UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 8-14-86

SUBJECT: Precision and Accuracy of Analyses for Data Set SF 3413
Site: AMERICAN CHEMICAL SERVICE

FROM: Steve Parker,
CRL QC Coordinator

TO: Data User: _____

The Region V Central Regional Laboratory has completed its analyses of 7 (number) WATER (matrix type) samples for the parameters listed on the attached sheet. The discrete values reported on the result forms should be considered to be of the precision and accuracy levels listed.

PRECISION is a measure of reproducibility or the closeness with which individual measurements of the same property, under similar conditions agree with each other. It is expressed as the relative percent difference (RPD) or the absolute concentration difference (R') between duplicate analyses. The limit acceptable at the time of analysis is stated. QC data within these limits indicate that the analysis was in control for that set of data.

ACCURACY is a measure of the closeness of an individual measurement to the expected value. It can be expressed as percent recovery of a known spike or standard concentration, or as percent bias which is the deviation from the true value. The limits applicable at the time of analysis are stated. A 95% confidence interval means that 95% of the time, percent recovery will fall between those limts.

Attachment

TRANSMITTED BY
Griffin
AUG 14 1986

U.S. EPA CENTRAL
REGIONAL LAB

PRECISION AND ACCURACY STATEMENT

Data Set: SF 3413 Matrix: WATER

Site Name: AMERICAN CHEMICAL SERVICE

	PRECISION			ACCURACY		
Parameter	RPD R'	Limit	Method of Quality Control	% Recovery % Bias	Limit	Method of Quality Control
VOA	3-13% SP	≤ 22%	SURROGATES	92-105%	82-115%	SURROGATES

COMMENT:

QC FLAGS:

American Chemical Service
IND-016-360-165
ACTIVITY#C 41100

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: TOXIC SUBSTANCES

DIVISION/BRANCH SUPERFUND WMD 5HE-12 SAMPLE DATE 8/5/86 LAB ARRIVAL DATE 8/6/86 DUE DATE 8/27/86

DU NUMBER Y306 DATA SET NUMBER 3413 STUDY _____ PRIORITY N CONTRACTOR N

CRL LOG NUMBER	SAMPLE DESCRIPTION	WATER VOLATILE ORGANICS SCAN UG/L TOX 17664	WATER ABN ORGANICS SCAN UG/L TOX 17674	SEDIMENTS SOLIDS VOLATILE ORGANICS SCAN MG/KG (DRY) TOX 215622	SEDIMENTS SOLIDS ABN ORGANICS SCAN MG/KG (DRY) TOX 215722
865501S01	5-61563-64-67-68-74476	✓			
865501D01	5-61571-72	✓			
865501R01	5-61587-88	✓			
865501S02	5-61555-56	✓			
865501S03	5-61611-12	✓			
865501S04	5-61593-94	✓			
865501S05	5-61603-04	✓			
865501S01	5-61565+69+77		K Bolger 8/7/86 ✓		
865501D01	5-61573		Received by [illegible] ✓		
865501R01	5-61589		8/11/86 ✓		
865501S02	5-61557		[illegible] 8/13/86 ✓		
865501S03	5-61613		[illegible] 8/14/86 ✓		
865501S04	5-61591		✓		
865501S05	5-61605		✓		

VOLATILE ORGANIC ANALYSIS DATA SHEET
U.S. EPA - Region V, Central Regional Laboratory

Study Name: AMERICAN CHEMICAL SERVICE
Sample # : 86S501R01

Data Set #: SF-3413
Matrix : WATER

	CAS #	Compounds	Concentration (PPB)	
1.	74-87-3	Chloromethane	10	U
2.	74-83-9	Bromomethane	10	U
3.	75-01-4	Vinyl Chloride	10	U
4.	75-00-3	Chloroethane	1.5	U
5.	75-09-2	Methylene Chloride	1.0	U
6.	107-02-8	Acrolein	100	U
7.	67-64-1	Acetone	75	U
8.	107-37-1	Acrylonitrile	50	U
9.	75-15-0	Carbon Disulfide	3.0	U
10.	75-35-4	1,1-Dichloroethene	1.5	U
11.	75-35-3	1,1-Dichloroethane	1.5	U
12.	156-60-5	trans-1,2-Dichloroethene	1.5	U
13.	67-66-3	Chloroform	1.5	U
14.	78-93-3	2-Butanone	50	U
15.	107-06-2	1,2-Dichloroethane	1.5	U
16.	71-55-6	1,1,1-Trichloroethane	2.9	SFC
17.	56-23-5	Carbon Tetrachloride	1.5	U
18.	108-05-4	Vinyl Acetate	15	U
19.	75-27-4	Bromodichloromethane	1.5	U
20.	78-87-5	1,2-Dichloropropane	1.5	U
21.	10061-02-6	trans-1,3-Dichloropropene	1.0	U
22.	79-01-6	Trichloroethene	1.5	U
23.	71-43-2	Benzene	1.5	U
24.	124-48-1	Dibromochloromethane	1.5	U
25.	79-00-5	1,1,2-Trichloroethane	1.5	U
26.	10061-01-5	cis-1,3-Dichloropropene	2.0	U
27.	110-75-8	2-Chloroethyl Vinyl Ether	1.5	U
28.	75-25-2	Bromoform	1.5	U
29.	108-10-1	4-Methyl-2-pentanone	3.0	U
30.	519-78-6	2-Hexanone	3.6	U
31.	127-18-4	Tetrachloroethene	1.5	U
32.	79-34-5	1,1,2,2-Tetrachloroethane	1.5	U
33.	108-88-3	Toluene	1.5	U
34.	108-90-7	Chlorobenzene	1.5	U
35.	100-41-4	Ethylbenzene	1.5	U
36.	100-42-5	Styrene	1.0	U
37.	108-38-3	m-Xylene	2.0	U
38.		o/p-Xylene	2.5	U

Data Qualifiers:
U -Compound was analyzed for but not de[illegible] The value reported is the method detection [illegible] for [illegible]ent water.
SLC -Suspected Laboratory Contaminant.
SFC -Suspected Field Contaminant.

VOLATILE ORGANIC ANALYSIS DATA SHEET
U.S. EPA - Region V, Central Regional Laboratory

Study Name: AMERICAN CHEMICAL SERVICE
Sample # : 86S501$01

Data Set #: SF-3413
Matrix : WATER

	CAS #	Compounds	Concentration (PPB)
1.	74-87-3	Chloromethane	10 U
2.	74-83-9	Bromomethane	10 U
3.	75-01-4	Vinyl Chloride	10 U
4.	75-00-3	Chloroethane	1.5 U
5.	75-09-2	Methylene Chloride	1.0 U
6.	107-02-8	Acrolein	100 U
7.	67-64-1	Acetone	75 U
8.	107-37-1	Acrylonitrile	50 U
9.	75-15-0	Carbon Disulfide	3.0 U
10.	75-35-4	1,1-Dichloroethene	1.5 U
11.	75-35-3	1,1-Dichloroethane	1.5 U
12.	156-60-5	trans-1,2-Dichloroethene	1.5 U
13.	67-66-3	Chloroform	1.5 U
14.	78-93-3	2-Butanone	50 U
15.	107-06-2	1,2-Dichloroethane	1.5 U
16.	71-55-6	1,1,1-Trichloroethane	1.5 U
17.	56-23-5	Carbon Tetrachloride	1.5 U
18.	108-05-4	Vinyl Acetate	15 U
19.	75-27-4	Bromodichloromethane	1.5 U
20.	78-87-5	1,2-Dichloropropane	1.5 U
21.	10061-02-6	trans-1,3-Dichloropropene	1.0 U
22.	79-01-6	Trichloroethene	1.5 U
23.	71-43-2	Benzene	1.5 U
24.	124-48-1	Dibromochloromethane	1.5 U
25.	79-00-5	1,1,2-Trichloroethane	1.5 U
26.	10061-01-5	cis-1,3-Dichloropropene	2.0 U
27.	110-75-8	2-Chloroethyl Vinyl Ether	1.5 U
28.	75-25-2	Bromoform	1.5 U
29.	108-10-1	4-Methyl-2-pentanone	3.0 U
30.	519-78-6	2-Hexanone	3.6 U
31.	127-18-4	Tetrachloroethene	1.5 U
32.	79-34-5	1,1,2,2-Tetrachloroethane	1.5 U
33.	108-88-3	Toluene	1.5 U
34.	108-90-7	Chlorobenzene	1.5 U
35.	100-41-4	Ethylbenzene	1.5 U
36.	100-42-5	Styrene	1.0 U
37.	108-38-3	m-Xylene	2.0 U
38.		o/p-Xylene (total)	2.5 U

Data Qualifiers:

U -Compound was analyzed for but not detected. The value reported is the method detection limit for reagent water.
B -Suspected Laboratory Contaminant.
F -Suspected Field Contaminant.

