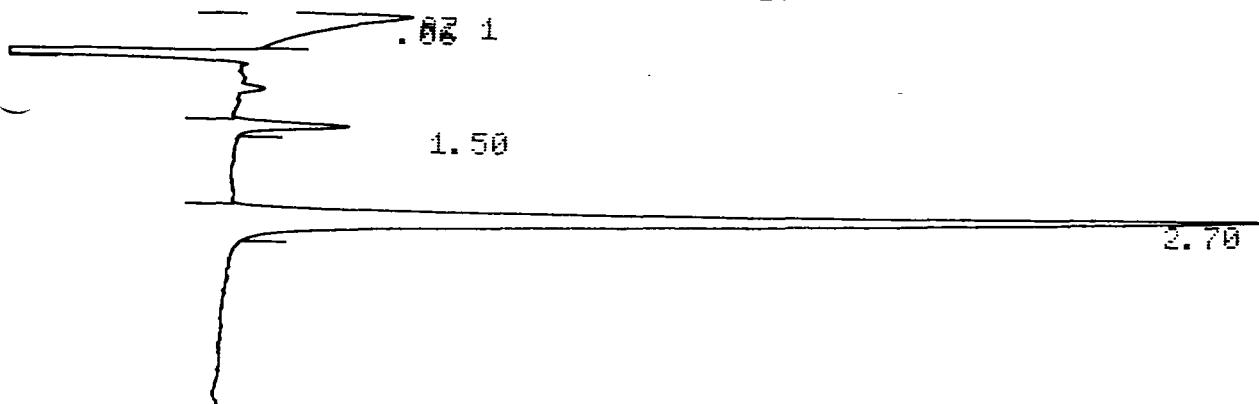
50-T-13-4.5'
1200h

8.63 16:45:56
CHANNEL A INJECT 11/09/87 16:46:35



50-T-13-4.5'
1200h

CHANNEL A INJECT 11/09/87 16:51:38



80°C
Iso

GCL 11/09/87 16:51:38 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 17 INDEX 17

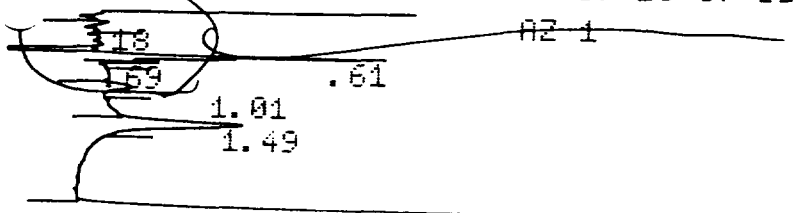
PEAK#	AREA%	RT	AREA BC
1	17.276	0.06	23256 01
2	5.476	1.5	7371 01
3	77.249	2.7	103989 01
TOTAL	100.		134616

11/360

late hit
on run button

50-T-13-4.5'
1200h

CHANNEL A INJECT 11/09/87 16:57:33



TUT 003 1140

80°C
Iso

GCL 11/09/87 16:57:33 CH= "A" PS= 1.

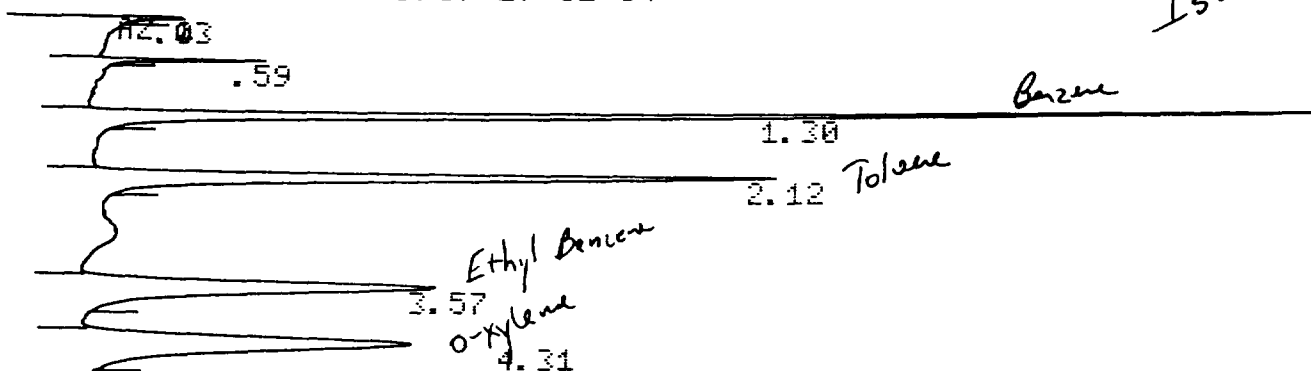
FILE 1. METHOD 0. RUN 18 INDEX 18

PEAK#	AREA%	RT	AREA BC
1	0.167	0.18	239 01
2	12.429	0.61	17823 02
3	2.759	0.69	3957 03
4	0.865	1.01	1241 01
5	6.202	1.49	8894 01
6	77.578	2.69	111248 01
TOTAL	100.		143402

120097

5th 3th.
80°C
Iso

CHANNEL A INJECT 11/09/87 17:02:04



GCL 11/09/87 17:02:04 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 19 INDEX 19

PEAK#	AREA%	RT	AREA BC
1	0.825	0.03	1595 01
2	1.646	0.59	3181 01
3	26.936	1.3	52071 01
4	24.996	2.12	48321 01
5	21.656	3.57	41865 01
6	23.941	4.31	46281 01
TOTAL	100.		193314

READY

DATE " 11/10/87

TIME " 08:10

FI= 1. FE= 1. MN= 0.

PRESS 'ENTER' TO SKIP ENTRY

FILE NAME=" GCL

TIME FUNCTION VALUE

TT= .01 TF=" AZ TV= 1

TT= .01 TF=" PM TV= 1

TT= 5.0 TF=" ER TV= 1

TT=

METHOD NUMBER:MN=

END OF DIALOG

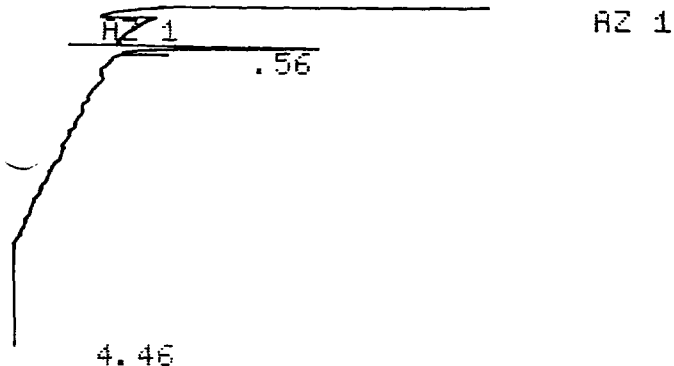
AT= 8

PT=100

OF=10

1151

CHANNEL A INJECT 11/10/87 08:39:30



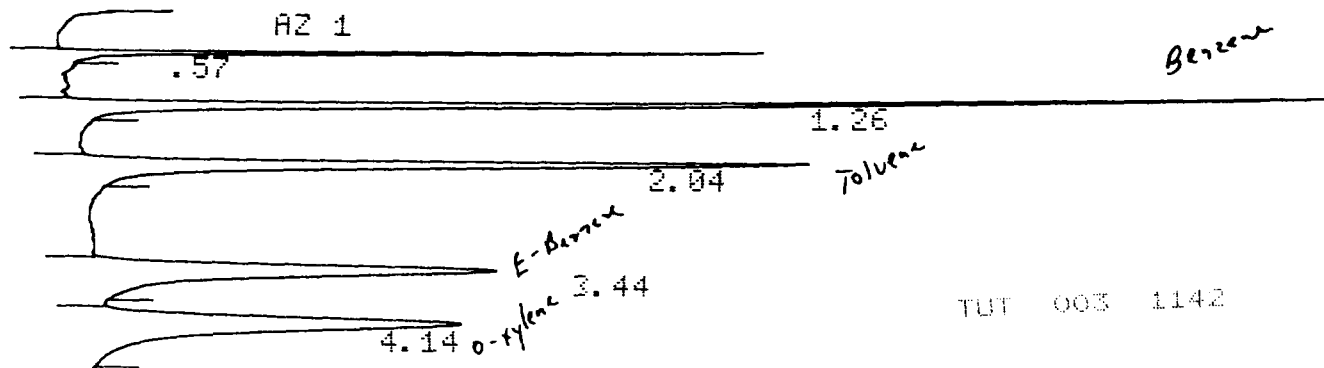
GCL 11/10/87 08:39:30 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 1 INDEX 1

PEAK#	AREA%	RT	AREA BC
1	100.	0.56	4469 01
TOTAL	100.		4469

OF=15

CHANNEL A INJECT 11/10/87 08:52:41



TUT 003 1142

FID
OV-101 6' 1/8"
50psi - N₂ - 30ml/min
40psi - H₂ - 30ml/min
60psi - Air - 300 ml/min
80°C T_{co} Column
250°C Detector
200°C Injector
Voltage 18
H₂O Blank

GCL 11/10/87 08:52:41 CH= "H" PS= 1.

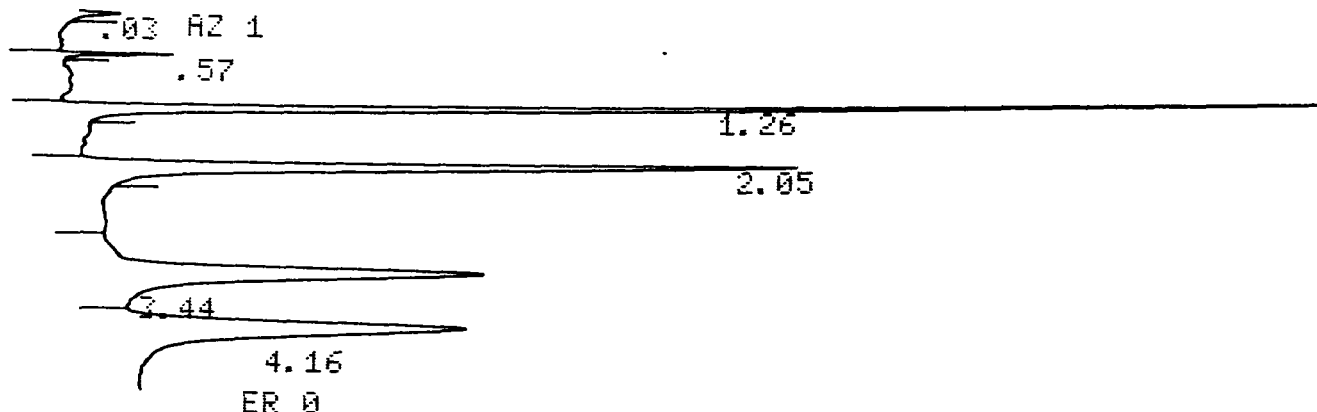
FILE 1. METHOD 0. RUN 2 INDEX 2

PEAK#	AREA%	RT	AREA BC
1	6.702	0.57	14902 01
2	23.581	1.26	52433 01
3	22.911	2.04	50942 01
4	21.966	3.44	48841 01
5	24.84	4.14	55233 01

TOTAL 100. 222351

64 SW.
BTX

CHANNEL A INJECT 11/10/87 09:01:28



GCL 11/10/87 09:01:28 CH= "A" PS= 1.

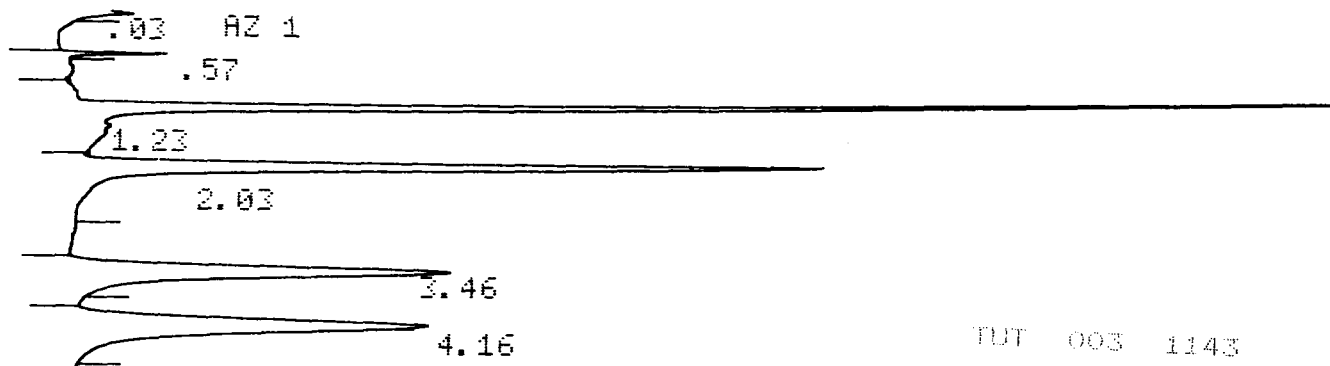
FILE 1. METHOD 0. RUN 3 INDEX 3

PEAK#	AREA%	RT	AREA BC
1	0.733	0.03	1486 01
2	1.044	0.57	2116 01
3	25.655	1.26	51995 01
4	24.321	2.05	49292 01
5	22.88	3.44	46371 02
6	25.366	4.16	51409 03

TOTAL 100. 202669

64 SW.
BTX

CHANNEL A INJECT 11/10/87 09:08:16



GCL 11/10/87 09:08:16 CH= "A" PS= 1.

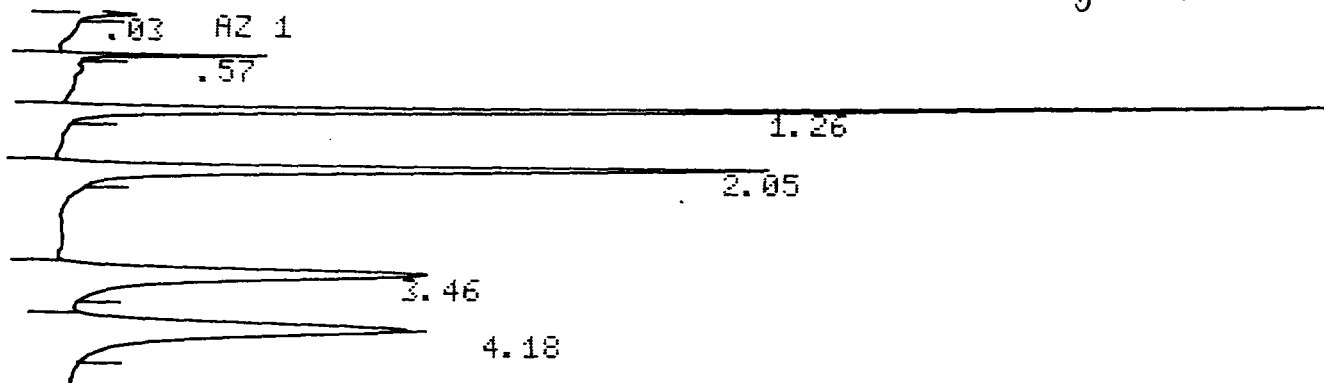
FILE 1. METHOD 0. RUN 4 INDEX 4

TUT 003 1143

1	0.639	0.03	1434	01
2	0.91	0.57	2041	01
3	29.737	1.23	66724	02
4	25.797	2.03	57883	03
5	19.773	3.46	44367	01
6	23.145	4.16	51933	01

TOTAL 100. 224382

CHANNEL A INJECT 11/10/87 09:16:11



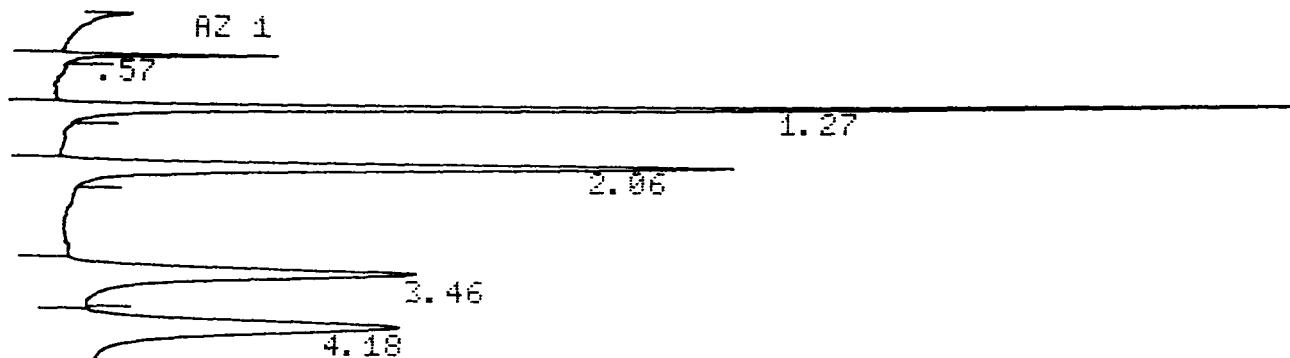
GCL 11/10/87 09:16:11 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 5 INDEX 5

PEAK#	AREA%	RT	AREA BC
1	0.953	0.03	1889 01
2	1.865	0.57	3695 01
3	26.102	1.26	51727 01
4	24.333	2.05	48221 01
5	22.296	3.46	44183 01
6	24.451	4.18	48454 01

TOTAL 100. 198169

CHANNEL A INJECT 11/10/87 09:25:46



GCL 11/10/87 09:25:46 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 6 INDEX 6

PEAK#	AREA%	RT	AREA BC
1	2.292	0.57	4362 01
2	26.825	1.27	51059 01
3	24.812	2.06	47227 01

TUT 003 1144

TOTAL 100. 198341

*N2 Br
2000V*

CHANNEL A INJECT 11/10/87 09:34:39

.04 AZ 1

AZ 1 1140

3.60

GCL 11/10/87 09:34:39 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 7 INDEX 7

PEAK#	AREA%	RT	AREA BC
1	90.22	0.04	14658 01
2	9.78	3.6	1589 01

TOTAL 100. 16247

*M blank
1000V*

CHANNEL A INJECT 11/10/87 09:41:01

.052 1

.50

3.55

4.47

GCL 11/10/87 09:41:01 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 8 INDEX 8

PEAK#	AREA%	RT	AREA BC
1	85.483	0.05	39042 02
2	14.517	0.5	6630 03

TOTAL 100. 45672

*Ans
1000V*

CHANNEL A INJECT 11/10/87 09:50:19

AZ 1

.52

1.28

TUT 003 1145

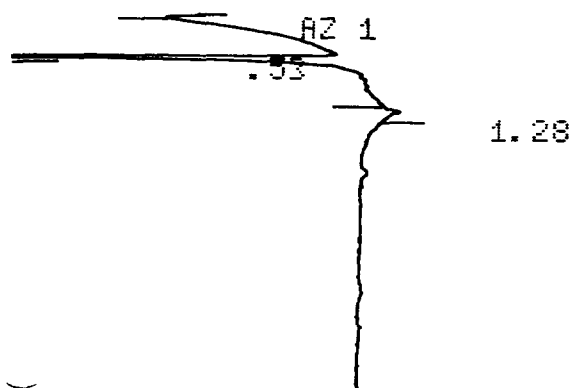
GCL 11/10/87 09:50:19 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 9 INDEX 9

PEAK#	AREA%	RT	AREA BC
1	99.063	0.52	87990 03
2	0.937	1.28	832 01
TOTAL	100.		88822

*System Blank
1000*

CHANNEL A INJECT 11/10/87 09:56:22



GCL 11/10/87 09:56:22 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 10 INDEX 10

PEAK#	AREA%	RT	AREA BC
1	98.959	0.53	91364 03
2	1.041	1.28	961 01
TOTAL	100.		92325

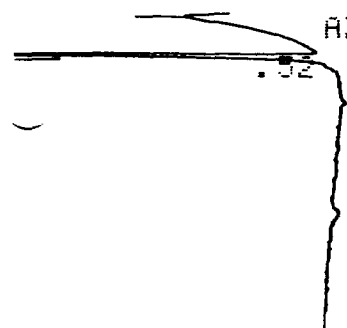
*56-F-01-4.5
1000*

10:08:14
CHANNEL A INJECT 11/10/87 10:09:54
AZ 1



*56-F-01-4.5
1000*

CHANNEL A INJECT 11/10/87 10:12:36
AZ 1



TUT 003 1146

GCL 11/10/87 10:12:36 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 11 INDEX 11

PEAK#	AREA%	RT	AREA BC
1	100.	0.52	69943 03
TOTAL	100.		69943

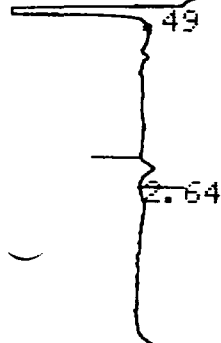
SG-F-01-4.5'
10028

CHANNEL A INJECT 11/10/87 10:17:37
.04 AZ 1



SG-F-01-4.5'
10028

CHANNEL A INJECT 11/10/87 10:19:42
.06 AZ 1



ER 0

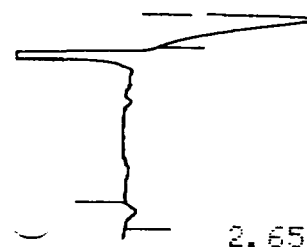
GCL 11/10/87 10:19:42 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 12 INDEX 12

PEAK#	AREA%	RT	AREA BC
1	98.272	0.06	74082 02
2	10.244	0.49	8597 03
3	1.485	2.64	1246 01
TOTAL	100.		83925

SG-F-01-4.5'
10028

10:26:30
CHANNEL A INJECT 11/10/87 10:26:54
.05 1



TUT 003 1147

GCL 11/10/87 10:26:54 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 13 INDEX 13

PEAK# 00000 RT 0000 00

1	94.617	0.05	18068 01
2	5.383	2.65	1028 01

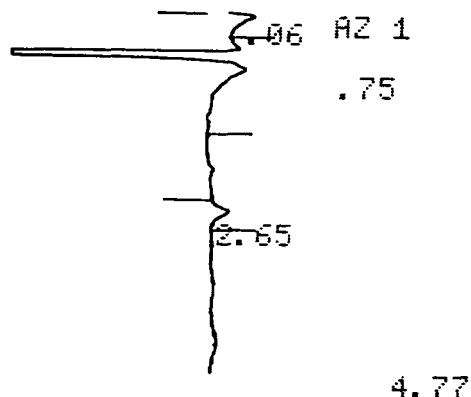
TOTAL 100. 19096

56-F-02-45
1002

CHANNEL A INJECT 11/10/87 10:30:39



CHANNEL A INJECT 11/10/87 10:33:33



56-F-02-45
1002

GCL 11/10/87 10:33:33 CH= "A" PS= 1.

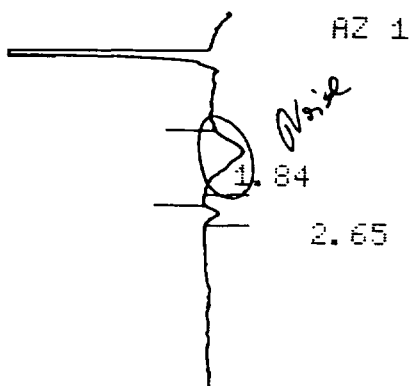
FILE 1. METHOD 0. RUN 14 INDEX 14

PEAK#	AREA%	RT	AREA BC
1	3.196	0.06	4433 01
2	95.581	0.75	132567 01
3	1.223	2.65	1696 01

TOTAL 100. 138696

56-F-02-45
1002

CHANNEL A INJECT 11/10/87 10:39:00



GCL 11/10/87 10:39:00 CH= "A" PS= 1.

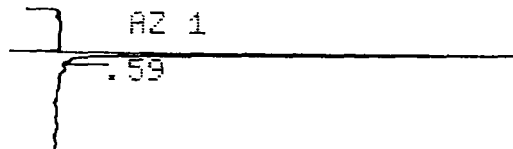
FILE 1. METHOD 0. RUN 15 INDEX 15

PEAK#	AREA%	RT	AREA BC
1	86.838	1.84	8082 01
2	13.162	2.65	1225 01

TUT 003 1148

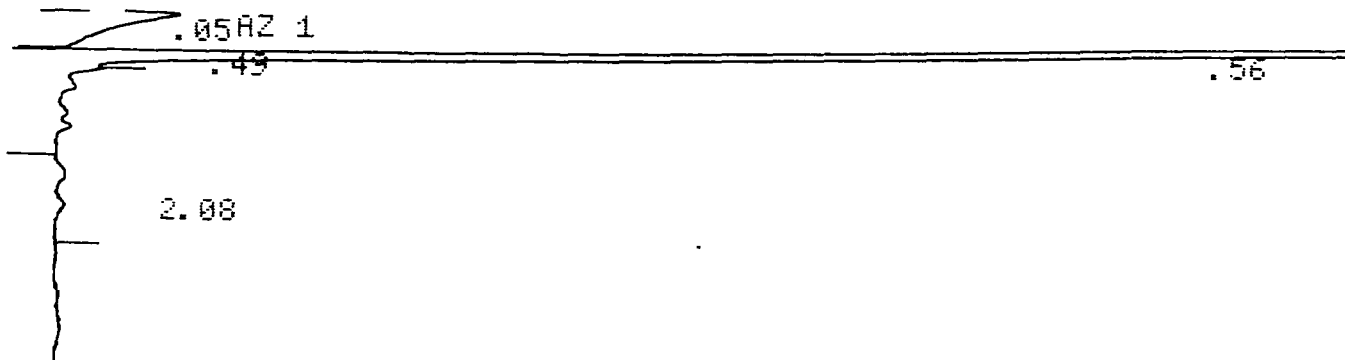
56-F-02-45
1002

11:00:42
CHANNEL A INJECT 11/10/87 11:01:06



66-F-03-6.5'
10024

CHANNEL A INJECT 11/10/87 11:04:17



GCL 11/10/87 11:04:17 CH= "A" PS= 1.

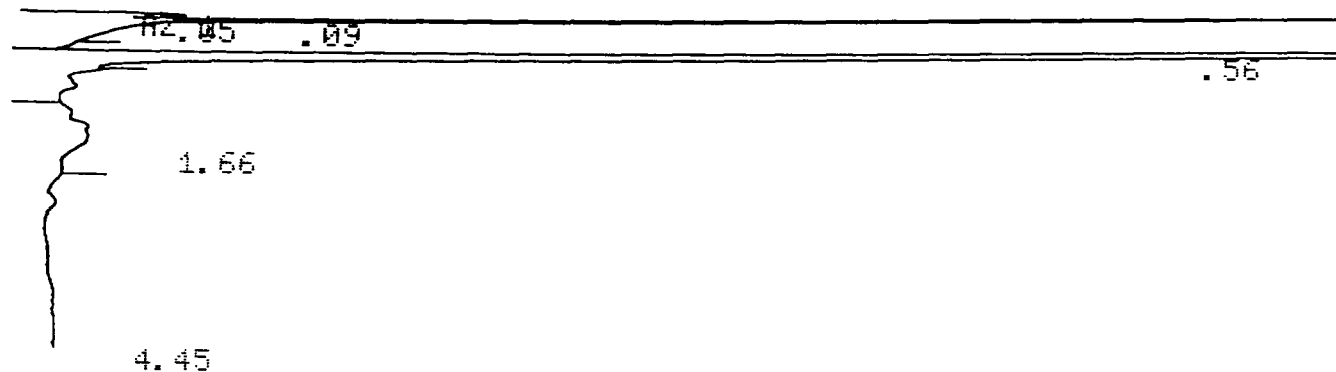
FILE 1. METHOD 0. RUN 16 INDEX 16

PEAK#	AREA%	RT	AREA	BC
1	9.843	0.05	13516	02
2	0.019	0.49	26	02
3	88.23	0.56	121152	03
4	1.908	2.08	2620	01

TOTAL 100. 137314

66-F-03-6.5'
10024

CHANNEL A INJECT 11/10/87 11:09:52



GCL 11/10/87 11:09:52 CH= "A" PS= 1.

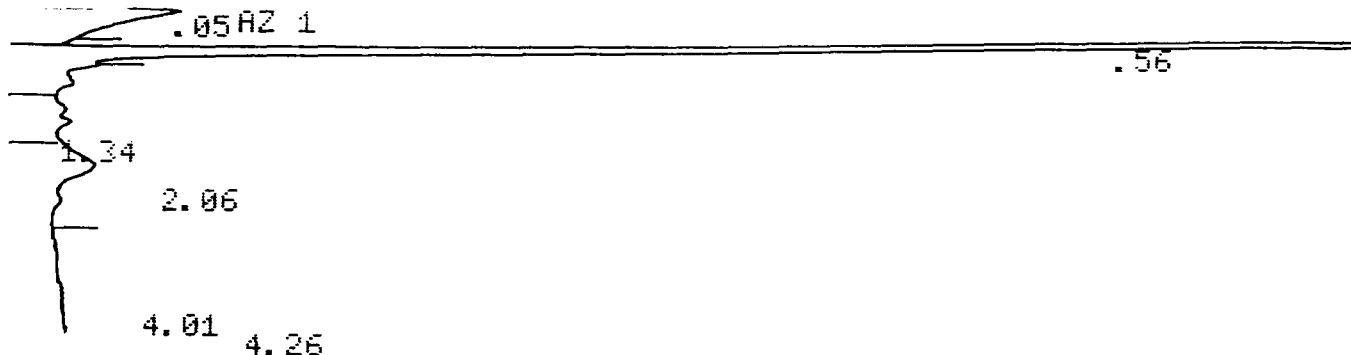
FILE 1. METHOD 0. RUN 17 INDEX 17

PEAK#	AREA%	RT	AREA	BC
1	1.098	0.05	3495	02
2	56.685	0.09	180356	03
3	39.633	0.56	126101	01
4	2.584	1.66	8221	01

TOTAL 100. 318173

TUT 003 1149

66-F-03-6.5'
10024



GCL 11/10/87 11:15:04 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 18 INDEX 18

PEAK#	AREA%	RT	AREA BC
1	7.458	0.05	10641 01
2	83.672	0.56	119378 01
3	1.489	1.34	2124 02
4	7.381	2.06	10531 03

TOTAL 100. 142674

11:23:36

READY

DATE "

READY

DATE "

READY

DATE " 11/10/87

TIME " 14:03

FI= 1. FE= 1. MN= 0.

PRESS 'ENTER' TO SKIP ENTRY

FILE NAME=" GCL

TIME FUNCTION VALUE

TT= .01 TF=" AZ TV= 1

TT= .01 TF=" PM TV= 1

TT= 5.0 TF=" ER TV= 1

TT=

METHOD NUMBER:MN=

END OF DIALOG

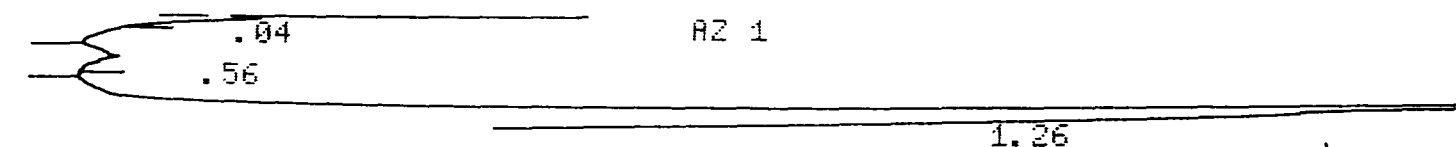
AT= 8

PT=100

OF=15

5th 5th. 074

CHANNEL A INJECT 11/10/87 14:24:46



old 5th. 074

CHANNEL A INJECT 11/10/87 14:30:54

AZ 1

TUT 003 1150



2.03

3.47

4.19

GCL 11/10/87 14:30:54 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 1 INDEX 1

PEAK#	AREA%	RT	AREA BC
1	0.99	0.57	2175 01
2	34.128	1.26	74970 02
3	24.88	2.03	54654 03
4	18.933	3.47	41590 01
5	21.07	4.19	46285 01

TOTAL 100. 219674

14:38:30
CHANNEL A INJECT 11/10/87 14:40:01

0.04 RZ 1

SG-F-01-8
1000h

.59

GCL 11/10/87 14:40:01 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 2 INDEX 2

PEAK#	AREA%	RT	AREA BC
1	0.059	0.04	9789 01
2	99.941	0.59	16482090 01

TOTAL 100. 16491879

CHANNEL A INJECT 11/10/87 14:46:47

RZ 1

SG-F-01-6
1000h

.60

GCL 11/10/87 14:46:47 CH= "A" PS= 1.

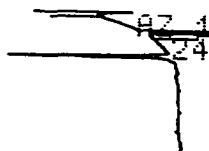
FILE 1. METHOD 0. RUN 3 INDEX 3

PEAK#	AREA%	RT	AREA BC
1	100.	0.6	15026910 01
TOTAL	100.		15026910

66-F-04-6.5'
10028

15:00:57

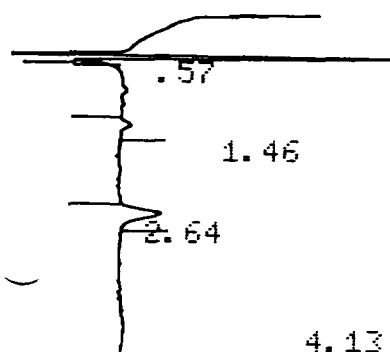
CHANNEL A INJECT 11/10/87 15:02:14



66-F-04-6.5'
10028

CHANNEL A INJECT 11/10/87 15:04:42

AZ 1



GCL 11/10/87 15:04:42 CH= "A" PS= 1.

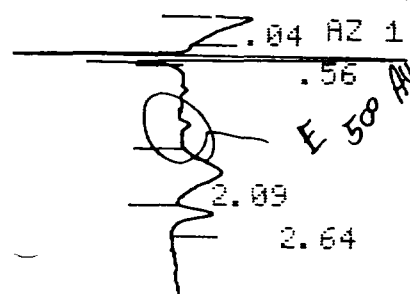
FILE 1. METHOD 0. RUN 4 INDEX 4

PEAK#	AREA%	RT	AREA BC
1	69.011	0.57	9213 03
2	4.082	1.46	545 01
3	26.906	2.64	3592 01
TOTAL	100.		13350

4137

66-F-04-6.5'
10028

CHANNEL A INJECT 11/10/87 15:09:51



TU1 003 1152

GCL 11/10/87 15:09:51 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 5 INDEX 5

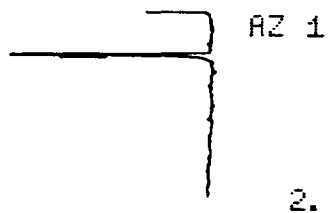
1	19.083	0.04	5345 01
2	31.561	0.56	8840 03
3	36.378	2.09	10189 02
4	12.978	2.64	3635 03

4/35

56-F-05-5.5'
1022h

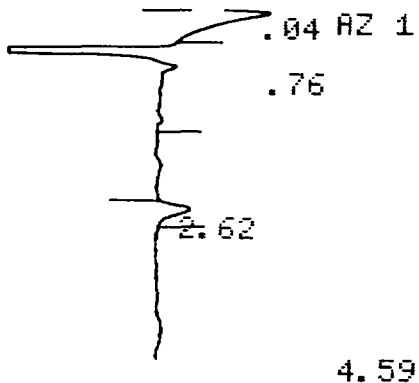
TOTAL 100. 28009

15:23:04
CHANNEL A INJECT 11/10/87 15:24:00



56-F-05-5.5'
1022h

CHANNEL A INJECT 11/10/87 15:27:04



GCL 11/10/87 15:27:04 CH= "A" PS= 1.

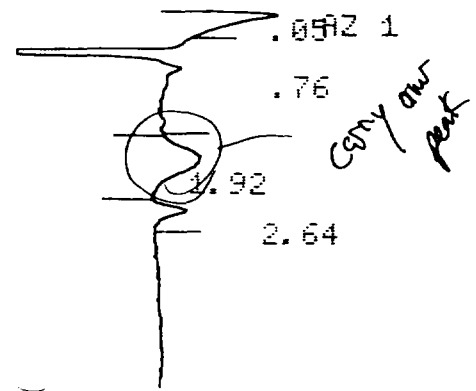
FILE 1. METHOD 0. RUN 6 INDEX 6

PEAK#	AREA%	RT	AREA BC
1	11.508	0.04	9605 01
2	84.871	0.76	70836 01
3	3.621	2.62	3022 01

TOTAL 100. 83463

56-F-05-5.5'
1022h

CHANNEL A INJECT 11/10/87 15:32:21



OUT 003 1153

GCL 11/10/87 15:32:21 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 7 INDEX 7

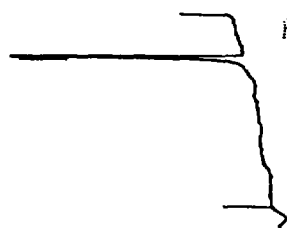
PEAK#	AREA%	RT	AREA BC
-------	-------	----	---------

1	8.258	0.05	7351	01
2	76.466	0.76	68064	01
3	11.541	1.92	10273	02
4	3.734	2.64	3324	03

TOTAL 100. 89012

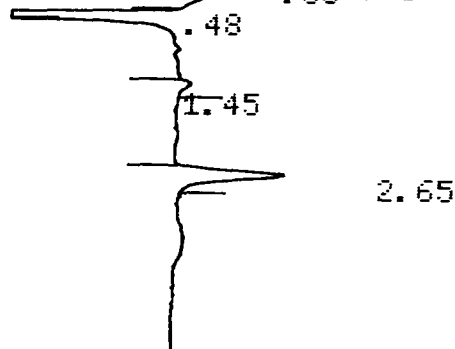
66-F-06-6'
1002

15:37:54
CHANNEL A INJECT 11/10/87 15:41:07
AZ 1



56-F-06-6'
1002

CHANNEL A INJECT 11/10/87 15:44:56
0.05 AZ 1



GCL 11/10/87 15:44:56 CH= "A" PS= 1.

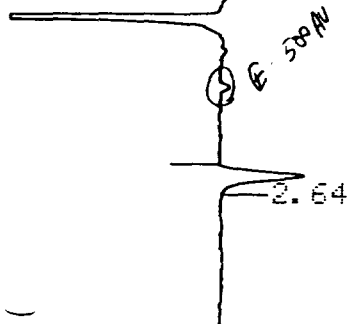
FILE 1. METHOD 0. RUN 8 INDEX 8

PEAK#	AREA%	RT	AREA	BC
1	73.792	0.05	70682	02
2	14.466	0.48	13856	03
3	0.831	1.45	796	01
4	10.911	2.65	10451	01

TOTAL 100. 95785

56-F-06-6'
1002

CHANNEL A INJECT 11/10/87 15:55:15
AZ 1



100 003 1154

GCL 11/10/87 15:55:15 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 9 INDEX 9

1 100. 2.64 7745 01
 TOTAL 100. 7745

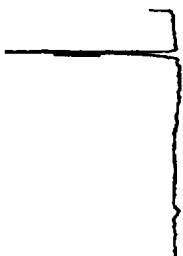
56-F-04-9.5'
100h

16:09:52

CHANNEL A

INJECT 11/10/87 16:11:18

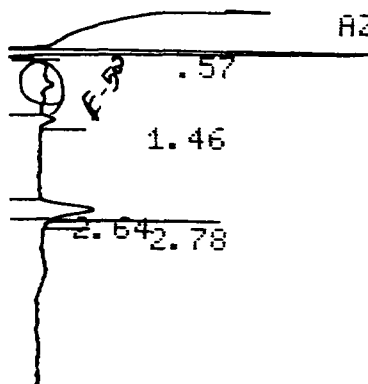
AZ 1



3.22

CHANNEL A INJECT 11/10/87 16:15:11

AZ 1



66-F-04-9.5'
100h

FILE 1. 11/10/87 16:15:11 CH= "A" PS= 1.