VOLATILE ORGANIC ANALYSIS DATA SHEET
U.S. EPA - Region V, Central Regional Laboratory

Study Name: AMERICAN CHEMICAL SERVICE
Sample # : 86S501D01

Data Set #: SF-3413
Matrix : WATER

	CAS #	Compounds	Concentration (PPB)	
1.	74-87-3	Chloromethane	10	U
2.	74-83-9	Bromomethane	10	U
3.	75-01-4	Vinyl Chloride	10	U
4.	75-00-3	Chloroethane	1.5	U
5.	75-09-2	Methylene Chloride	1.0	U
6.	107-02-8	Acrolein	100	U
7.	67-64-1	Acetone	75	U
8.	107-37-1	Acrylonitrile	50	U
9.	75-15-0	Carbon Disulfide	3.0	U
10.	75-35-4	1,1-Dichloroethene	1.5	U
11.	75-35-3	1,1-Dichloroethane	1.5	U
12.	156-60-5	trans-1,2-Dichloroethene	1.5	U
13.	67-66-3	Chloroform	1.5	U
14.	78-93-3	2-Butanone	50	U
15.	107-06-2	1,2-Dichloroethane	1.5	U
16.	71-55-6	1,1,1-Trichloroethane	1.5	U
17.	56-23-5	Carbon Tetrachloride	1.5	U
18.	108-05-4	Vinyl Acetate	15	U
19.	75-27-4	Bromodichloromethane	1.5	U
20.	78-87-5	1,2-Dichloropropane	1.5	U
21.	10061-02-6	trans-1,3-Dichloropropene	1.0	U
22.	79-01-6	Trichloroethene	1.5	U
23.	71-43-2	Benzene	1.5	U
24.	124-48-1	Dibromochloromethane	1.5	U
25.	79-00-5	1,1,2-Trichloroethane	1.5	U
26.	10061-01-5	cis-1,3-Dichloropropene	2.0	U
27.	110-75-8	2-Chloroethyl Vinyl Ether	1.5	U
28.	75-25-2	Bromoform	1.5	U
29.	108-10-1	4-Methyl-2-pentanone	3.0	U
30.	519-78-6	2-Hexanone	3.6	U
31.	127-18-4	Tetrachloroethene	1.5	U
32.	79-34-5	1,1,2,2-Tetrachloroethane	1.5	U
33.	108-88-3	Toluene	1.5	U
34.	108-90-7	Chlorobenzene	1.5	U
35.	100-41-4	Ethylbenzene	1.5	U
36.	100-42-5	Styrene	1.0	U
37.	108-38-3	m-Xylene	2.0	U
38.		o/p-Xylene (tot	2.5	U

Data Qualifiers:
U -Compound was analyzed for but not detected. The value reported is the method detection limit for reagent water.
SLC -Suspected Laboratory Contaminant.
SFC -Suspected Field Contaminant.

VOLATILE ORGANIC ANALYSIS DATA SHEET
U.S. EPA - Region V, Central Regional Laboratory

Study Name: AMERICAN CHEMICAL SERVICE
Sample # : 86S501$02

Data Set #: SF-3413
Matrix : WATER

	CAS #	Compounds	Concentration (PPB)	
1.	74-87-3	Chloromethane	10	U
2.	74-83-9	Bromomethane	10	U
3.	75-01-4	Vinyl Chloride	10	U
4.	75-00-3	Chloroethane	1.5	U
5.	75-09-2	Methylene Chloride	1.0	U
6.	107-02-8	Acrolein	100	U
7.	67-64-1	Acetone	75	U
8.	107-37-1	Acrylonitrile	50	U
9.	75-15-0	Carbon Disulfide	3.0	U
10.	75-35-4	1,1-Dichloroethene	1.5	U
11.	75-35-3	1,1-Dichloroethane	1.5	U
12.	156-60-5	trans-1,2-Dichloroethene	1.5	U
13.	67-66-3	Chloroform	1.5	U
14.	78-93-3	2-Butanone	50	U
15.	107-06-2	1,2-Dichloroethane	1.5	U
16.	71-55-6	1,1,1-Trichloroethane	1.5	U
17.	56-23-5	Carbon Tetrachloride	1.5	U
18.	108-05-4	Vinyl Acetate	15	U
19.	75-27-4	Bromodichloromethane	1.5	U
20.	78-87-5	1,2-Dichloropropane	1.5	U
21.	10061-02-6	trans-1,3-Dichloropropene	1.0	U
22.	79-01-6	Trichloroethene	1.5	U
23.	71-43-2	Benzene	1.5	U
24.	124-48-1	Dibromochloromethane	1.5	U
25.	79-00-5	1,1,2-Trichloroethane	1.5	U
26.	10061-01-5	cis-1,3-Dichloropropene	2.0	U
27.	110-75-8	2-Chloroethyl Vinyl Ether	1.5	U
28.	75-25-2	Bromoform	1.5	U
29.	108-10-1	4-Methyl-2-pentanone	3.0	U
30.	519-78-6	2-Hexanone	3.6	U
31.	127-18-4	Tetrachloroethene	1.5	U
32.	79-34-5	1,1,2,2-Tetrachloroethane	1.5	U
33.	108-88-3	Toluene	1.5	U
34.	108-90-7	Chlorobenzene	1.5	U
35.	100-41-4	Ethylbenzene	1.5	U
36.	100-42-5	Styrene	1.0	U
37.	108-38-3	m-Xylene	2.0	U
38.		o/p-Xylene (total)	2.5	U

Data Qualifiers:

U -Compound was analyzed for but not detected. The value reported is the method detection limit for reagent water.

SLC -Suspected Laboratory Contaminant.

SFC -Suspected Field Contaminant.

VOLATILE ORGANIC ANALYSIS DATA SHEET
U.S. EPA - Region V, Central Regional Laboratory

Study Name: AMERICAN CHEMICAL SERVICE
Sample # : 86S501$03

Data Set #: SF-3413
Matrix : WATER

	CAS #	Compounds	Concentration (PPB)	
1.	74-87-3	Chloromethane	10	U
2.	74-83-9	Bromomethane	10	U
3.	75-01-4	Vinyl Chloride	10	U
4.	75-00-3	Chloroethane	1.5	U
5.	75-09-2	Methylene Chloride	1.0	U
6.	107-02-8	Acrolein	100	U
7.	67-64-1	Acetone	75	U
8.	107-37-1	Acrylonitrile	50	U
9.	75-15-0	Carbon Disulfide	3.0	U
10.	75-35-4	1,1-Dichloroethene	1.5	U
11.	75-35-3	1,1-Dichloroethane	1.5	U
12.	156-60-5	trans-1,2-Dichloroethene	1.5	U
13.	67-66-3	Chloroform	1.5	U
14.	78-93-3	2-Butanone	50	U
15.	107-06-2	1,2-Dichloroethane	1.5	U
16.	71-55-6	1,1,1-Trichloroethane	1.5	U
17.	56-23-5	Carbon Tetrachloride	1.5	U
18.	108-05-4	Vinyl Acetate	15	U
19.	75-27-4	Bromodichloromethane	1.5	U
20.	78-87-5	1,2-Dichloropropane	1.5	U
21.	10061-02-6	trans-1,3-Dichloropropene	1.0	U
22.	79-01-6	Trichloroethene	1.5	U
23.	71-43-2	Benzene	1.5	U
24.	124-48-1	Dibromochloromethane	1.5	U
25.	79-00-5	1,1,2-Trichloroethane	1.5	U
26.	10061-01-5	cis-1,3-Dichloropropene	2.0	U
27.	110-75-8	2-Chloroethyl Vinyl Ether	1.5	U
28.	75-25-2	Bromoform	1.5	U
29.	108-10-1	4-Methyl-2-pentanone	3.0	U
30.	519-78-6	2-Hexanone	3.6	U
31.	127-18-4	Tetrachloroethene	1.5	U
32.	79-34-5	1,1,2,2-Tetrachloroethane	1.5	U
33.	108-88-3	Toluene	1.5	U
34.	108-90-7	Chlorobenzene	1.5	U
35.	100-41-4	Ethylbenzene	1.5	U
36.	100-42-5	Styrene	1.0	U
37.	108-38-3	m-Xylene	2.0	U
38.		o/p-Xylene (total)	2.5	U

Data Qualifiers:

U -Compound was analyzed for but not detected. The value reported is the method detection limit for reagent water.

SLC -Suspected Laboratory Contaminant.

SFC -Suspected Field Contaminant.

VOLATILE ORGANIC ANALYSIS DATA SHEET
U.S. EPA - Region V, Central Regional Laboratory

Study Name: AMERICAN CHEMICAL SERVICE
Sample # : 86S501$04

Data Set #: SF-3413
Matrix : WATER

	CAS #	Compounds	Concentration (PPB)	
1.	74-87-3	Chloromethane	10	U
2.	74-83-9	Bromomethane	10	U
3.	75-01-4	Vinyl Chloride	10	U
4.	75-00-3	Chloroethane	1.5	U
5.	75-09-2	Methylene Chloride	1.0	U
6.	107-02-8	Acrolein	100	U
7.	67-64-1	Acetone	75	U
8.	107-37-1	Acrylonitrile	50	U
9.	75-15-0	Carbon Disulfide	3.0	U
10.	75-35-4	1,1-Dichloroethene	1.5	U
11.	75-35-3	1,1-Dichloroethane	1.5	U
12.	156-60-5	trans-1,2-Dichloroethene	1.5	U
13.	67-66-3	Chloroform	1.5	U
14.	78-93-3	2-Butanone	50	U
15.	107-06-2	1,2-Dichloroethane	1.5	U
16.	71-55-6	1,1,1-Trichloroethane	1.5	U
17.	56-23-5	Carbon Tetrachloride	1.5	U
18.	108-05-4	Vinyl Acetate	15	U
19.	75-27-4	Bromodichloromethane	1.5	U
20.	78-87-5	1,2-Dichloropropane	1.5	U
21.	10061-02-6	trans-1,3-Dichloropropene	1.0	U
22.	79-01-6	Trichloroethene	1.5	U
23.	71-43-2	Benzene	1.5	U
24.	124-48-1	Dibromochloromethane	1.5	U
25.	79-00-5	1,1,2-Trichloroethane	1.5	U
26.	10061-01-5	cis-1,3-Dichloropropene	2.0	U
27.	110-75-8	2-Chloroethyl Vinyl Ether	1.5	U
28.	75-25-2	Bromoform	1.5	U
29.	108-10-1	4-Methyl-2-pentanone	3.0	U
30.	519-78-6	2-Hexanone	3.6	U
31.	127-18-4	Tetrachloroethene	1.5	U
32.	79-34-5	1,1,2,2-Tetrachloroethane	1.5	U
33.	108-88-3	Toluene	1.5	U
34.	108-90-7	Chlorobenzene	1.5	U
35.	100-41-4	Ethylbenzene	1.5	U
36.	100-42-5	Styrene	1.0	U
37.	108-38-3	m-Xylene	2.0	U
38.		o/p-Xylene (total)	2.5	U

Data Qualifiers:

U -Compound was analyzed for but not detected. The value reported is the method detection limit for reagent water.

SLC -Suspected Laboratory Contaminant.

SFC -Suspected Field Contaminant.

VOLATILE ORGANIC ANALYSIS DATA SHEET
U.S. EPA - Region V, Central Regional Laboratory

Study Name: AMERICAN CHEMICAL SERVICE
Sample # : 86S501$05

Data Set #: SF-3413
Matrix : WATER

	CAS #	Compounds	Concentration (PPB)	
1.	74-87-3	Chloromethane	10	U
2.	74-83-9	Bromomethane	10	U
3.	75-01-4	Vinyl Chloride	10	U
4.	75-00-3	Chloroethane	1.5	U
5.	75-09-2	Methylene Chloride	1.0	U
6.	107-02-8	Acrolein	100	U
7.	67-64-1	Acetone	75	U
8.	107-37-1	Acrylonitrile	50	U
9.	75-15-0	Carbon Disulfide	3.0	U
10.	75-35-4	1,1-Dichloroethene	1.5	U
11.	75-35-3	1,1-Dichloroethane	1.5	U
12.	156-60-5	trans-1,2-Dichloroethene	1.5	U
13.	67-66-3	Chloroform	1.5	U
14.	78-93-3	2-Butanone	50	U
15.	107-06-2	1,2-Dichloroethane	1.5	U
16.	71-55-6	1,1,1-Trichloroethane	1.5	U
17.	56-23-5	Carbon Tetrachloride	1.5	U
18.	108-05-4	Vinyl Acetate	15	U
19.	75-27-4	Bromodichloromethane	1.5	U
20.	78-87-5	1,2-Dichloropropane	1.5	U
21.	10061-02-6	trans-1,3-Dichloropropene	1.0	U
22.	79-01-6	Trichloroethene	1.5	U
23.	71-43-2	Benzene	1.5	U
24.	124-48-1	Dibromochloromethane	1.5	U
25.	79-00-5	1,1,2-Trichloroethane	1.5	U
26.	10061-01-5	cis-1,3-Dichloropropene	2.0	U
27.	110-75-8	2-Chloroethyl Vinyl Ether	1.5	U
28.	75-25-2	Bromoform	1.5	U
29.	108-10-1	4-Methyl-2-pentanone	3.0	U
30.	519-78-6	2-Hexanone	3.6	U
31.	127-18-4	Tetrachloroethene	1.5	U
32.	79-34-5	1,1,2,2-Tetrachloroethane	1.5	U
33.	108-88-3	Toluene	1.5	U
34.	108-90-7	Chlorobenzene	1.5	U
35.	100-41-4	Ethylbenzene	1.5	U
36.	100-42-5	Styrene	1.0	U
37.	108-38-3	m-Xylene	2.0	U
38.		o/p-Xylene (total)	2.5	U

Data Qualifiers:

U -Compound was analyzed for but not detected. The value reported is the method detection limit for reagent water.
SLC -Suspected Laboratory Contaminant.
SFC -Suspected Field Contaminant.

VOLATILE ORGANIC ANALYSIS DATA SHEET
U.S. EPA - Region V, Central Regional Laboratory

Study Name: AMERICAN CHEMICAL SERVICE
Sample # : 86S501$05

Data Set #: SF-3413
Matrix : WATER

TENTATIVELY IDENTIFIED COMPOUNDS	ESTIMATED CONC.(PPB)
2-PROPANOL	11

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

ESD/Central Regional Laboratory
DATA TRACKING FORM FOR CONTRACT SAMPLES

CRL Data Set No. SF 3413 CERCLIS No. _____

SMO Case No. _____ Site Name and Location: American Chemical Service

Name of Contractor or EPA Laboratory: CRL Data User: SF

No. of Samples: 14 Date Samples or Data Received: 8-20-86

1. Have chain-of-custody records been received? YES ✓ NO ___
2. Have Traffic Reports or packing lists been received? YES ___ NO ___
3. If no, are Traffic Report or packing list numbers written on the chain-of-custody record? YES ___ NO ___
4. If no, which Traffic report or packing list numbers are missing?

Are basic data forms in? YES ✓ NO ___

Number of samples claimed: 14 Number of samples received: 14

Checked by: Sylvia Griffin Date: 8-20-86

Received by Contract Project Management Section: _____ Date: _____

Review Started: _____ Reviewer Signature: _____

Total time spent on review: _____ Date review completed: _____

Copied (xeroxed) by: _____ Date: _____

Mailed to Data User by: Sylvia Griffin Date: 8-20-86

DATA USERS: CN, Hg

Please fill in the blanks below and return this form to: Sylvia Griffin, Data Management Coordinator, Region V, 5SCRL

Data received by: Joseph V. Heiss, Jr. Date: 09-04-86

Q.A. review received by: CRL Date: _____

Inorganic Data Complete [ ], Suitable for Intended Purposes [ ] ✓ [ ] if acceptable.
Organic Data Complete [ ], Suitable for Intended Purposes [ ] List problems below.
Dioxin Data Complete [ ], Suitable for Intended Purposes [ ]
SAS Data Complete [ ], Suitable for Intended Purposes [ ]

See Attached "Missing Data Request Form" [ ]
PROBLEMS: Please indicate reasons (if any) why data are not suitable for your uses. Other problems.

Received by Data Management Coordinator, CRL for File: Date: 9/5/86

Signature: M.F.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

ESD/Central Regional Laboratory
DATA TRACKING FORM FOR CONTRACT SAMPLES

RECEIVED SEP 15 1986 Program Support Section

CRL Data Set No. SF3413 CERCLIS No. IND-016-360-765

SMO Case No. — Site Name and Location: America Chemical Services

Name of Contractor or EPA Laboratory: CRL Data User: SF

No. of Samples: 7 Date Samples or Data Received: 9-10-86

1. Have chain-of-custody records been received? YES ✓ NO___
2. Have Traffic Reports or packing lists been received? YES ✓ NO___
3. If no, are Traffic Report or packing list numbers written on the chain-of-custody record? YES___ NO___
4. If no, which Traffic report or packing list numbers are missing?

Are basic data forms in? YES ✓ NO___

Number of samples claimed: 7 Number of samples received: 7

Checked by: Sylvia Griffin Date: 9-10-86

Received by Contract Project Management Section: _____ Date: _____

Review Started: _____ Reviewer Signature: _____

Total time spent on review: _____ Date review completed: _____

Copied (xeroxed) by: _____ Date: _____

Mailed to Data User by: Sylvia Griffin Date: 9-10-86

DATA USERS: Nitrates, Ammonia

Please fill in the blanks below and return this form to: Sylvia Griffin, Data Management Coordinator, Region V, 5SCRL

Data received by: Joseph T. Heiss, Jr. Date: 09-12-86

Q.A. review received by: CRL Date: _____

Inorganic Data Complete [ ], Suitable for Intended Purposes [ ] ✓ [ ] if acceptable.
Organic Data Complete [ ], Suitable for Intended Purposes [ ] List problems below.
Dioxin Data Complete [ ], Suitable for Intended Purposes [ ]
SAS Data Complete [ ], Suitable for Intended Purposes [ ]

See Attached "Missing Data Request Form" [ ]
PROBLEMS: Please indicate reasons (if any) why data are not suitable for your uses. Other problems.

Received by Data Management Coordinator, CRL for File: Date: 9-15-86

Signature: Griffin

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

ESD/Central Regional Laboratory
DATA TRACKING FORM FOR CONTRACT SAMPLES

CRL Data Set No. SF 3413 CERCLIS No. IND-016-360-165

SMO Case No. — Site Name and Location: American Chemical Service

Name of Contractor or EPA Laboratory: CRL Data User: SF

No. of Samples: 7 Date Samples or Data Received: 9-10-86

1. Have chain-of-custody records been received? YES ✓ NO
2. Have Traffic Reports or packing lists been received? YES ✓ NO
3. If no, are Traffic Report or packing list numbers written on the chain-of-custody record? YES NO
4. If no, which Traffic report or packing list numbers are missing?