METHOD 0. RUN 10 INDEX 10

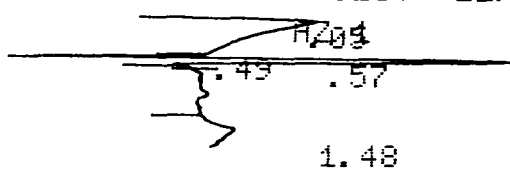
PEAK#	AREA%	RT	AREA BC
1	66.691	0.57	12798 03
2	3.955	1.46	759 01
3	23.325	2.64	4476 02
4	6.029	2.78	1157 03

5735

TOTAL 100. 19190

56-F-04-9.5'
100h

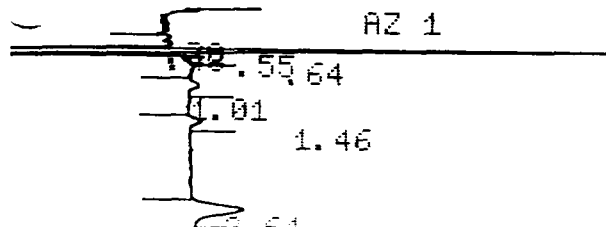
CHANNEL A INJECT 11/10/87 16:20:53



56-F-04-9.5'
100h

CHANNEL A INJECT 11/10/87 16:28:05

AZ 1



TUT 003 1155

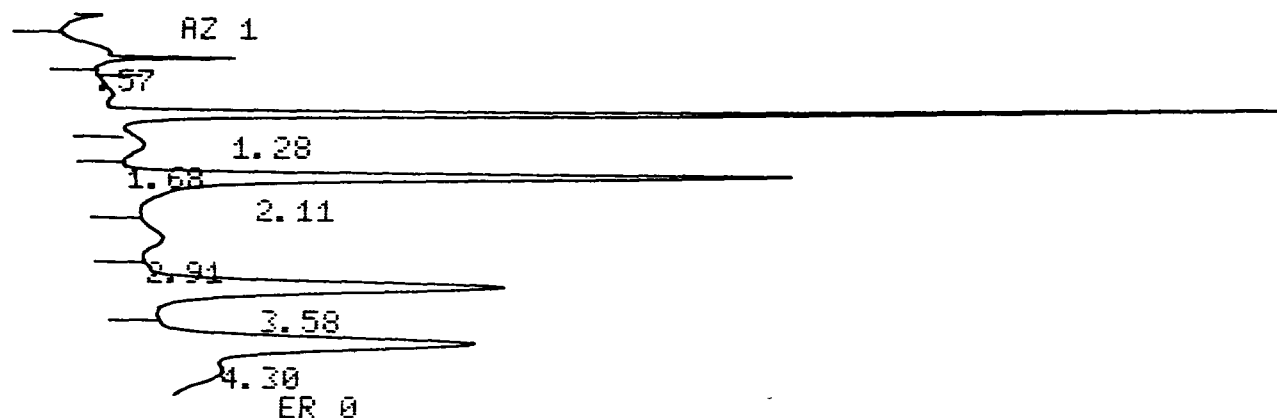
GCL 11/10/87 16:28:05 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 11 INDEX 11

PEAK#	AREA%	RT	AREA BC
1	19.201	0.38	8790 02
2	6.378	0.48	2920 02
3	39.791	0.55	18216 02
4	21.486	0.64	9836 03
5	1.042	1.01	477 01
6	1.566	1.46	717 01
7	10.535	2.64	4823 01

TOTAL 100. 45779

CHANNEL A INJECT 11/10/87 16:38:12



GCL 11/10/87 16:38:12 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 12 INDEX 12

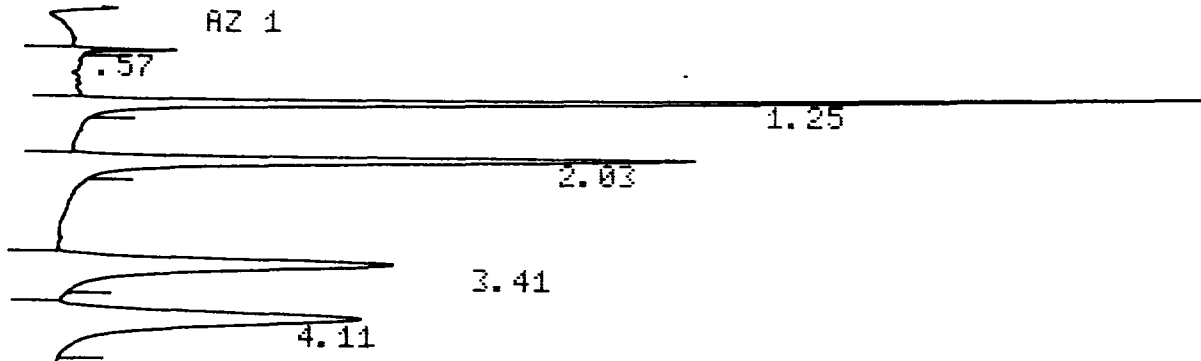
PEAK#	AREA%	RT	AREA BC
1	3.423	0.57	7104 01
2	23.761	1.28	49313 02
3	2.062	1.68	4280 02
4	25.716	2.11	53369 02
5	2.447	2.91	5079 02
6	20.467	3.58	42477 02
7	22.123	4.3	45912 03

TOTAL 100. 207534

FID
 OV-101 6' 1/8"
 50 psi - N₂ - 30 ml/min
 40 psi - H₂ - 30 ml/min
 60 psi - Air - 300 ml/min
 80°C Iso
 Det. - 250°C
 Inj 200°C
 Voltage - 10

3rd shk.
 BTX

CHANNEL A INJECT 11/11/87 09:37:14



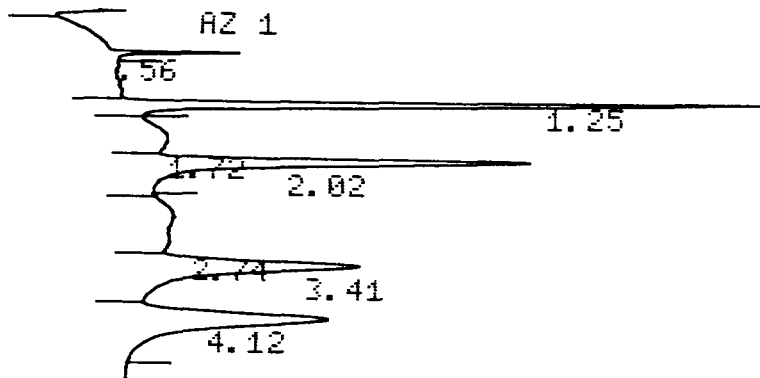
GCL 11/11/87 09:37:14 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 5 INDEX 5

PEAK#	AREA%	RT	AREA BC
1	1.062	0.57	1877 01
2	25.863	1.25	45724 01
3	24.422	2.03	43176 01
4	22.874	3.41	40440 01
5	25.778	4.11	45574 01

TOTAL 100. 176791

CHANNEL A INJECT 11/11/87 09:42:38



GCL 11/11/87 09:42:38 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 6 INDEX 6

PEAK# AREA% RT AREA BC

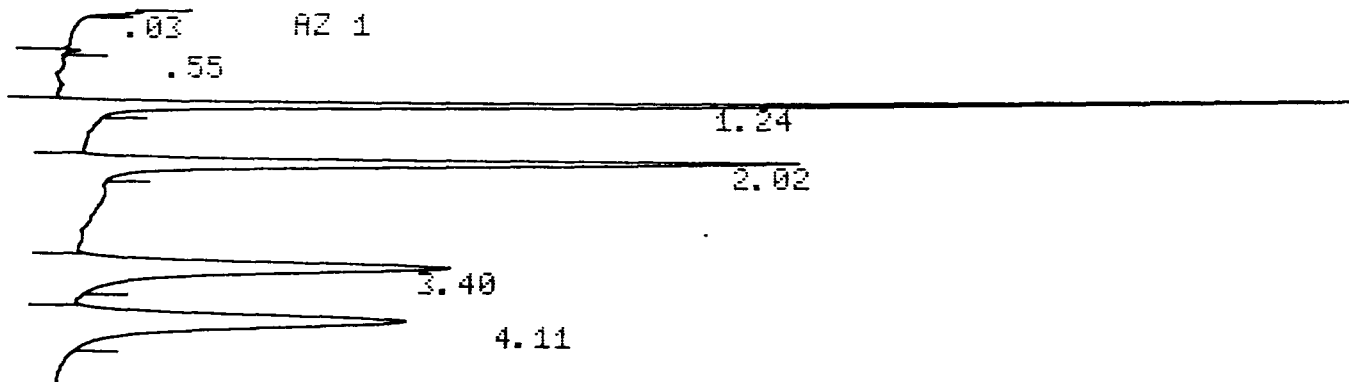
TUT 003 1157

3	3.447	1.72	4552 02
4	21.306	2.02	28136 03
5	7.227	2.74	9544 02
6	22.584	3.41	29824 02
7	22.802	4.12	30112 03

TOTAL 100. 132057

5/28/87

1159
CHANNEL A INJECT 11/11/87 09:48:13



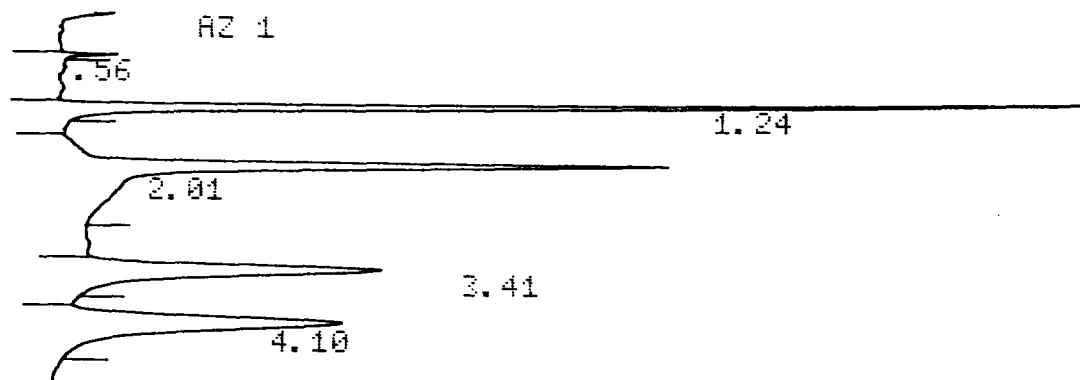
GCL 11/11/87 09:48:13 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 7 INDEX 7

PEAK#	AREA%	RT	AREA BC
1	0.553	0.03	1066 01
2	0.137	0.55	264 01
3	26.742	1.24	51532 01
4	25.034	2.02	48241 01
5	23.016	3.4	44353 01
6	24.518	4.11	47246 01

TOTAL 100. 192702

CHANNEL A INJECT 11/11/87 09:54:11



GCL 11/11/87 09:54:11 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 8 INDEX 8

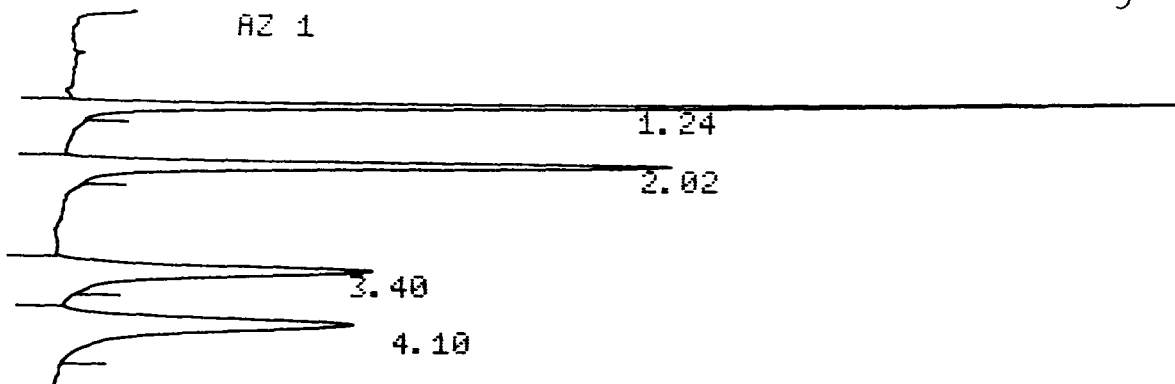
PEAK#	AREA%	RT	AREA BC
1	0.631	0.56	1097 01
2	23.733	1.24	41262 01
3	32.311	2.01	56176 01
4	20.091	3.41	34931 01

TOT 003 1158

TOTAL 100. 173861

CHANNEL A INJECT 11/11/87 10:03:09

AZ 1



GCL 11/11/87 10:03:09 CH= "A" PS= 1.

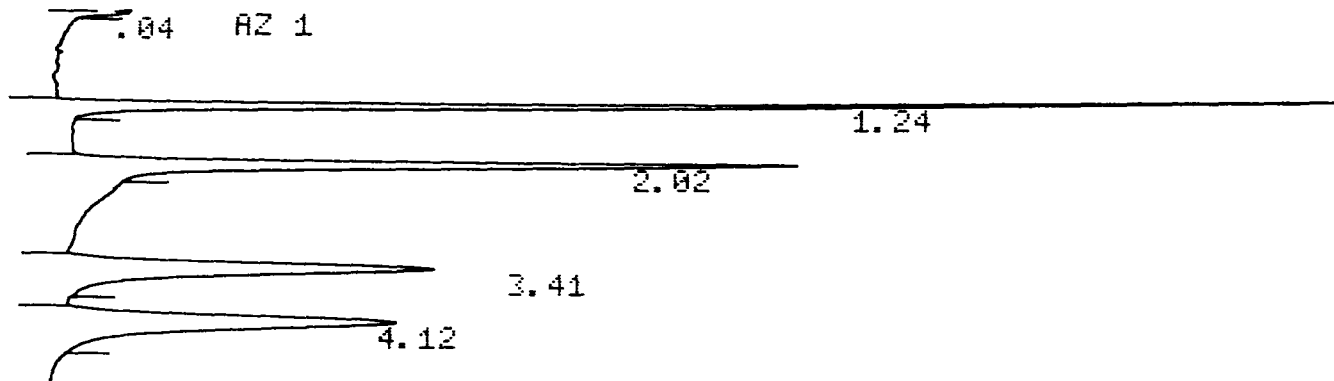
FILE 1. METHOD 0. RUN 9 INDEX 9

PEAK#	AREA%	RT	AREA BC
1	26.759	1.24	44482 01
2	24.794	2.02	41215 01
3	21.885	3.4	36380 01
4	26.561	4.1	44153 01

TOTAL 100. 166230

CHANNEL A INJECT 11/11/87 10:08:58

.04 AZ 1



GCL 11/11/87 10:08:58 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 10 INDEX 10

PEAK#	AREA%	RT	AREA BC
1	0.807	0.04	1556 01
2	27.184	1.24	52410 01
3	24.962	2.02	48127 01
4	22.577	3.41	43529 01
5	24.47	4.12	47177 01

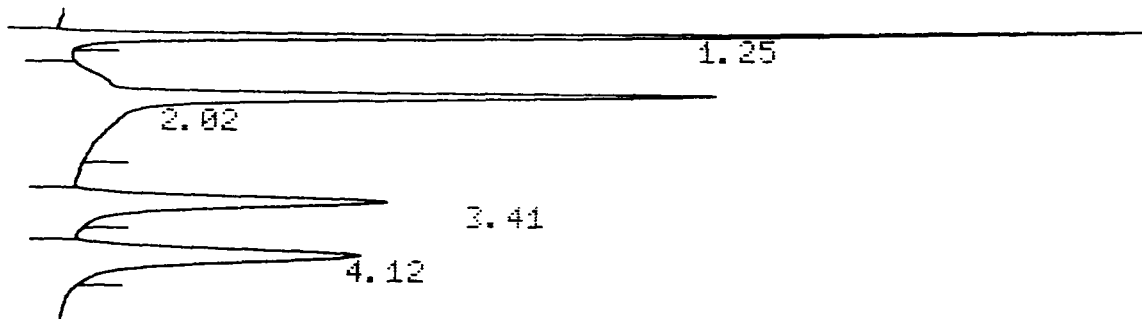
TOTAL 100. 192799

CHANNEL A INJECT 11/11/87 10:15:07

AZ 1

TOT 003 1159

6d 5H.



GCL 11/11/87 10:15:07 CH= "A" PS= 1.

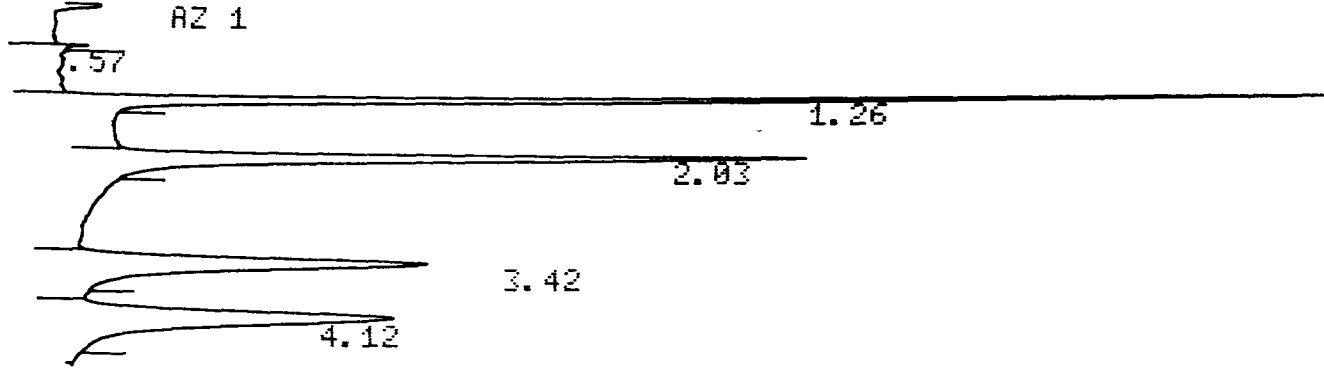
FILE 1. METHOD 0. RUN 11 INDEX 11

PEAK#	AREA%	RT	AREA BC
1	0.155	0.56	285 01
2	23.408	1.25	43161 01
3	34.878	2.02	64308 01
4	19.668	3.41	36264 01
5	21.892	4.12	40364 01

TOTAL 100. 184382

56 SH

CHANNEL A INJECT 11/11/87 10:21:32
AZ 1



GCL 11/11/87 10:21:32 CH= "A" PS= 1.

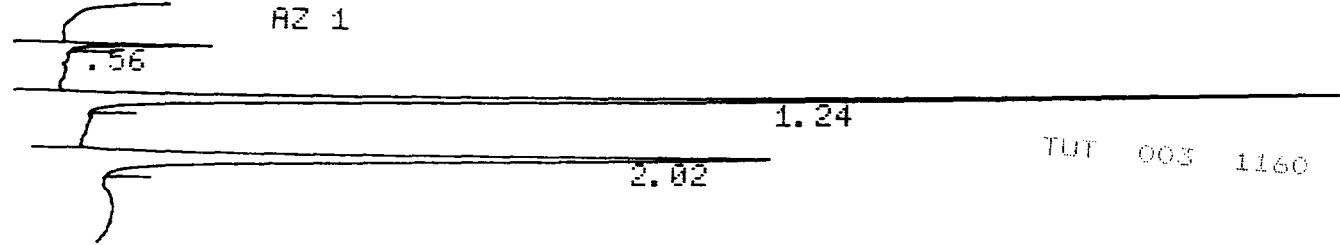
FILE 1. METHOD 0. RUN 12 INDEX 12

PEAK#	AREA%	RT	AREA BC
1	0.264	0.57	494 01
2	26.894	1.26	50306 01
3	26.179	2.03	48968 01
4	22.023	3.42	41195 01
5	24.64	4.12	46090 01

TOTAL 100. 187053

56 SH

1158
CHANNEL A INJECT 11/11/87 10:27:02
AZ 1



4.12

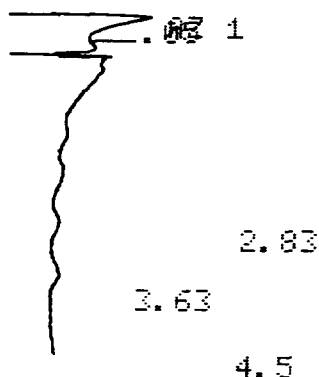
GCL 11/11/87 10:27:02 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 13 INDEX 13

PEAK#	AREA%	RT	AREA BC
1	1.472	0.56	2748 01
2	27.281	1.24	50919 01
3	24.943	2.02	46556 01
4	21.797	3.41	40684 01
5	24.507	4.12	45741 01
TOTAL	100.		186648

M. Blank
100%

CHANNEL A INJECT 11/11/87 10:34:42



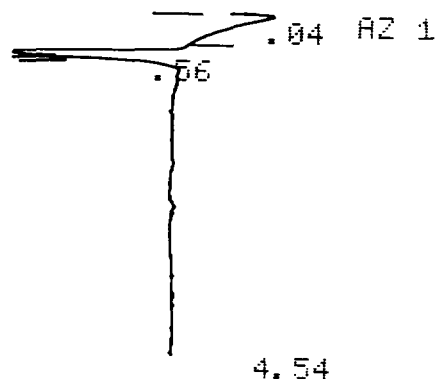
GCL 11/11/87 10:34:42 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 14 INDEX 14

PEAK#	AREA%	RT	AREA BC
1	100.	0.05	8959 01
TOTAL	100.		8959

Am. Sample
100%

CHANNEL A INJECT 11/11/87 10:42:27



GCL 11/11/87 10:42:27 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 15 INDEX 15

PEAK#	AREA%	RT	AREA BC
1	85.47	0.04	9000 01

TUT 003 1161

Blank

TOTAL 100.

10530

54' 10"

CHANNEL A INJECT 11/11/87 10:47:52
 AZ 1
 .54 .60

*Late hit on
run button*

*System Blank
100%*

CHANNEL A INJECT 11/11/87 10:49:20
 .05 AZ 1
 .57

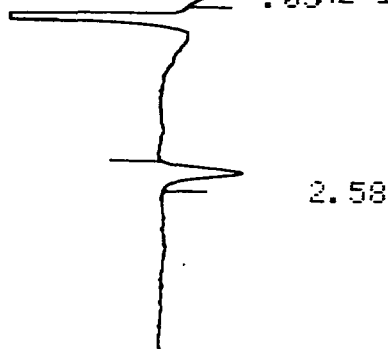
GCL 11/11/87 10:49:20 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 16 INDEX 16

PEAK#	AREA%	RT	AREA BC
1	95.142	0.05	64788 02
2	4.858	0.57	3308 03
TOTAL	100.		68096

*2.58
100%*

10:54:53
 CHANNEL A INJECT 11/11/87 10:55:44
 .05 AZ 1



GCL 11/11/87 10:55:44 CH= "A" PS= 1.

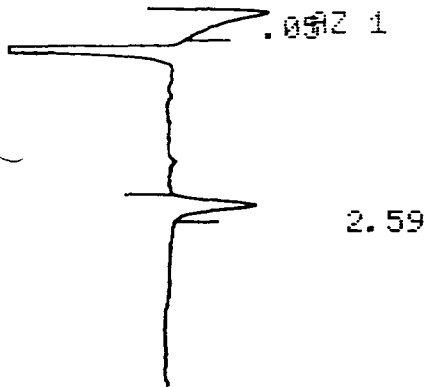
FILE 1. METHOD 0. RUN 17 INDEX 17

PEAK#	AREA%	RT	AREA BC
1	52.193	0.05	8817 01
2	47.807	2.58	8076 01
TOTAL	100.		16893

TUT 003 1162

*2.58
100%*

CHANNEL A INJECT 11/11/87 11:03:37



GCL 11/11/87 11:03:37 CH= "A" PS= 1.

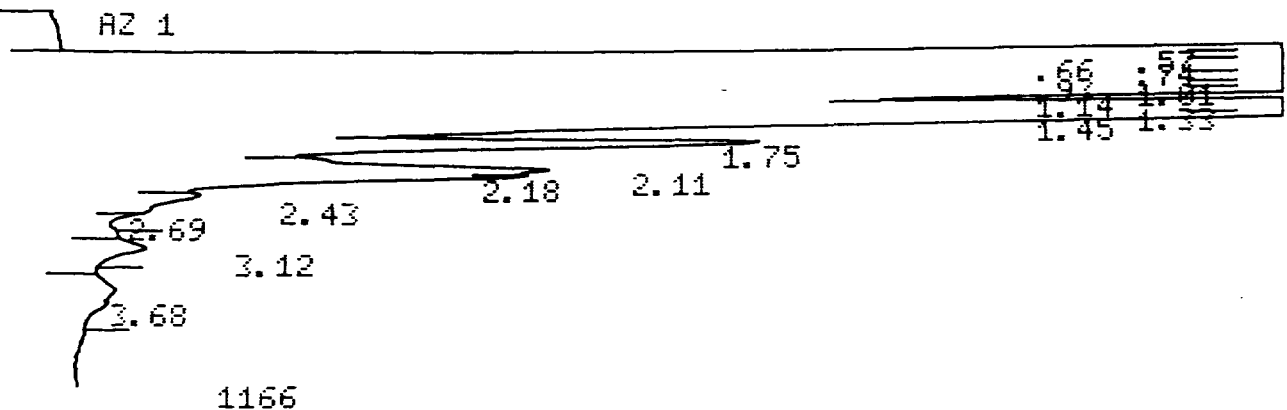
FILE 1. METHOD 0. RUN 18 INDEX 18

PEAK#	AREA%	RT	AREA BC
1	52.579	0.05	8869 01
2	47.421	2.59	7999 01

TOTAL 100. 16868

11:37:15

CHANNEL A INJECT 11/11/87 11:38:13



GCL 11/11/87 11:38:13 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 19 INDEX 19

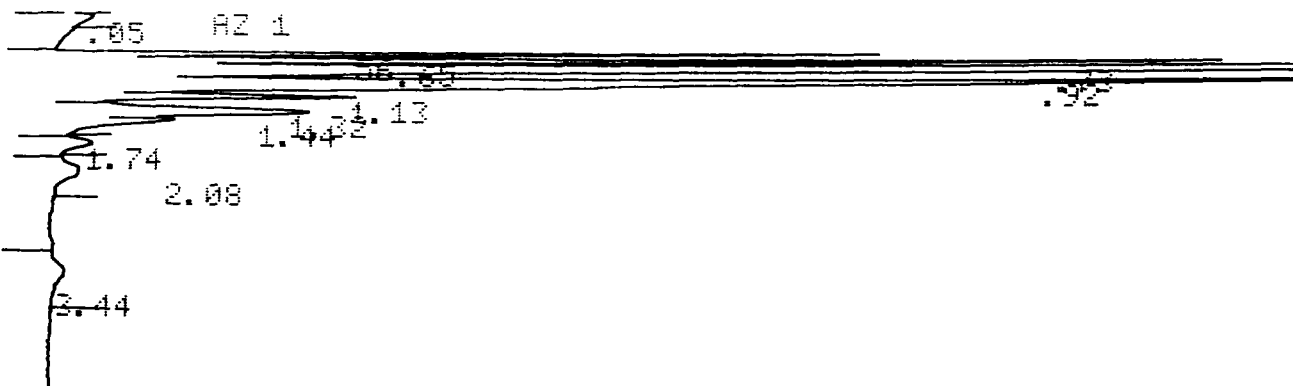
PEAK#	AREA%	RT	AREA BC
1	5.81	0.57	329758 02
2	9.504	0.66	539375 02
3	45.622	0.74	2589234 02
4	19.314	0.93	1096157 02
5	4.317	1.01	245006 02
6	3.919	1.14	222396 02
7	5.56	1.33	315575 02
8	2.726	1.45	154719 02
9	1.318	1.75	74794 02
10	0.872	2.11	49506 02
11	0.65	2.18	36877 02
12	0.22	2.43	12503 02
13	0.011	2.69	642 03
14	0.066	3.12	3773 01
15	0.09	3.68	5124 01

TOT 003 1163

1
9.13

56 4

CHANNEL A INJECT 11/11/87 11:45:32



GCL 11/11/87 11:45:32 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 20 INDEX 20

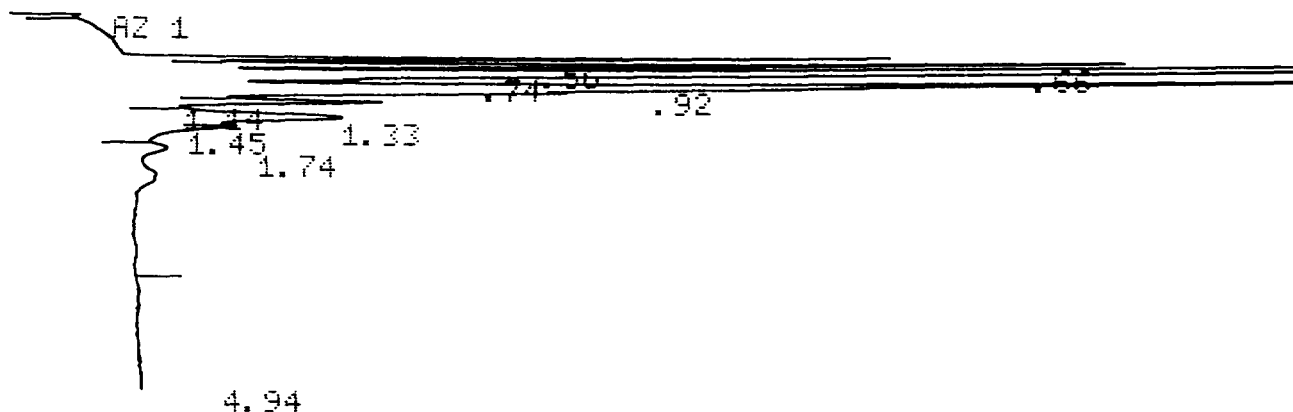
PEAK#	AREA%	RT	AREA	BC
1	0.628	0.05	2313	01
2	5.209	0.56	19194	02
3	9.793	0.65	36083	02
4	46.926	0.73	172899	02
5	24.416	0.92	89961	02
6	3.772	1.13	13898	02
7	5.35	1.32	19713	02
8	1.959	1.44	7218	03
9	0.58	1.74	2136	01
10	0.767	2.08	2827	01
11	0.6	3.44	2212	01

TOTAL 100. 368454

346947
1/200

56-201-51
42 1/10

CHANNEL A INJECT 11/11/87 11:51:25



GCL 11/11/87 11:51:25 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 21 INDEX 21

PEAK#	AREA%	RT	AREA	BC
1	7.512	0.56	26006	02
2	8.485	0.66	29375	02
3	39.639	0.74	137229	02
4	22.404	0.92	77561	02
5	1.507	1.13	15071	02

TUT 003 1164

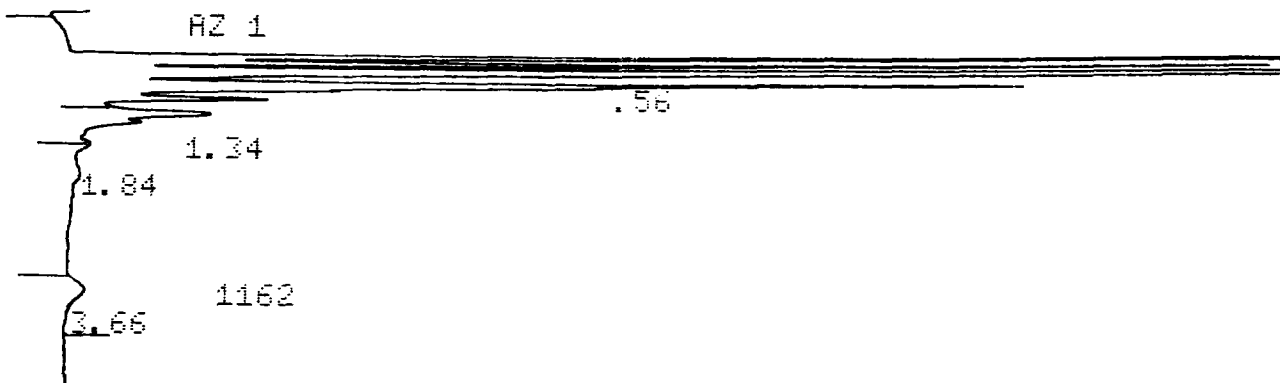
7	4.604	1.45	12476	02
8	7.154	1.74	24766	03

3201, 8200

TOTAL 100. 346200

56-2-02-35'
0.58 1/30

12:19:22
CHANNEL A INJECT 11/11/87 12:21:39
AZ 1



GCL 11/11/87 12:21:39 CH= "A" PS= 1.

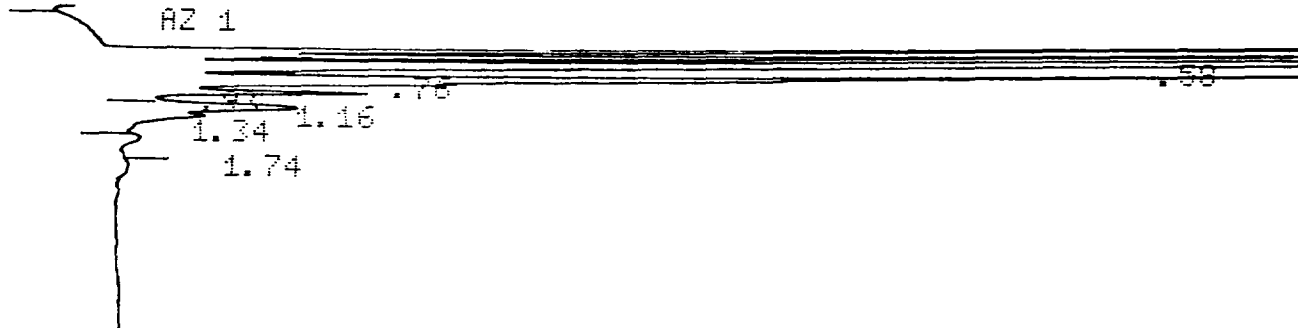
FILE 1. METHOD 0. RUN 22 INDEX 22

PEAK#	AREAX	RT	AREA	BC
1	85.561	0.56	241983	02
2	7.612	1.34	21529	02
3	5.183	1.84	14659	02
4	1.643	3.66	4648	03

TOTAL 100. 282819

56-2-02-35'
0.58 1/30

CHANNEL A INJECT 11/11/87 12:27:57
AZ 1



GCL 11/11/87 12:27:57 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 23 INDEX 23

PEAK#	AREAX	RT	AREA	BC
1	26.555	0.58	86996	02
2	40.532	0.76	132783	02
3	22.496	0.93	73697	02
4	2.462	1.16	8064	02
5	7.282	1.34	23855	02
6	0.673	1.74	2206	03

TOTAL 100. 222504

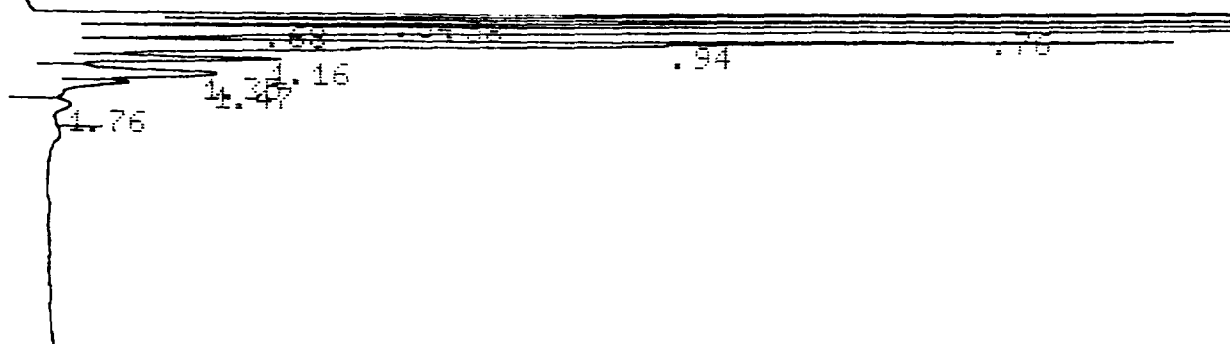
TOT 003 1165

1.5

PT EVAL:
PT= 56.
PT=50

56.2
0.50

CHANNEL A INJECT 11/11/87 12:33:51
AZ 1



GCL 11/11/87 12:33:51 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 24 INDEX 24

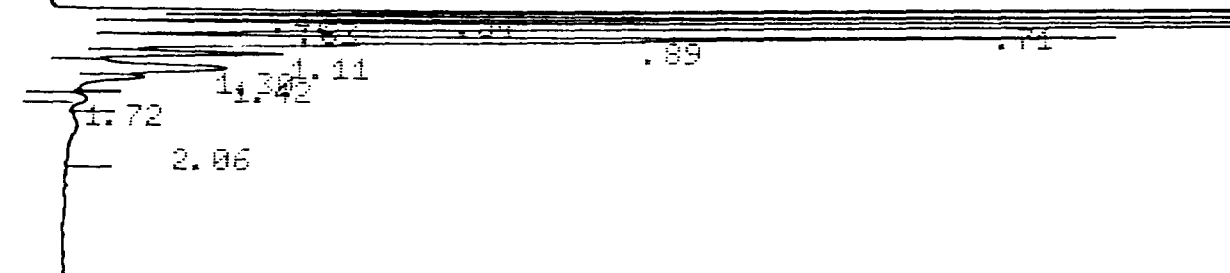
PEAK#	AREAZ	RT	AREA BC
1	2.143	0.54	6527 02
2	17.238	0.58	52506 02
3	11.873	0.68	36165 02
4	35.933	0.76	109453 02
5	20.174	0.94	61449 02
6	4.102	1.16	12496 02
7	5.288	1.35	16107 02
8	2.418	1.47	7365 02
9	0.831	1.76	2532 03

TOTAL 100. 304600

298073

50-2-02-3.5
0.52 1/10

CHANNEL A INJECT 11/11/87 12:39:38
AZ 1



GCL 11/11/87 12:39:38 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 25 INDEX 25

PEAK#	AREAZ	RT	AREA BC
1	1.925	0.47	5281 02
2	17.049	0.54	46763 02
3	12.04	0.63	33023 02
4	45.07	0.71	123621 08
5	16.182	0.89	44385 08

TUT 003 1166

7	1.41	1.4	9354	06
8	1.12	1.42	3072	07
9	0.381	1.72	1046	01
10	0.627	2.06	1720	01

2690

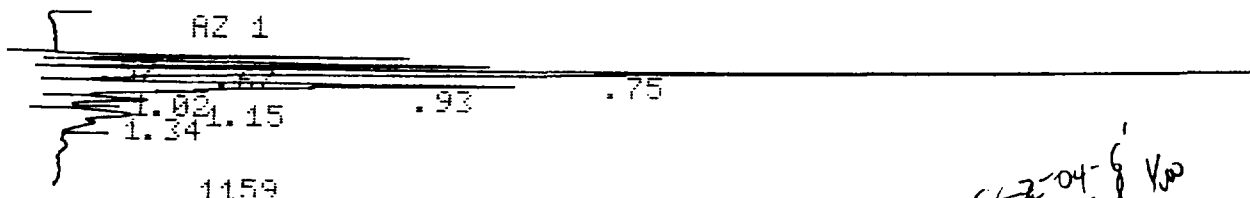
TOTAL 100. 274286

13:38:43
PT EVAL:
PT= 142.
PT=100

14:09:59

CHANNEL A INJECT 11/11/87 14:13:02

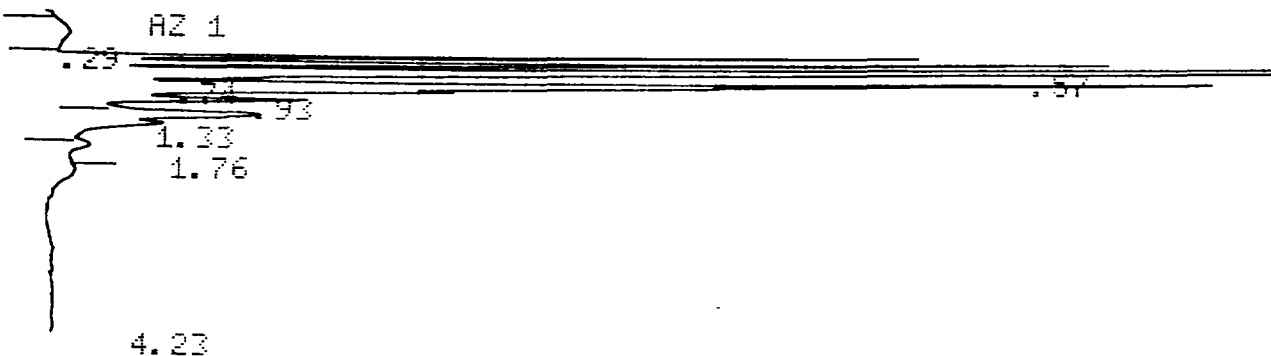
AZ 1



1159

CHANNEL A INJECT 11/11/87 14:15:56

AZ 1



GCL 11/11/87 14:15:56 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 26 INDEX 26

PEAK#	AREA%	RT	AREA	BC
1	0.991	0.29	2414	02
2	10.877	0.57	26509	02
3	47.577	0.74	115947	02
4	30.632	0.93	74651	02
5	9.31	1.33	22688	02
6	0.614	1.76	1497	03

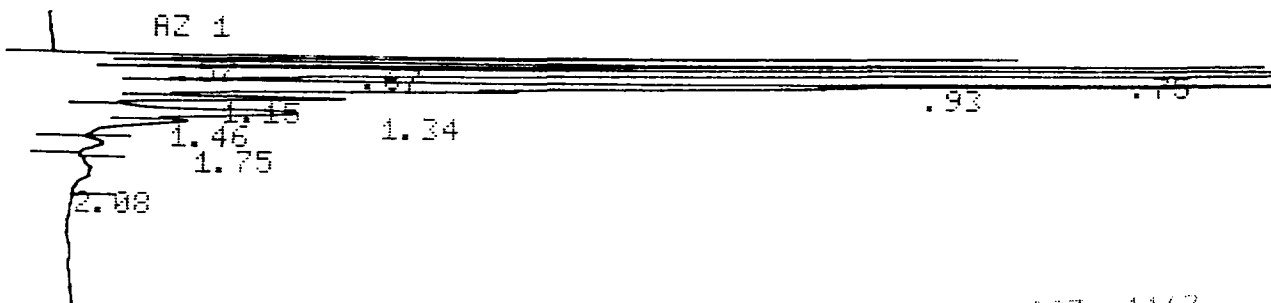
TOTAL 100. 243706

214783
1000

56-2-04-6
1/100

CHANNEL A INJECT 11/11/87 14:20:49

AZ 1



TUT 003 1167

GCL 11/11/87 14:20:49 CH= "A" PS= 1.

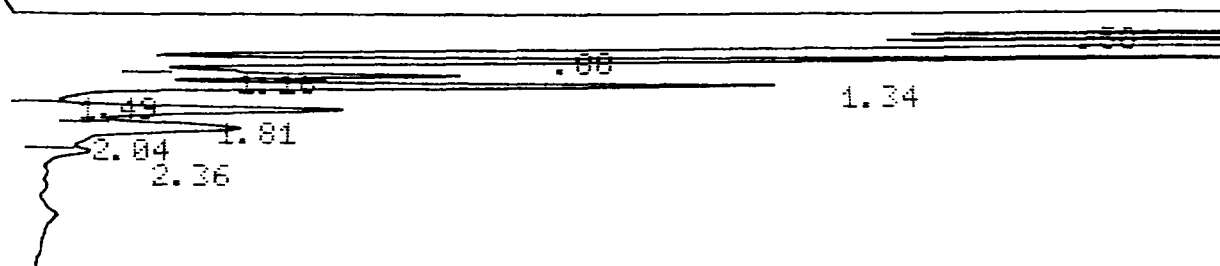
PEAK#	AREA%	RT	AREA	BC
1	5.981	0.57	16602	02
2	11.231	0.67	31174	02
3	42.129	0.75	116933	02
4	25.773	0.93	71534	02
5	4.426	1.15	12286	02
6	6.458	1.34	17924	02
7	2.665	1.46	7397	03
8	0.496	1.75	1376	01
9	0.841	2.08	2333	01

TOTAL 100. 277559

260257
13000

56-205-5
508

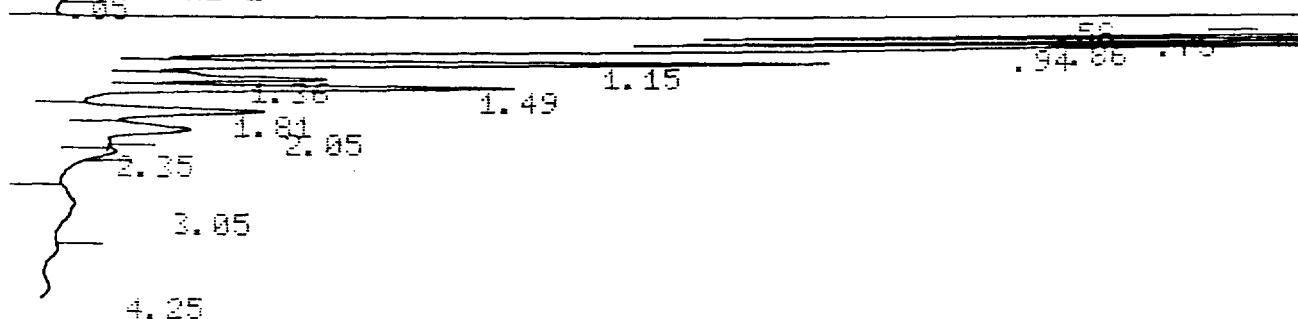
14:57:51
CHANNEL A INJECT 11/11/87 14:59:03
AZ 1



PT EVAL:
PT= 55873.
1162 1162PT

FAULT 10
PT=50
1163
CHANNEL A INJECT 11/11/87 15:07:51
AZ 1

56-205-5
204 1/2



GCL 11/11/87 15:07:51 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 28 INDEX 28

PEAK#	AREA%	RT	AREA	BC
1	0.039	0.05	2528	01
2	93.846	0.58	6078597	02
3	2.116	0.75	137080	02
4	1.177	0.86	76210	02
5	1.228	0.94	79510	02
6	0.572	1.15	37078	02
7	0.258	1.36	16696	02
8	0.368	1.49	23854	08
9	0.19	1.81	12280	06
10	0.122	2.05	8576	07

TUT 003 1168

TOTAL

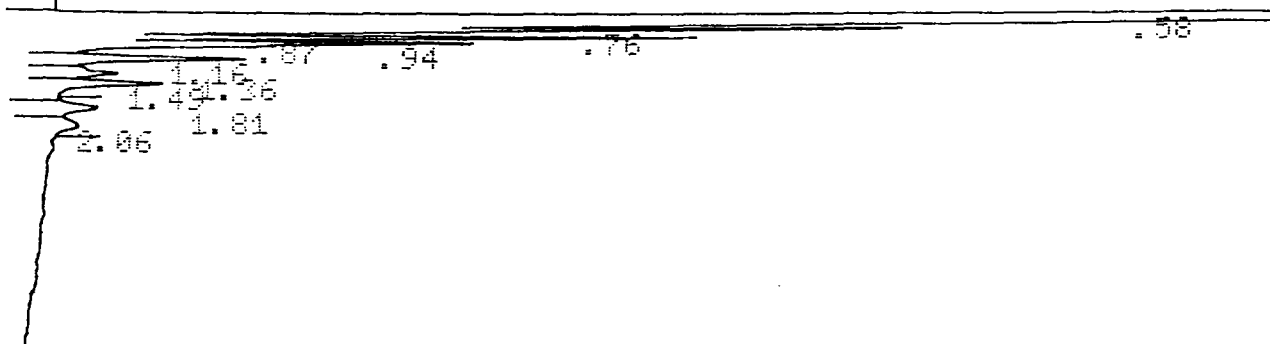
100.

6477190

56-2-05
5/2 1'

CHANNEL A INJECT 11/11/87 15:13:05

AZ 1



GCL 11/11/87 15:13:05 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 29 INDEX 29

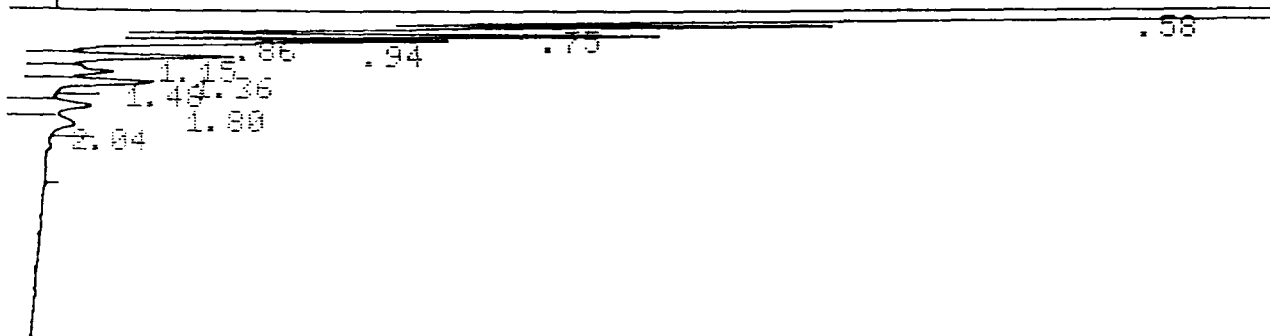
PEAK#	AREA%	RT	AREA	BC
1	95.382	0.58	1982043	02
2	1.546	0.76	30839	02
3	0.914	0.87	18227	02
4	0.969	0.94	19325	02
5	0.452	1.16	9005	02
6	0.204	1.36	4075	02
7	0.288	1.49	5750	03
8	0.136	1.81	2710	02
9	0.109	2.06	2166	03

TOTAL 100. 1994140

92097
89066-2-05-5
5/2 1/2

CHANNEL A INJECT 11/11/87 15:19:00

AZ 1



GCL 11/11/87 15:19:00 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 30 INDEX 30

PEAK#	AREA%	RT	AREA	BC
1	95.351	0.58	1736890	02
2	1.521	0.75	27712	02
3	0.93	0.86	16946	02
4	0.979	0.94	17840	02
5	0.452	1.15	9005	02

TUT 003 1169

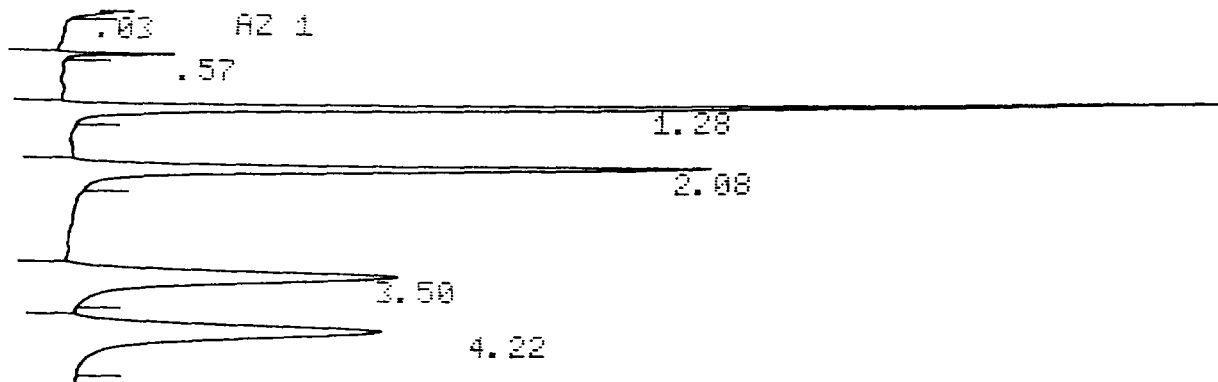
7	0.296	1.48	5391	03
8	0.136	1.8	2480	02
9	0.113	2.04	2060	03

63 820

64 541

TOTAL 100. 1821577

CHANNEL A INJECT 11/11/87 15:26:28



GCL 11/11/87 15:26:28 CH= "A" PS= 1.

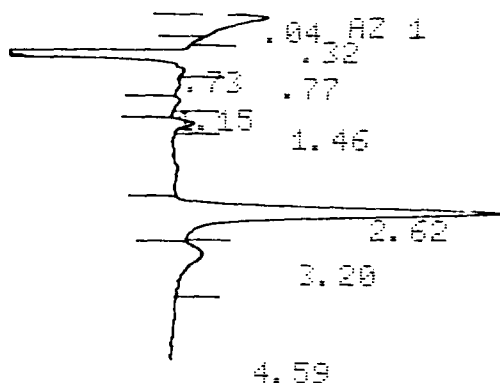
FILE 1. METHOD 0. RUN 31 INDEX 31

PEAK#	AREA%	RT	AREA	BC
1	0.582	0.03	1050	01
2	1.151	0.57	2076	01
3	26.234	1.28	47298	01
4	24.545	2.08	44254	01
5	22.309	3.5	40222	01
6	25.179	4.22	45396	01

TOTAL 100. 180296

66-8-08-6
1000

16:07:21
CHANNEL A INJECT 11/11/87 16:11:14



GCL 11/11/87 16:11:14 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 32 INDEX 32

PEAK#	AREA%	RT	AREA	BC
1	13.018	0.04	7825	02
2	0.812	0.32	488	03
3	16.298	0.73	9797	02
4	6.779	0.77	4075	03
5	0.552	1.15	332	01
6	2.226	1.46	1378	01

TUT 003 1170

8 5.15 3.2 3096 01

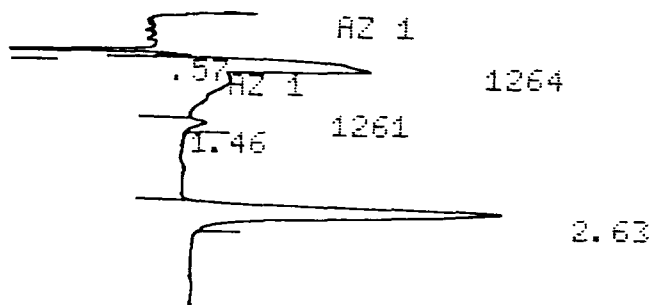
TOTAL 100. 60111

PT EVAL:

PT= 227.

PT=150

CHANNEL A INJECT 11/11/87 16:17:35



GCL 11/11/87 16:17:35 CH= "A" PS= 1.

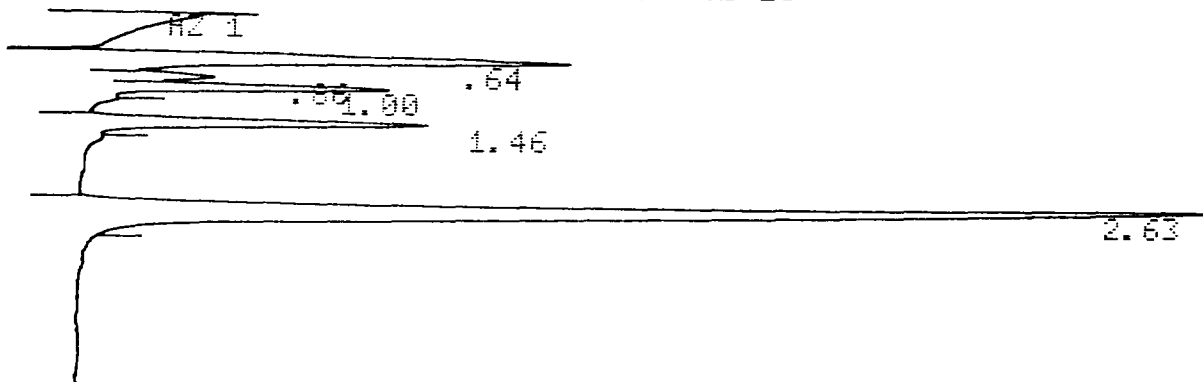
FILE 1. METHOD 0. RUN 33 INDEX 33

PEAK#	AREA%	RT	AREA BC
1	6.6	0.57	2292 03
2	3.216	1.46	1117 01
3	90.184	2.63	31319 01

TOTAL 100. 34728

16:40:17

CHANNEL A INJECT 11/11/87 16:41:18



GCL 11/11/87 16:41:18 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 34 INDEX 34

PEAK#	AREA%	RT	AREA BC
1	21.817	0.64	46647 02
2	4.166	0.86	8907 02
3	8.573	1.	18331 03
4	10.532	1.46	22519 01
5	54.912	2.63	117408 01

TOTAL 100. 213812

CHANNEL A INJECT 11/11/87 16:47:01

56-F-08-6
1000L

56-F-07-35
1000L

TOT 003 1171

56-F-01
1000L

GCL 11/11/87 16:47:01 CH= "R" PS= 1.

FILE 1. METHOD 0. RUN 35 INDEX 35

PEAK#	AREA%	RT	AREA	BC
1	21.755	0.63	46353	02
2	4.183	0.86	8912	02
3	8.34	0.99	17769	03
4	11.279	1.46	24032	01
5	54.443	2.62	116000	01

TOTAL 100. 213066

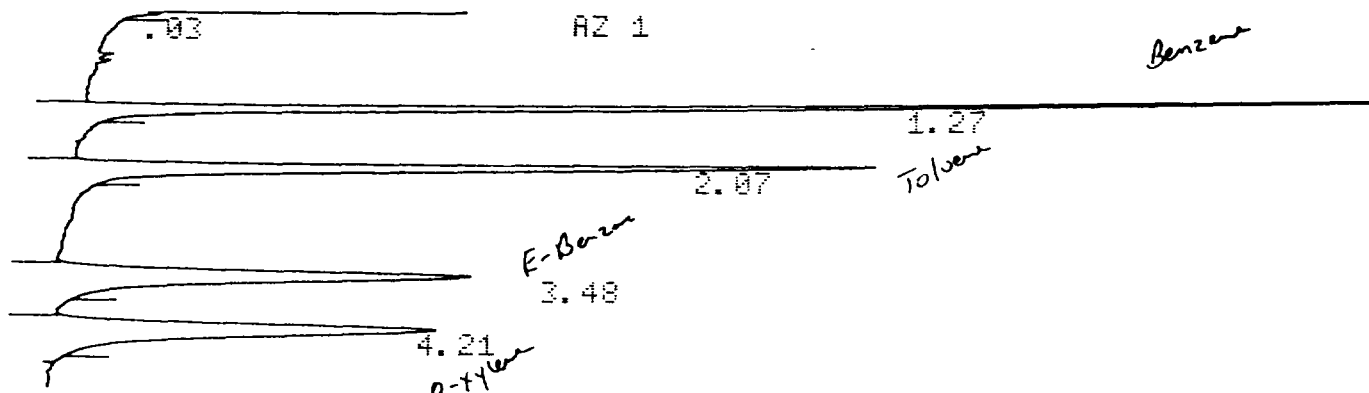
READY
 DATE " 11/12/87
 TIME " 0800
 READY
 DATE " 11/12/87
 TIME " 08:00
 FI= 1. FE= 1. MN= 0.
 PRESS 'ENTER' TO SKIP ENTRY
 FILE NAME=" GCL
 TIME FUNCTION VALUE
 TT= .01 TF=" AZ TV= 1
 TT= .01 TF=" PM TV= 1
 TT= 5.0 TF=" ER TV= 1
 TT=

FID
 OV-101 6' 1/8"
 N₂ - 30 ml/min - 50 psi
 H₂ - 30 ml/min - 40 psi
 Air - 300 ml/min - 60 psi
 80°C Iso
 det. - 250°C
 Inj - 200°C
 Voltage - 16 mV
 M. Kelly

METHOD NUMBER:MN=

END OF DIALOG
 AT= 8
 PT=100
 OF=15
 PT EVAL:
 PT= 154.

CHANNEL A INJECT 11/12/87 08:02:55



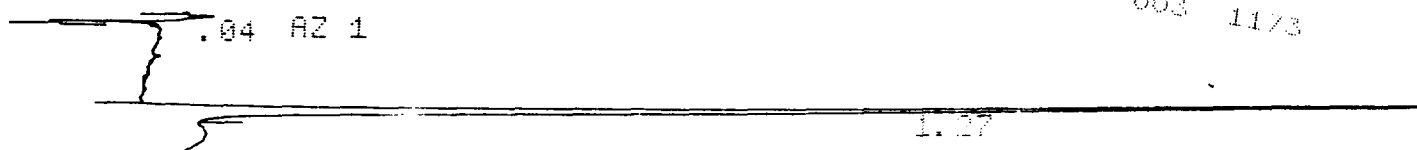
GCL 11/12/87 08:02:55 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 1 INDEX 1

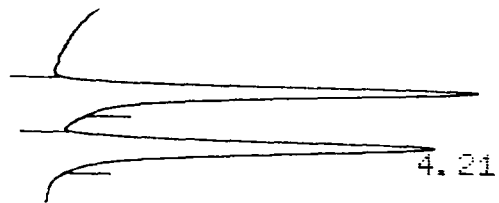
PEAK#	AREA%	RT	AREA BC
1	0.45	0.03	928 01
2	27.853	1.27	57381 01
3	25.159	2.07	51831 01
4	22.006	3.48	45336 01
5	24.532	4.21	50541 01

TOTAL 100. 206017

CHANNEL A INJECT 11/12/87 08:08:40



TUT 003 11/3



3.49

4.21

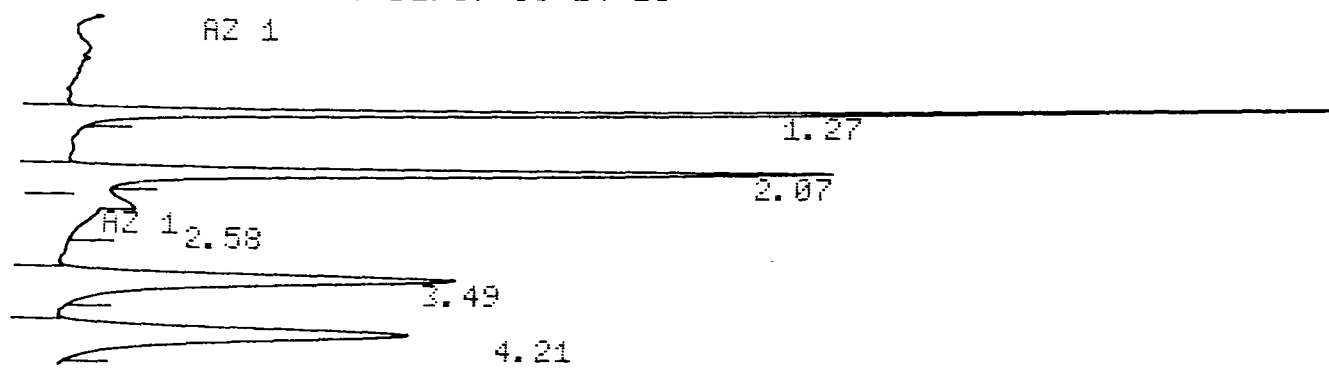
GCL 11/12/87 08:08:40 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 2 INDEX 2

PEAK#	AREA%	RT	AREA BC
1	2.453	0.04	5153 03
2	26.289	1.27	55226 01
3	24.998	2.07	52513 01
4	22.571	3.49	47415 01
5	23.688	4.21	49762 01
TOTAL	100.		210069

5th 5th 0th

CHANNEL A INJECT 11/12/87 08:14:28
AZ 1



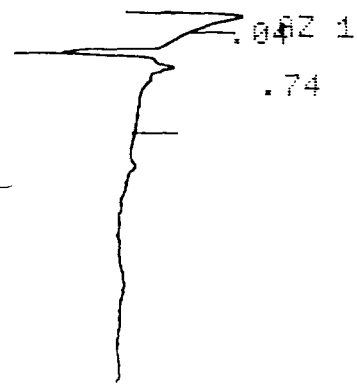
GCL 11/12/87 08:14:28 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 3 INDEX 3

PEAK#	AREA%	RT	AREA BC
1	26.917	1.27	55018 01
2	24.422	2.07	49920 01
3	2.679	2.58	5475 01
4	22.403	3.49	45792 01
5	23.58	4.21	48197 01
TOTAL	100.		204402

N2 Blank 100%

CHANNEL A INJECT 11/12/87 08:24:42



0.04

0.74

GCL

11/12/87 08:24:42

CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 4 INDEX 4

PEAK#	AREA%	RT	AREA	BC
1	16.999	0.04	6042	01
2	83.001	0.74	29501	01
TOTAL	100.		35543	

*At Sup 1000*08:32:07
CHANNEL A INJECT 11/12/87 08:32:57

.05 AZ 1

.56

GCL

11/12/87 08:32:57

CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 5 INDEX 5

PEAK#	AREA%	RT	AREA	BC
1	75.177	0.05	7020	01
2	24.823	0.56	2318	03
TOTAL	100.		9338	

*646 ten Blank
need*

CHANNEL A INJECT 11/12/87 08:39:03

.06 AZ 1

.56

GCL

11/12/87 08:39:03

CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 6 INDEX 6

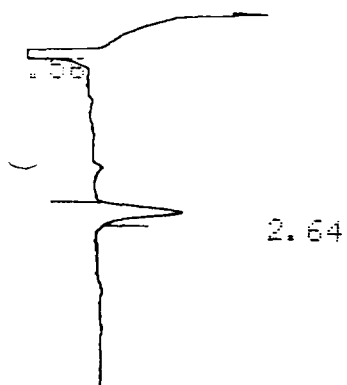
PEAK#	AREA%	RT	AREA	BC
1	74.211	0.06	6541	01
2	25.789	0.56	2273	03
TOTAL	100.		8814	

TUT 003 1170

DNPT 1000

08:50:23
CHANNEL A

INJECT 11/12/87 08:50:23
AZ 1



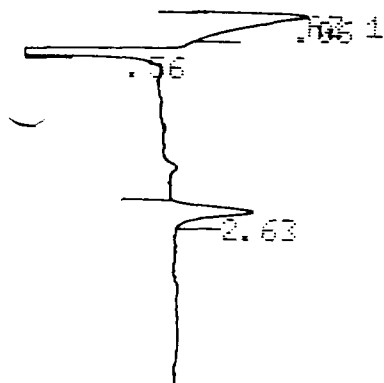
GCL 11/12/87 08:50:23 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 7 INDEX 7

PEAK#	AREA%	RT	AREA BC
1	6.248	0.56	495 03
2	93.752	2.64	7427 01
TOTAL	100.		7922

*Dr A#6-2'
1000*

CHANNEL A INJECT 11/12/87 08:57:40



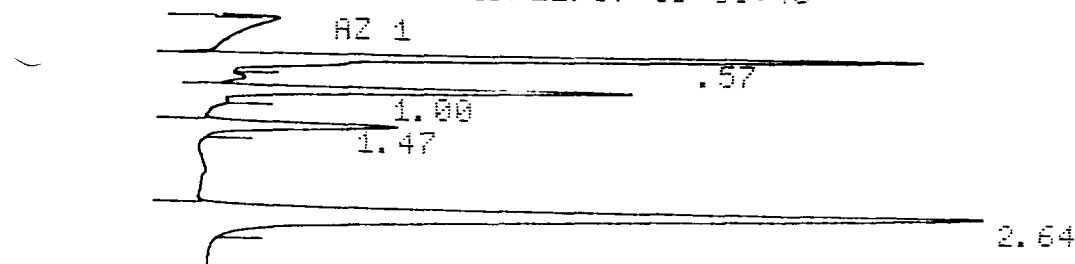
GCL 11/12/87 08:57:40 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 8 INDEX 8

PEAK#	AREA%	RT	AREA BC
1	60.993	0.06	12867 01
2	1.408	0.56	297 03
3	37.6	2.63	7932 01
TOTAL	100.		21096

*SG-F-09-2'
1000*

09:55:20
CHANNEL A INJECT 11/12/87 09:56:46
AZ 1



TUT 003 1176

GCL

11/12/87 09:56:46

CH= "A" PS= 1.

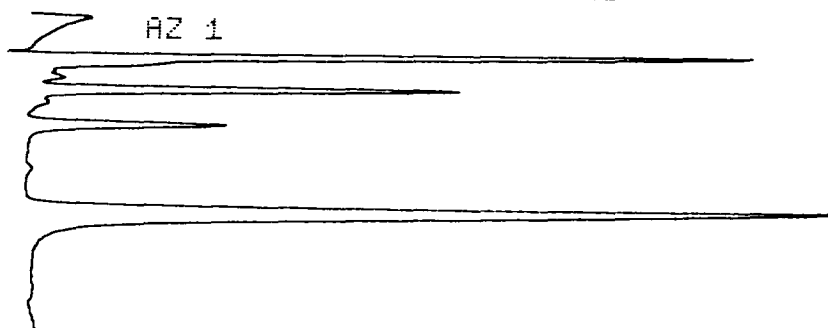
FILE 1. METHOD 0. RUN 9 INDEX 9

PEAK#	AREA%	RT	AREA	BC
1	26.186	0.57	38886	01
2	13.748	1.	20416	01
3	8.091	1.47	12015	01
4	51.974	2.64	77181	01

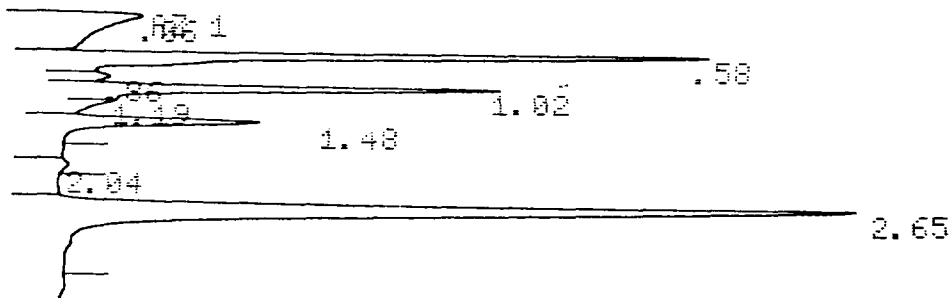
TOTAL 100. 148498

PT EVAL:
PT= 17012.56-F-09-2'
1002

CHANNEL A INJECT 11/12/87 10:05:42

PT EVAL:
PT= 50765.
1162PT=2556-F-09-2'
1002

CHANNEL A INJECT 11/12/87 10:11:50



GCL

11/12/87 10:11:50

CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 10 INDEX 10

PEAK#	AREA%	RT	AREA	BC
1	7.875	0.96	15311	02
2	21.672	0.58	42135	02
3	2.059	0.96	4003	02
4	15.378	1.02	29898	02
5	2.371	1.19	4610	02
6	7.364	1.48	14317	03
7	0.256	2.04	497	01
8	43.025	2.65	83650	01

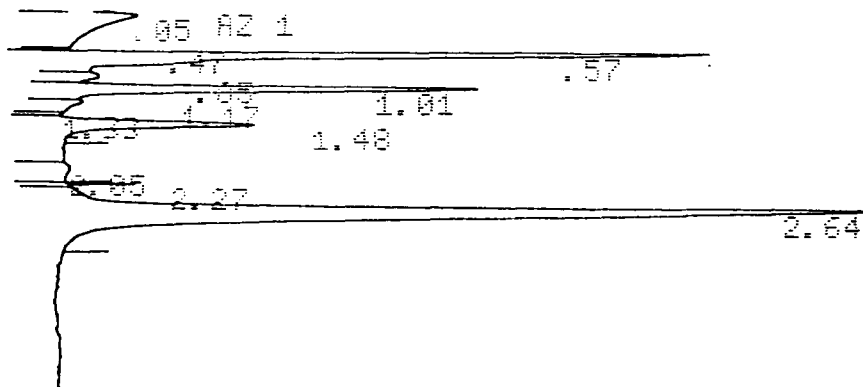
TOTAL 100. 194421

136975

TUT 003 1177

56-F-09
1002

CHANNEL A INJECT 11/12/87 10:16:33



GCL 11/12/87 10:16:33 CH= "A" PS= 1.

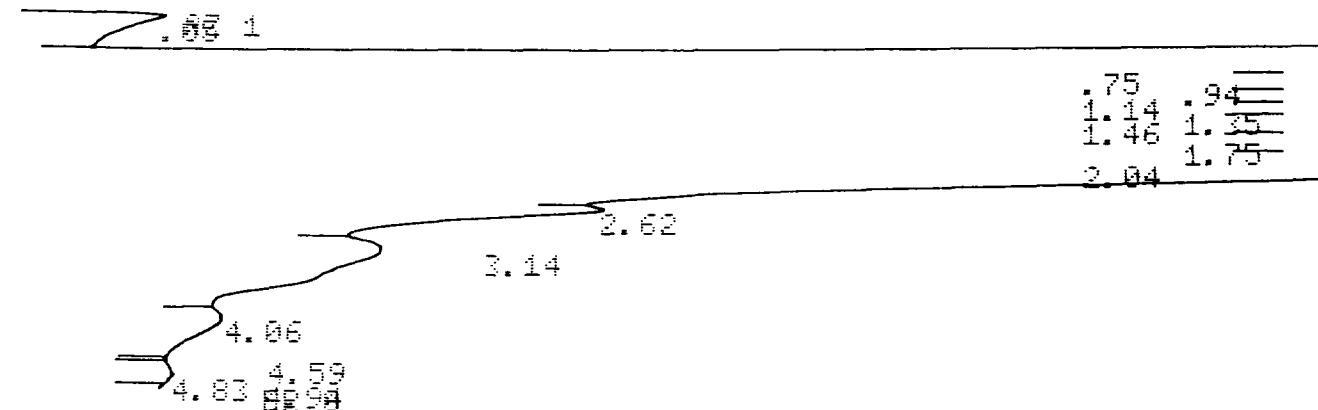
FILE 1. METHOD 0. RUN 11 INDEX 11

PEAK#	AREA%	RT	AREA	BC
1	6.069	0.05	11125	02
2	0.143	0.47	263	02
3	23.41	0.57	42913	08
4	0.41	0.85	751	06
5	13.271	1.01	24328	02
6	0.915	1.17	1678	02
7	0.037	1.33	68	02
8	7.054	1.48	12931	03
9	0.234	2.05	429	01
10	0.22	2.27	404	02
11	48.236	2.64	88423	03
TOTAL	100.		183313	

124012

66-F-10-5.51
10071

10:22:54
CHANNEL A INJECT 11/12/87 10:24:59



GCL 11/12/87 10:24:59 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 12 INDEX 12

PEAK#	AREA%	RT	AREA	BC
1	0.025	0.05	14995	02
2	72.181	0.75	42722440	02
3	17.394	0.94	10295498	02
4	3.233	1.14	1913740	02
5	2.381	1.35	1409395	02
6	2.344	1.46	1387480	02
7	0.005	1.75	100	02

TUT 003 11/8

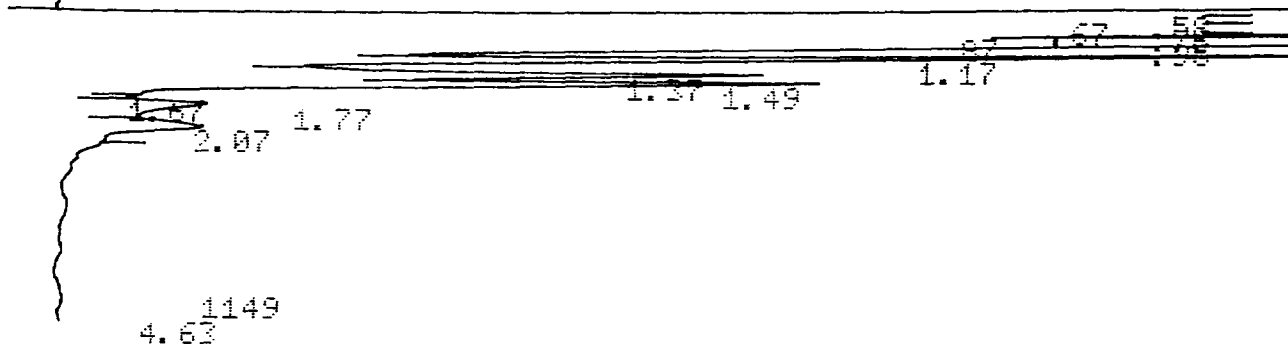
9	0.162	2.62	95906	02
10	0.196	3.14	115873	02
11	0.039	4.06	22935	02
12	0.001	4.59	406	02
13	0.004	4.83	2218	02
14	0.	4.94	88	03

TOTAL 100. 59188307

PT EVAL:
PT= 236.
PT=100

50-F-10-5.5
50h

CHANNEL A INJECT 11/12/87 10:32:31
AZ 1



GCL 11/12/87 10:32:31 CH= "A" PS= 1.

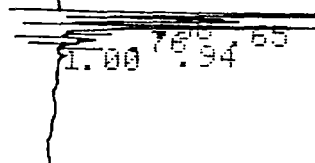
FILE 1. METHOD 0. RUN 13 INDEX 13

PEAK#	AREA%	RT	AREA	BC
1	48.849	0.58	2974971	02
2	19.665	0.67	1197833	02
3	21.65	0.76	1318533	02
4	0.914	0.87	55693	02
5	5.853	0.95	356486	02
6	1.053	1.17	64141	02
7	0.856	1.37	52117	02
8	0.736	1.49	44794	02
9	0.031	1.67	1885	02
10	0.203	1.77	12387	02
11	0.189	2.07	11520	03

TOTAL 100. 6090160

50-F-10-5.5
0.5h 1/100

CHANNEL A INJECT 11/12/87 10:39:24
AZ 1



50-F-10-5.5
4h 1/100

CHANNEL A INJECT 11/12/87 10:42:47
AZ 1

TUT 003 1179

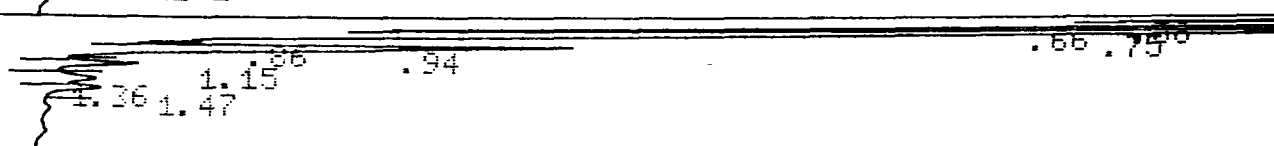
GCL 11/12/87 10:42:47 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 14 INDEX 14

PEAK#	AREAX	RT	AREA	BC
1	49.202	0.58	227877	02
2	19.963	0.66	92456	02
3	24.887	0.75	115265	08
4	0.03	0.86	141	06
5	4.322	0.94	20019	07
6	0.566	1.16	2622	05
7	0.486	1.36	2252	02
8	0.543	1.47	2514	03

TOTAL 100. 463146

CHANNEL A INJECT 11/12/87 10:48:39
AZ 1



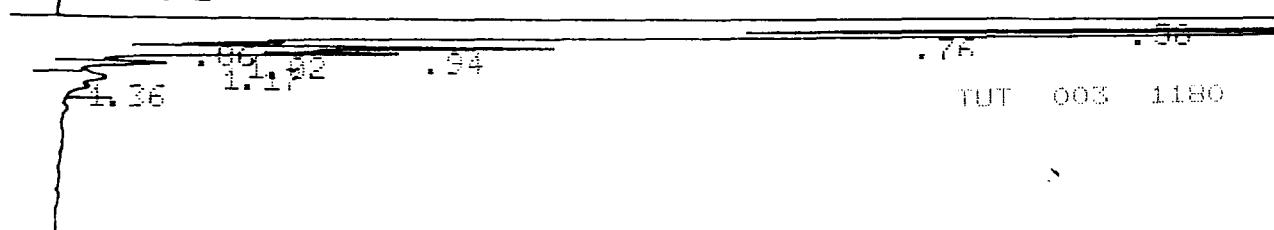
GCL 11/12/87 10:48:39 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 15 INDEX 15

PEAK#	AREAX	RT	AREA	BC
1	48.346	0.58	220647	02
2	20.203	0.66	92205	02
3	25.162	0.75	114838	08
4	0.051	0.86	231	06
5	4.47	0.94	20399	07
6	0.625	1.15	2852	05
7	0.556	1.36	2536	02
8	0.587	1.47	2681	03

TOTAL 100. 456389

10:58:21
CHANNEL A INJECT 11/12/87 10:59:15
AZ 1



TUT 003 1180

4.74

GCL

11/12/87 10:59:15

CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 16 INDEX 16

PEAK#	AREA%	RT	AREA BC
1	94.663	0.58	2635162 02
2	3.619	0.76	100754 02
3	0.186	0.86	5184 02
4	0.671	0.94	18668 02
5	0.496	1.02	13799 02
6	0.256	1.17	7119 08
7	0.11	1.36	3057 05

148581

TOTAL 100. 2783743

50-F-11-4
501

CHANNEL A INJECT 11/12/87 11:05:25

AZ 1

.69

A2

66-F-11-4
501

CHANNEL A INJECT 11/12/87 11:07:37

AZ 1

1.36 1.16 0.94 .76 .58

2.

GCL

11/12/87 11:07:37

CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 17 INDEX 17

PEAK#	AREA%	RT	AREA BC
1	94.527	0.58	2377079 02
2	3.689	0.76	92767 02
3	0.203	0.86	5099 02
4	0.687	0.94	17273 02
5	0.497	1.02	12492 02
6	0.181	1.16	4560 02
7	0.216	1.36	5437 03

137624

TOTAL 100. 2514707

501 501

CHANNEL A INJECT 11/12/87 11:10:46

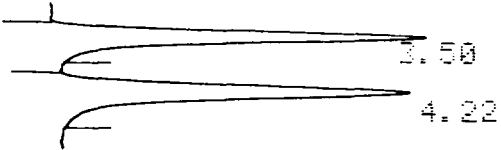
AZ 1

.58.68

TUT 003 1181

1.28

2.08



GCL 11/12/87 11:10:46 CH= "A" PS= 1.