Are basic data forms in? YES ✓ NO

Number of samples claimed: 7 Number of samples received: 7

Checked by: Sylvia Griffin Date: 9-10-86

Received by Contract Project Management Section: Date:

Review Started: Reviewer Signature:

Total time spent on review: Date review completed:

Copied (xeroxed) by: Date:

Mailed to Data User by: Sylvia Griffin Date: 9-10-86

DATA USERS: ICAP METALS

Please fill in the blanks below and return this form to: Sylvia Griffin, Data Management Coordinator, Region V, 5SCRL

Data received by: Joseph D. Heiss, Jr. Date: 09-12-86

Q.A. review received by: CRL Date:

Inorganic Data Complete [ ], Suitable for Intended Purposes [ ] ✓ [ ] if acceptable.
Organic Data Complete [ ], Suitable for Intended Purposes [ ] List problems below.
Dioxin Data Complete [ ], Suitable for Intended Purposes [ ]
SAS Data Complete [ ], Suitable for Intended Purposes [ ]

See Attached "Missing Data Request Form" [ ]
PROBLEMS: Please indicate reasons (if any) why data are not suitable for your uses. Other problems.

Received by Data Management Coordinator, CRL for File: Date: 9-15-86

Signature: Griffin

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

ESD/Central Regional Laboratory
DATA TRACKING FORM FOR CONTRACT SAMPLES

CRL Data Set No. SF3413 CERCLIS No. IND-016-360-165

SMO Case No. — Site Name and Location: AMERICAN CHEMICAL SER.

Name of Contractor or EPA Laboratory: CRL Data User: SF

No. of Samples: 7 Date Samples or Data Received: 9-10-86

1. Have chain-of-custody records been received? YES ✓ NO ___
2. Have Traffic Reports or packing lists been received? YES ✓ NO ___
3. If no, are Traffic Report or packing list numbers written on the chain-of-custody record? YES ___ NO ___
4. If no, which Traffic report or packing list numbers are missing?

Are basic data forms in? YES ✓ NO ___

Number of samples claimed: 7 Number of samples received: 7

Checked by: Sylvia Griffin Date: 9-11-86

Received by Contract Project Management Section: ___ Date: ___

Review Started: ___ Reviewer Signature: ___

Total time spent on review: ___ Date review completed: ___

Copied (xeroxed) by: ___ Date: ___

Mailed to Data User by: Sylvia Griffin Date: 9-11-86

DATA USERS: ABN

Please fill in the blanks below and return this form to: Sylvia Griffin, Data Management Coordinator, Region V, 5SCRL

Data received by: Joseph J. Kreiss, Jr. Date: 09-15-86

Q.A. review received by: CRL Date: ___

Inorganic Data Complete [ ], Suitable for Intended Purposes [ ] ✓ [ ] if acceptable.
Organic Data Complete [ ], Suitable for Intended Purposes [ ] List problems below.
Dioxin Data Complete [ ], Suitable for Intended Purposes [ ]
SAS Data Complete [ ], Suitable for Intended Purposes [ ]

See Attached "Missing Data Request Form" [ ]
PROBLEMS: Please indicate reasons (if any) why data are not suitable for your uses. Other problems.

Received by Data Management Coordinator, CRL for File: Date: 9/16/86

Signature: Griffin

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

ESD/Central Regional Laboratory
DATA TRACKING FORM FOR CONTRACT SAMPLES

CRL Data Set No. SF 3413 CERCLIS No. IND-016-360-165

SMO Case No. — Site Name and Location: American Chemical Service

Name of Contractor or EPA Laboratory: CRL Data User: SF

No. of Samples: 7 Date Samples or Data Received: 9-10-86

1. Have chain-of-custody records been received? YES ✓ NO___
2. Have Traffic Reports or packing lists been received? YES ✓ NO___
3. If no, are Traffic Report or packing list numbers written on the chain-of-custody record? YES___ NO___
4. If no, which Traffic report or packing list numbers are missing?

Are basic data forms in? YES ✓ NO___

Number of samples claimed: 7 Number of samples received: 7

Checked by: Sylvia Griffin Date: 9-10-86

Received by Contract Project Management Section: _____ Date: _____

Review Started: _____ Reviewer Signature: _____

Total time spent on review: _____ Date review completed: _____

Copied (xeroxed) by: _____ Date: _____

Mailed to Data User by: Sylvia Griffin Date: 9-10-86

DATA USERS: Metals

Please fill in the blanks below and return this form to: Sylvia Griffin, Data Management Coordinator, Region V, 5SCRL

Data received by: Joseph T. Heiss, Jr. Date: 09-15-86

Q.A. review received by: CRL Date: _____

Inorganic Data Complete [ ], Suitable for Intended Purposes [ ] ✓ [ ] if acceptable.
Organic Data Complete [ ], Suitable for Intended Purposes [ ] List problems below.
Dioxin Data Complete [ ], Suitable for Intended Purposes [ ]
SAS Data Complete [ ], Suitable for Intended Purposes [ ]

See Attached "Missing Data Request Form" [ ]
PROBLEMS: Please indicate reasons (if any) why data are not suitable for your uses. Other problems.

Received by Data Management Coordinator, CRL for File: Date: 9/16/86

Signature: Griffin

J7

American Chemical Service
IND-016-360-165
ACTIVITY#C41100

SUPERFUND

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: PESTICIDES AND PCB'S

DIVISION/BRANCH WMD: SHE-12 SAMPLE DATE 8/5/86 LAB ARRIVAL DATE 8/6/86 DUE DATE 8/27/86

DU NUMBER Y306 DATA SET NUMBER 3413 STUDY _____ PRIORITY N CONTRACTOR N

CRL LOG NUMBER	SAMPLE DESCRIPTION	WATER TRIHALOMETHANES UG/L PES17414	WATER POLYCHLORINATED BIPHENYLS UG/L PES 17144	WATER CHLORINATED PESTICIDES UG/L PES 17134	WATER HERBICIDES UG/L PES 17424	WATER OIL AND GREASE MG/L PES 17439
8655001S01	5-61566+70+78		✓	✓		
8655001D01	5-61575		✓	✓		
8655001R01	5-61590		✓	✓		
8655001S02	5-61558		✓	✓		
8655001S03	5-61614		✓	✓		
8655081S04	5-61592		✓	✓		
8655001S05	5-61606		✓	✓		

American Chemical Service
IND-016-360-165
ACTIVITY#C41100

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: TOXIC SUBSTANCES

SUPERFUND

DIVISION/BRANCH WMD 5HE-12 SAMPLE DATE 8/5/86 LAB ARRIVAL DATE 8/6/86 DUE DATE 8/27/86

DU NUMBER Y306 DATA SET NUMBER 3413 STUDY _____ PRIORITY N CONTRACTOR N

CRL LOG NUMBER	SAMPLE DESCRIPTION	WATER VOLATILE ORGANICS SCAN UG/L TOX 17684	WATER ABN ORGANICS SCAN UG/L TOX 17674	SEDIMENTS SOLIDS VOLATILE ORGANICS SCAN MG/KG (DRY) TOX 215822	SEDIMENTS SOLIDS ABN ORGANICS SCAN MG/KG (DRY) TOX 215722
865501S01	5-61563-64-67-68-74476	✓			
865501D01	5-61571-72	✓			
865501R01	5-61587-88	✓			
865501S02	5-61555-56	✓			
865501S03	5-61611-12	✓			
865501S04	5-61593-94	✓			
865501S05	5-61603-04	✓			
865501S01	5-61565+69+77		✓		
865501D01	5-61573		✓		
865501R01	5-61589		✓		
865501S02	5-61557		✓		
865501S03	5-61613		✓		
865501S04	5-61591		✓		
865501S05	5-61605		✓		

American Chemical Service
IND-016-360-165
ACTIVITY #C41100

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: METALS

DIVISION/BRANCH SUPERFUND WMD: SHE-12 SAMPLE DATE 8/5/86 LAB ARRIVAL DATE 8/6/86 DUE DATE 8/27/86

DU NUMBER Y306 DATA SET NUMBER 3413 STUDY _____ PRIORITY N CONTRACTOR N

CRL LOG NUMBER	SAMPLE DESCRIPTION	TOTAL METALS WATER TOTAL ICAP UG/L MET111	TOTAL METALS WATER AS UG/L MET161	TOTAL METALS WATER PB UG/L MET1181	TOTAL METALS WATER SB UG/L MET1201	TOTAL METALS WATER SE UG/L MET1211	TOTAL METALS WATER TL UG/L MET1221
865501S01	5-61559	✓	✓	✓	✓	✓	
865501D01	5-61579	✓	✓	✓	✓	✓	
865501R01	5-61583	✓	✓	✓	✓	✓	
865501S02	5-61552	✓	✓	✓	✓	✓	
865501S03	5-61607	✓	✓	✓	✓	✓	
865501S04	5-61595	✓	✓	✓	✓	✓	
865501S05	5-61599	✓	✓	✓	✓	✓	