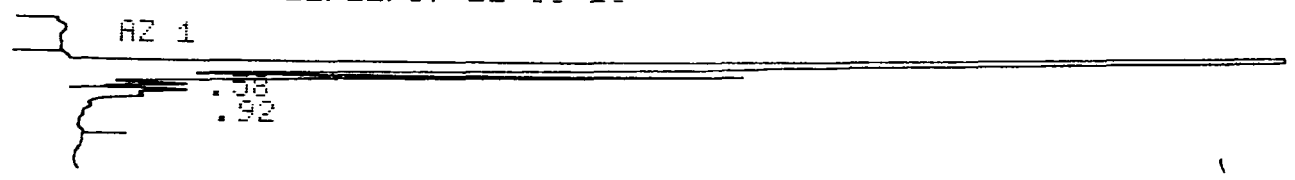
FILE 1. METHOD 0. RUN 18 INDEX 18

PEAK#	AREA%	RT	AREA BC
1	3.059	0.58	6187 02
2	0.199	0.68	403 03
3	26.291	1.28	53181 01
4	24.182	2.08	48915 01
5	21.542	3.5	43576 01
6	24.727	4.22	50018 01

TOTAL 100. 202280

56-F-12-3.5'
502

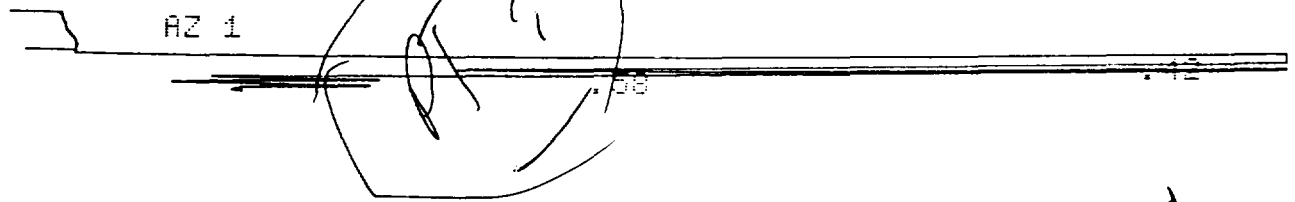
12:04:37
CHANNEL A INJECT 11/12/87 12:06:18



56-F-12-3.5'
1022

=50

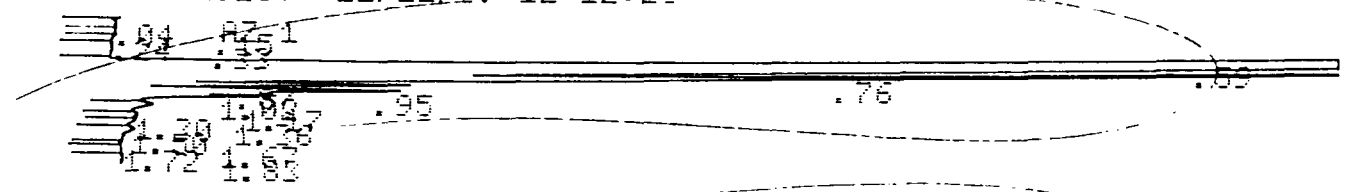
CHANNEL A INJECT 11/12/87 12:09:14
AZ 1



PT EVAL:
PT= 51147.
1166PT=10

56-F-12-3.5'
1002

CHANNEL A INJECT 11/12/87 12:12:28



GCL 11/12/87 12:12:28 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 19 INDEX 19

PEAK#	AREA%	RT	AREA BC
1	0.028	0.04	372 02
2	0.025	0.15	327 02
3	0.013	0.24	178 02
4	0.018	0.33	243 02
5	97.799	0.58	4000772 02

TUT 003 1182

7	0.685	0.87	9088 02
8	0.905	0.95	11997 02
9	0.448	1.02	5938 02
10	0.197	1.17	2616 02
11	0.088	1.3	1169 02
12	0.083	1.36	1101 02
13	0.095	1.5	1262 02
14	0.006	1.67	78 02
15	0.009	1.72	123 02
16	0.006	1.83	81 03

TOTAL 100. 1326042

PT EVAL:
PT= 70.
PT=50

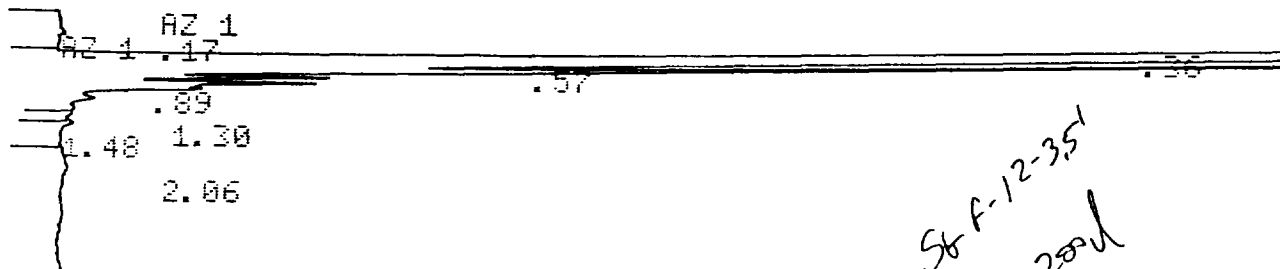
*5.6-f-12-35¹
100h*

CHANNEL A INJECT 11/12/87 12:16:11
AZ 1

.56

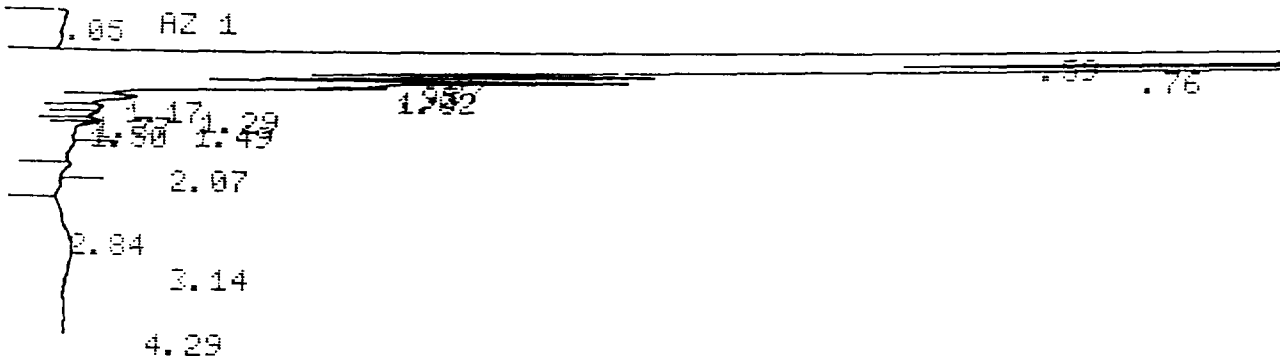
PT=25

CHANNEL A INJECT 11/12/87 12:17:52



*5.6-f-12-35¹
200h*

CHANNEL A INJECT 11/12/87 12:22:03



GCL 11/12/87 12:22:03 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 20 INDEX 20

SAK#	AREA%	RT	AREA BC
1	0.059	0.05	2589 02
2	93.002	0.59	2422579 02
3	4.162	0.76	108416 02
4	0.717	0.87	18674 02
5	0.935	0.95	24358 02
6	0.445	1.02	11594 02

179702

TUT 003 1183

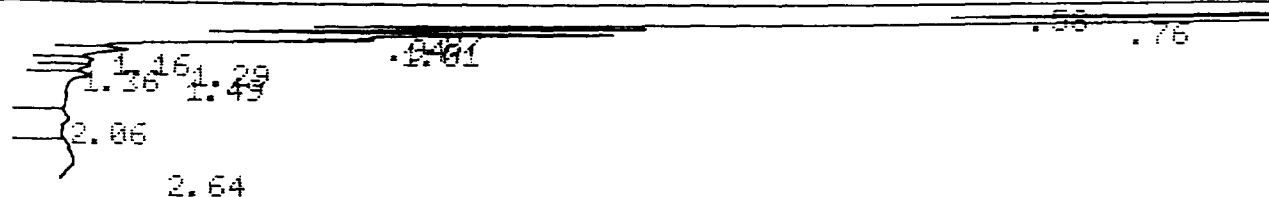
8	0.073	1.29	1890	02
9	0.063	1.37	1638	02
10	0.039	1.49	1003	02
11	0.042	1.5	1106	03
12	0.008	2.07	206	01
13	0.026	2.84	684	02
14	0.21	3.14	5477	03

TOTAL 100. 2604868

66-F-12-251
2001

CHANNEL A INJECT 11/12/87 12:26:51

7.07 AZ 1



GCL 11/12/87 12:26:51 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 21 INDEX 21

PEAK#	AREA%	RT	AREA	BC
1	0.077	0.07	2002	02
2	92.83	0.58	2411815	02
3	4.214	0.76	109490	02
4	0.735	0.87	19100	02
5	0.971	0.94	25222	02
6	0.439	1.01	11412	02
7	0.195	1.16	5066	02
8	0.08	1.29	2078	02
9	0.082	1.36	2138	02
10	0.201	1.49	5212	02
11	0.064	2.06	1671	02
12	0.111	2.64	2883	03

TOTAL 100. 2598089

184272

12:32:44 13:41:57

PT EVAL:

PT= 33.

PT EVAL:

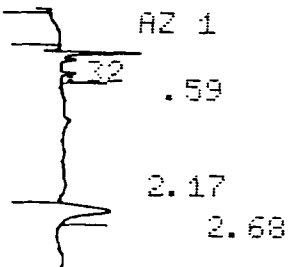
14:21:26PT= 90.

PT=75

66-F-13-551
5001

CHANNEL A INJECT 11/12/87 14:23:06

AZ 1

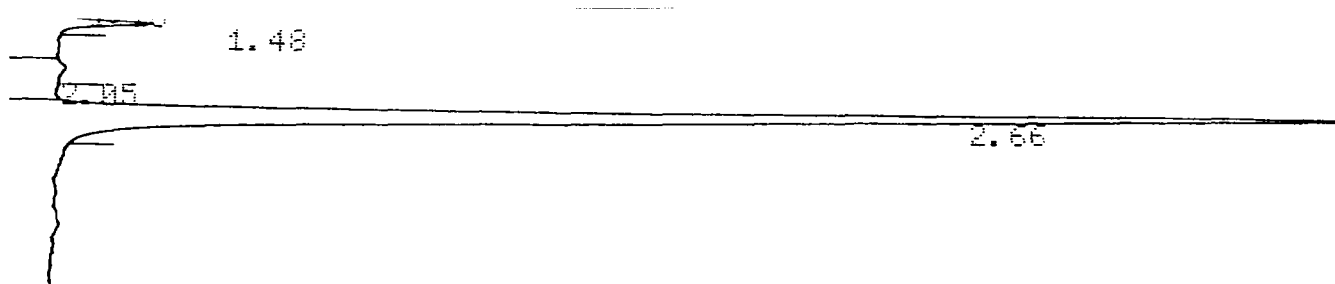


66-F-13-551
10001

CHANNEL A INJECT 11/12/87 14:27:13

7.05 AZ 1

TUT 003 1184



GCL 11/12/87 14:27:13 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 22 INDEX 22

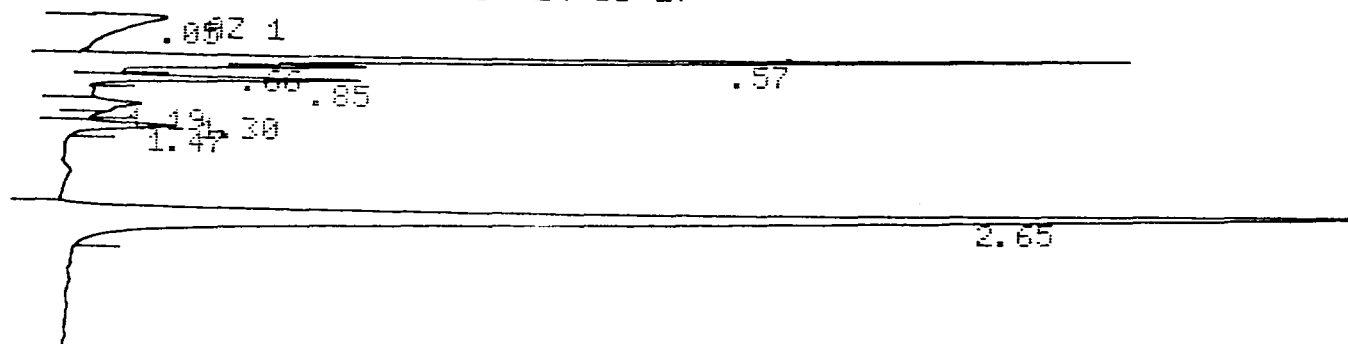
PEAK#	AREA%	RT	AREA BC
1	5.688	0.05	11673 02
2	19.596	0.57	40217 02
3	4.593	0.66	9426 03
4	4.429	0.85	9089 01
5	0.749	1.18	1537 01
6	2.48	1.48	5089 01
7	0.287	2.05	590 01
8	62.178	2.66	127608 01

TOTAL 100. 205229

153339 7

06-F-13-5.5' 100u

CHANNEL A INJECT 11/12/87 14:33:17



GCL 11/12/87 14:33:17 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 23 INDEX 23

PEAK#	AREA%	RT	AREA BC
1	5.031	0.05	10186 02
2	19.149	0.57	38771 02
3	4.533	0.66	9179 03
4	4.507	0.85	9125 01
5	1.531	1.19	3100 02
6	0.27	1.3	546 03
7	2.414	1.47	4887 01
8	62.566	2.65	126680 01

TOTAL 100. 202474

153517 7

T-14-5.5' 100u

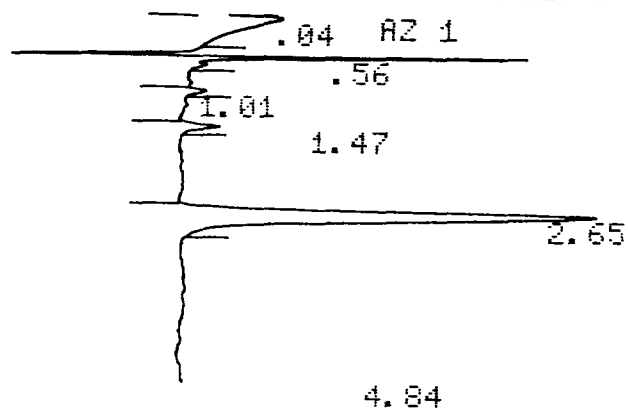
14:47:28PT EVAL:
PT= 102.

TUT 003 1185

CHANNEL A INJECT 11/12/87 14:49:35

56-T-14-5.5'
1000l

CHANNEL A INJECT 11/12/87 14:53:10



GCL 11/12/87 14:53:10 CH= "A" PS= 1.

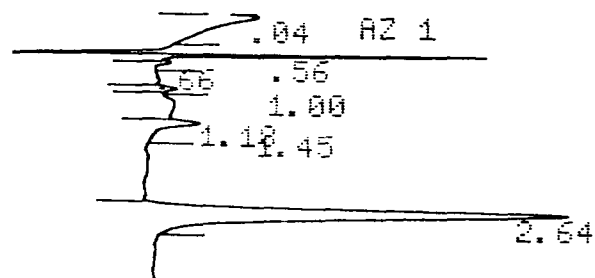
FILE 1. METHOD 0. RUN 24 INDEX 24

PEAK#	AREA%	RT	AREA	BC
1	16.69	0.04	11031	01
2	18.998	0.56	12557	01
3	1.195	1.01	790	01
4	3.15	1.47	2082	01
5	59.967	2.65	39635	01
TOTAL	100.		66095	

42507 2

56-T-14-5.5'
1000l

CHANNEL A INJECT 11/12/87 14:59:09



GCL 11/12/87 14:59:09 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 25 INDEX 25

PEAK#	AREA%	RT	AREA	BC
1	9.601	0.04	6364	01
2	15.048	0.56	9975	02
3	5.936	0.66	3935	03
4	1.014	1.	672	01
5	3.873	1.18	2567	02
6	5.013	1.45	3323	03
7	50.515	2.64	33354	01

49948 2

TUT 003 1186

TOTAL 100.

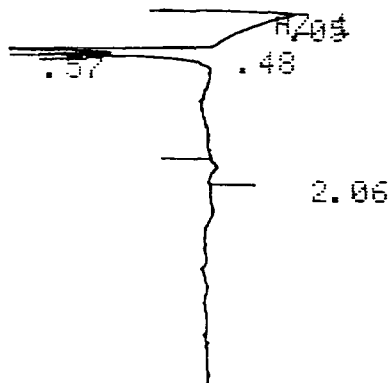
66287

56-T-15-34
1000

15:24:22PT EVAL:

PT= 64.

CHANNEL A INJECT 11/12/87 15:26:17



GCL 11/12/87 15:26:17 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 26 INDEX 26

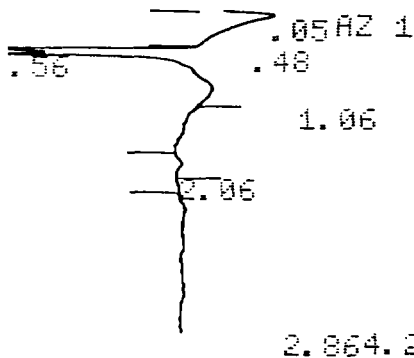
PEAK#	AREA%	RT	AREA	BC
1	84.88	0.05	56863	02
2	8.452	0.48	5662	02
3	5.895	0.57	3949	03
4	0.773	2.06	518	01

5% 0.02

56-T-15-35
1000

TOTAL 100. 66992

CHANNEL A INJECT 11/12/87 15:32:28



2.864.24

GCL 11/12/87 15:32:28 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 27 INDEX 27

PEAK#	AREA%	RT	AREA	BC
1	39.667	0.05	50020	02
2	7.239	0.48	9129	02
3	3.784	0.56	4772	02
4	46.474	1.06	58604	03
5	0.368	2.06	464	01
6	2.468	2.86	3112	01

500

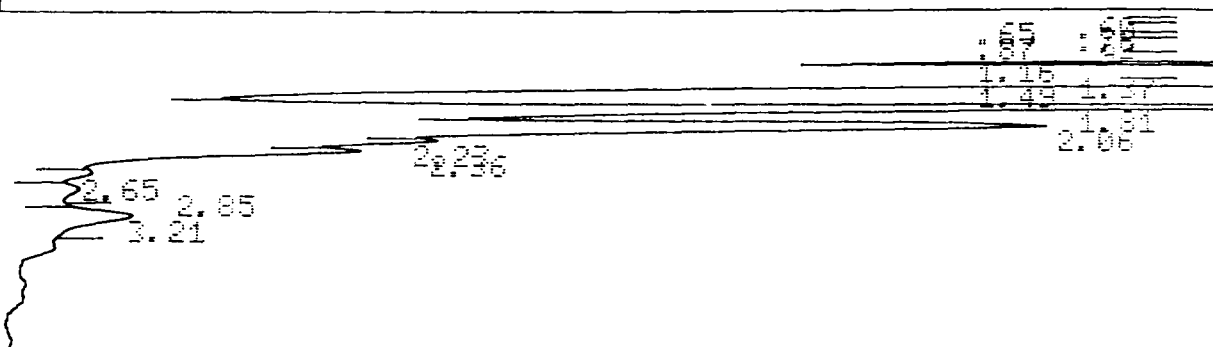
1
2

TOTAL 100. 126101

TUT 003 1187

5%

15:49:30



GCL 11/12/87 15:51:02 CH= "A" PS= 1.

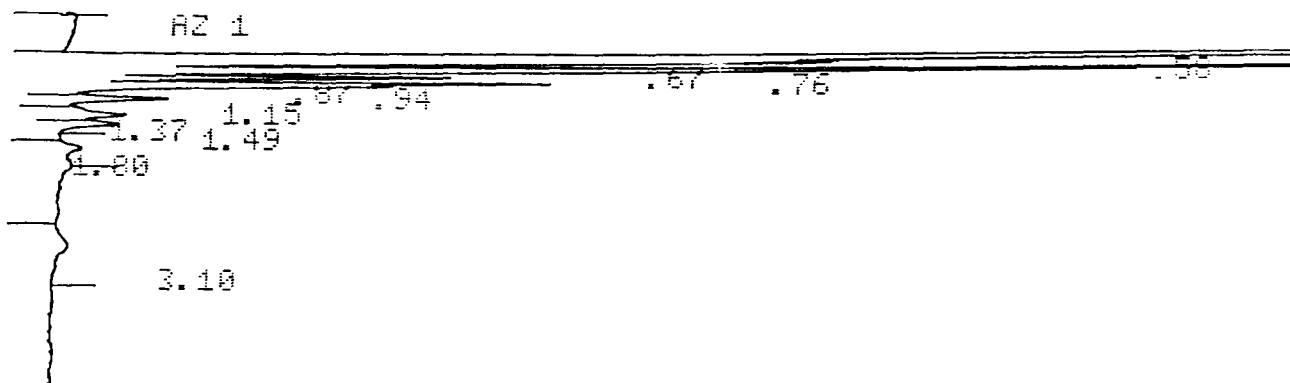
FILE 1. METHOD 0. RUN 28 INDEX 28

PEAK#	AREA%	RT	AREA	BC
1	44.872	0.65	7992890	02
2	9.832	0.85	1751270	02
3	23.504	0.76	4186655	02
4	4.51	0.87	803425	02
5	10.025	0.94	1785705	02
6	2.138	1.16	380815	02
7	1.881	1.37	335082	02
8	1.438	1.49	256091	02
9	0.748	1.81	133186	02
10	0.671	2.06	119499	02
11	0.155	2.23	27633	02
12	0.156	2.36	27761	02
13	0.019	2.65	3429	02
14	0.009	2.85	1686	03
15	0.043	3.21	7644	01

TOTAL 100. 17812771

85-F-14-2'
2nd 1/100

CHANNEL A INJECT 11/12/87 15:58:25



GCL 11/12/87 15:58:25 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 29 INDEX 29

PEAK#	AREA%	RT	AREA	BC
1	71.627	0.58	319973	02
2	3.868	0.67	17279	02
3	12.982	0.76	57991	02
4	2.459	0.87	10985	02
5	5.495	0.94	24504	02

TUT 003 1188

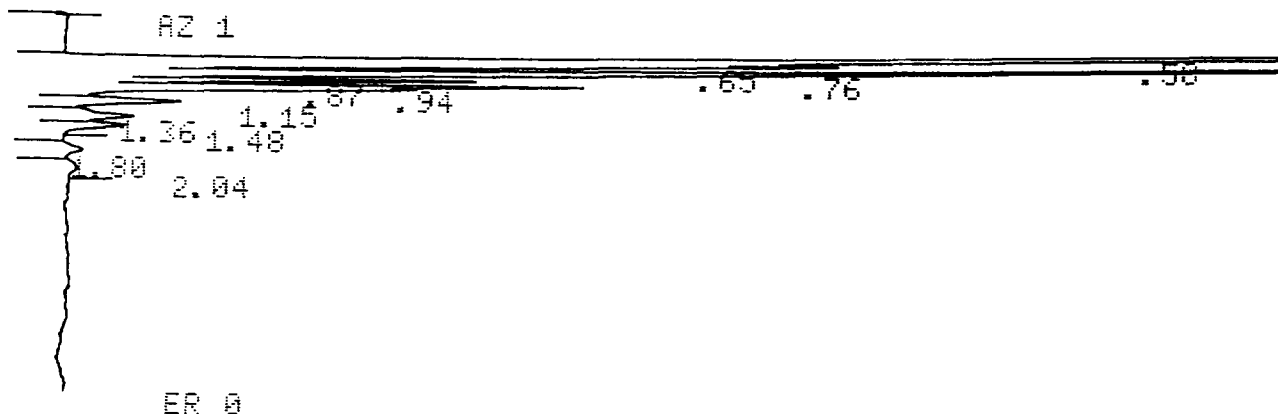
7	0.982	1.37	4388	02
8	0.724	1.49	3233	03
9	0.233	1.8	1041	01
10	0.511	3.1	2283	01

126796
2800

TOTAL 100. 446719

56-F-14-2'
2d 1/100

CHANNEL A INJECT 11/12/87 16:04:41



GCL 11/12/87 16:04:41 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 30 INDEX 30

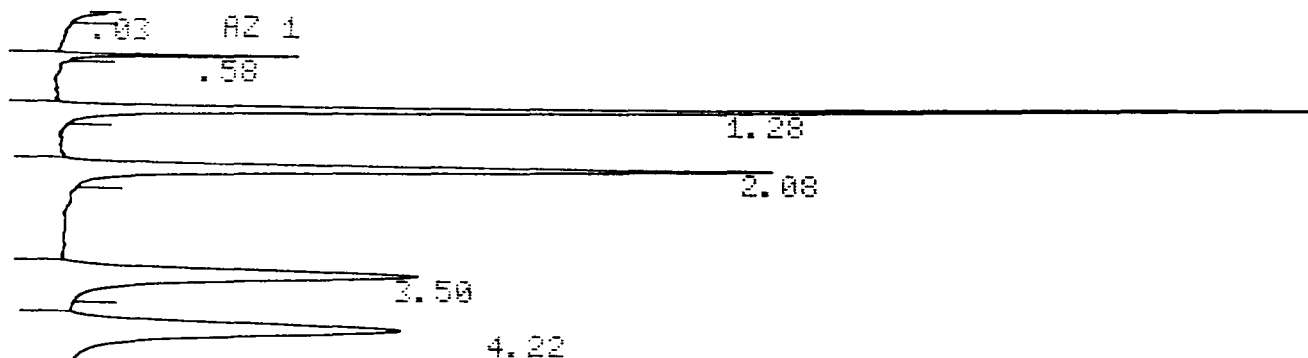
PEAK#	AREA%	RT	AREA	BC
1	69.882	0.58	321081	02
2	5.196	0.65	23873	02
3	13.129	0.76	60324	02
4	2.547	0.87	11704	02
5	5.742	0.94	26382	02
6	1.275	1.15	5856	02
7	1.042	1.36	4786	02
8	0.736	1.48	3380	03
9	0.252	1.8	1158	02
10	0.199	2.04	915	03

TOTAL 100. 459459

138278
3100

5d 544

CHANNEL A INJECT 11/12/87 16:17:01



GCL 11/12/87 16:17:01 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 31 INDEX 31

TOT 003 1189

1	0.59	0.03	1123	01
2	2.275	0.58	4329	01
3	26.695	1.28	50800	01
4	24.833	2.08	47257	01
5	21.525	3.5	40962	01
6	24.081	4.22	45826	01
TOTAL	100.		190297	

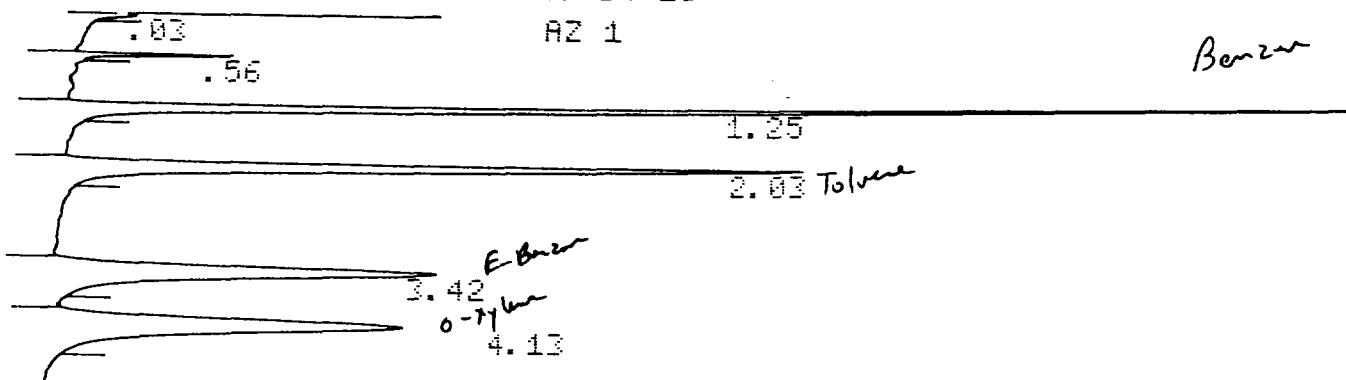
READY
 DATE " 11/13/87
 TIME " 07:32
 FI= 1. FE= 1. MN= 0.
 PRESS 'ENTER' TO SKIP ENTRY
 FILE NAME=" GCL
 TIME FUNCTION VALUE
 TT= .01 TF=" AZ TV= 1
 TT= .01 TF=" PM TV= 1
 TT= 5.0 TF=" ER TV= 1
 TT=

METHOD NUMBER:MN=

END OF DIALOG

RT= 8
 PT=100
 OF=15

CHANNEL A INJECT 11/13/87 07:34:26



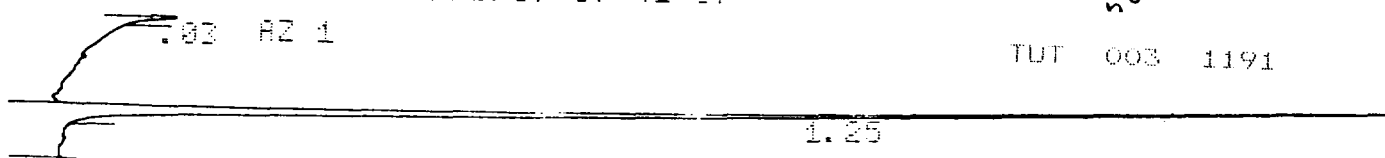
GCL 11/13/87 07:34:26 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 1 INDEX 1

PEAK#	AREA%	RT	AREA	BC
1	0.547	0.03	1101	01
2	1.512	0.56	3043	01
3	26.379	1.25	53083	01
4	25.095	2.03	50499	01
5	22.222	3.42	44718	01
6	24.246	4.13	48791	01

TOTAL 100. 201235

CHANNEL A INJECT 11/13/87 07:41:57



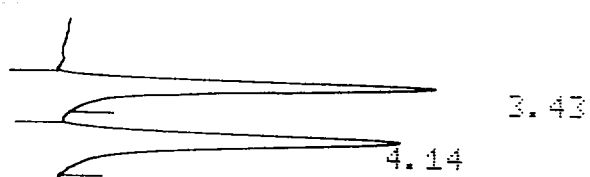
TOT 003 1191

FID
OV-101 - 6' 1/8"
N₂ - 30ml/min - 50psi
H₂ - 30ml/min - 40psi
Air - 300ml/min - 60psi

80°C Iso
Det - 250°C
Inj - 200°C

5ul Std
BTY

5ul Std



GCL 11/13/87 07:41:57 CH= "A" PS= 1.

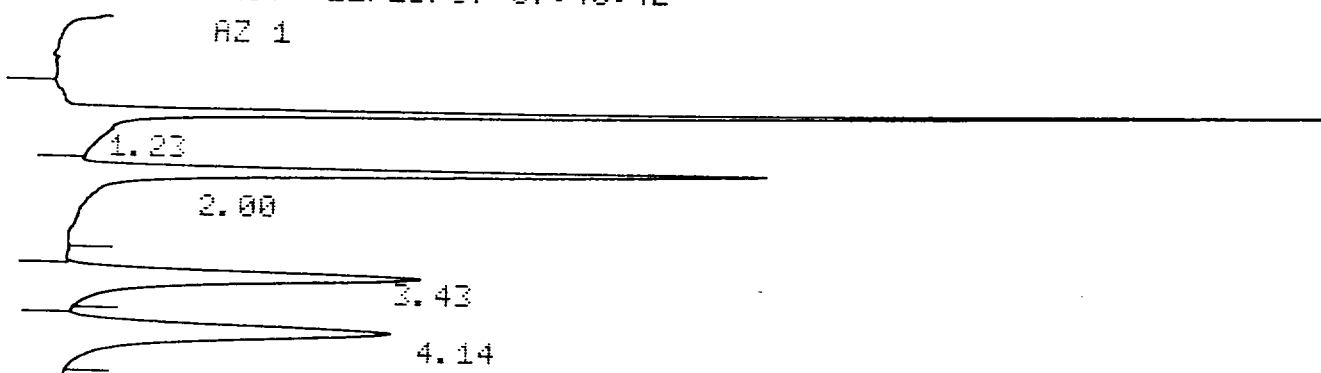
FILE 1. METHOD 0. RUN 2 INDEX 2

PEAK#	AREA%	RT	AREA BC
1	0.608	0.03	1217 01
2	26.722	1.25	53463 01
3	25.126	2.03	50271 01
4	22.458	3.43	44932 01
5	25.085	4.14	50189 01

TOTAL 100. 200072

5d 5H

CHANNEL A INJECT 11/13/87 07:48:42
AZ 1



GCL 11/13/87 07:48:42 CH= "A" PS= 1.

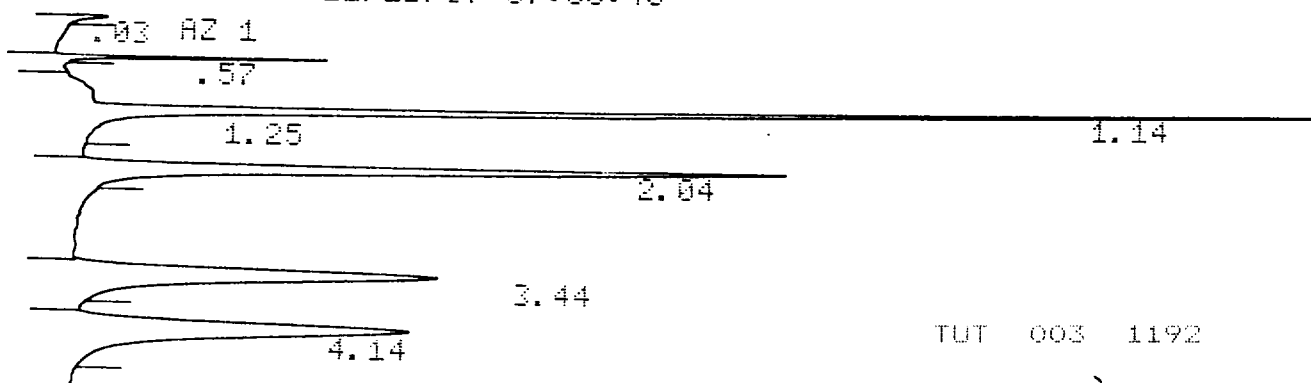
FILE 1. METHOD 0. RUN 3 INDEX 3

PEAK#	AREA%	RT	AREA BC
1	30.673	1.23	68152 02
2	27.919	2.	62033 03
3	19.67	3.43	43705 01
4	21.739	4.14	48301 01

TOTAL 100. 222191

5d 5H

1159
CHANNEL A INJECT 11/13/87 07:55:40



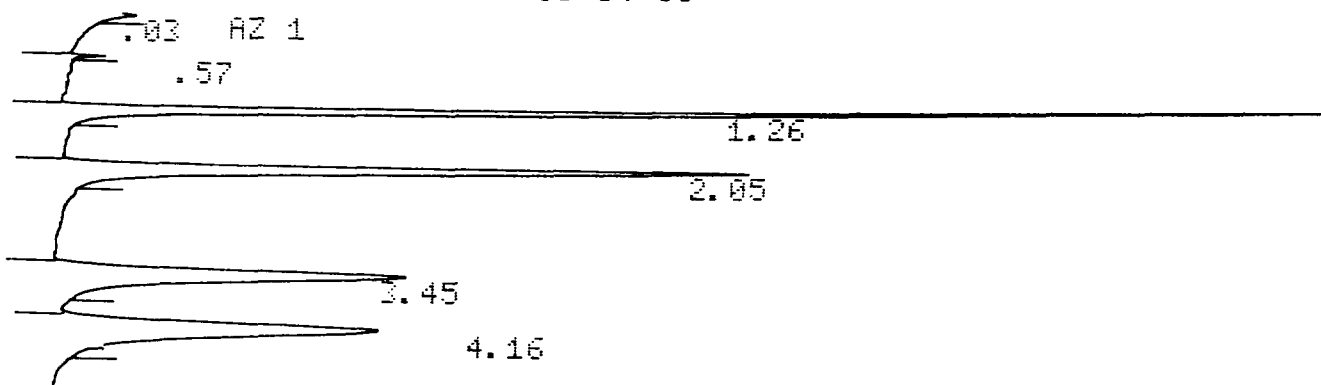
TUT 003 1192

FILE 1. METHOD 0. RUN 4 INDEX 4

PEAK#	AREA%	RT	AREA BC
1	0.474	0.03	991 01
2	2.317	0.57	4842 01
3	1.595	1.14	3332 02
4	28.099	1.25	58709 03
5	23.442	2.04	48979 01
6	20.484	3.44	42798 01
7	23.588	4.14	49283 01

TOTAL 100. 208934

CHANNEL A INJECT 11/13/87 08:04:00



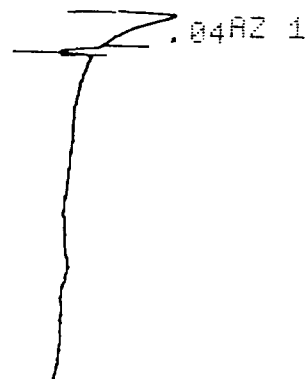
GCL 11/13/87 08:04:00 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 5 INDEX 5

PEAK#	AREA%	RT	AREA BC
1	0.492	0.03	919 01
2	0.308	0.57	576 01
3	27.649	1.26	51634 01
4	25.608	2.05	47822 01
5	22.146	3.45	41357 01
6	23.796	4.16	44438 01

TOTAL 100. 186746

CHANNEL A INJECT 11/13/87 08:12:58



TUT 003 1193

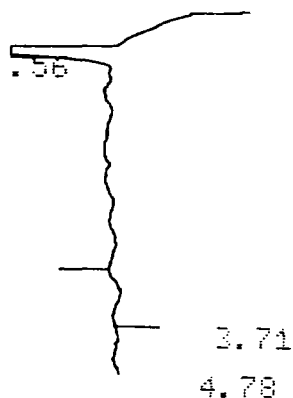
GCL 11/13/87 08:12:58 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 6 INDEX 6

PEAK#	AREA%	RT	AREA BC
1	100.	0.04	8126 01
TOTAL	100.		8126

At Syph
1000

08:19:43
CHANNEL A INJECT 11/13/87 08:20:43
AZ 1



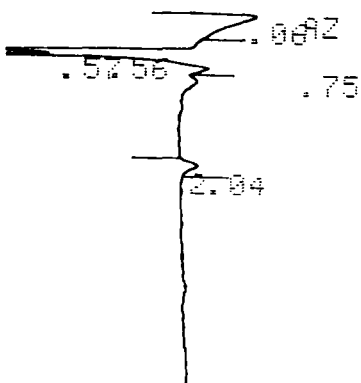
GCL 11/13/87 08:20:43 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 7 INDEX 7

PEAK#	AREA%	RT	AREA BC
1	55.695	0.56	1379 03
2	44.305	3.71	1097 01
TOTAL	100.		2476

Systan Blank
pool

CHANNEL A INJECT 11/13/87 08:27:17
AZ 1



GCL 11/13/87 08:27:17 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 8 INDEX 8

PEAK#	AREA%	RT	AREA BC
1	31.192	0.06	6345 01
2	4.061	0.56	826 02
3	2.011	0.57	409 02
4	56.73	0.75	11540 03
5	6.007	2.04	1222 01
TOTAL	100.		20342

Systan Blank
pool

CHANNEL A INJECT 11/13/87 08:34:58

TUT 003 1194



GCL 11/13/87 08:34:58 CH= "A" PS= 1.

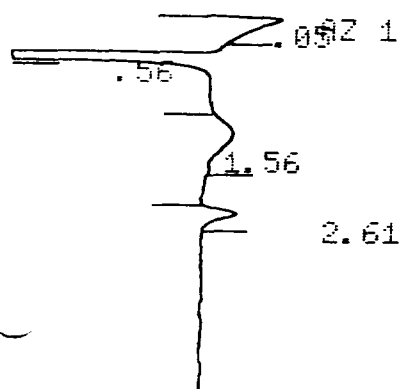
FILE 1. METHOD 0. RUN 9 INDEX 9

PEAK#	AREAZ	RT	AREA BC
1	75.131	0.05	54809 02
2	3.054	0.57	2228 02
3	1.317	0.57	961 02
4	18.769	0.76	13692 03
5	1.729	2.04	1261 01

TOTAL 100. 72951

*Pr. #6-2
12/1*

CHANNEL A INJECT 11/13/87 08:40:39



GCL 11/13/87 08:40:39 CH= "A" PS= 1.

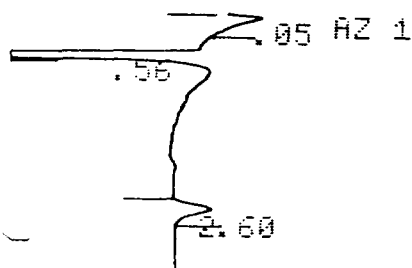
FILE 1. METHOD 0. RUN 10 INDEX 10

PEAK#	AREAZ	RT	AREA BC
1	49.443	0.05	8692 01
2	0.626	0.56	110 03
3	31.803	1.56	5591 01
4	18.129	2.61	3187 01

TOTAL 100. 17580

*OnP4 #6-2
12/1*

CHANNEL A INJECT 11/13/87 08:47:10



TOT 003 1195

GCL 11/13/87 08:47:10 CH= "A" PS= 1.

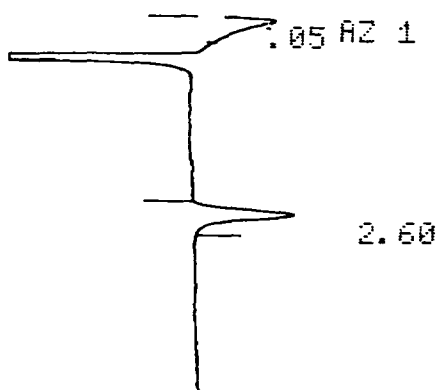
FILE 1. METHOD 0. RUN 11 INDEX 11

Peak	Area	RT	Area BC
1	55.136	0.05	4632 01
2	3.273	0.56	275 03
3	41.59	2.6	3494 01

TOTAL 100. 8401

SG-T-16-5.5
1992

09:32:21
CHANNEL A INJECT 11/13/87 09:33:23



GCL 11/13/87 09:33:23 CH= "A" PS= 1.

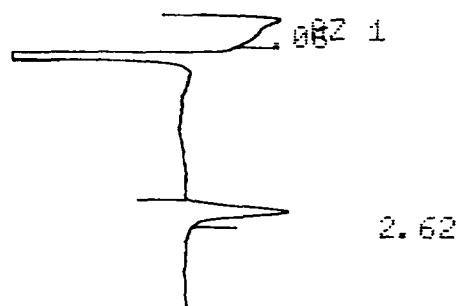
FILE 1. METHOD 0. RUN 12 INDEX 12

PEAK#	AREAX	RT	AREA BC
1	87.077	0.05	68588 03
2	12.923	2.6	10179 01

TOTAL 100. 78767

SG-T-16-5.5
1992

CHANNEL A INJECT 11/13/87 09:40:14



GCL 11/13/87 09:40:14 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 13 INDEX 13

PEAK#	AREAX	RT	AREA BC
1	51.086	0.06	10110 01
2	48.914	2.62	9680 01

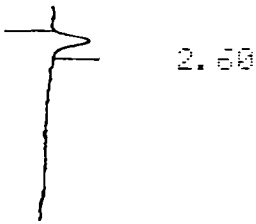
TOTAL 100. 19790

SG-T-17-6
1992

09:56:06
CHANNEL A INJECT 11/13/87 09:57:13



TUT 003 1196



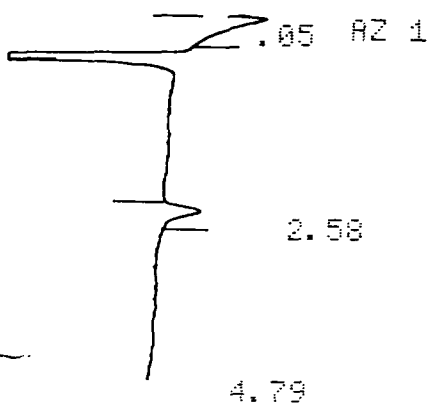
GCL 11/13/87 09:57:13 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 14 INDEX 14

PEAK#	AREA%	RT	AREA BC
1	95.149	0.05	69473 03
2	4.851	2.6	3542 01
TOTAL	100.		73015

66-T-17-6
1000

CHANNEL A INJECT 11/13/87 10:04:59



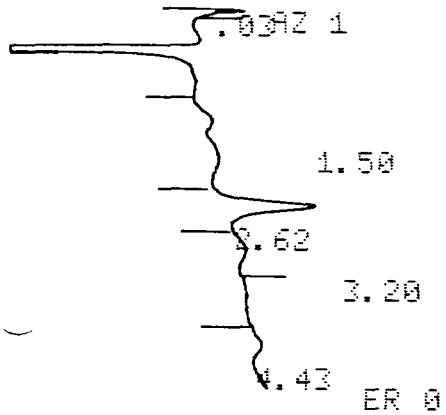
GCL 11/13/87 10:04:59 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 15 INDEX 15

PEAK#	AREA%	RT	AREA BC
1	69.512	0.05	7859 01
2	30.488	2.58	3447 01
TOTAL	100.		11306

56-T-18-55
now

11:21:31
CHANNEL A INJECT 11/13/87 11:22:52



TUT 003 1197

GCL 11/13/87 11:22:52 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 16 INDEX 16

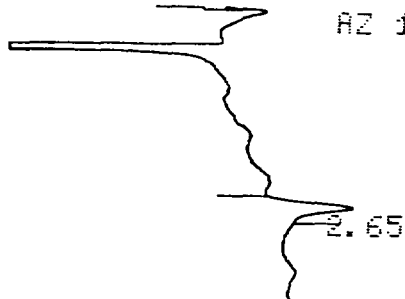
PEAK#	AREA%	RT	AREA BC
1	4.356	0.03	1127 01
2	28.75	1.5	7438 02
3	51.015	2.62	13198 02
4	12.044	3.2	3116 03
5	3.834	4.43	992 01

TOTAL 100. 25871

PT EVAL:
PT= 219.