For Samples to CRL

American Chemical Service IND-016-360-165

American Chemical Service
IND-016-360-165

ACTIVITY# C41100

SUPERFUND

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: MINERALS - NUTRIENTS

DIVISION/BRANCH WMD: 5HE-12 SAMPLE DATE 8/5/86 LAB ARRIVAL DATE 8/6/86 DUE DATE 8/27/86

DU NUMBER Y306 DATA SET NUMBER 3413 STUDY _____ PRIORITY N CONTRACTOR N

CRL LOG NUMBER	SAMPLE DESCRIPTION	WATER PHENOLICS UG PHENOL/L MIN 74818	WATER CYANIDE UG CN/L MIN 74819	WATER GROSS ALPHA P CI/L MIN 75020	WATER CR^{+6} UG CR^{+6}/L MIN 74816	WATER MERCURY UG HG/L MIN 74717
865501S01	5-61561		✓			
865501D01	5-61581		✓			
865501R01	5-61585		✓			
865501S02	5-61553		✓			
865501S03	5-61609		✓			
865501S04	5-61597		✓			
865501S05	5-61601		✓			
865501S01	5-61560					✓
865501D01	5-61580					✓
865501R01	5-61584					✓
865501S02	5-61551					✓
865501S03	5-61608					✓
865501S04	5-61596					✓
865501S05	5-61600					✓

For Samples to CRL

American Chemical Service
IND-016-360-165

SUPERFUND

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: MINERALS-NUTRIENTS

DIVISION/BRANCH WMD: SHE-12 SAMPLING DATE 8/5/86 LAB ARRIVAL DATE 8/6/86 DUE DATE 8/27/86

DU NUMBER Y306 DATASET NUMBER 3413 STUDY _____ PRIORITY N CONTRACTION ✓

CRL LOG NUMBER	SAMPLE DESCRIPTION	WATER NITRATE & NITRITE MG N/L MIN7284	WATER AMMONIA MG N/L MIN7294	WATER TOTAL KJELDAHL NITROGEN MG N/L MIN7304	WATER TOTAL PHOSPHORUS MG P/L MIN7315	WATER TOTAL DISSOLVED PHOSPHORUS MG P/L MIN7325
865[redacted]01S01	5-61562	✓	✓		✓	
865[redacted]01D01	5-61582	✓	✓		✓	
865[redacted]01R01	5-61586	✓	✓			
865[redacted]01S02	5-61554	✓	✓			
865[redacted]01S03	5-61610	✓	✓			
865[redacted]01S04	5-61598	✓	✓			
865[redacted]01S05	5-61602	✓	✓			

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 5
230 South Dearborn Street
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO.: 865501
PROJECT NAME: American Chemical Service
SAMPLERS: (Signature) Karen Waldvogel

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	B/N/A	Pesticide/PCB	Volatile				REMARKS
													Sequence 3413
S01	8/5/86	1222		X	1007 REDER RD.	3-80z	X						5-61565, 5-61569, 5-61577
						3-80z		X					5-61566, 5-61570, 5-61578
						6-40ml			X				5-61567-68, 5-61563-64, 5-61574, 5-61576

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Karen Waldvogel	8/6/86 9:20 am	William Sangster			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) William Sangster	Date / Time 8/6/86 9:20AM	Remarks Custody Seals 14603, 14605	

Distribution: White — Accompanies Shipment; Pink — Coordinator Field Files; Yellow — Laboratory File

5- 01805

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 5
230 South Dearborn Street
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO.: 8655[redacted]01
PROJECT NAME: American Chemical Service
SAMPLERS: (Signature) Karen Waldvogel

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	B/N/A	Pesticide/PCB	Volatile				REMARKS Superfund 3413
S02	8/5/86	1210		X	1009 Reder Rd.	1-80oz	X						5-61557, ~~5-61558~~ bms
						1-80oz		X					5-61558
						2-40ml			X				5-61555, 5-61556
D01	8/5/86	1222		X	1007 Reder Rd	1-80oz	X		bmp				5-61573
						1-80oz		X					5-61575
						2-40ml			X				5-61572, 5-61573
R01	8/5/86	1222		X	1007 Reder Rd.	1-80oz	X						5-61589
						1-80oz		X					5-61590
						2-40ml			X				5-61588, 5-61587

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Karen Waldvogel	8/6/86 9:20 am	William Sargent Jr.			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	
		William Sargent Jr.	8/6/86 9:20 AM	Custody Seals 14601, 14602	

Distribution: White — Accompanies Shipment; Pink — Coordinator Field Files; Yellow — Laboratory File

5- 01802

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 5
230 South Dearborn Street
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO.: 865 5001
PROJECT NAME: American Chem. Services
SAMPLERS: (Signature) Karen Waldvogel

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	B/N/A	Pest./PCB	VOLATILES				REMARKS Superfund 3413
503	8/5	3:00 p		✓	1048 Reeder Rd	1-80oz	X						5-61613
						1-80oz		X					5-61614
						2-40ml			X				5-61611, 5-61612
504	8/5	2:35 p		✓	1002 Reeder Rd	1-80oz	X						5-61591
						1-80oz		X					5-61592
						2-40ml			X				5-61593, 5-61594
505	8/5	3:30 p		✓	938 S. Arbogast	1-80oz	X						5-61605
						1-80oz		X					5-61606
						2-40ml			X				5-61604, 5-61603

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Karen Waldvogel	8/6/86 9:20	William Sanyatta			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	
		William Sanyatta	8/6/86 9:20AM	Custody Seals 14604, 14690	

Distribution: White — Accompanies Shipment; Pink — Coordinator Field Files; Yellow — Laboratory File

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 5
230 South Dearborn Street
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO.: X62501

PROJECT NAME: American Chemical Services

SAMPLERS: (Signature) Karen Waldvogel

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	METALS	Mercury	CYANIDE	NH_3/NO_2-NO_3			REMARKS Tag # Surrogate 3413
S02	8/5/86	1210		✓	1009 Reeder Rd	4-1l	X	X	X	X			5-61552 M / 5-61553 CN / 5-61551 Hg / 5-61554 NO_3-NO_2
S01	8/5/86	1222		✓	1007 Reeder Rd	4-1L	X	X	X	X			5-61559 M / 5-61561 CN / 5-61560 Hg / 5-61562 NO_3-NO_2
D01	8/5/86	1222		✓	1007 Reeder Rd	4-1L	X	X	X	X			5-61579 M / 5-61581 CN / 5-61580 Hg / 5-61582 NO_2-NO_3
R01	8/5/86	1222		✓	1007 Reeder Rd	4-1L	X	X	X	X			5-61583 M / 5-61585 CN / 5-61584 Hg / 5-61586 NO_2-NO_3
S03	8/5/86	1500		✓	1048 Reeder Rd	4-1L	X	X	X	X			5-61607 M / 5-61609 CN / 5-61602 Hg / 5-61610 NO_2-NO_3
S04	8/5/86	1435		✓	1002 Reeder Rd	4-1L	X	X	X	X			5-61595 M / 5-61597 CN / 5-61596 Hg / 5-61598 NO_2-NO_3
S05	8/5/86	1530		✓	938 S Arbogast	4-1L	X	X	X	X			5-61599 M / 5-61601 CN / 5-61600 Hg / 5-61602 NO_2-NO_3

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Karen Waldvogel	8/6/86	William Sanyatta			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) William Sanyatta	Date / Time 8/6/86 9:20AM	Remarks Custody Seals! 14688 & 14689	

Distribution: White — Accompanies Shipment; Pink — Coordinator Field Files; Yellow — Laboratory File

5- 01801

American Chemical Service 87
IND-016-360-165
ACTIVITY#C41100

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: TOXIC SUBSTANCES

SUPERFUND

DIVISION/BRANCH WMD 5HE-12 SAMPLE DATE 8/5/86 LAB ARRIVAL DATE 8/6/86 DUE DATE 8/27/86

DU NUMBER Y306 DATA SET NUMBER 3413 STUDY _____ PRIORITY N CONTRACTOR N

CRL LOG NUMBER	SAMPLE DESCRIPTION	WATER VOLATILE ORGANICS SCAN UG/L TOX 17664	WATER ABN ORGANICS SCAN UG/L TOX 17674	SEDIMENTS SOLIDS VOLATILE ORGANICS SCAN MG/KG (DRY) TOX 215622	SEDIMENTS SOLIDS ABN ORGANICS SCAN MG/KG (DRY) TOX 215722
865501S01	5-61563-64-67-68-74476	✓			
865501D01	5-61571-72	✓			
865501R01	5-61587-88	✓			
865501S02	5-61555-56	✓			
865501S03	5-61611-12	✓			
865501S04	5-61593-94	✓			
865501S05	5-61603-04	✓			
86S501S01	5-61565+69+77		✓		
86S501D01	5-61573		✓		
86S501R01	5-61589		✓		
86S501S02	5-61557		✓		
86S501S03	5-61613		✓		
86S501S04	5-61591		✓		
86S501S05	5-61605		✓		

For Sample to [illegible]

American Chemical Service
IND-016-360-165
ACTIVITY #C41100

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: METALS

DIVISION/BRANCH SUPERFUND WMD: 5-E-12 SAMPLE DATE 8/5/86 LAB ARRIVAL DATE 8/6/86 DUE DATE 8/27/86

DU NUMBER Y306 DATA SET NUMBER 3413 STUDY _____ PRIORITY N CONTRACTOR N

CRL LOG NUMBER	SAMPLE DESCRIPTION	TOTAL METALS WATER TOTAL ICAP UG/L MET111	TOTAL METALS WATER AS UG/L MET181	TOTAL METALS WATER PB UG/L MET1191	TOTAL METALS WATER SB UG/L MET1201	TOTAL METALS WATER SE UG/L MET1211	TOTAL METALS WATER TL UG/L MET1221
865501S01	5-61559	✓	✓	✓	✓	✓	
865501D01	5-61579	✓	✓	✓	✓	✓	
865501R01	5-61583	✓	✓	✓	✓	✓	
865501S02	5-61552	✓	✓	✓	✓	✓	
865501S03	5-61607	✓	✓	✓	✓	✓	
865501S04	5-61595	✓	✓	✓	✓	✓	
865501S05	5-61599	✓	✓	✓	✓	✓	

For Samples to CRL

American Chemical Service IND-016-360-165

American Chemical Service
IND-016-360-165

ACTIVITY# C41100

SUPERFUND

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: MINERALS - NUTRIENTS

DIVISION/BRANCH WMD: SHB-12 SAMPLE DATE 8/5/86 LAB ARRIVAL DATE 8/6/86 DUE DATE 8/27/86

DU NUMBER Y306 DATA SET NUMBER 3413 STUDY _____ PRIORITY N CONTRACTOR N

CRL LOG NUMBER	SAMPLE DESCRIPTION	WATER PHENOLICS UG PHENOL/L MIN 74818	WATER CYANIDE UG CN/L MIN 74919	WATER GROSS ALPHA P CI/L MIN 75020	WATER CR^{+6} UG CR^{+6}/L MIN 74616	WATER MERCURY UG HG/L MIN 74717
865501S01	5-61561	✓	✓			✓
865501D01	5-61581	✓	✓			✓
865501R01	5-61585	✓	✓			✓
865501S02	5-61553	✓	✓			✓
865501S03	5-61609	✓	✓			✓
865501S04	5-61597	✓	✓			✓
865501S05	5-61601	✓	✓			✓
865501S01	5-61560					✓
865501D01	5-61580					✓
865501R01	5-61584					✓
865501S02	5-61551					✓
865501S03	5-61608					✓
865501S04	5-61596					✓
865501S05	5-61600					✓

For Samples to CRL

American Chemical Service
IND-016-360-165

SUPERFUND
WMD: SHE-12

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: MINERALS-NUTRIENTS

DIVISION/BRANCH WMD: SHE-12 SAMPLING DATE 8/5/86 LAB ARRIVAL DATE 8/6/86 DUE DATE 8/27/86

DU NUMBER Y306 DATASET NUMBER 3413 STUDY ~ PRIORITY N CONTRACTOR ~

CRL LOG NUMBER	SAMPLE DESCRIPTION	WATER NITRATE & NITRITE MG N/L MIN7284	WATER AMMONIA MG N/L MIN7294	WATER TOTAL KJELDAHL NITROGEN MG N/L MIN7304	WATER TOTAL PHOSPHORUS MG P/L MIN7315	WATER TOTAL DISSOLVED PHOSPHORUS MG P/L MIN7325
865501S01	5-61562	✓	✓			
865501D01	5-61582	✓	✓			
865501R01	5-61586	✓	✓			
865501S02	5-61554	✓	✓			
865501S03	5-61610	✓	✓			
865501S04	5-61598	✓	✓			
865501S05	5-61602	✓	✓			

American Chemical Service
IND-016-360-165
ACTIVITY#C41100

SUPERFUND

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: PESTICIDES AND PCB'S

DIVISION/BRANCH WMI: SFE-1 SAMPLE DATE 8/5/86 LAB ARRIVAL DATE 8/6/86 DUE DATE 8/27/86

DU NUMBER Y306 DATA SET NUMBER 3413 STUDY _____ PRIORITY N CONTRACTOR N

CRL LOG NUMBER	SAMPLE DESCRIPTION	WATER TRIHALOMETHANES UG/L PES17414	WATER POLYCHLORINATED BIPHENYLS UG/L PES 17144	WATER CHLORINATED PESTICIDES UG/L PES 17134	WATER HERBICIDES UG/L PES 17424	WATER OIL AND GREASE MG/L PES 17439
8655001S01	5-61566+70+78		✓	✓		
8655001D01	5-61575		✓	✓		
8655001R01	5-61590		✓	✓		
8655001S02	5-61558		✓	✓		
8655001S03	5-61614		✓	✓		
8655001S04	5-61592		✓	✓		
8655001S05	5-61606		✓	✓		