56-T-18-5.5
1000h

CHANNEL A INJECT 11/13/87 11:30:51
AZ 1



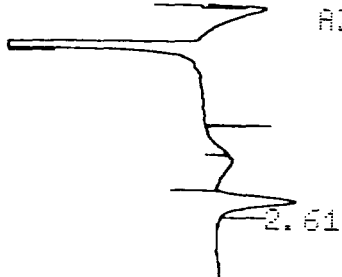
GCL 11/13/87 11:30:51 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 17 INDEX 17

PEAK#	AREA%	RT	AREA BC
1	100.	2.65	7301 01
TOTAL	100.		7301

56-T-18-5.5
1000h

1157
CHANNEL A INJECT 11/13/87 11:36:05
AZ 1



GCL 11/13/87 11:36:05 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 18 INDEX 18

PEAK#	AREA%	RT	AREA BC
1	100.	2.61	7544 01
TOTAL	100.		7544

56-T-19-6
1000h

12:14:01
CHANNEL A INJECT 11/13/87 12:15:11
AZ 1



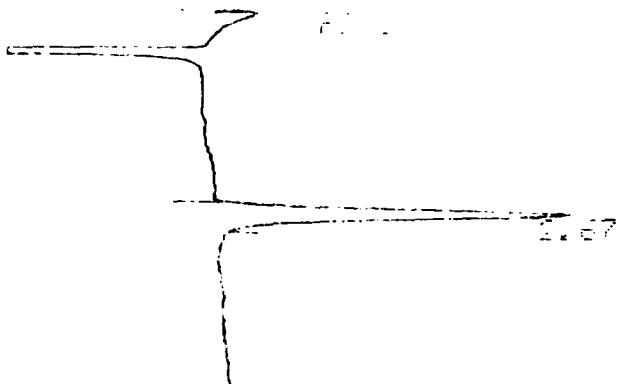
TUT 003 1198

15.00 45190 01
22.64 40921 01
24.08 45138 01

65-15-15-15
100%

100% 100% 100728

14:07:02
CHANNEL 1 INJECT 11/13/87 14:06:00



101 11/13/87 14:08:05 CH= 'A' PS= 1.

FILE 1. METHOD 0. RUN 22 INDEX 22

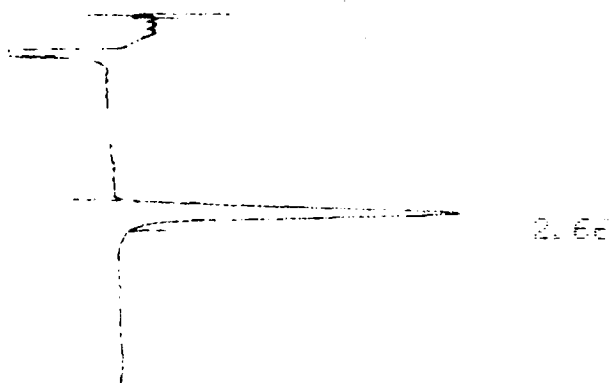
PERCENT AREA PT AREA BC

1 100. 2.67 34722 01

TOTAL 100. 34722

15 FAULT 40 11 2600

CHANNEL 0 INJECT 11/13/87 14:15:20



101 11/13/87 14:15:21 CH= 'A' PS= 1.

FILE 1. METHOD 0. RUN 23 INDEX 23

PERCENT AREA PT AREA BC

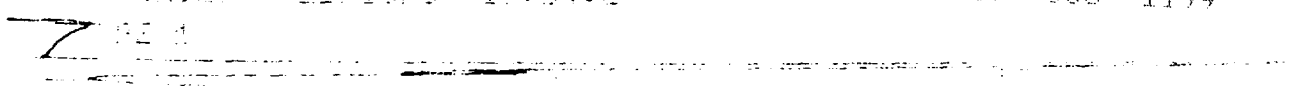
1 100. 1.06 34099 01

TOTAL 100. 34099

65-15-20
100%

15:30:55
CHANNEL 0 INJECT 11/13/87 15:34:23

TUT 003 1199



1.48

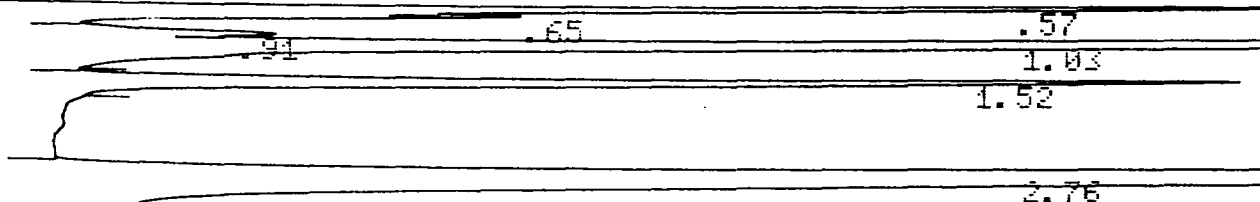
2.64

GCL 11/13/87 15:34:29 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 24 INDEX 24

PEAK#	AREAX	RT	AREA BC
1	6.694	0.57	64386 02
2	2.339	0.66	22501 02
3	1.342	0.9	12910 02
4	32.583	1.01	313401 08
5	7.844	1.48	75443 05
6	49.198	2.64	473207 01

TOTAL 100. 961848

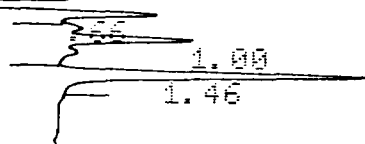
CHANNEL A INJECT 11/13/87 15:45:42
AZ 1

GCL 11/13/87 15:45:42 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 25 INDEX 25

PEAK#	AREAX	RT	AREA BC
1	6.725	0.57	65170 02
2	2.509	0.65	24315 02
3	1.371	0.91	13282 02
4	32.651	1.03	316420 03
5	7.884	1.52	76404 01
6	48.861	2.76	473521 01

TOTAL 100. 969112

16:30:01
CHANNEL A INJECT 11/13/87 16:30:58
AZ 1

TUT 003 1200

4.98

GCL 11/13/87 16:30:58 CH= "A" PS= 1.

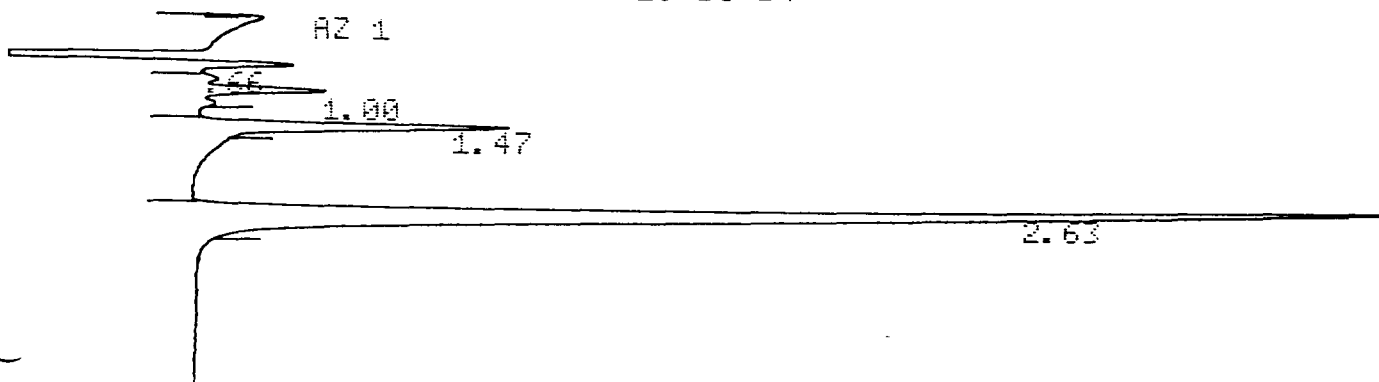
FILE 1. METHOD 0. RUN 26 INDEX 26

PEAK#	AREA%	RT	AREA BC
1	12.353	0.66	31449 02
2	25.928	1.	66011 02
3	12.651	1.46	32209 03
4	49.068	2.64	124921 01

TOTAL 100. 254590

*56-F-16-6
12nd*

CHANNEL A INJECT 11/13/87 16:36:34
AZ 1



GCL 11/13/87 16:36:34 CH= "A" PS= 1.

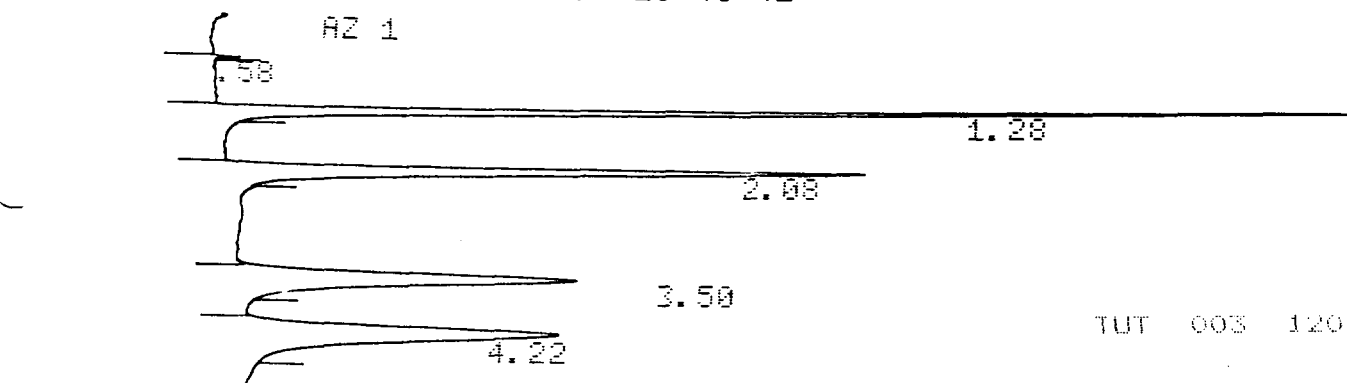
FILE 1. METHOD 0. RUN 27 INDEX 27

PEAK#	AREA%	RT	AREA BC
1	13.128	0.66	26634 02
2	16.638	1.	33757 03
3	9.882	1.47	20050 01
4	60.351	2.63	122444 01

TOTAL 100. 202885

5th 5th

CHANNEL A INJECT 11/13/87 16:46:42
AZ 1



FILE 1. METHOD 0. RUN 28 INDEX 28

PEAK#	AREA%	RT	AREA	BC
1	0.259	0.58	462	01
2	27.048	1.28	48208	01
3	25.391	2.08	45255	01
4	21.972	3.5	39161	01
5	25.331	4.22	45148	01

TOTAL 100. 178234

16:58:25

READY
 DATE " 11/14/87
 TIME " 07:23
 FI= 1. FE= 1. MN= 0.
 PRESS 'ENTER' TO SKIP ENTRY
 FILE NAME=" GCL
 TIME FUNCTION VALUE
 TT= .01 TF=" AZ TV= 1
 TT= .01 TF=" PM TV= 1
 TT=

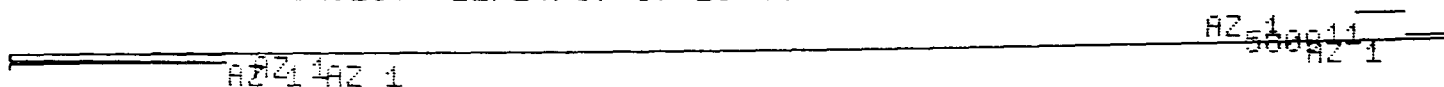
METHOD NUMBER:MN=

END OF DIALOG
 AT= 8
 PT100+++++
 PT=100
 OF=15

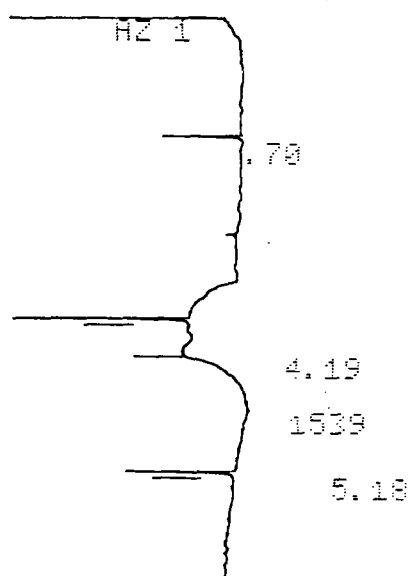
FID OV-101 - 6' $\frac{1}{8}$ "
 80°C Iso
 det: 250°C
 Inj- 200°C
 N₂ - 50psi - 30ml/min
 H₂ - 40psi - 30ml/min
 Air - 60psi - 300ml/min
 Voltage - 16 nV

M. Kretz

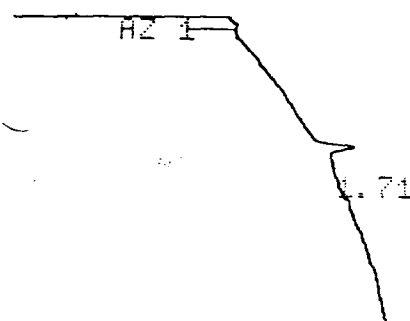
CHANNEL A INJECT 11/14/87 07:25:44



CHANNEL A INJECT 11/14/87 07:29:10

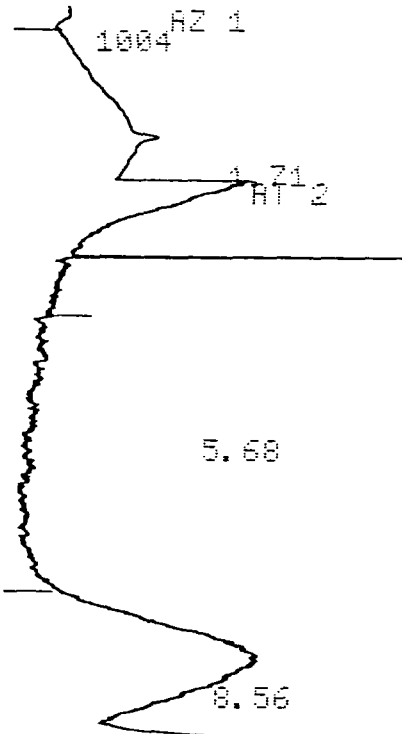


CHANNEL A INJECT 11/14/87 07:42:02



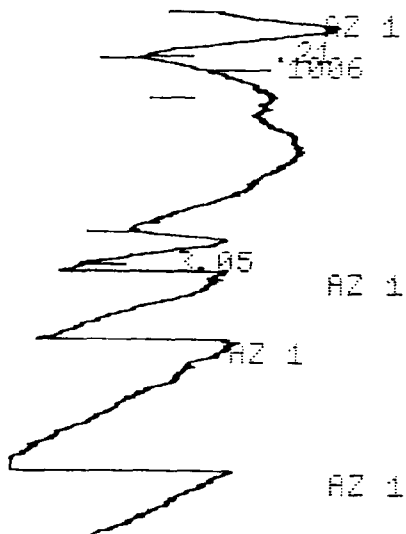
1111
6.26

CHANNEL A INJECT 11/14/87 07:50:27



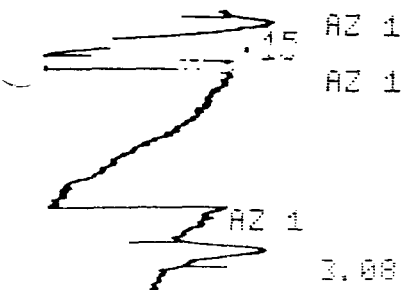
5ul 5%
50% oil conc BTX

CHANNEL A INJECT 11/14/87 08:06:52



oil 5%
2000 1400C
high conc. 5% BTX

CHANNEL A INJECT 11/14/87 08:14:38



TUT 003 1204

AZ 1

6.30

GCL 11/14/87 08:14:38 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 1 INDEX 1

PEAK#	AREA%	RT	AREA BC
1	11.395	0.15	3821 01
2	6.654	3.08	2231 01
3	81.951	6.3	27479 01

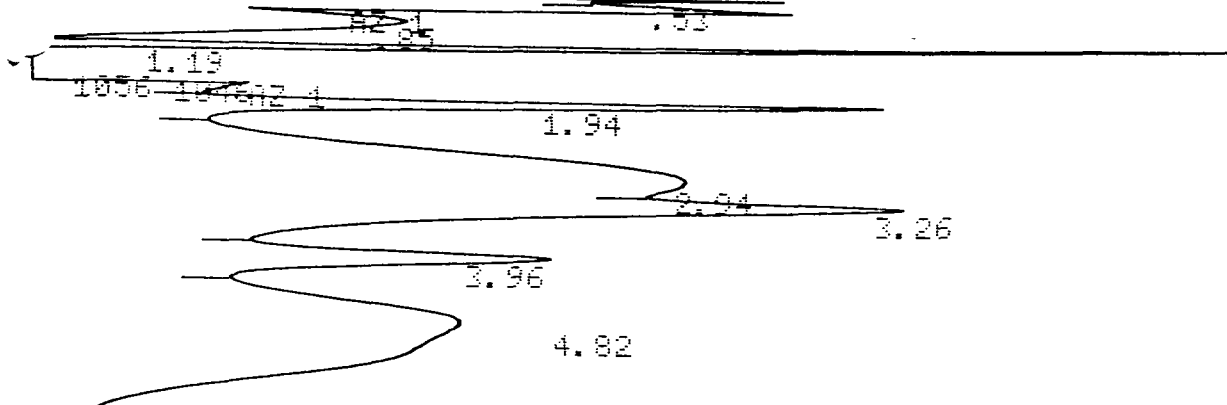
TOTAL 100. 33531

AT= 8

CHANNEL A INJECT 11/14/87 08:42:55

AZ 1

5.2 5.4
BTY



FI= 1. FE= 1. MN= 0.

PRESS 'ENTER' TO SKIP ENTRY

FILE NAME=" GCL

TIME FUNCTION VALUE

TT= .01 TF=" AZ TV= 1

TT= .01 TF=" PM TV= 1

TT= 5.0 TF=" ER TV= 1

TT=

METHOD NUMBER:MN=

END OF DIALOG

AT= 8

T=100

OF=15

5.2 5.4

CHANNEL A INJECT 11/14/87 08:53:50

AZ 1

TUT 003 1205

1.92

3.29

3.97

GCL 11/14/87 08:53:50 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 2 INDEX 2

PEAK#	AREA%	RT	AREA	BC
1	6.845	0.51	16231	02
2	30.37	1.18	72010	02
3	22.557	1.92	53485	03
4	18.185	3.29	43119	01
5	22.042	3.97	52264	01

TOTAL 100. 237109

5d 5H

CHANNEL A INJECT 11/14/87 08:59:58

0.02 AZ 1

0.53

1.19

1.95

3.28

3.97

GCL 11/14/87 08:59:58 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 3 INDEX 3

PEAK#	AREA%	RT	AREA	BC
1	0.414	0.02	776	01
2	0.234	0.53	440	01
3	27.027	1.19	50719	01
4	24.976	1.95	46870	01
5	22.949	3.28	43066	01
6	24.4	3.97	45790	01

TOTAL 100. 187661

5d 5H

CHANNEL A INJECT 11/14/87 09:05:58

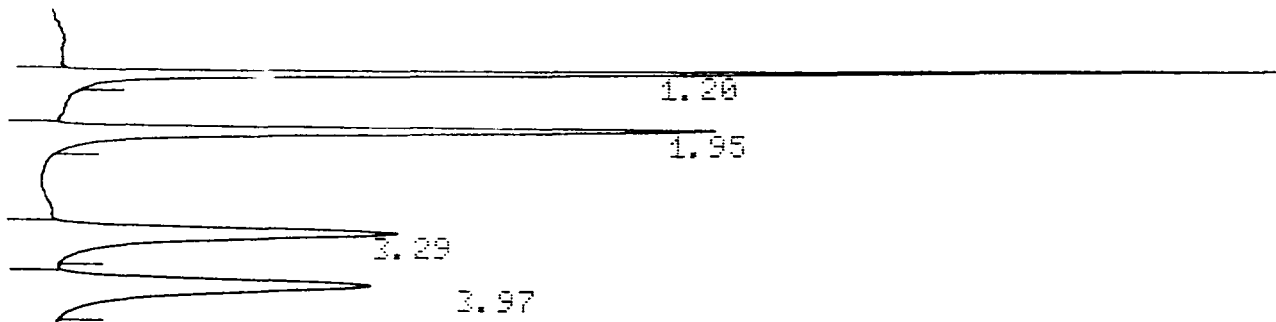
AZ 1

1.20

1.95

TUT 003 1206

CHANNEL A INJECT 11/14/87 09:14:00



GCL 11/14/87 09:11:03 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 4 INDEX 4

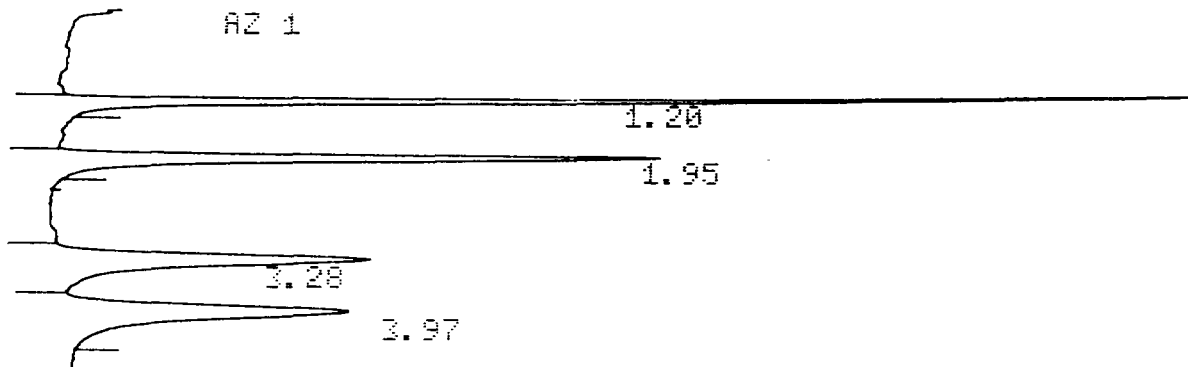
PEAK#	AREA%	RT	AREA BC
1	26.596	1.2	47745 01
2	25.402	1.95	45602 01
3	22.893	3.29	41098 01
4	25.109	3.97	45076 01

TOTAL 100. 179521

5 ul SM

CHANNEL A INJECT 11/14/87 09:16:05

AZ 1



GCL 11/14/87 09:16:05 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 5 INDEX 5

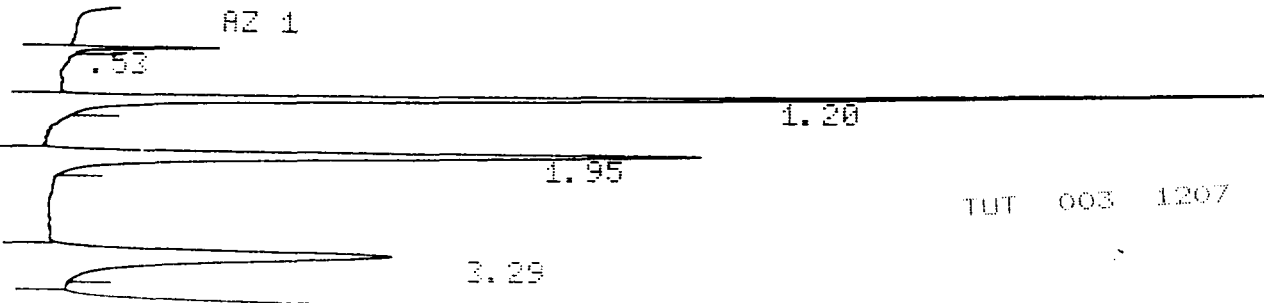
PEAK#	AREA%	RT	AREA BC
1	26.917	1.2	45975 01
2	24.718	1.95	42218 01
3	23.021	3.28	39320 02
4	25.345	3.97	43289 03

TOTAL 100. 170802

5 ul SM

CHANNEL A INJECT 11/14/87 09:21:32

AZ 1



TUT 003 1207

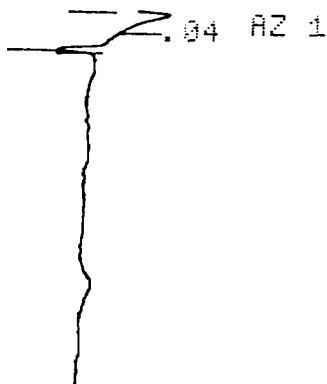
GCL 11/14/87 09:21:32 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 6 INDEX 6

PEAK#	AREA%	RT	AREA BC
1	1.434	0.53	2595 01
2	26.821	1.2	48521 01
3	24.719	1.95	44718 01
4	21.888	3.29	39597 01
5	25.137	3.97	45475 01
TOTAL	100.		180906

*N₂ B_h-K
100%*

CHANNEL A INJECT 11/14/87 09:30:07



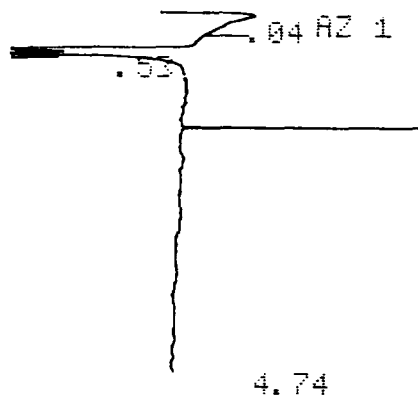
GCL 11/14/87 09:30:07 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 7 INDEX 7

PEAK#	AREA%	RT	AREA BC
1	100.	0.04	5338 01
TOTAL	100.		5338

*Am S_{ph}
100%*

CHANNEL A INJECT 11/14/87 09:43:05



GCL 11/14/87 09:43:05 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 8 INDEX 8

PEAK#	AREA%	RT	AREA BC
1	70.354	0.04	4687 01
2	29.646	0.53	1005 01

TOT 003 1208

WJk

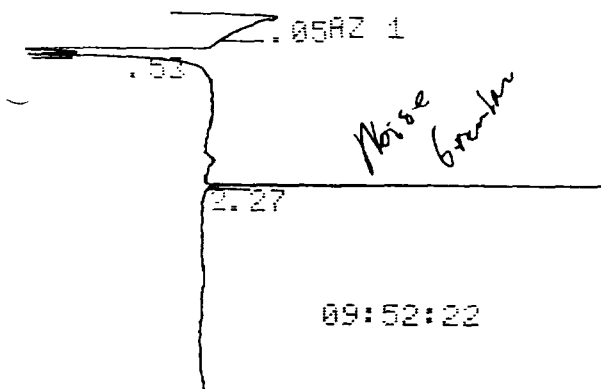
TOTAL

100.

6662

54~

CHANNEL A INJECT 11/14/87 09:48:35



GCL

11/14/87 09:48:35

CH= "A" PS= 1.

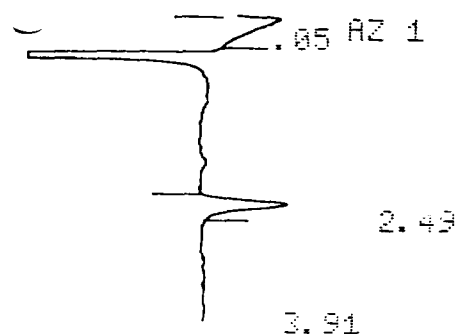
FILE 1. METHOD 0. RUN 9 INDEX 9

PEAK#	AREAX	RT	AREA BC
1	66.419	0.05	6796 01
2	15.882	0.53	1625 03
3	17.699	2.27	1811 01

TOTAL 100. 10232

*Drift #7-2'
1001*

CHANNEL A INJECT 11/14/87 09:55:18



GCL

11/14/87 09:55:18

CH= "A" PS= 1.

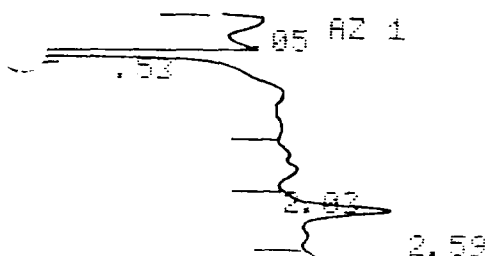
FILE 1. METHOD 0. RUN 10 INDEX 10

PEAK#	AREAX	RT	AREA BC
1	50.156	0.05	7892 01
2	49.844	2.49	7843 01

TOTAL 100. 15735

Drift #7-2'

CHANNEL A INJECT 11/14/87 10:01:19



TUT 003 1209

4.00

ER 0

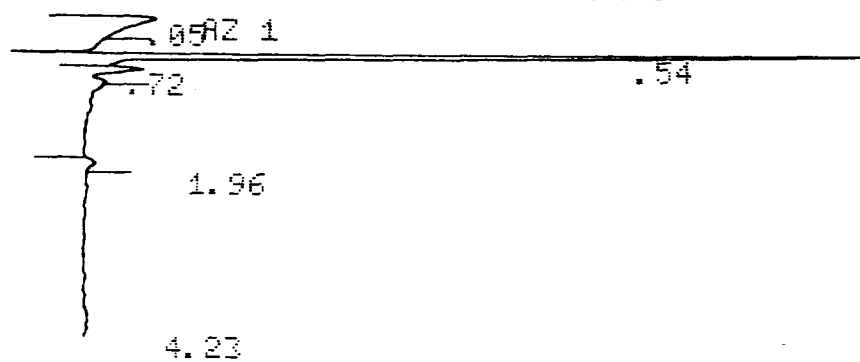
GCL 11/14/87 10:01:19 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 11 INDEX 11

PEAK#	AREA%	RT	AREA BC
1	60.205	0.05	54350 02
2	0.459	0.53	414 03
3	3.426	2.03	3093 02
4	17.	2.59	15347 02
5	4.023	3.26	3632 02
6	14.887	4.	13439 03

TOTAL 100. 90275

10:10:27
CHANNEL A INJECT 11/14/87 10:11:54



56-F-18-35
1002

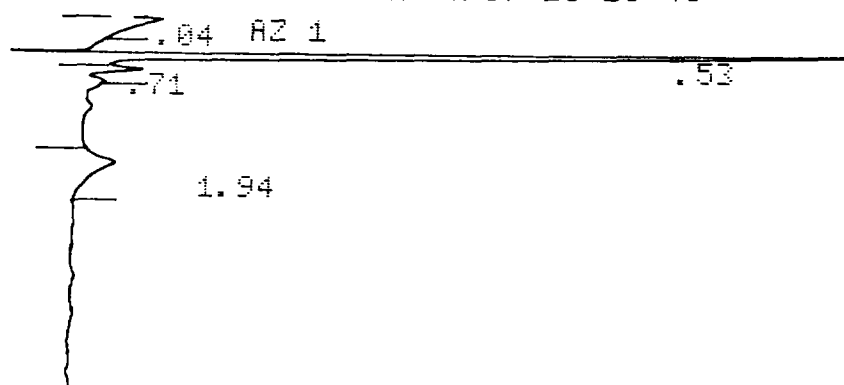
GCL 11/14/87 10:11:54 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 12 INDEX 12

PEAK#	AREA%	RT	AREA BC
1	13.647	0.05	5502 01
2	77.467	0.54	31233 02
3	7.381	0.72	2976 03
4	1.506	1.96	607 01

TOTAL 100. 40318

CHANNEL A INJECT 11/14/87 10:16:46



56-F-18-35
1002

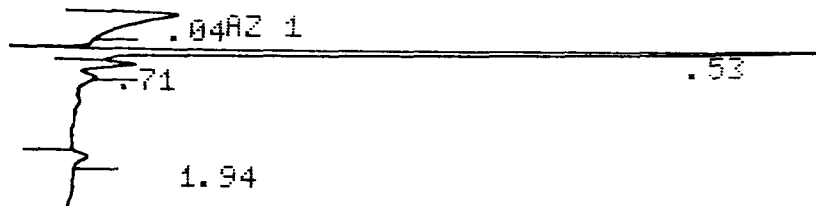
TUT 003 1210

GCL 11/14/87 10:16:46 CH= "A" PS= 1.

PEAK#	AREA%	RT	AREA BC
1	11.039	0.04	5181 01
2	70.185	0.53	32940 02
3	7.268	0.71	3411 03
4	11.508	1.94	5401 01
TOTAL	100.		46933

56-F-18-35-1
100%

10:22:55
CHANNEL A INJECT 11/14/87 10:23:44



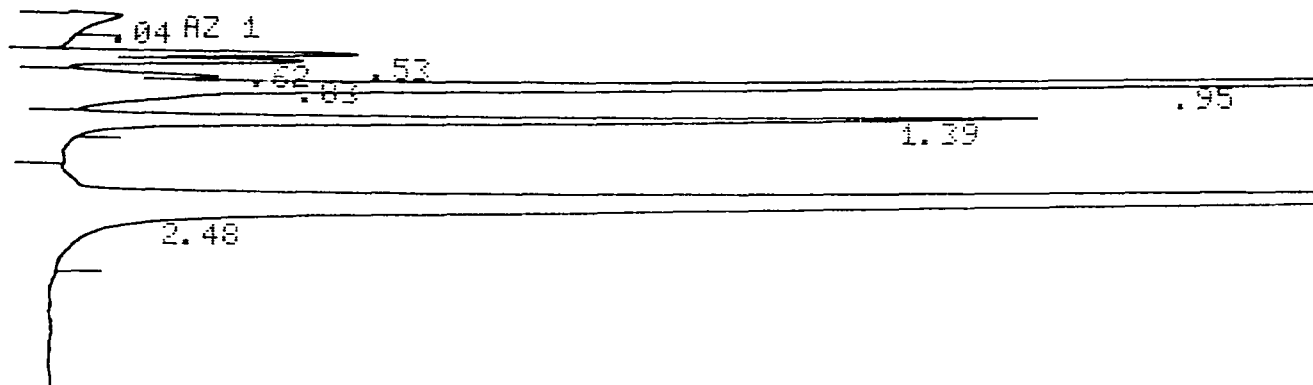
GCL 11/14/87 10:23:44 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 14 INDEX 14

PEAK#	AREA%	RT	AREA BC
1	15.332	0.04	6955 01
2	74.113	0.53	33619 02
3	8.04	0.71	3647 03
4	2.515	1.94	1141 01
TOTAL	100.		45362

56-F-17-5-1
100%

CHANNEL A INJECT 11/14/87 10:28:16



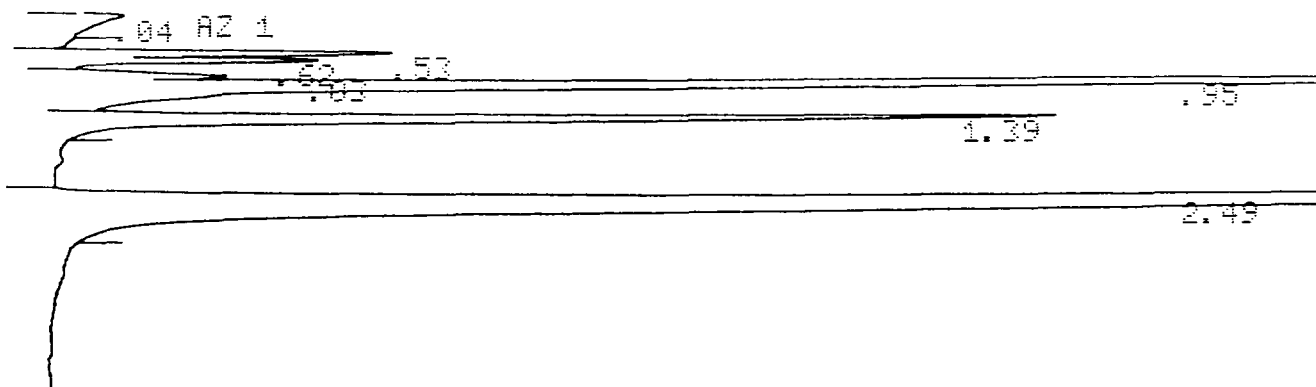
GCL 11/14/87 10:28:16 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 15 INDEX 15

PEAK#	AREA%	RT	AREA BC
1	0.734	0.04	4821 01
2	2.023	0.53	13279 02
3	1.892	0.62	12418 02
4	1.246	0.83	8177 02
5	27.395	0.95	179821 08
6	9.517	1.39	62466 05
7	57.193	2.48	375407 01
TOTAL	100.		656389

638287
33

TUT 003 1211
56-F-17-5-1
100%



GCL 11/14/87 10:34:00 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 16 INDEX 16

PEAK#	AREA%	RT	AREA BC
1	0.7	0.04	4670 01
2	2.245	0.53	14979 02
3	2.014	0.62	13438 02
4	1.322	0.83	8820 02
5	28.777	0.95	192026 08
6	9.452	1.39	63070 05
7	55.491	2.49	370279 01

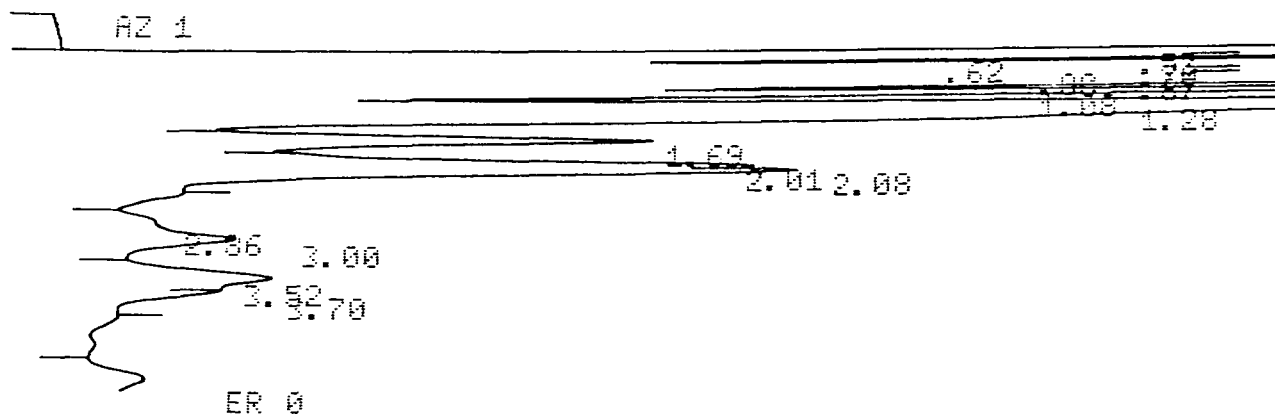
TOTAL 100. 667282

647633 33

66-F-19-5
528

0:50:13

CHANNEL A INJECT 11/14/87 10:51:18



GCL 11/14/87 10:51:18 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 17 INDEX 17

PEAK#	AREA%	RT	AREA BC
1	30.787	0.53	1140005 02
2	2.873	0.62	106390 02
3	23.984	0.7	888080 02
4	3.053	0.8	113049 02
5	20.72	0.87	767224 02
6	2.955	1.08	109418 02
7	10.912	1.28	404052 08
8	1.004	1.69	37185 06
9	1.145	2.01	42386 06
10	1.179	2.08	43644 07
11	0.114	2.86	4233 02

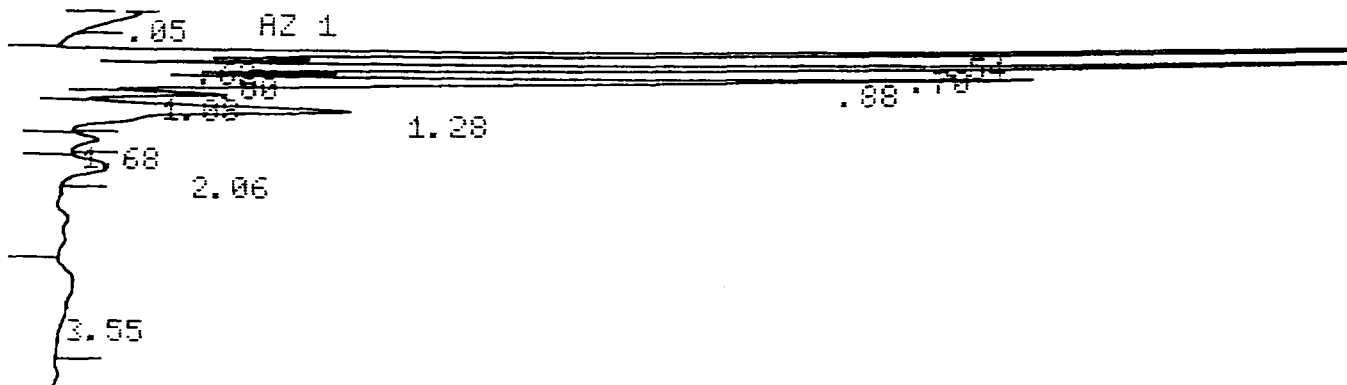
TUT 003 1212

13	0.041	3.02	23743 02
14	0.21	3.7	7788 03
15	0.01	4.86	362 01

TOTAL 100. 3702849

86-F-19-5'
58 1/2

CHANNEL A INJECT 11/14/87 10:59:11



GCL 11/14/87 10:59:11 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 18 INDEX 18

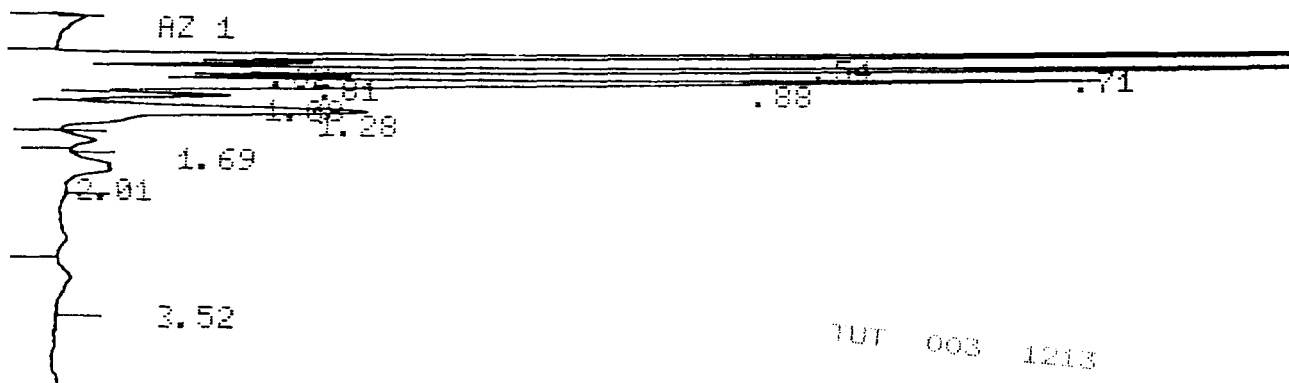
PEAK#	AREA%	RT	AREA BC
1	1.222	0.05	3260 01
2	30.537	0.54	81499 02
3	2.803	0.62	7480 02
4	24.262	0.7	64750 02
5	2.691	0.8	7183 02
6	20.809	0.88	55536 02
7	2.814	1.08	7511 02
8	10.033	1.28	26776 03
9	0.707	1.68	1886 01
10	1.955	2.06	5218 01
11	2.167	3.55	5784 01

TOTAL 100. 266883

182/27
1800

86-F-19-5'
58 1/2

CHANNEL A INJECT 11/14/87 11:06:13



GCL 11/14/87 11:06:13 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 19 INDEX 19

PEAK#	AREA%	RT	AREA BC
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TUT 003 1213

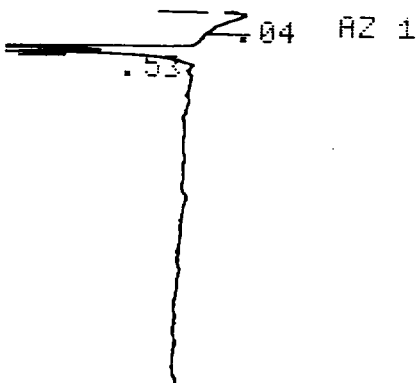
1	2.83	0.62	7618	02
2	25.122	0.71	67628	02
3	2.808	0.81	7558	02
4	21.841	0.88	58796	02
5	3.029	1.08	8153	02
6	10.605	1.28	28548	03
7	0.786	1.69	2115	01
8	2.205	2.01	5935	01
9	0.811	3.52	2184	01

TOTAL 100. 269201

188535
1900

86-T-17-6'
10000

11:28:15
CHANNEL A INJECT 11/14/87 11:29:32



GCL 11/14/87 11:29:32 CH= "A" PS= 1.

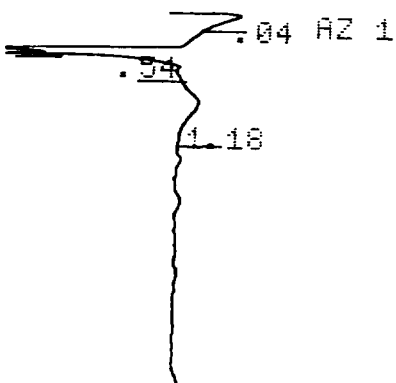
FILE 1. METHOD 0. RUN 20 INDEX 20

PEAK#	AREA%	RT	AREA	BC
1	66.231	0.04	3899	01
2	33.769	0.53	1988	03

TOTAL 100. 5887

86-T-17-6'
10000

CHANNEL A INJECT 11/14/87 11:35:13



GCL 11/14/87 11:35:13 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 21 INDEX 21

PEAK#	AREA%	RT	AREA	BC
1	32.273	0.04	2181	01
2	18.082	0.54	1222	03

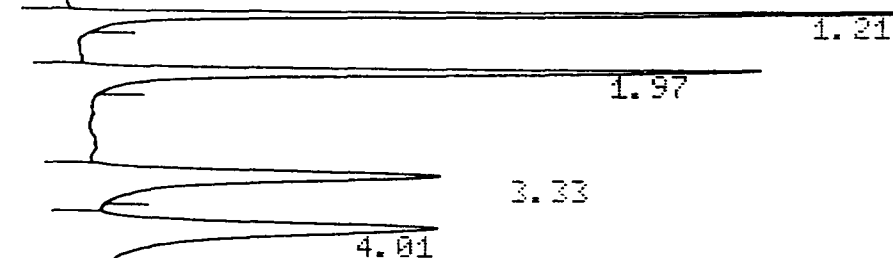
TUT 003 1214

TOTAL 100.

6758

6th. 50

CHANNEL A INJECT 11/14/87 11:44:51

AZ 1
0.55

ER 0

GCL 11/14/87 11:44:51 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 22 INDEX 22

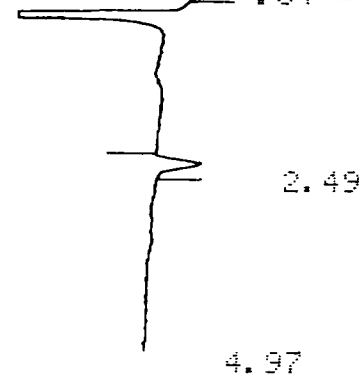
PEAK#	AREA%	RT	AREA BC
1	1.133	0.55	2107 01
2	26.559	1.21	49381 01
3	24.541	1.97	45628 01
4	21.474	3.33	39926 01
5	26.292	4.01	48884 01

TOTAL 100. 185926

56-T-20-4.5
1000

11:50:51

CHANNEL A INJECT 11/14/87 11:52:09

AZ 1
0.04

GCL 11/14/87 11:52:09 CH= "A" PS= 1.

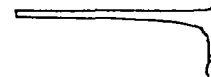
FILE 1. METHOD 0. RUN 23 INDEX 23

PEAK#	AREA%	RT	AREA BC
1	56.1	0.04	5196 01
2	43.9	2.49	4066 01

TOTAL 100. 9262

56-T-20-4.5
1000

CHANNEL A INJECT 11/14/87 11:57:54

AZ 1
0.05

TUT 003 1215

2.49

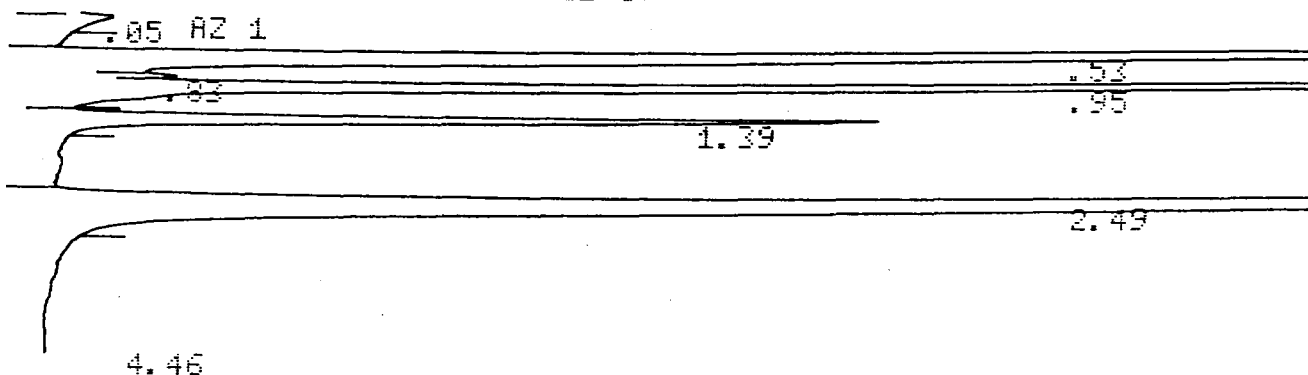
GCL 11/14/87 11:57:54 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 24 INDEX 24

PEAK#	AREA%	RT	AREA BC
1	53.361	0.05	5184 01
2	46.639	2.49	4531 01
TOTAL	100.		9715

56-f-20-6
1000

12:10:42
CHANNEL A INJECT 11/14/87 12:11:59



GCL 11/14/87 12:11:59 CH= "A" PS= 1.

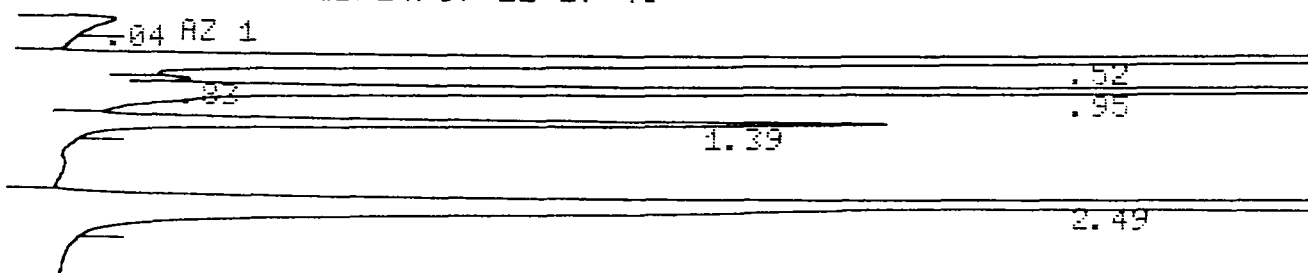
FILE 1. METHOD 0. RUN 25 INDEX 25

PEAK#	AREA%	RT	AREA BC
1	0.36	0.05	3926 01
2	53.544	0.53	584293 08
3	0.127	0.83	1389 06
4	13.151	0.95	143511 07
5	4.712	1.39	51417 01
6	28.105	2.49	306696 01
TOTAL	100.		1091232

503013
26

56-f-20-6
1000

CHANNEL A INJECT 11/14/87 12:17:40



GCL 11/14/87 12:17:40 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 26 INDEX 26

TUT 003 1216

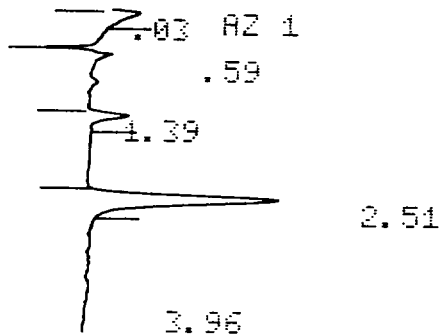
1	0.402	0.04	4423	01
2	53.624	0.52	589505	08
3	0.125	0.03	1375	06
4	13.214	0.95	145260	06
5	4.669	1.39	51328	07
6	27.966	2.49	307432	01

TOTAL 100. 1099323

505395-
26

56-P-21-6
1002

13:56:08 14:05:59
CHANNEL A INJECT 11/14/87 14:07:24



GCL 11/14/87 14:07:24 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 27 INDEX 27

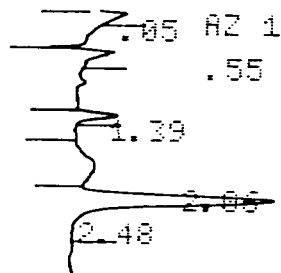
PEAK#	AREA%	RT	AREA	BC
1	0.161	0.03	3019	01
2	33.559	0.59	12415	02
3	0.661	1.39	3204	03
4	49.619	2.51	18356	01

TOTAL 100. 36994

21560

56-P-21-6
1002

CHANNEL A INJECT 11/14/87 14:12:12



GCL 11/14/87 14:12:12 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 28 INDEX 28

PEAK#	AREA%	RT	AREA	BC
1	6.905	0.05	2353	01
2	10.638	0.55	3625	01
3	6.944	1.39	2366	01
4	13.482	2.06	4594	02
5	62.031	2.48	21137	03

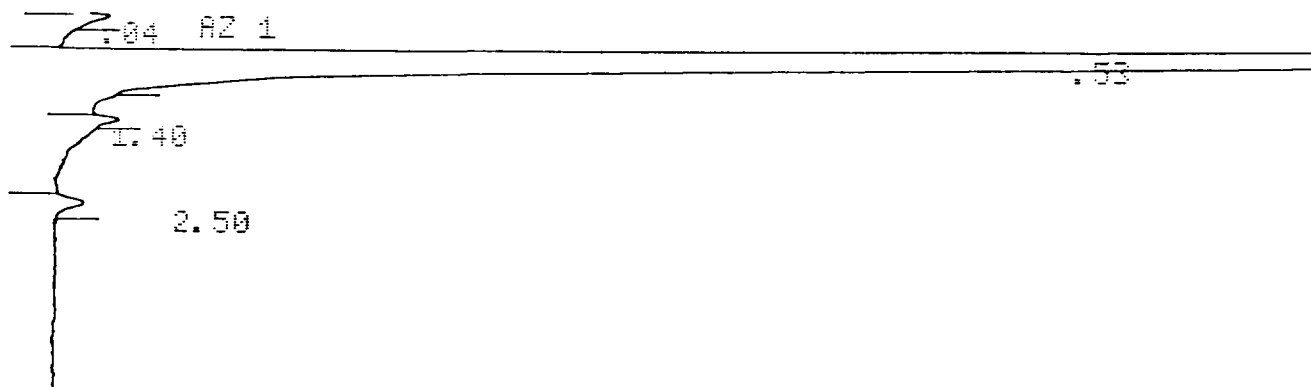
TOTAL 100. 34075

23503

22-6

TUT 003 1217

CHANNEL A INJECT 11/14/87 14:17:35



GCL 11/14/87 14:17:35 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 29 INDEX 29

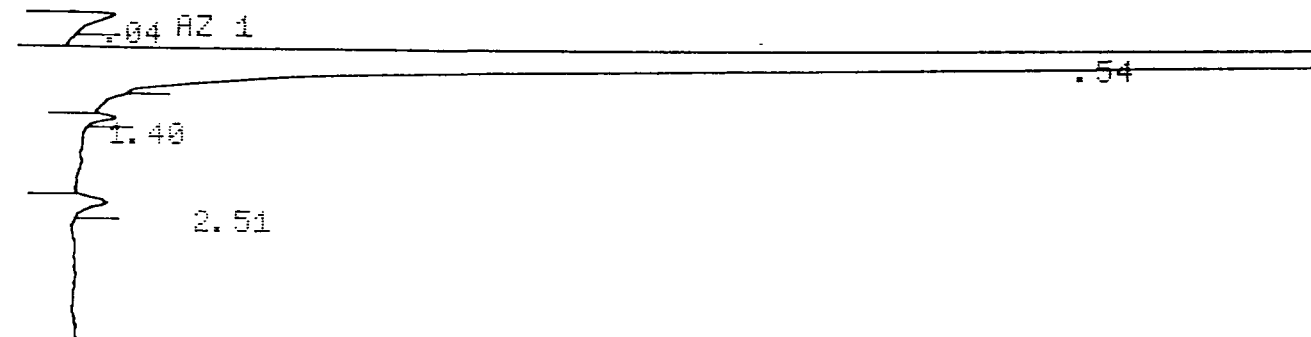
PEAK#	AREA%	RT	AREA	BC
1	0.067	0.04	2845	01
2	99.838	0.53	4231004	01
3	0.034	1.4	1423	01
4	0.061	2.5	2603	01

TOTAL 100. 4237875

4026 0.2

66-F-22-6'
10300

CHANNEL A INJECT 11/14/87 14:25:30



GCL 11/14/87 14:25:30 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 30 INDEX 30

PEAK#	AREA%	RT	AREA	BC
1	0.086	0.04	3642	01
2	99.816	0.54	4225705	01
3	0.03	1.4	1269	01
4	0.068	2.51	2878	01

TOTAL 100. 4233494

4147 0.2

ECD
Temp Program 50°C hold 2.5 min
65°C ramp at 30°C/min

N₂ - 30 ml/min - 50 psi
Voltage - 25 mV
AT = 32
PT = 250

Det - 350°C
Inj - 200°C

READY
DATE " 11/17/87
TIME " 07:08
FI= 1. FE= 1. MN= 0.
PRESS 'ENTER' TO SKIP ENTRY
FILE NAME=" GCL
TIME FUNCTION VALUE
TT= .01 TF=" AZ TV= 1
TT= .01 TF=" PM TV= 1
TT=

METHOD NUMBER:MN=

END OF DIALOG
AT= 32
PT=250
OF=10

CHANNEL A INJECT 11/17/87 07:16:17
AZ 1

CHANNEL A INJECT 11/17/87 07:17:34
AZ 1

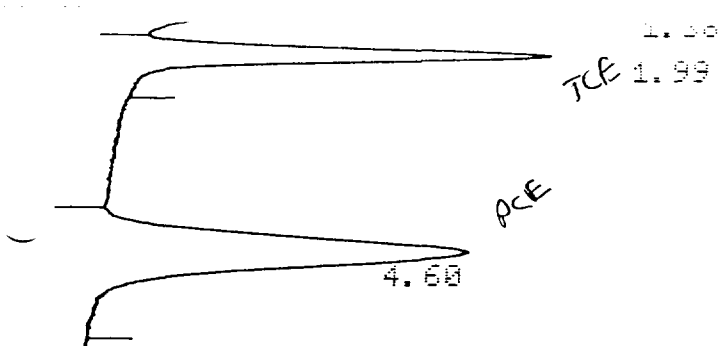
CHANNEL A INJECT 11/17/87 07:21:02
AZ 1

CHANNEL A INJECT 11/17/87 07:35:51

A₂O Blank
5μ

5μ 6μ
TCA RE
TCE

TUT 003 1219



GCL 11/17/87 07:35:51 CH= "A" PS= 1.

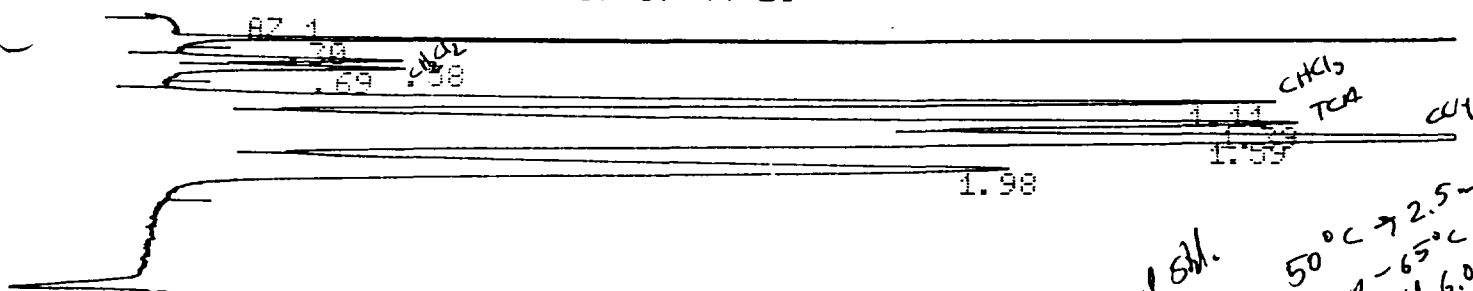
FILE 1. METHOD 0. RUN 1 INDEX 1

PEAK#	AREA%	RT	AREA BC
1	0.539	0.2	5472 02
2	7.338	0.3	74473 03
3	1.642	0.58	16668 01
4	0.304	1.11	3081 02
5	23.084	1.38	234277 02
6	22.069	1.99	223971 03
7	45.024	4.6	456940 01

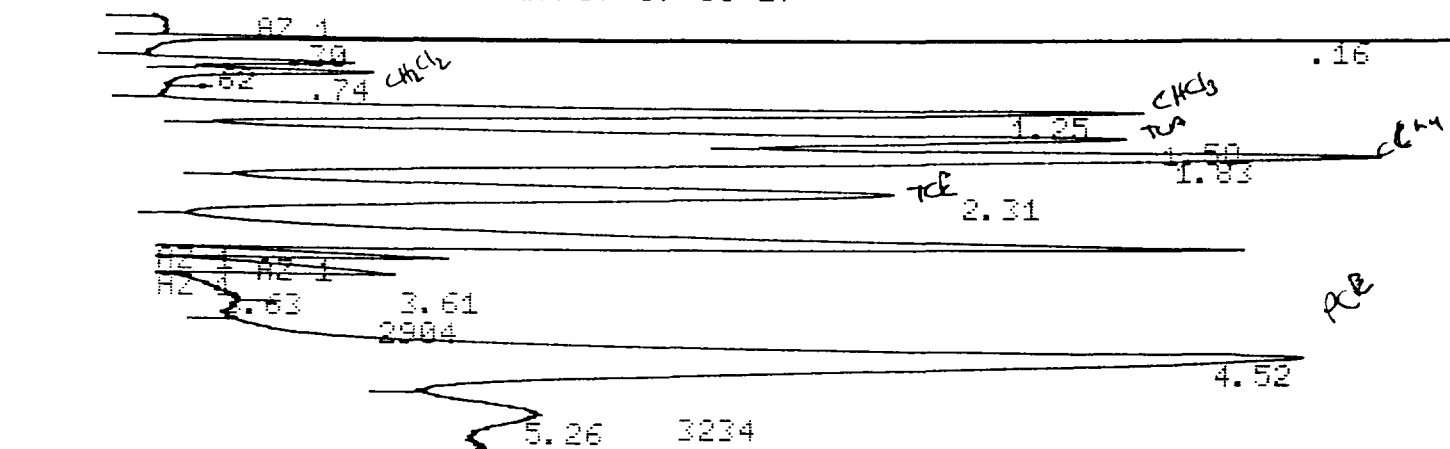
TOTAL 100. 1014882

AT= 16

CHANNEL A INJECT 11/17/87 07:44:25



CHANNEL A INJECT 11/17/87 07:50:27



GCL 11/17/87 07:50:27 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 2 INDEX 2

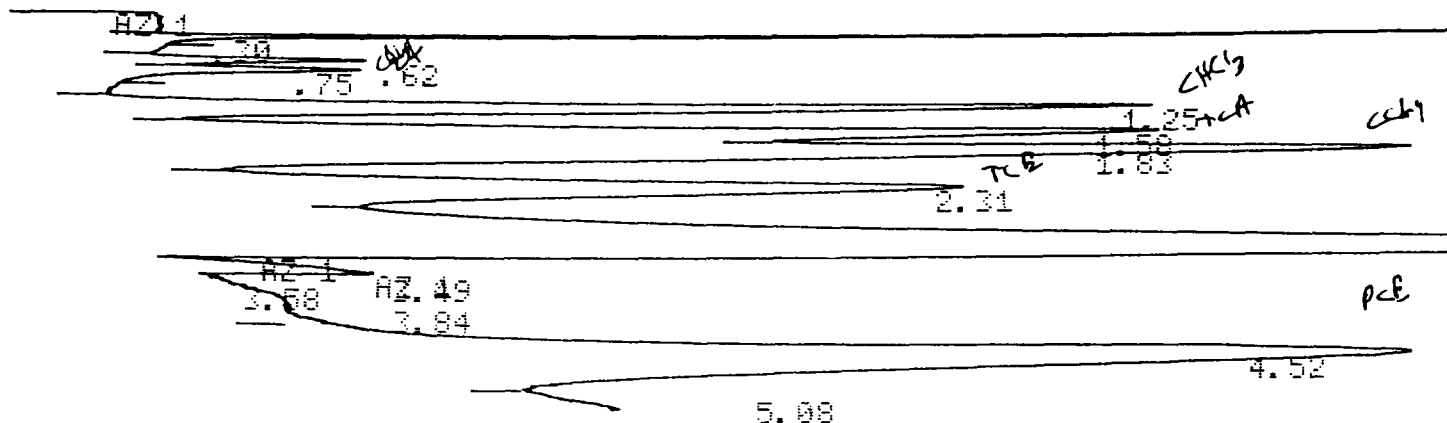
PEAK#	AREA%	RT	AREA BC
-------	-------	----	---------

TUT 003 1220

2	0.100	0.3	65263	01
3	0.942	0.62	18578	02
4	1.196	0.74	23589	03
5	8.576	1.25	169186	02
6	11.226	1.58	221468	02
7	17.225	1.83	339799	02
8	10.968	2.31	216371	02
9	20.202	3.63	398528	03
10	22.993	4.52	453599	02
11	3.314	5.26	65382	03

TOTAL 100. 1972728

CHANNEL A INJECT 11/17/87 07:59:15



GCL 11/17/87 07:59:15 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 3 INDEX 3

PEAK#	AREA%	RT	AREA	BC
1	2.013	0.3	65263	01
2	0.624	0.62	20246	02
3	0.76	0.75	24643	03
4	5.428	1.25	176008	02
5	6.967	1.58	225903	02
6	10.322	1.83	334711	02
7	5.875	2.31	190488	02
8	26.986	3.58	875069	02
9	16.882	3.84	547422	02
10	24.143	4.52	782866	03

TOTAL 100. 3242619

FI= 1. FE= 1. MN= 0.

PRESS 'ENTER' TO SKIP ENTRY

FILE NAME=" GCL

TIME	FUNCTION	VALUE
TT= .01	TF=" AZ	TV= 1
TT= .01	TF=" PM	TV= 1
TT= 3.2	TF=" AZ	TV= 1
TT= 3.70	TF=" AZ	TV= 1
TT= 5.5	TF=" ER	TV= 1

METHOD NUMBER:MN=

END OF DIALOG

AT= 16

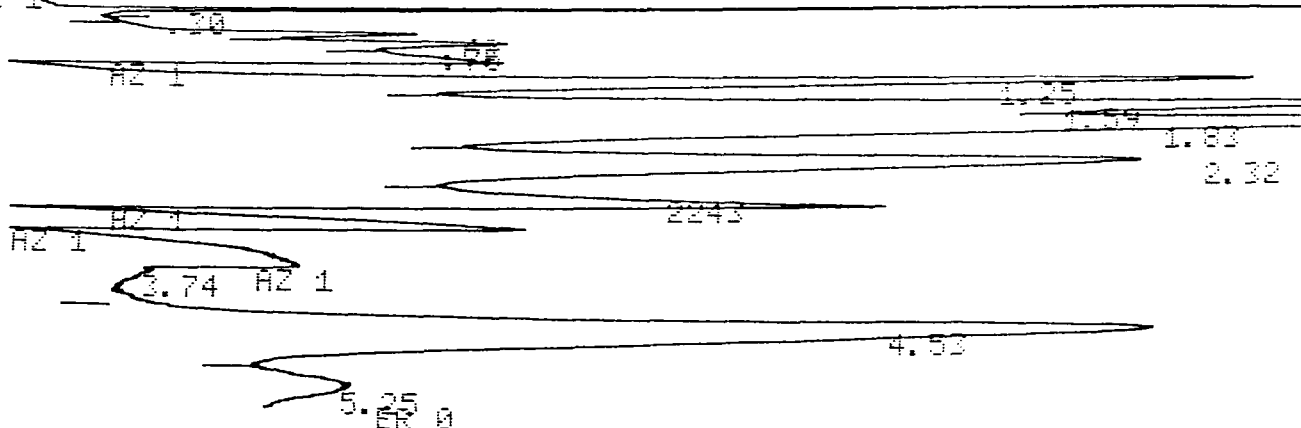
PT=250

CF=10

TUT 003 1221

CHANNEL A INJECT 11/17/87 08:09:24

H2 1



GCL 11/17/87 08:09:24 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 4 INDEX 4

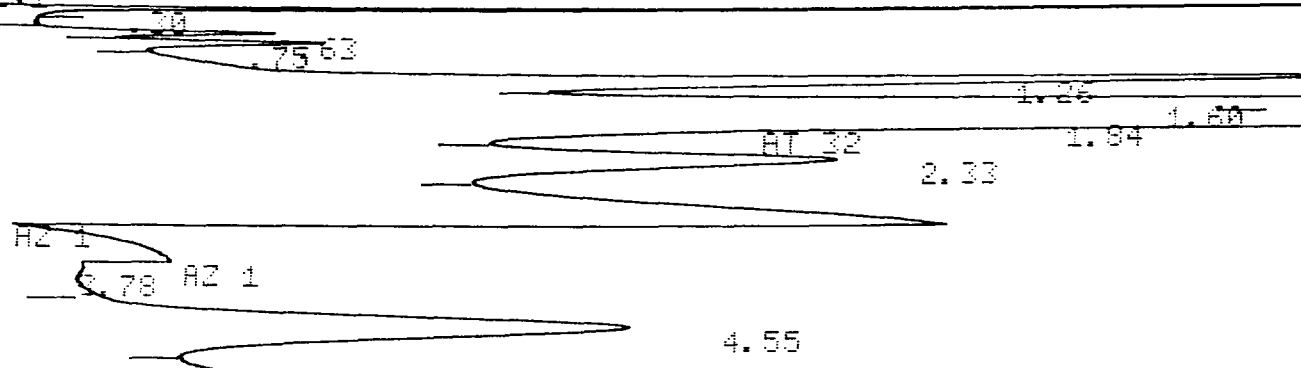
PEAK#	AREA%	RT	AREA BC
1	1.683	0.3	62115 01
2	0.6	0.63	22134 02
3	0.943	0.75	34821 02
4	9.985	1.25	368555 02
5	10.404	1.59	384013 02
6	13.406	1.83	494836 02
7	7.432	2.32	274322 02
8	30.949	3.74	1142365 02
9	21.69	4.53	800608 02
10	2.91	5.25	107399 03

TOTAL 100. 3691168

old SM.

CHANNEL A INJECT 11/17/87 08:19:30

H2 1



GCL 11/17/87 08:19:30 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 5 INDEX 5

PEAK#	AREA%	RT	AREA BC
1	2.499	0.3	72210 01
2	0.611	0.63	17658 02
3	0.726	0.75	20990 02
4	6.87	1.26	198537 02
5	9.786	1.6	282793 02
6	16.461	1.84	475683 02
7	10.384	2.33	300065 02

✓

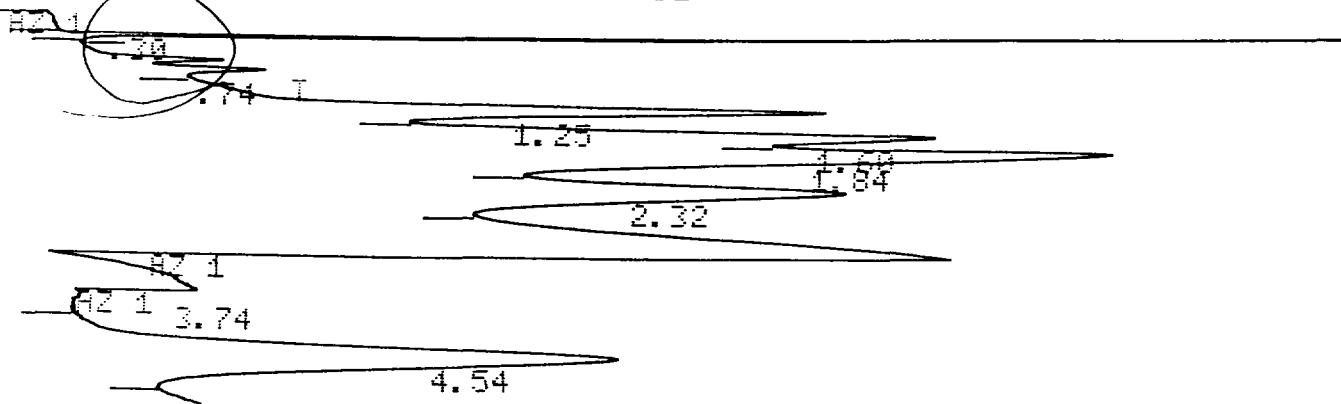
TUT 003 1222

TOTAL 100. 2889752

AT= 32

5d SH.

CHANNEL A INJECT 11/17/87 08:29:31



GCL 11/17/87 08:29:31 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 6 INDEX 6

PEAK#	AREA%	RT	AREA BC
1	2.643	0.3	82339 01
2	1.079	0.74	33597 02-
3	8.667	1.25	269985 02
4	10.589	1.6	329861 02
5	16.622	1.84	517802 02
6	9.496	2.32	295824 02
7	28.021	3.74	872880 02
8	22.884	4.54	712855 03

TOTAL 100. 3115143

PT EVAL:
PT= 48730.

5d SH

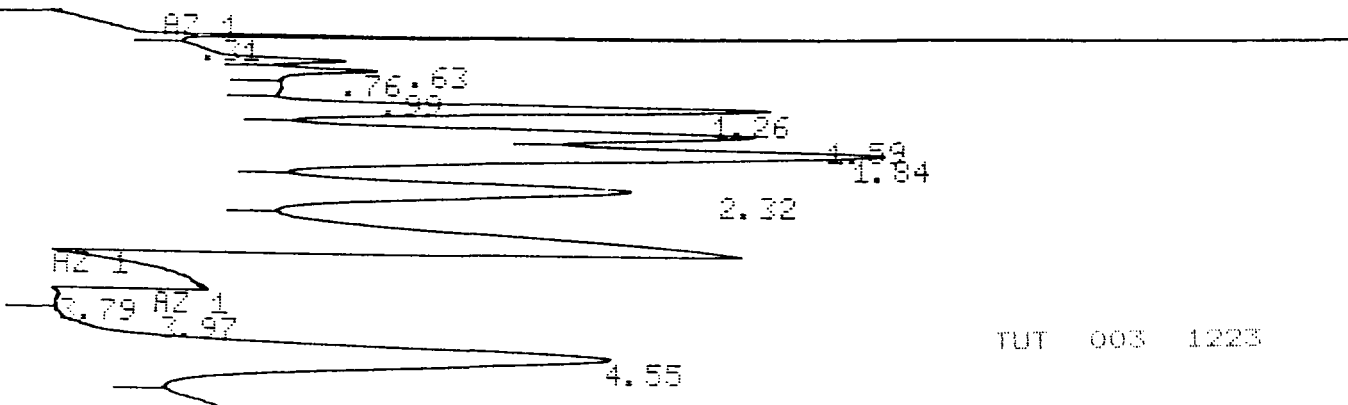
CHANNEL A INJECT 11/17/87 08:39:05



PT EVAL:
PT= 405.
PT=100

5d SH.

CHANNEL A INJECT 11/17/87 08:51:34



TUT 003 1223

GCL 11/17/87 08:51:34 CH= "A" PS= 1.

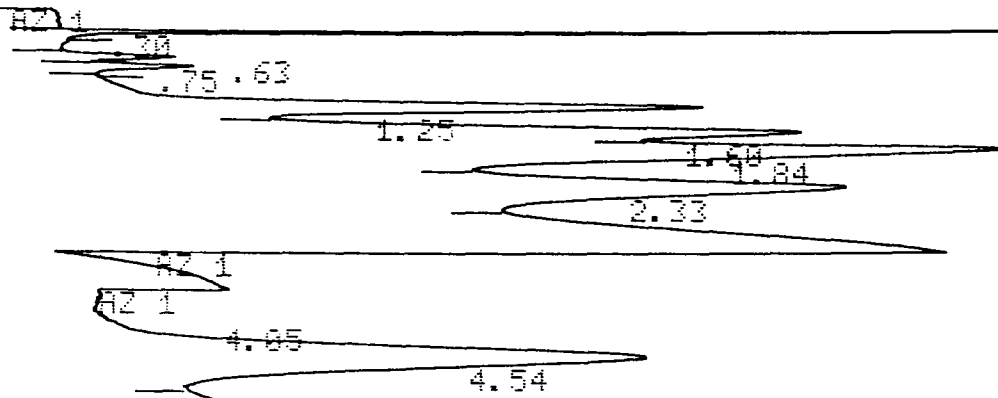
FILE 1. METHOD 0. RUN 7 INDEX 7

PEAK#	AREA%	RT	AREA BC
1	3.42	0.31	120082 02
2	3.348	0.63	117563 02
3	2.869	0.76	100738 02
4	2.435	0.99	85506 02
5	7.741	1.26	271809 02
6	8.137	1.59	285734 02
7	11.572	1.84	406354 02
8	6.863	2.32	240991 02
9	24.472	3.79	859326 02
10	1.394	3.97	48937 02
11	25.388	4.55	891492 02
12	1.991	5.28	69931 02
13	0.33	5.33	11602 02
14	0.041	5.44	1450 03

TOTAL 100. 3511515

PT EVAL:
PT= 464.

CHANNEL A INJECT 11/17/87 09:01:36



GCL 11/17/87 09:01:36 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 8 INDEX 8

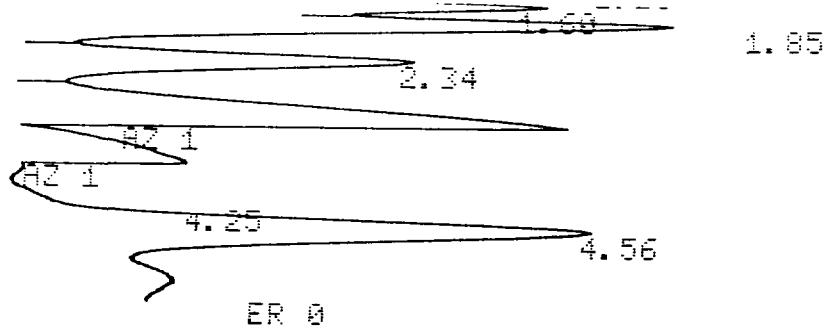
PEAK#	AREA%	RT	AREA BC
1	2.784	0.3	77298 01
2	0.663	0.63	18398 02
3	0.773	0.75	21452 03
4	5.875	1.25	163106 02
5	8.925	1.6	247777 02
6	15.179	1.84	421382 02
7	10.278	2.33	285342 02
8	30.492	4.05	846499 02
9	25.03	4.54	694861 03

TOTAL 100. 2776115

CHANNEL A INJECT 11/17/87 09:15:39

TUT 003 1224





GCL 11/17/87 09:15:39 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 9 INDEX 9

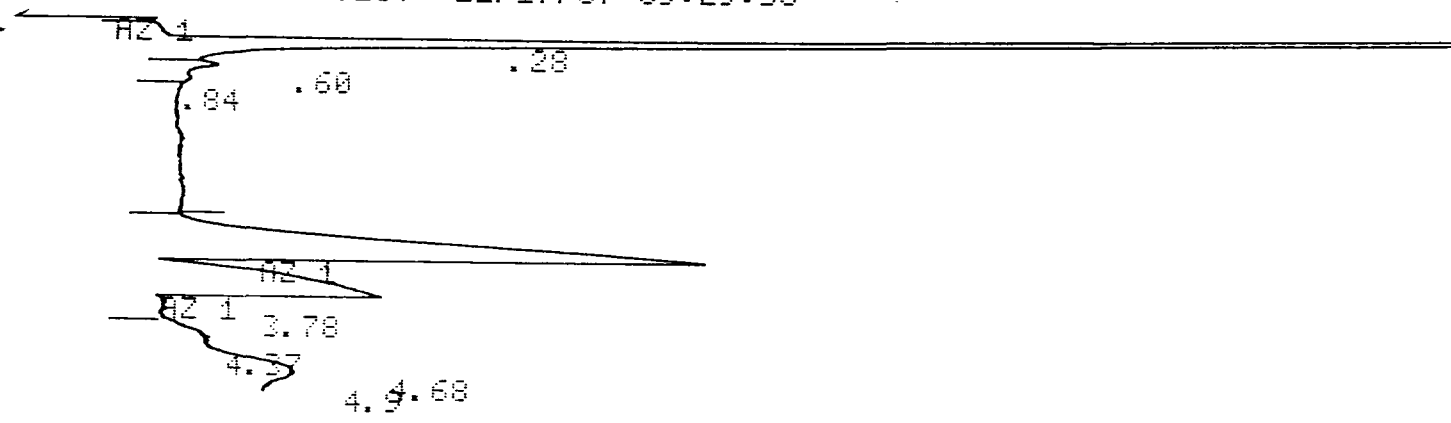
PEAK#	AREA%	RT	AREA	BC
1	2.319	0.3	72924	01
2	0.614	0.63	19298	02
3	0.776	0.76	24385	03
4	5.62	1.26	176687	02
5	7.48	1.6	235197	02
6	11.138	1.85	350208	02
7	6.708	2.34	210914	02
8	37.04	4.25	1164583	02
9	28.305	4.56	889967	03

TOTAL 100. 3144163

PT=250

N2 Blank

CHANNEL A INJECT 11/17/87 09:29:35



GCL 11/17/87 09:29:35 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 10 INDEX 10

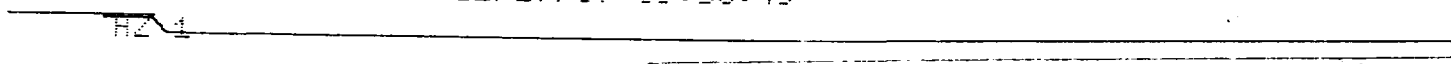
PEAK#	AREA%	RT	AREA	BC
1	53.019	0.28	1389284	02
2	1.129	0.6	29579	02
3	1.588	0.84	41604	03
4	31.972	3.78	837782	02
5	7.239	4.37	189690	02
6	5.053	4.68	132413	03

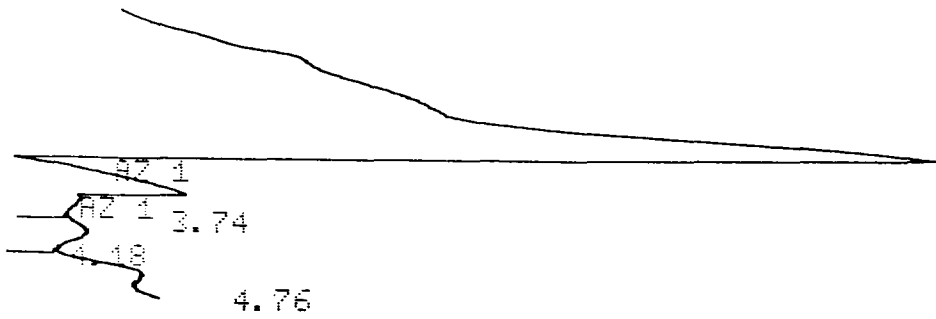
TOTAL 100. 2620352

Am Sample

09:38:01
CHANNEL A INJECT 11/17/87 09:38:49

TOT 003 1225





GCL 11/17/87 09:38:49 CH= "A" PS= 1.