QUALITY CONTROL SHEET
TOXIC ORGANICS SECTION: VOLATILES

STUDY NAME American Chemical Service

STUDY NUMBER SF-3413

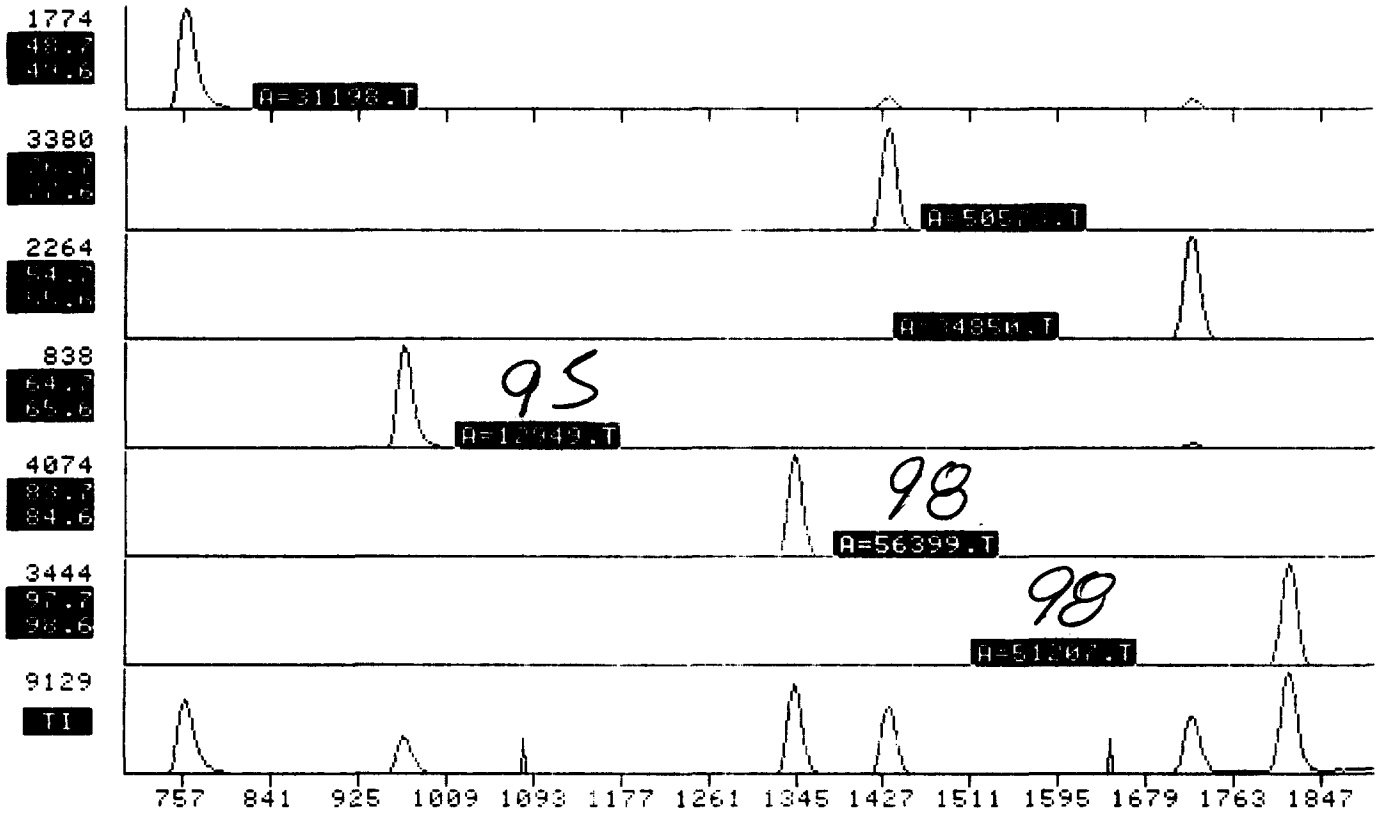
DATE 8/7-8/86

ACTIVITY NUMBER C4400

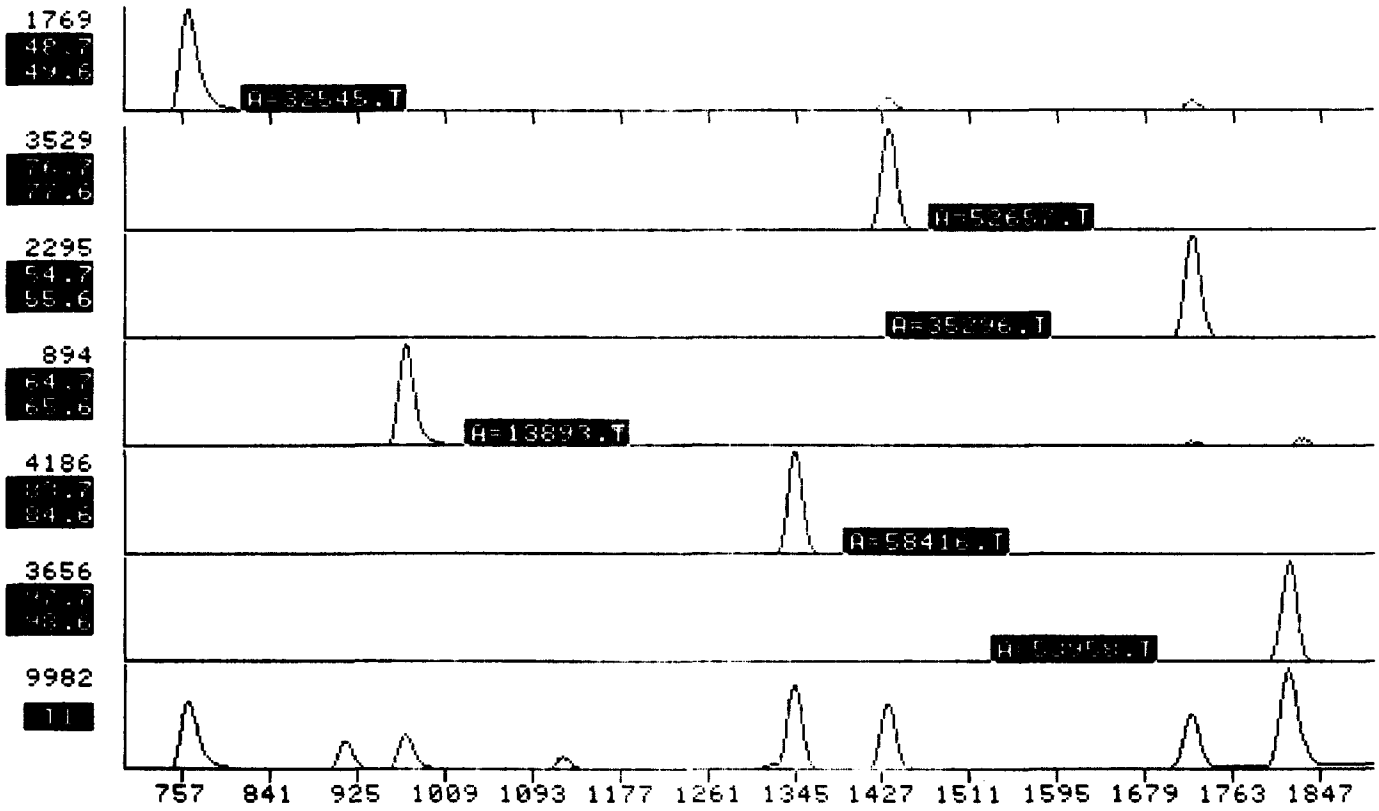
ANALYST K Bolger

FRN	SAMPLE NUMBER	MATRIX	AMOUNT PURGED	DILUTIONS	FINAL VOL (AFT.DILU)	INTERNAL STD CONC. (3.4ppB) BCM BP AREA	BCP BP AREA	DCB BP AREA	SURROGATES RECOVERY % D4-1,2-DCE	D6-Benzene	D8-Toluene
11555	LABBLANK	WATER	15ML	NONE	15ML	31198	50573	34850	95	98	98
11557	865501R01	↓	↓	↓	↓	31320	50287	34874	100	99	99
11560	VOLSTD					31598	50526	34304	—	—	—
11563	865501S01					32042	50408	35584	104	100	100
11564	D01					32424	51783	35332	102	99	99
11565	S02					31560	48888	35170	105	101	100
11566	S03					34418	54034	37227	104	102	100
11568	S05	↓	↓	↓	↓	32908	52114	35668	104	100	100
11570	LABBLANK	WATER	15ML	NONE	15ML	29177	48073	32717	92	97	100
11571	VOLSTD	↓	↓	↓	↓	30959	50159	33676	—	—	—
11572	865501S04	↓	↓	↓	↓	29606	47984	33083	97	98	101

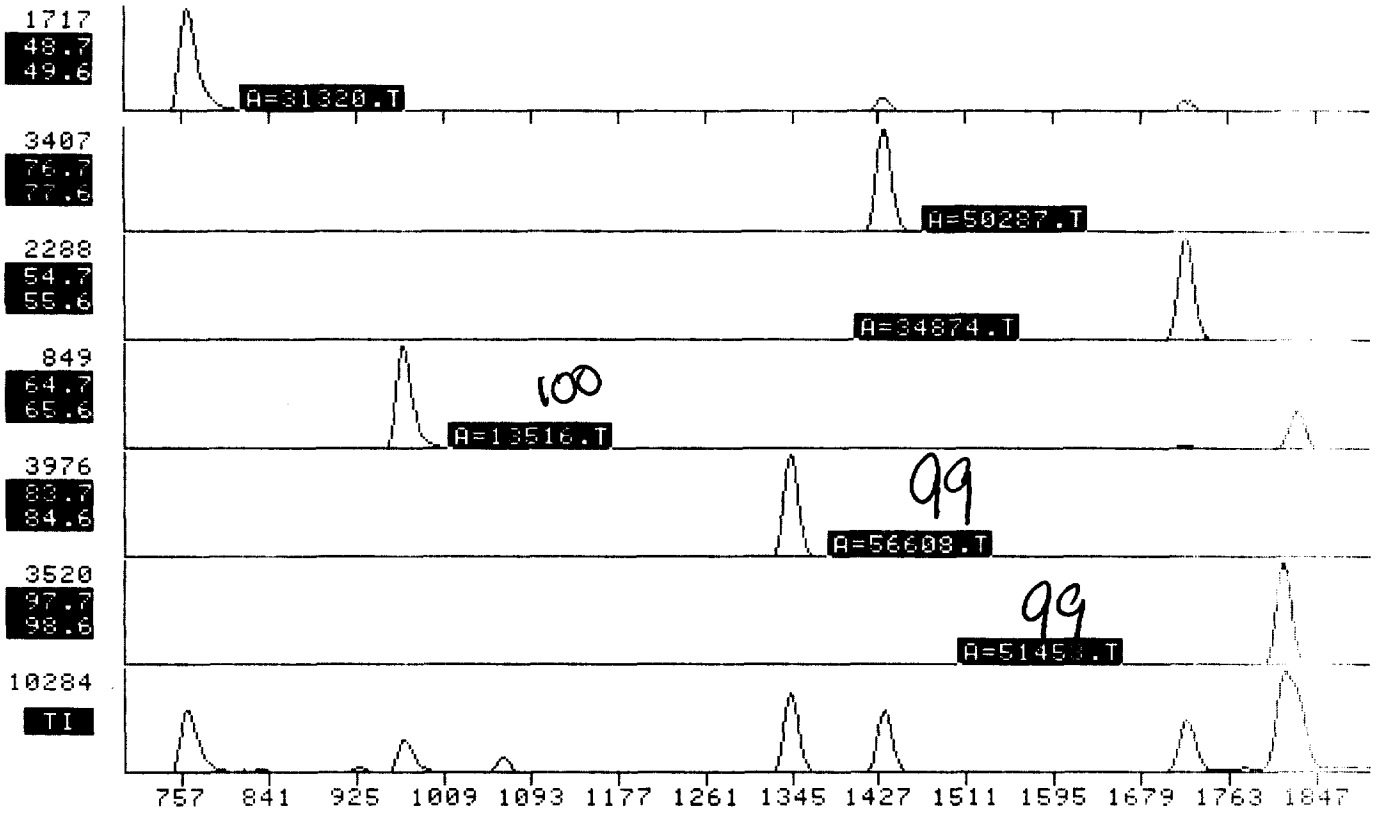
NAME LABBLANK FRN 11555
MISC 8-7-86 BTL#1 D11555



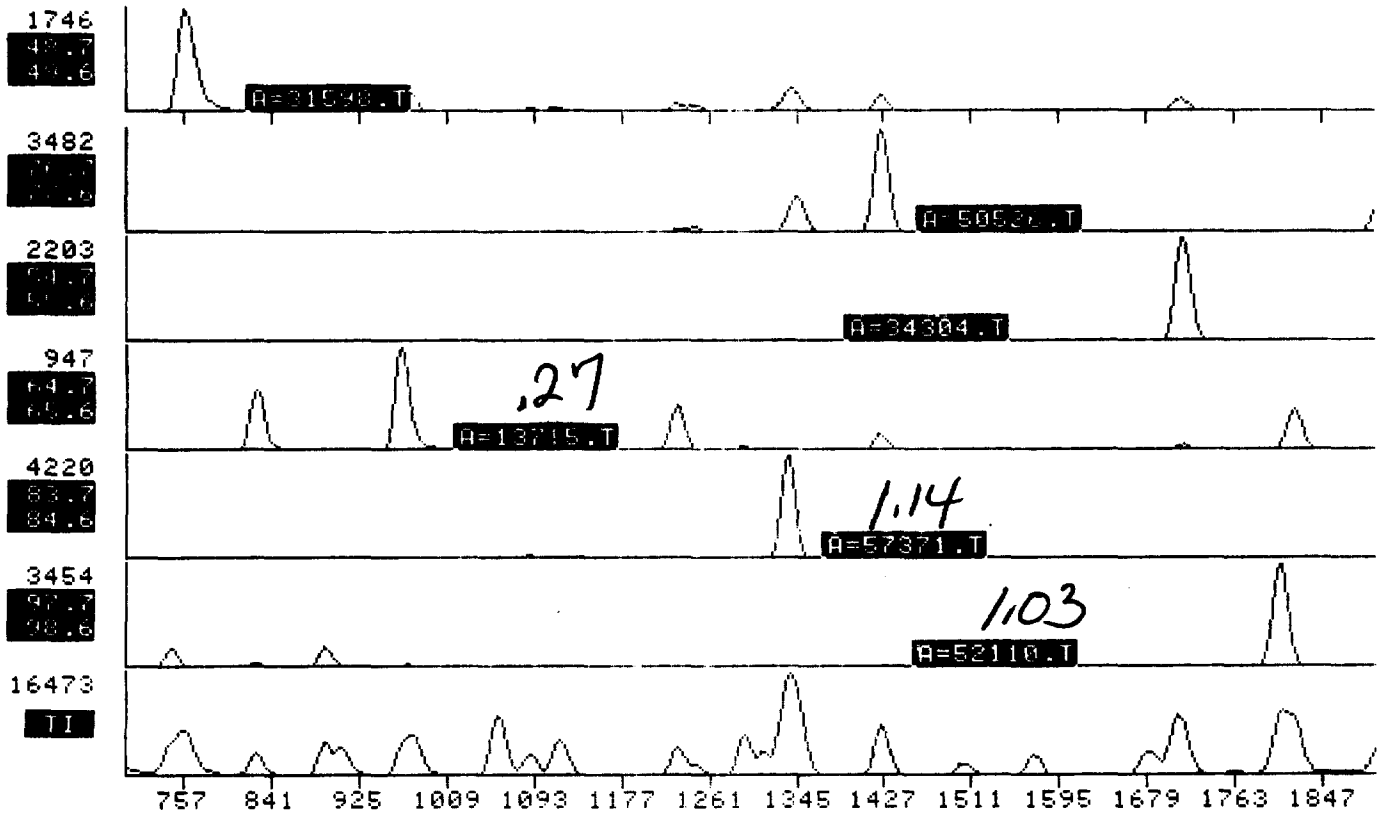
NAME SF-3414 SUNRISE LANDFILL 86FB08R13 FRN 11556
MISC 8-7-86 BTL#2 D11556