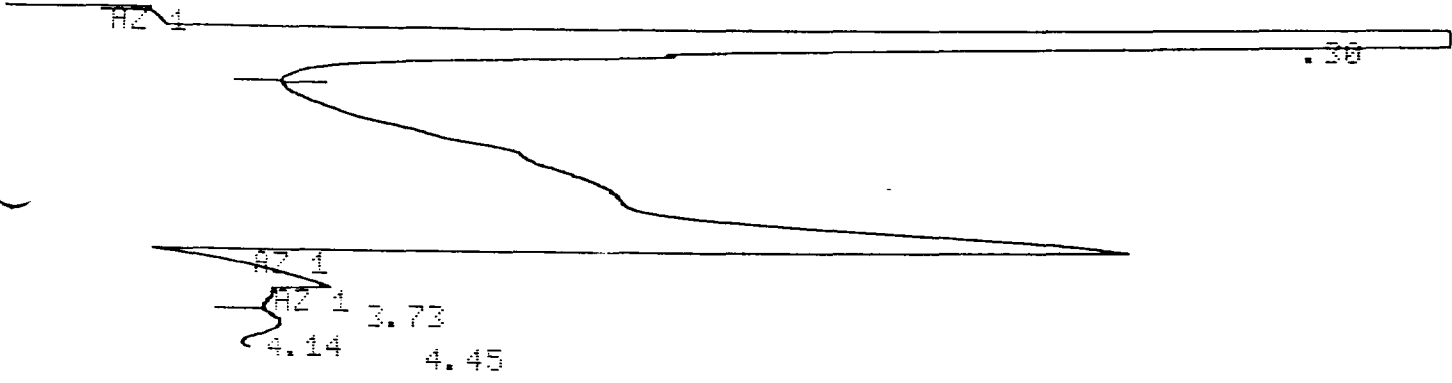
FILE 1. METHOD 0. RUN 11 INDEX 11

PEAK#	AREAX	RT	AREA	BC
1	94.892	0.3	12639979	02
2	3.484	3.74	464101	02
3	1.206	4.18	160591	02
4	0.419	4.76	55768	03

TOTAL 100. 13320439

System Blank

CHANNEL A INJECT 11/17/87 09:48:21



GCL 11/17/87 09:48:21 CH= "A" PS= 1.

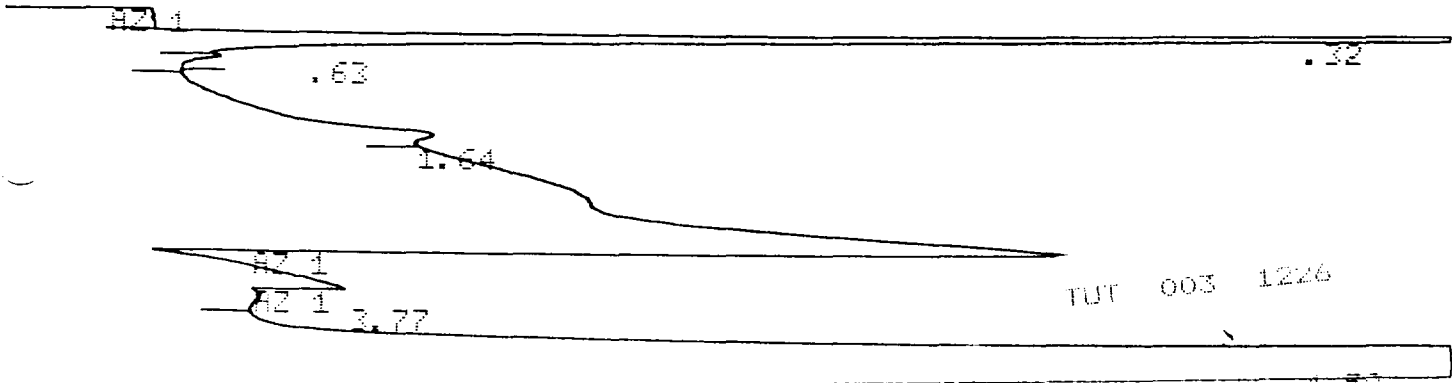
FILE 1. METHOD 0. RUN 12 INDEX 12

PEAK#	AREAX	RT	AREA	BC
1	98.093	0.3	12816220	01
2	1.107	3.73	144694	02
3	0.799	4.14	104409	03

TOTAL 100. 13065323

06-H-9-3

CHANNEL A INJECT 11/17/87 09:57:18



TUT 003 1226

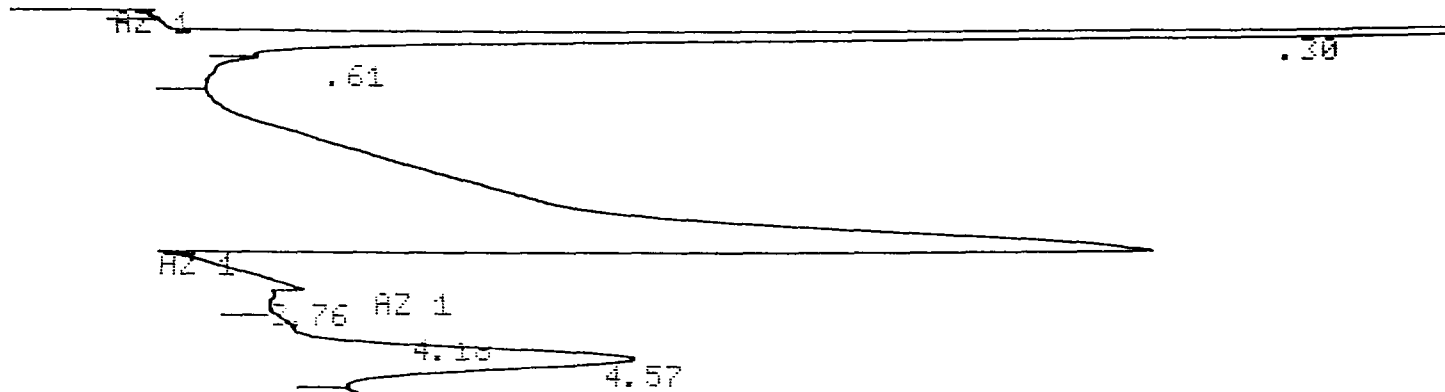
GCL 11/17/87 09:57:18 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 13 INDEX 13

PEAK#	AREA%	RT	AREA BC
1	44.031	0.32	3862266 02
2	0.134	0.63	11738 03
3	0.067	3.77	777788 02
4	46.969	4.58	4119992 03
TOTAL	100.		8771784

56-H-01-3
102 1/100

CHANNEL A INJECT 11/17/87 10:09:05



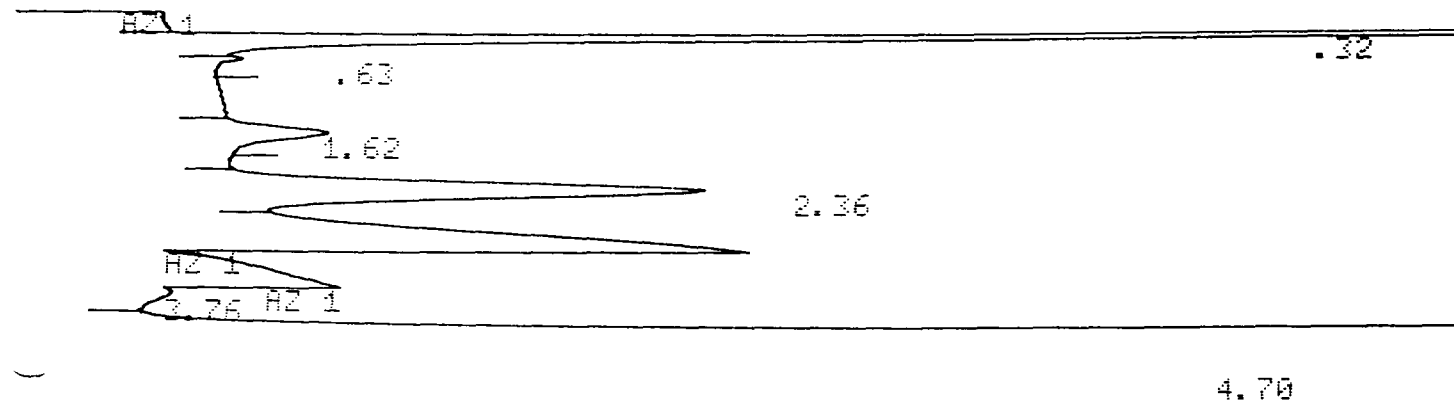
GCL 11/17/87 10:09:05 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 14 INDEX 14

PEAK#	AREA%	RT	AREA BC
1	86.576	0.3	6223203 02
2	0.42	0.61	30194 02
3	5.623	3.76	404206 02
4	1.677	4.18	120570 02
5	5.704	4.57	410000 03
TOTAL	100.		7188173

56-H-02-35
1001

10:23:24
CHANNEL A INJECT 11/17/87 10:24:32



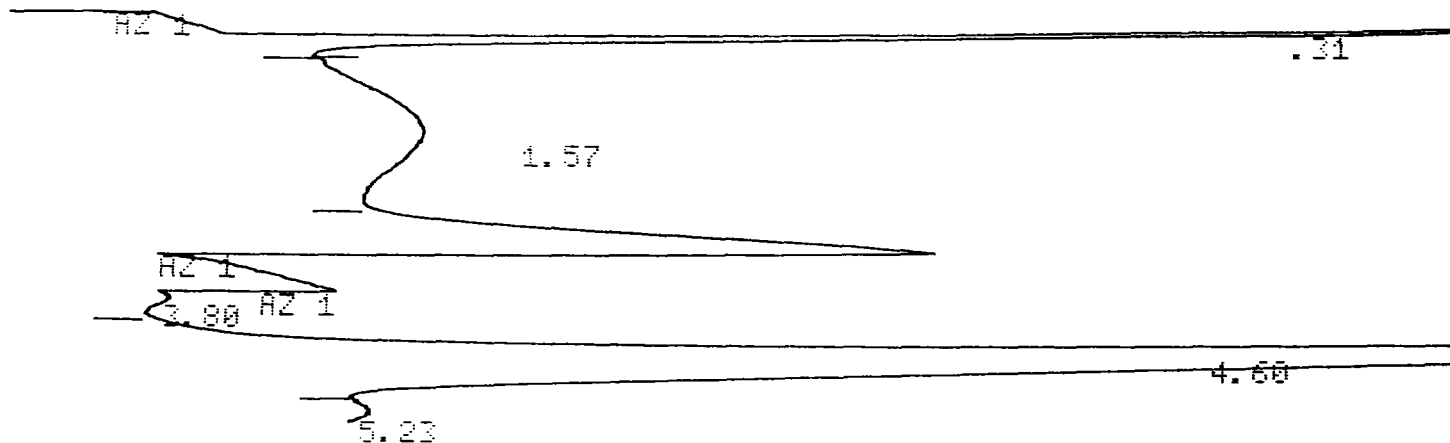
GCL 11/17/87 10:24:32 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 15 INDEX 15

PEAK#	AREA%	RT	AREA	BC
1	4.975	0.32	3628621	02
2	0.02	0.63	14361	03
3	0.07	1.62	51011	01
4	0.378	2.36	275816	02
5	0.679	3.76	494925	02
6	93.879	4.7	68471944	03
TOTAL	100.		72936678	

50-H-02-351
22 1/3

CHANNEL A INJECT 11/17/87 10:36:03



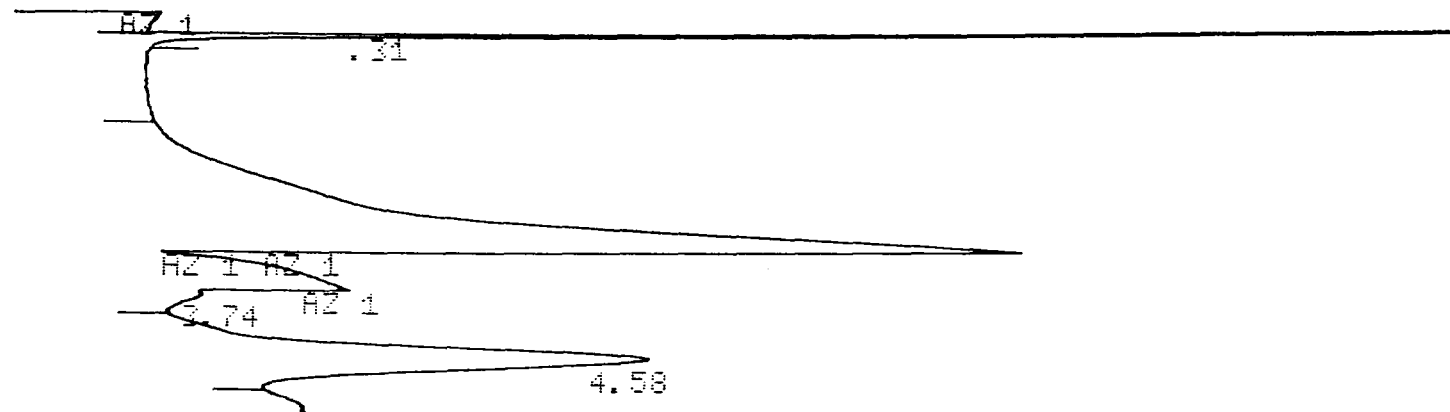
GCL 11/17/87 10:36:03 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 16 INDEX 16

PEAK#	AREA%	RT	AREA	BC
1	35.424	0.31	1910275	01
2	4.696	1.57	253213	02
3	20.306	3.8	1094999	02
4	38.706	4.6	2087280	02
5	0.869	5.23	46853	03
TOTAL	100.		5392620	

50-H-02-351
0.52 1/3

CHANNEL A INJECT 11/17/87 10:44:59



GCL 11/17/87 10:44:59 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 17 INDEX 17

PEAK#	AREA%	RT	AREA	BC
1	35.424	0.31	1910275	01
2	4.696	1.57	253213	02
3	20.306	3.8	1094999	02
4	38.706	4.6	2087280	02
5	0.869	5.23	46853	03
TOTAL	100.		5392620	

TUT 003 1228

3 47.567 4.58 693196 03

TOTAL 100. 1457312

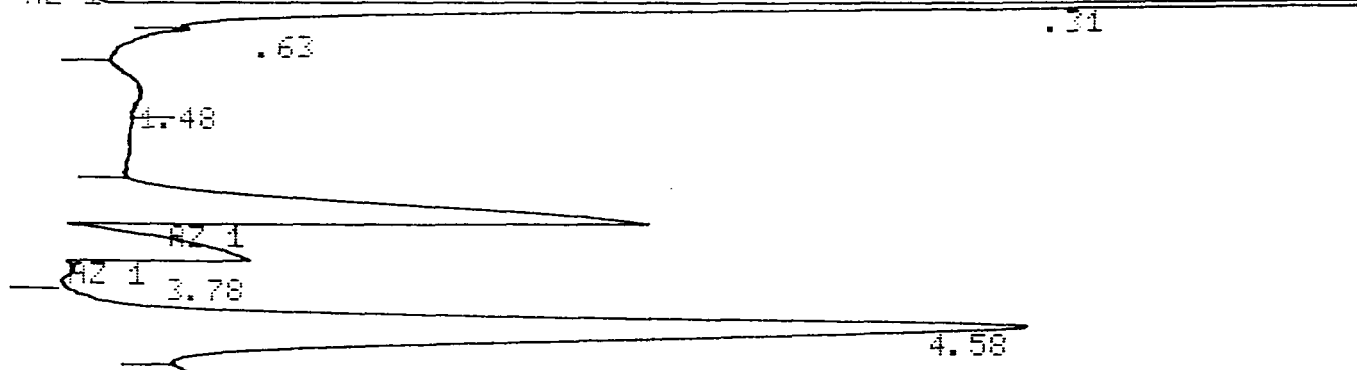
56-H-03-4
100%

10:56:34

CHANNEL A

INJECT 11/17/87 10:57:29

AZ 1



GCL 11/17/87 10:57:29 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 18 INDEX 18

PEAK#	AREAX	RT	AREA	BC
1	64.785	0.31	3869676	02
2	0.803	0.63	47986	02
3	0.479	1.48	28590	03
4	15.621	3.78	933047	02
5	18.313	4.58	1093851	03

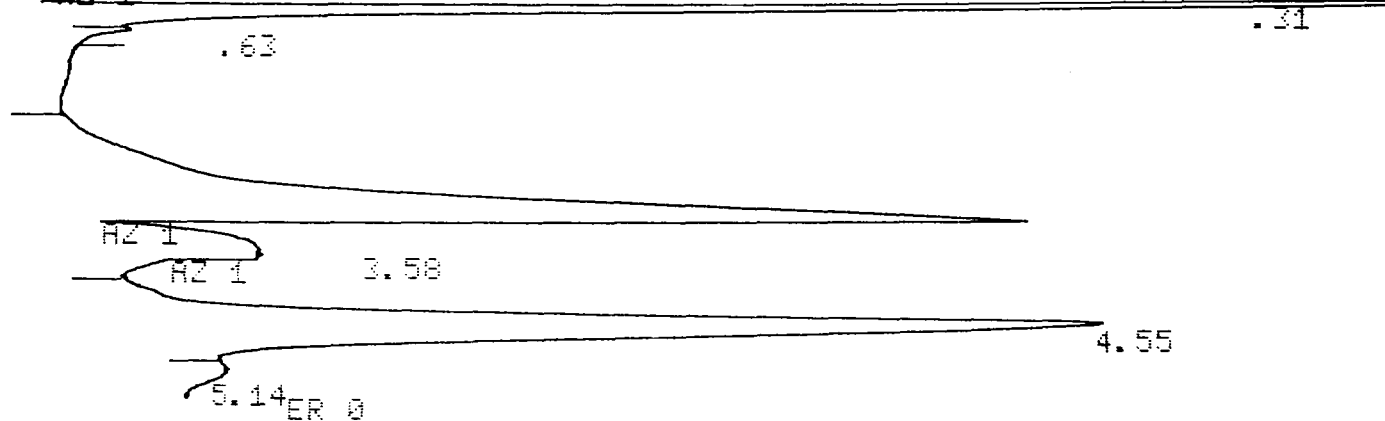
TOTAL 100. 5973150

56-H-03-4
100%

CHANNEL A

INJECT 11/17/87 11:06:06

AZ 1



GCL 11/17/87 11:06:06 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 19 INDEX 19

PEAK#	AREAX	RT	AREA	BC
1	56.161	0.31	3709478	02
2	0.19	0.63	12569	03
3	17.682	3.58	1167901	02
4	24.149	4.55	1595057	02
5	1.818	5.14	120104	03

TOT 003 1229

TOTAL

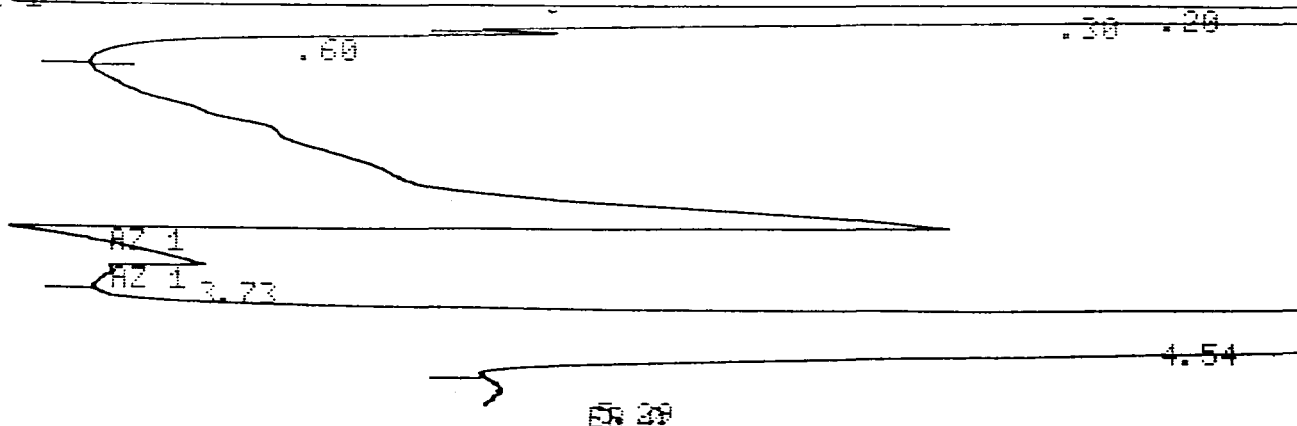
100

5973150

56-H-03-4
100%

CHANNEL A INJECT 11/17/87 11:16:08

AZ 1



GCL 11/17/87 11:16:08 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 20 INDEX 20

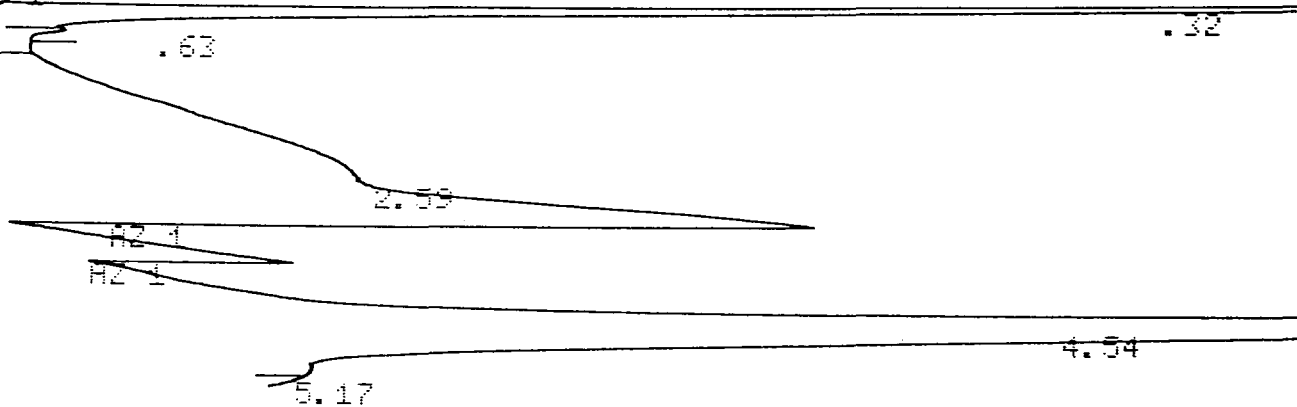
PEAK#	AREAZ	RT	AREA BC
1	0.001	0.2	246 02
2	57.466	0.3	12000299 02
3	0.725	0.6	151415 03
4	41.619	4.54	8691053 02
5	0.189	5.29	39521 03

TOTAL 100. 20882534

SC-H-04-35'
100d

11:32:17
CHANNEL A INJECT 11/17/87 11:36:39

AZ 1



GCL 11/17/87 11:36:39 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 21 INDEX 21

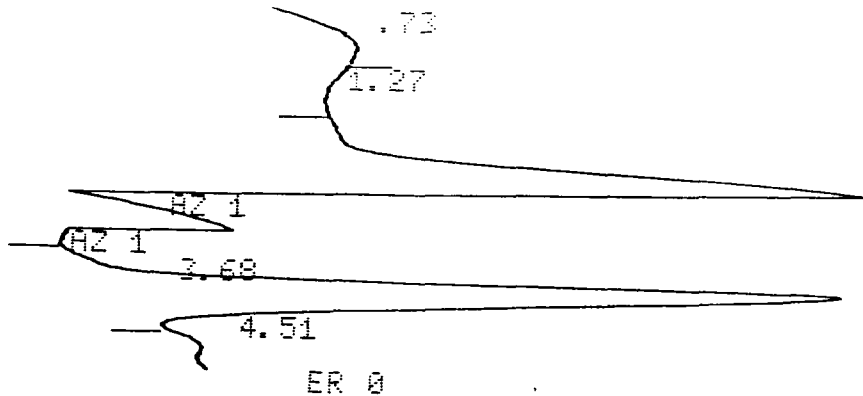
PEAK#	AREAZ	RT	AREA BC
1	54.5	0.32	3831217 02
2	0.126	0.63	8855 03
3	0.565	2.59	39721 02
4	44.696	4.54	3142020 02
5	0.114	5.17	8002 03

TOTAL 100. 7029815

SC-H-04-35'
50d

CHANNEL A INJECT 11/17/87 11:47:37

TUT 003 1230



GCL 11/17/87 11:47:37 CH= "A" PS= 1.

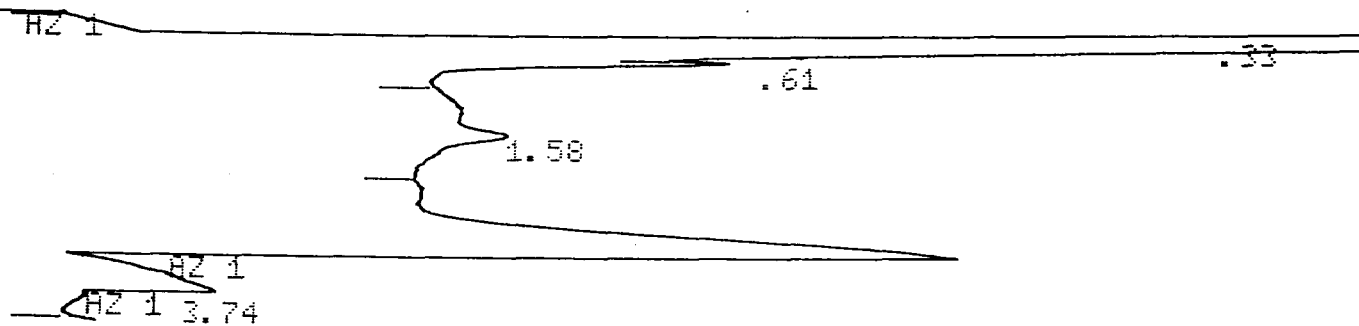
FILE 1. METHOD 0. RUN 22 INDEX 22

PEAK#	AREA%	RT	AREA	BC
1	52.404	0.31	1884282	01
2	0.117	0.73	4208	02
3	1.99	1.27	71562	03
4	15.847	3.68	569802	02
5	28.682	4.51	1031323	02
6	0.959	5.42	34479	03

TOTAL 100. 3595656

56-H-04-351
1000L

CHANNEL A INJECT 11/17/87 11:59:07



GCL 11/17/87 11:59:07 CH= "A" PS= 1.

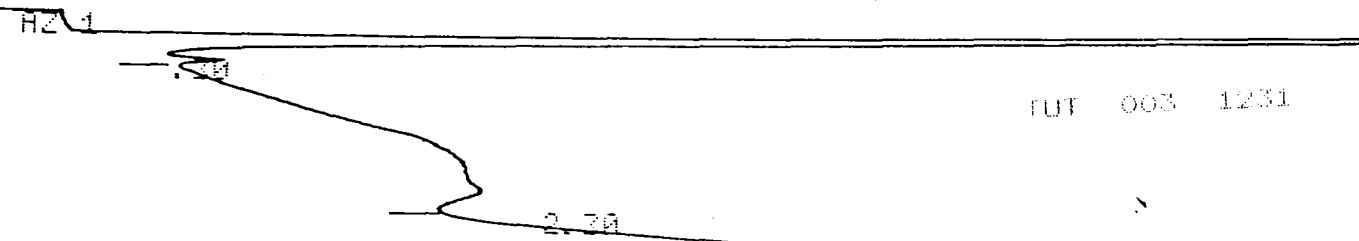
FILE 1. METHOD 0. RUN 23 INDEX 23

PEAK#	AREA%	RT	AREA	BC
1	93.002	0.33	11709769	02
2	2.074	0.61	261135	02
3	3.724	1.58	468903	02
4	1.2	3.74	151065	03

TOTAL 100. 12590872

56-H-05-4'
ml

12:10:52
CHANNEL A INJECT 11/17/87 12:15:40



TOT 003 1231

3.71 HZ 1

4.54

ER 0

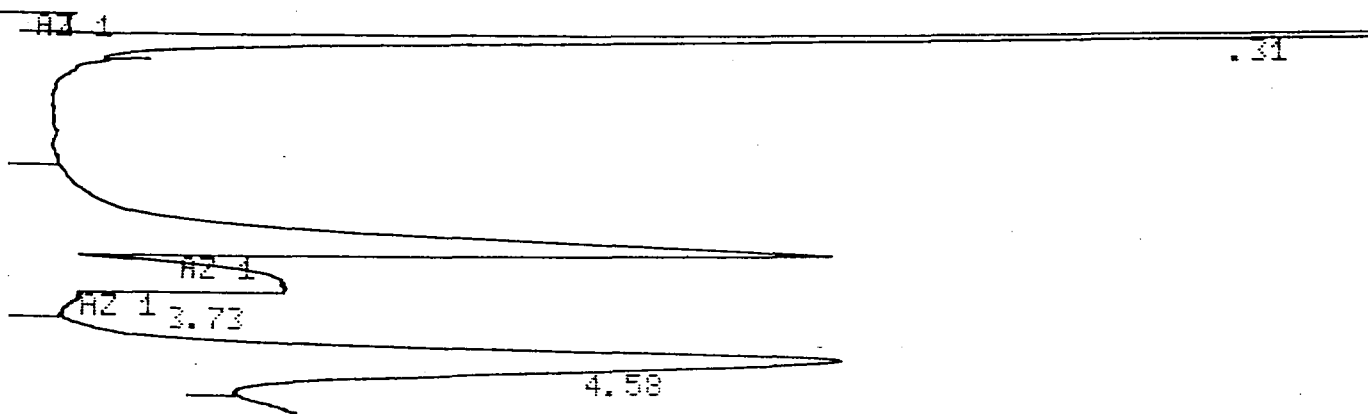
GCL 11/17/87 12:15:40 CH= "R" PS= 1.

FILE 1. METHOD 0. RUN 24 INDEX 24

PEAK#	AREA%	RT	AREA	BC
1	18.823	0.3	3785801	02
2	1.767	2.3	355350	02
3	4.19	3.71	842647	02
4	75.22	4.54	15128780	03
TOTAL	100.		20112578	

56-H-05-4'
52 Y100

CHANNEL A INJECT 11/17/87 12:24:40



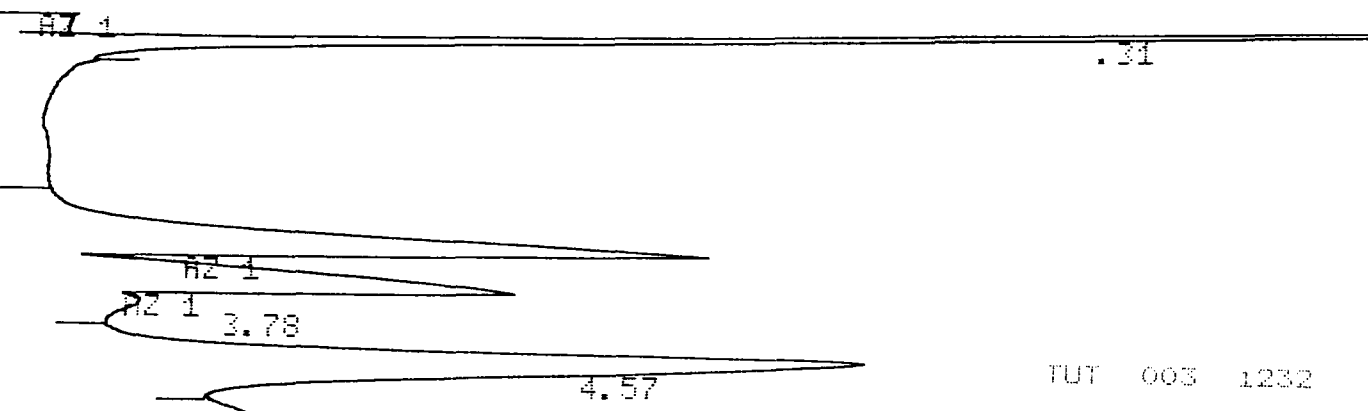
GCL 11/17/87 12:24:40 CH= "R" PS= 1.

FILE 1. METHOD 0. RUN 25 INDEX 25

PEAK#	AREA%	RT	AREA	BC
1	71.457	0.31	3737262	01
2	11.545	3.73	603808	02
3	16.998	4.58	889032	03
TOTAL	100.		5230102	

06-H-05-4'
52 Y100

CHANNEL A INJECT 11/17/87 12:32:49



TUT 003 1232

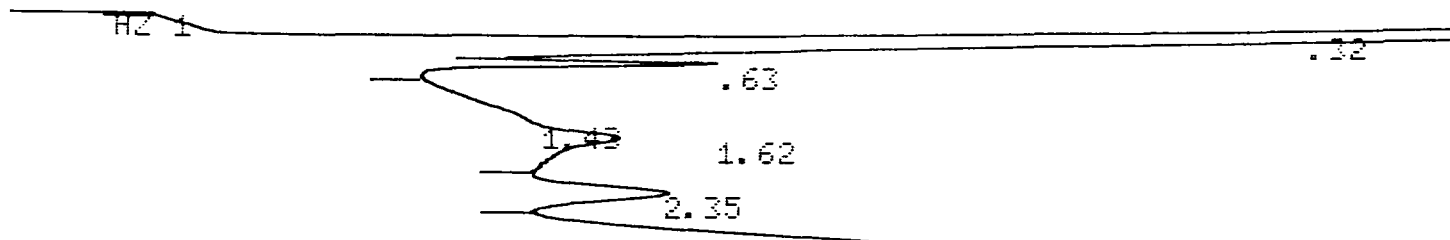
FILE 1. METHOD 0. RUN 26 INDEX 26

PEAK#	AREA%	RT	AREA BC
1	59.709	0.31	2986774 01
2	20.026	3.78	1001738 02
3	20.265	4.57	1013717 03

TOTAL 100. 5002229

.B FAULT 40: AT 2600

CHANNEL A INJECT 11/17/87 12:43:31



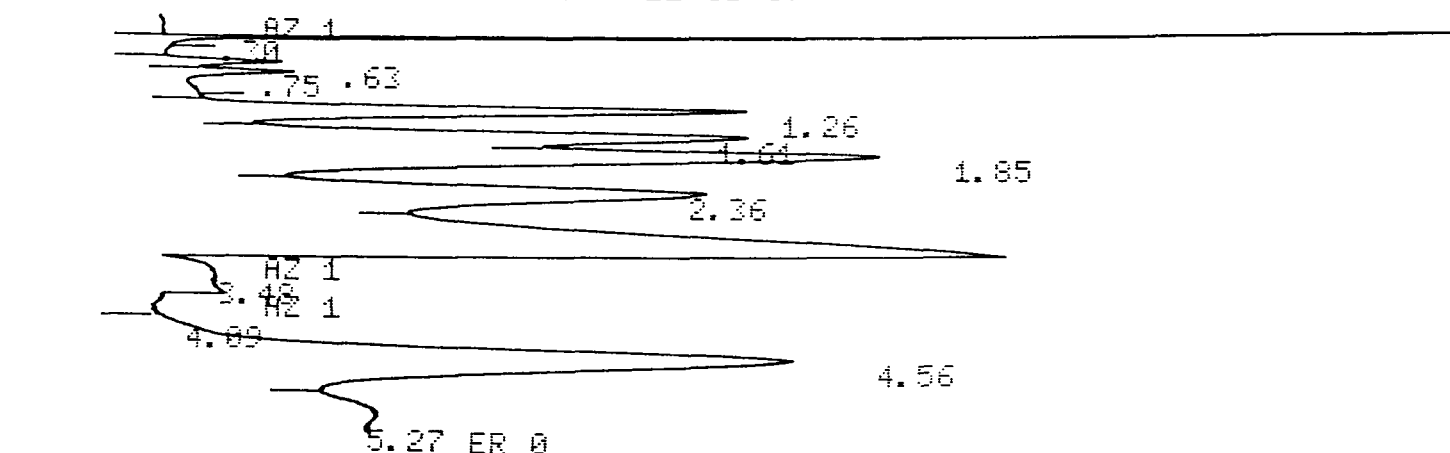
GCL 11/17/87 12:43:31 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 27 INDEX 27

PEAK#	AREA%	RT	AREA BC
1	90.31	0.32	7882673 02
2	1.994	0.63	174044 02
3	2.97	1.43	259258 02
4	3.155	1.62	275361 02
5	1.571	2.35	137138 03

TOTAL 100. 8728474

CHANNEL A INJECT 11/17/87 12:53:07



GCL 11/17/87 12:53:07 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 28 INDEX 28

PEAK#	AREA%	RT	AREA BC
1	2.515	0.3	77881 01
2	0.663	0.63	20535 02
3	0.745	0.75	23074 03
4	6.025	1.26	186565 02

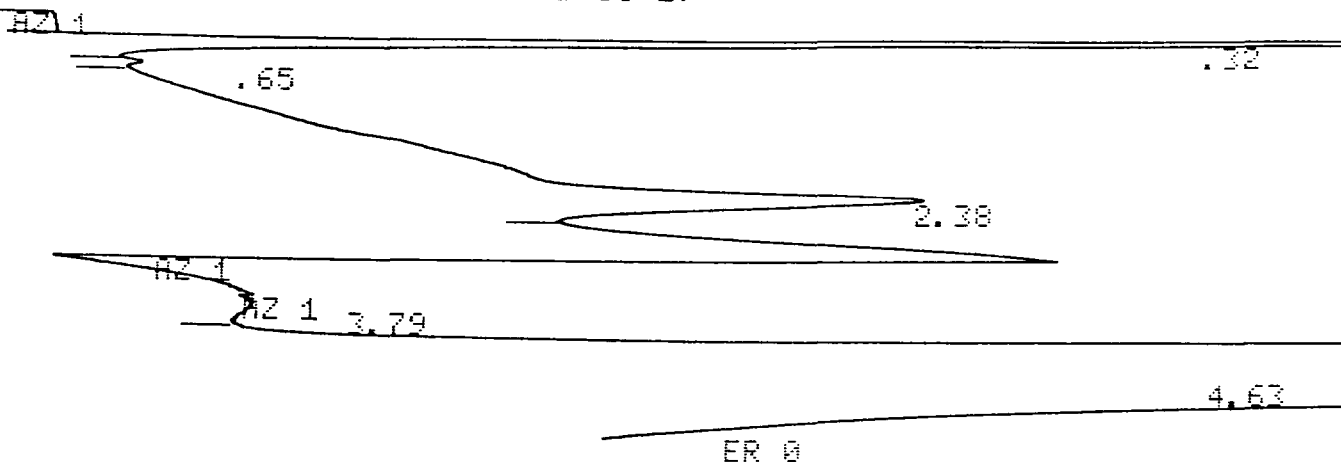
TUT 003 1233

7	6.582	2.36	203799	02
8	32.936	3.48	1019834	02
9	2.058	4.09	63719	02
10	27.046	4.56	837455	02
11	2.989	5.27	92564	03

TOTAL 100. 3096384

56-H-06-4.5'
1ml

13:00:28
CHANNEL A INJECT 11/17/87 13:05:17



GCL 11/17/87 13:05:17 CH= "A" PS= 1.

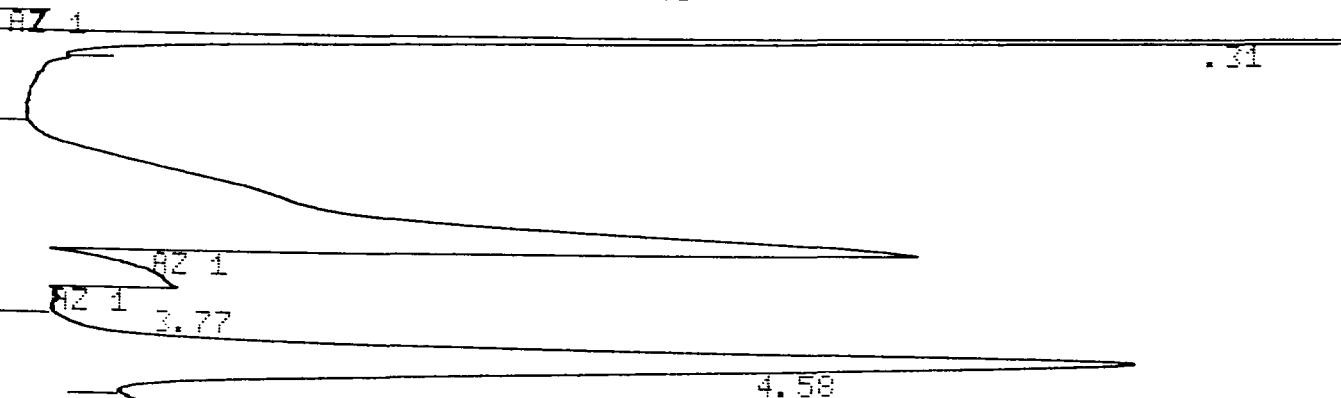
FILE 1. METHOD 0. RUN 29 INDEX 29

PEAK#	AREA%	RT	AREA	BC
1	0.053	0.32	3474342	02
2	0.014	0.65	5836	02
3	1.089	2.38	469963	02
4	1.967	3.79	848444	02
5	88.878	4.63	38346262	03

TOTAL 100. 43144847

56-H-06-4.5'
3ml K₁₀

CHANNEL A INJECT 11/17/87 13:14:48



GCL 11/17/87 13:14:48 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 30 INDEX 30

PEAK#	AREA%	RT	AREA	BC
1	57.866	0.31	2874653	01
2	16.515	3.77	820453	02
3	25.619	4.58	1072492	03

TOT 003 1234

4.5'

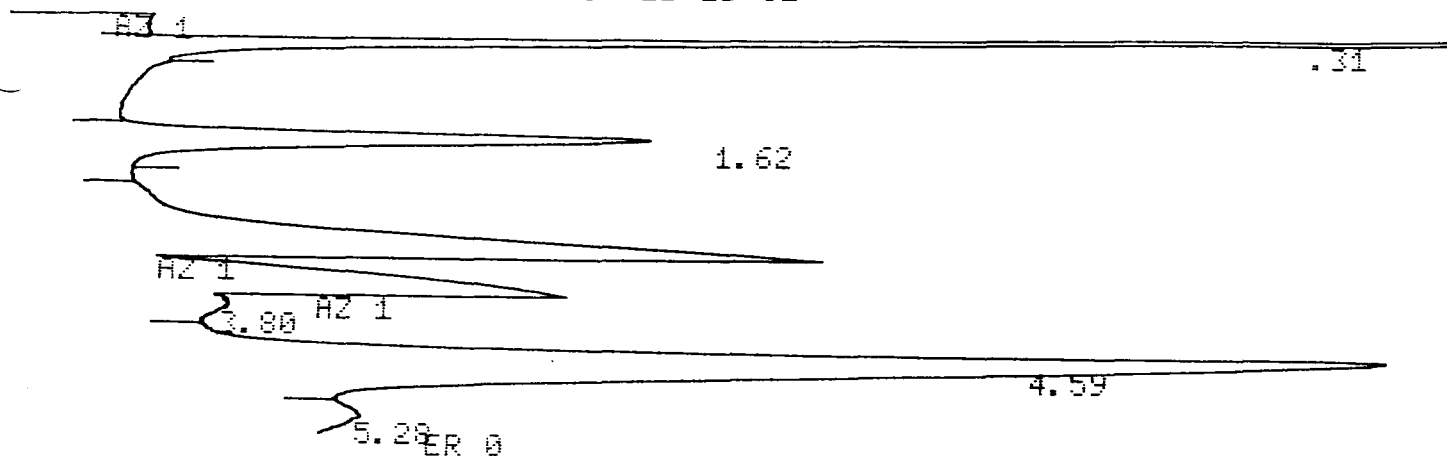
TOTAL 100.

4967802

50

300

CHANNEL A INJECT 11/17/87 13:23:01



GCL 11/17/87 13:23:01 CH= "A" PS= 1.

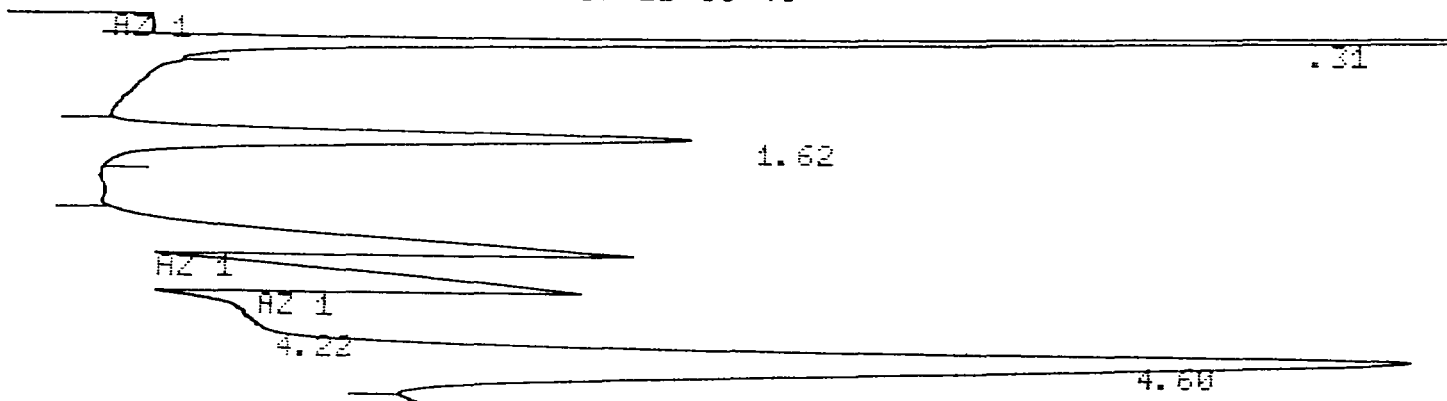
FILE 1. METHOD 0. RUN 31 INDEX 31

PEAK#	AREA%	RT	AREA	BC
1	43.09	0.31	2387132	01
2	4.885	1.62	270623	01
3	19.793	3.8	1096515	02
4	30.555	4.59	1692746	02
5	1.677	5.28	92894	03

TOTAL 100. 5539910

56-H-06-95
3rd 1/100

CHANNEL A INJECT 11/17/87 13:50:46



GCL 11/17/87 13:50:46 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 32 INDEX 32

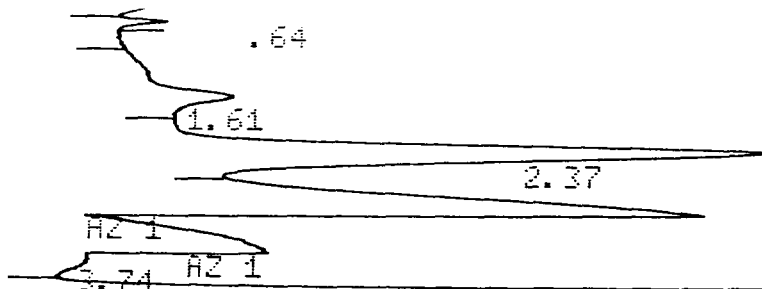
PEAK#	AREA%	RT	AREA	BC
1	56.753	0.31	3339605	01
2	5.147	1.62	302899	01
3	17.593	4.22	1035247	02
4	20.506	4.6	1206666	03

TOTAL 100. 5884417

TUT 003 1235

56-H-07-0
1000

14:21:57
CHANNEL A INJECT 11/17/87 14:22:56



4.57
ER 0

GCL 11/17/87 14:22:56 CH= "A" PS= 1.

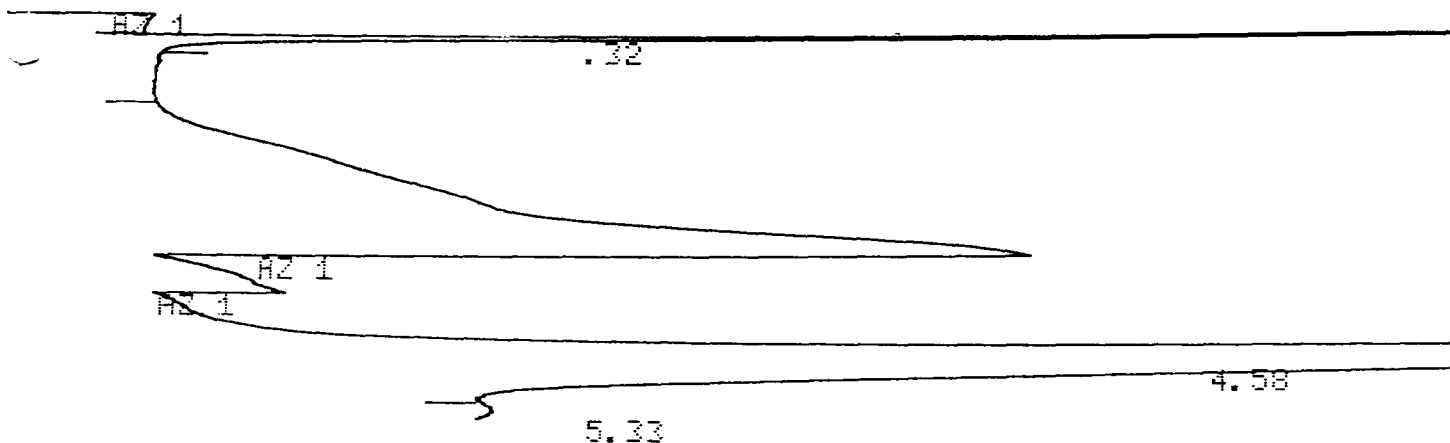
FILE 1. METHOD 0. RUN 33 INDEX 33

PEAK#	AREA%	RT	AREA	BC
1	2.745	0.31	2745241	02
2	0.012	0.64	12355	03
3	0.04	1.61	40499	02
4	0.338	2.37	338023	02
5	0.519	3.74	519126	02
6	96.346	4.57	96365710	03

TOTAL 100. 100020954

56-H-07-5'
0.52 Y₁₀

CHANNEL A INJECT 11/17/87 14:32:47



GCL 11/17/87 14:32:47 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 34 INDEX 34

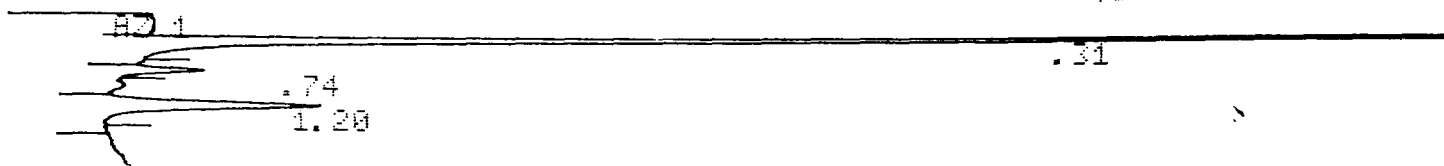
PEAK#	AREA%	RT	AREA	BC
1	19.526	0.32	619759	01
2	80.215	4.58	2546049	02
3	0.259	5.33	8229	03

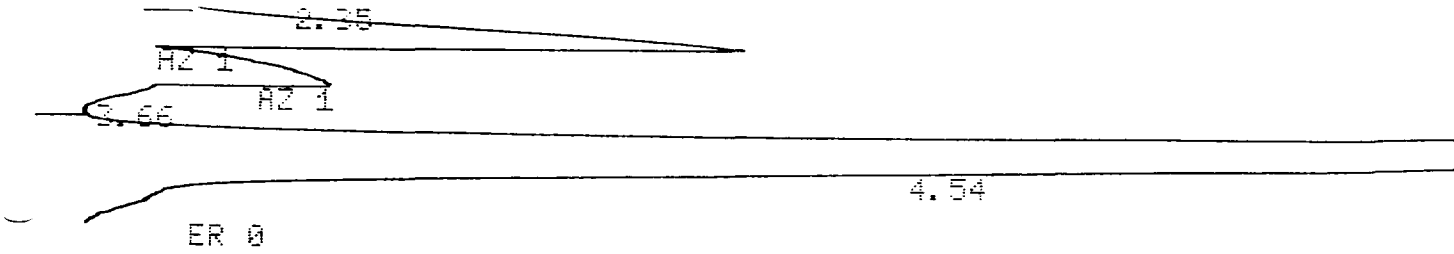
TOTAL 100. 3174037

56-H-08-5'
1002

4:45:04
CHANNEL A INJECT 11/17/87 14:46:21

TUT 003 1236





GCL 11/17/87 14:46:21 CH= "A" PS= 1.

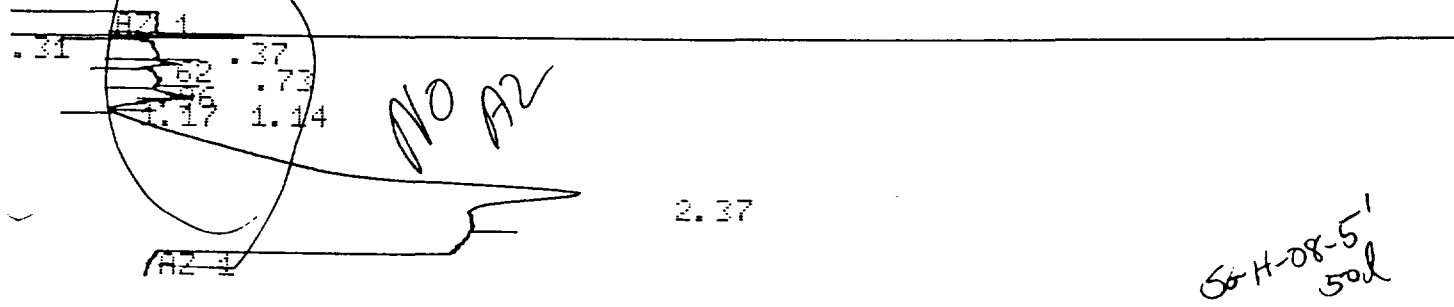
FILE 1. METHOD 0. RUN 35 INDEX 35

PEAK#	AREA%	RT	AREA BC
1	25.043	0.31	1955119 01
2	0.182	0.74	14170 01
3	0.887	1.2	69255 01
4	2.731	2.35	213206 02
5	16.378	3.66	1278610 02
6	54.78	4.54	4276680 03

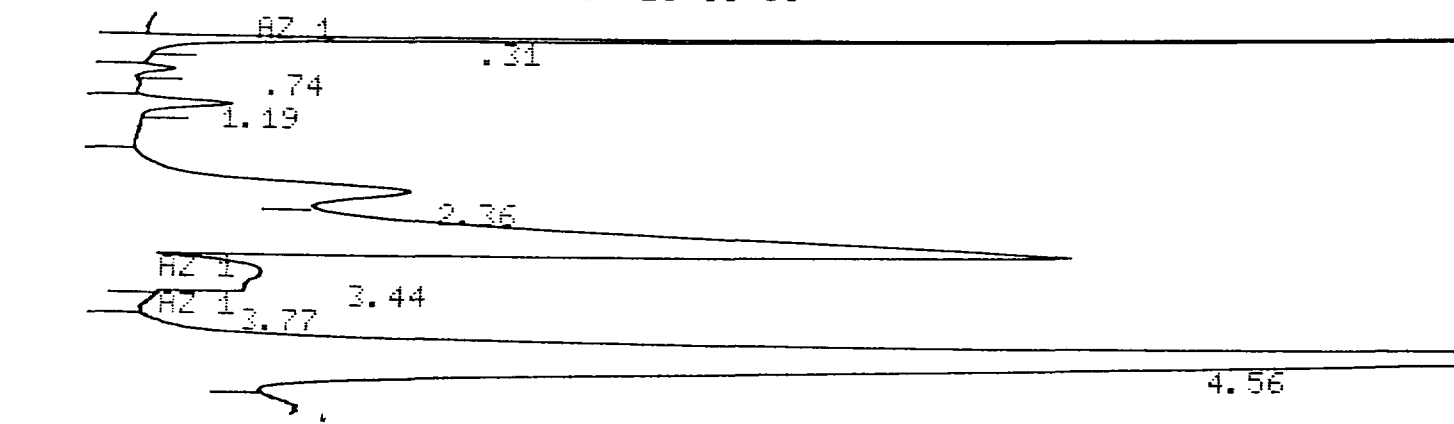
TOTAL 100. 7807040

56-H-08-5'
50d

CHANNEL A INJECT 11/17/87 14:56:23



CHANNEL A INJECT 11/17/87 15:06:55



GCL 11/17/87 15:06:55 CH= "A" PS= 1.

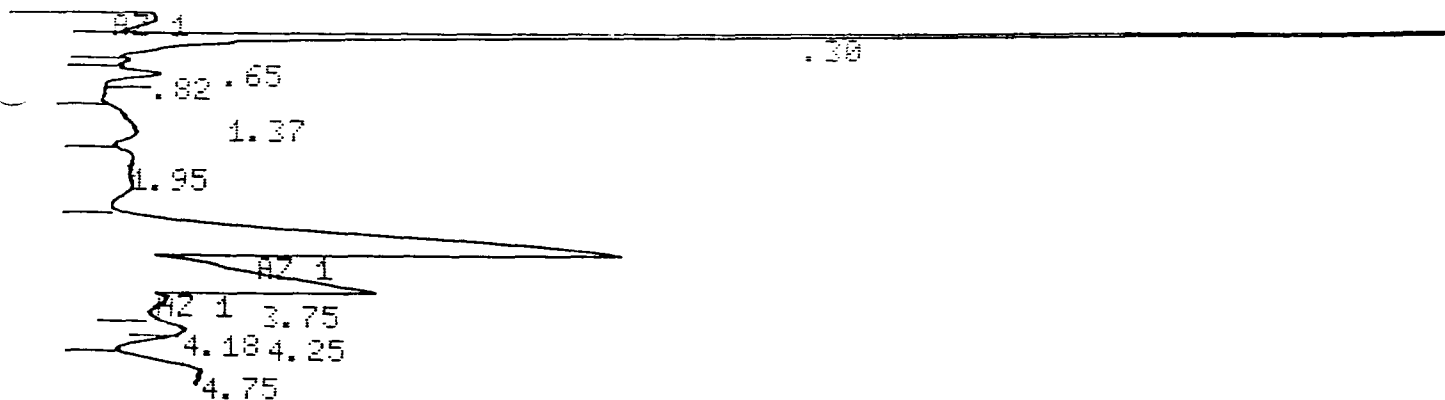
FILE 1. METHOD 0. RUN 36 INDEX 36

PEAK#	AREA%	RT	AREA BC
1	15.232	0.31	584529 01
2	0.161	0.74	6184 01
3	0.774	1.19	29706 01
4	1.33	2.36	51027 02
5	26.824	3.44	1029360 02
6	6.566	3.77	251965 02
7	49.113	4.56	1884681 03

TOT 003 1237

1-09-5.5'
1

15:17:57
 CHANNEL A INJECT 11/17/87 15:19:08



GCL 11/17/87 15:19:08 CH= "A" PS= 1.

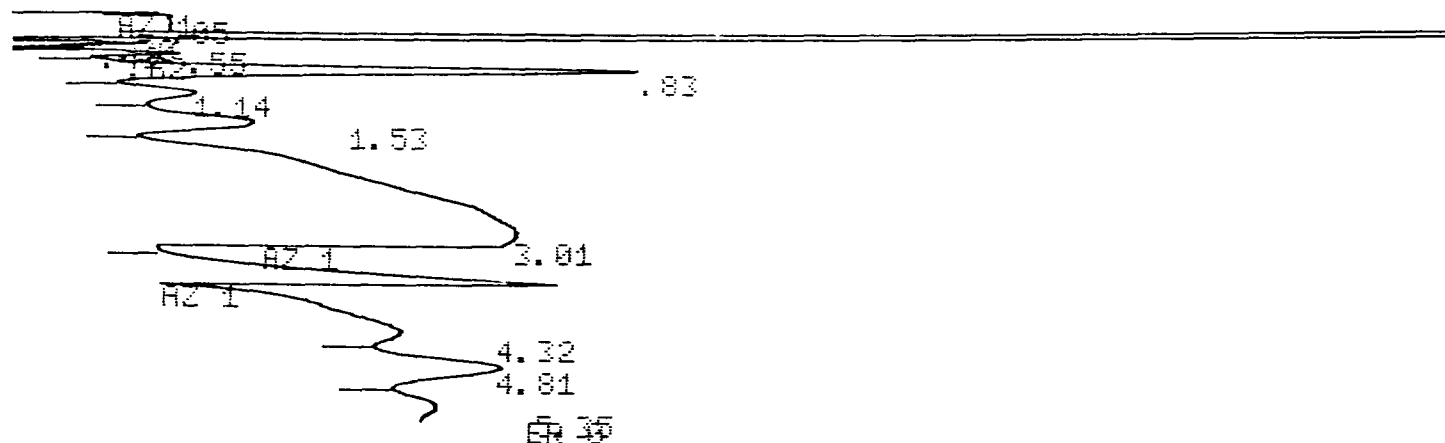
FILE 1. METHOD 0. RUN 37 INDEX 37

PEAK#	AREA%	RT	AREA	BC
1	54.609	0.3	1580829	02
2	0.105	0.65	3034	02
3	0.528	0.82	15280	03
4	0.937	1.37	27131	02
5	1.296	1.95	37508	02
6	34.174	3.75	989286	02
7	3.802	4.18	110074	02
8	2.543	4.25	73623	02
9	2.006	4.75	58063	03

TOTAL 100. 2894828

56-11-07-5.5
1000

CHANNEL A INJECT 11/17/87 15:27:57



INPUT OVERRANGE AT RT= 0.42

GCL 11/17/87 15:27:57 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 38 INDEX 38

PEAK#	AREA%	RT	AREA	BC
1	0.837	0.05	77869	02
2	71.802	0.3	6681868	03
3	0.074	0.42	77869	02

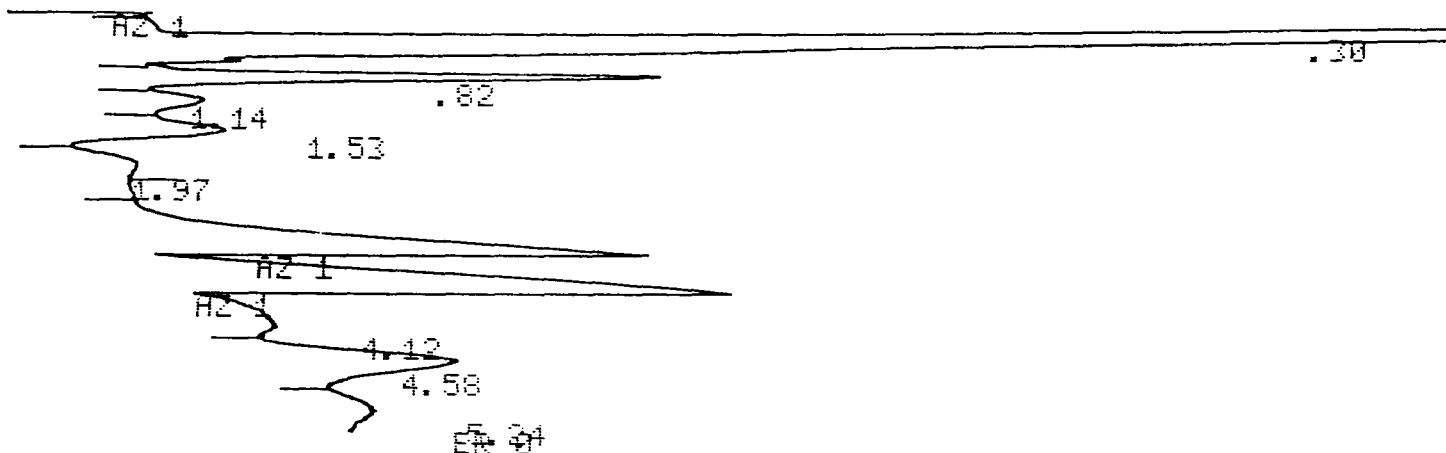
TOT 003 1238

5	1.072	0.62	99782 02
6	3.815	0.83	355015 02
7	1.928	1.14	179403 02
8	1.88	1.53	174954 02
9	4.469	3.01	415917 02
10	8.858	4.32	824278 02
11	3.737	4.81	347758 02
12	0.641	5.35	59612 03

TOTAL 100. 9305939

56-H-09-55
1000V

CHANNEL A INJECT 11/17/87 15:37:47



GCL 11/17/87 15:37:47 CH= "A" PS= 1.

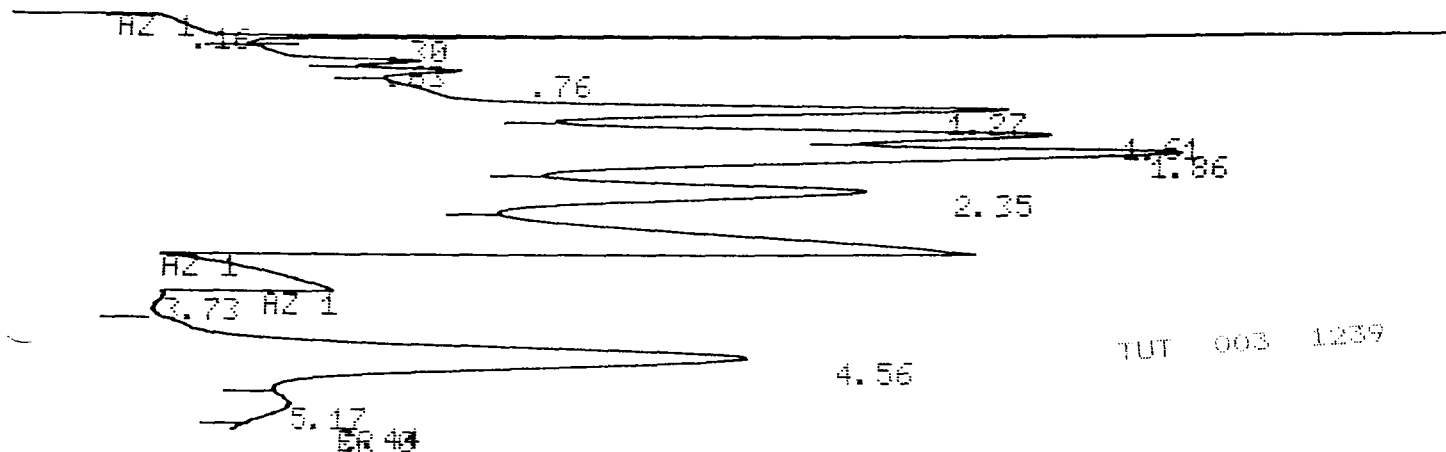
FILE 1. METHOD 0. RUN 39 INDEX 39

PEAK#	AREA%	RT	AREA BC
1	80.052	0.3	9838466 02
2	1.468	0.82	180362 02
3	0.584	1.14	71723 02
4	0.8	1.53	98343 02
5	0.18	1.97	22129 03
6	10.71	4.12	1316312 02
7	5.123	4.58	629662 02
8	1.083	5.24	133146 03

TOTAL 100. 12290143

500 5th

CHANNEL A INJECT 11/17/87 15:49:06



GCL 11/17/87 15:49:06 CH= "A" PS= 1.

TUT 003 1239

PEAK#	AREA%	RT	AREA	BC
1	2.236	0.3	86213	03
2	0.928	0.63	35790	02
3	1.233	0.76	47549	02
4	9.788	1.27	377302	02
5	9.33	1.61	359657	02
6	12.844	1.86	495119	02
7	6.851	2.35	264075	02
8	26.938	3.73	1038422	02
9	26.615	4.56	1025969	02
10	3.201	5.17	123378	02
11	0.035	5.44	1349	03
TOTAL	100.		3854823	

TUT 003 1240

SAVE

READY
DATE " 11/18/87
TIME " 08:12
1012PT EVAL:
PT= 35227.
FI= 1. FE= 1. MN= 0.
PRESS 'ENTER' TO SKIP ENTRY
FILE NAME=" GCL
TIME FUNCTION VALUE
TT= .01 TF=" AZ TV= 1
TT= .01 TF=" PM TV= 1
TT=

METHOD NUMBER:MN=

END OF DIALOG

AT= 4

PT=200

OF=15

CHANNEL A INJECT 11/18/87 08:15:15

 AT 8 AZ 1

978
CHANNEL A INJECT 11/18/87 08:17:02

.06 AZ 1

.77

987

2.28

6.14

11.58

17.36

FID

Ni 50pi
35 u/hr

AT-100-1 1/2"
180°C hold 3min
ramp 200°C at 30°C/min
det. 250°C
T₀ -200°C

50 uL SH.
180°C 200

TUT 003 1241

14.6
956

GCL 11/18/87 08:17:02 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 1 INDEX 1

PEAK#	AREA%	RT	AREA BC
1	2.362	0.06	2215 01
2	0.564	0.77	529 01
3	47.771	2.28	44801 01
4	47.328	6.14	44386 01
5	1.975	13.36	1852 01

TOTAL 100. 93783

FI= 1. FE= 1. MN= 0.
PRESS 'ENTER' TO SKIP ENTRY
FILE NAME=" "
TIME FUNCTION VALUE
TT=

METHOD NUMBER:MN=

END OF DIALOG

PW=

FI= 1. FE= 1. MN= 0.

PRESS 'ENTER' TO SKIP ENTRY

FILE NAME=" GCL

TIME FUNCTION VALUE

FI= .01 TF=" AZ TV= 1

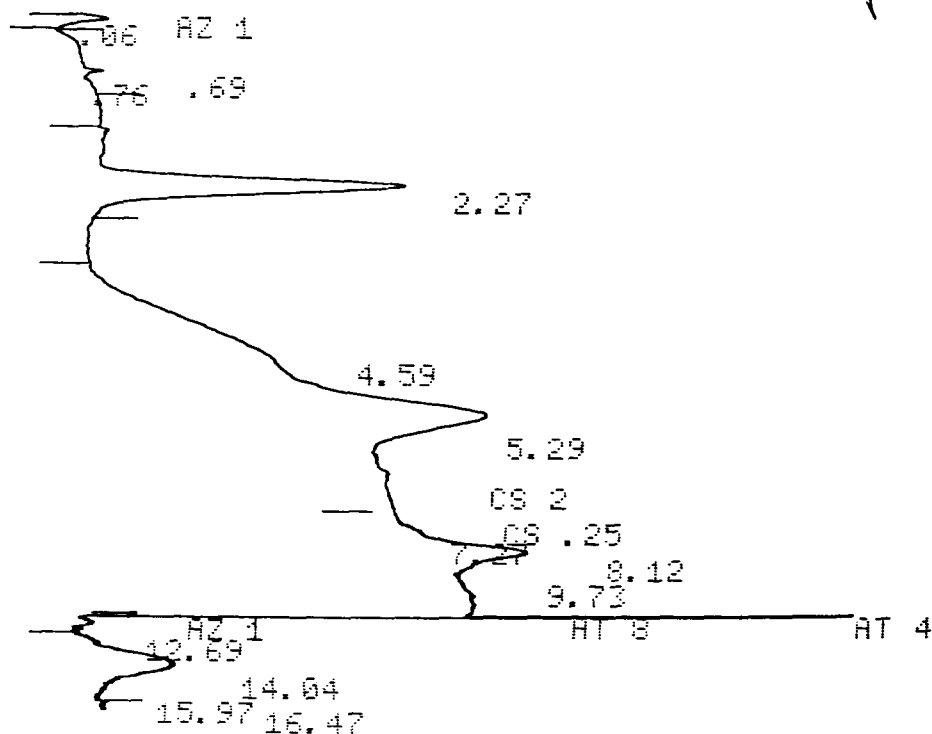
TT= .01 TF=" PM TV= 1

TT= 7.0 TF=" I

.A FAULT 24: AT 9120

PW=12

CHANNEL A INJECT 11/18/87 08:37:25



180°C hold 3 min
ramp -200°C 30°/min

TUT 003 1242

GCL 11/18/87 08:37:25 CH= "A" PS= 1.

PEAK#	AREA%	RT	AREA BC
1	0.285	0.66	2069 01
2	0.261	0.69	1895 02
3	0.365	0.76	471 03
4	6.791	2.27	49333 01
5	28.384	5.29	206193 02
6	21.209	7.27	154066 02
7	37.547	8.12	272750 03
8	5.459	14.04	39654 01

TOTAL 100. 726431

FI= 1. FE= 1. MN= 0.

PRESS 'ENTER' TO SKIP ENTRY

FILE NAME=" GCL

TIME FUNCTION VALUE

TT= .01 TF=" AZ TV= 1

TT= .01 TF=" PM TV= 1

TT= .01 TF=" CS TV= 1

TT= 3.0 TF=" CS TV= .25

TT= 4.5 TF=" AZ TV= 1

TT=

METHOD NUMBER:MN=

END OF DIALOG

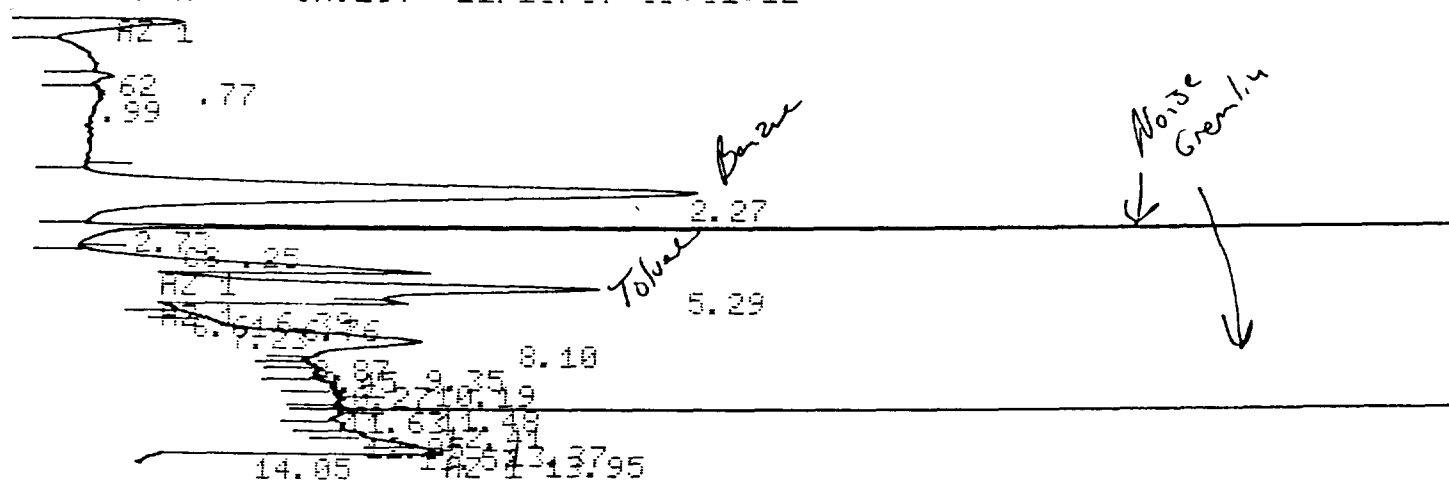
AT= 4

PT=50

OF=10

08:58:57

HANNEL A INJECT 11/18/87 09:01:12



GCL 11/18/87 09:01:12 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 3 INDEX 3

PEAK#	AREA%	RT	AREA BC
1	0.359	0.62	3088 02
2	0.226	0.77	1939 02
3	0.541	0.99	4653 03
4	5.522	2.27	47466 02
5	20.171	2.73	173382 03
6	22.941	5.29	197199 02
7	8.019	6.39	68927 02
8	1.47	6.61	12639 02
9	2.946	6.76	25325 02
10	3.443	7.23	29591 02

TOT 003 1243

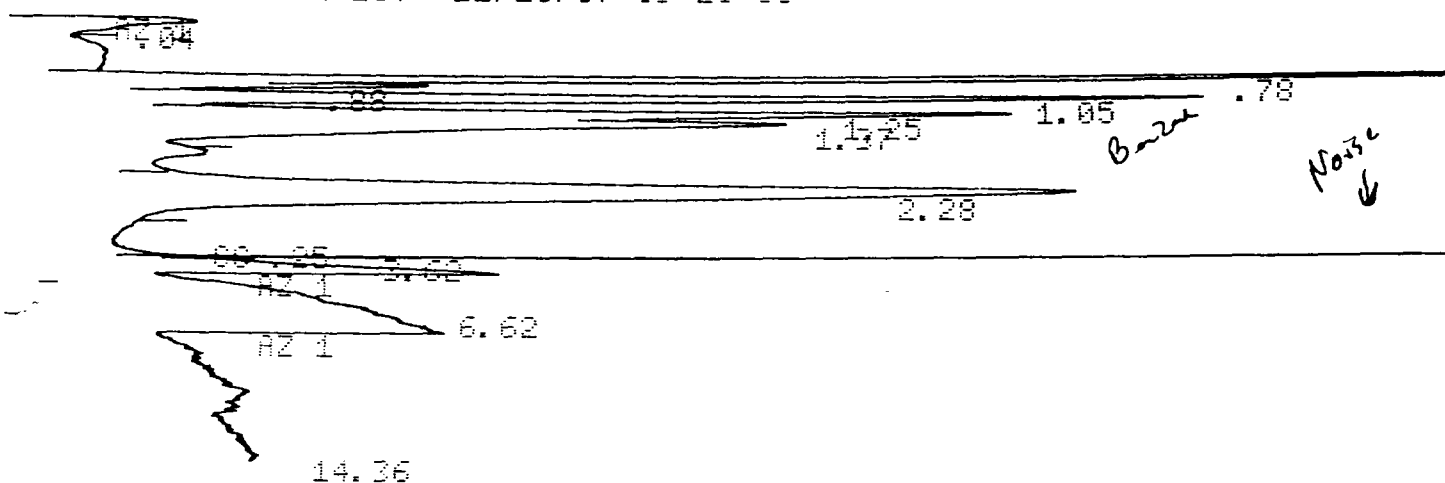
All com 500 12/12

12	1.031	9.37	12703	02
13	2.173	9.35	18682	02
14	2.296	9.45	19739	02
15	0.525	10.19	4511	02
16	0.891	10.27	7658	02
17	0.169	10.73	1456	03
18	0.025	11.48	219	02
19	6.727	11.63	57821	03
20	0.111	12.41	951	02
21	0.155	12.95	1333	02
22	0.19	13.37	1633	02
23	0.306	13.57	2627	02
24	0.484	13.95	4158	02
25	0.589	14.05	5065	03

TOTAL 100. 859575

PW=6
PT EVAL:
PT= 310.
PT=250

CHANNEL A INJECT 11/18/87 09:20:05



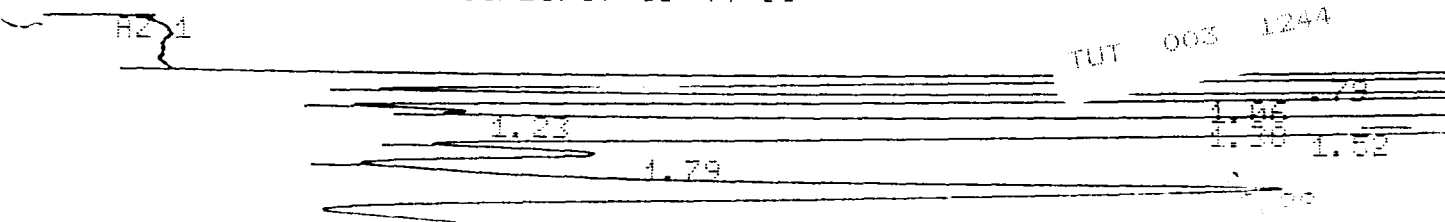
GCL 11/18/87 09:20:05 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 4 INDEX 4

PEAK#	AREA%	RT	AREA	BC
1	0.839	0.04	2764	01
2	13.334	0.78	43946	02
3	2.175	0.88	7169	02
4	10.337	1.05	34069	02
5	8.933	1.25	29440	02
6	9.284	1.37	30599	03
7	21.038	2.28	69338	01
8	34.06	3.62	112257	01

TOTAL 100. 329582

CHANNEL A INJECT 11/18/87 09:44:06



227 Benz
5.29 Toluene
8.10 E-Benz
14.05 o-xylene

Tillit H₂O Sample
5d

~ 800 ppb

66-02-5'
0.50 1/10

TUT 003 1244

12 1.38

10.23

14.45

GCL

11/18/87 09:44:06

CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 5 INDEX 5

PEAK#	AREA%	RT	AREA	BC
1	21.523	0.79	211212	08
2	5.881	1.06	57712	06
3	0.253	1.23	2483	06
4	13.323	1.38	130747	06
5	5.593	1.52	54886	06
6	1.153	1.79	11315	06
7	6.739	2.28	66128	07
8	45.535	4.38	446858	01

TOTAL 100. 981341

770129
776,08