NAME SF-3413 AM. CHEM. SERVICES 86S501R01 FRN 11557
MISC 8-7-86 BTL#3 D11557



NAME VOLSTD
MISC 8-7-86 BTL#1 D11560 FRN 11560



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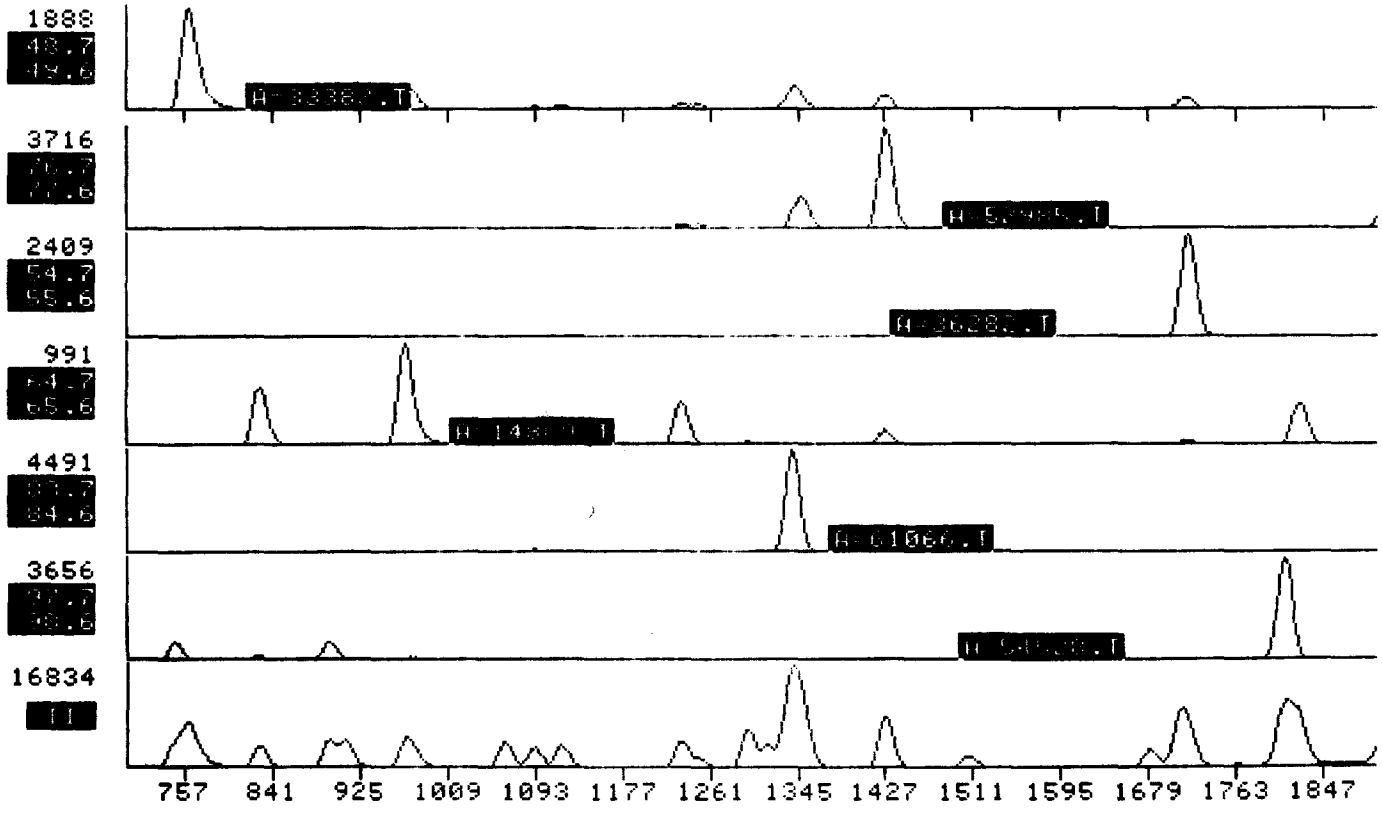
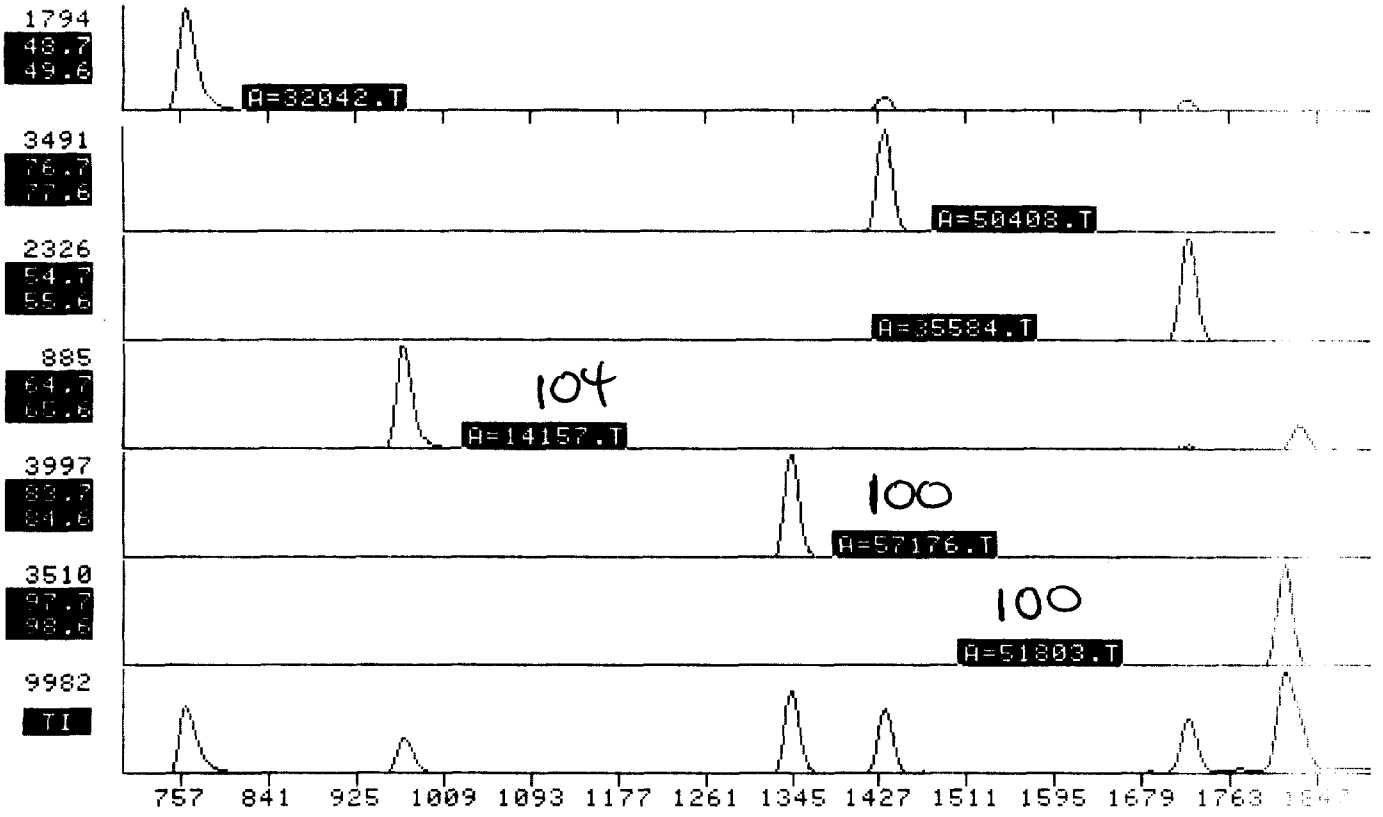
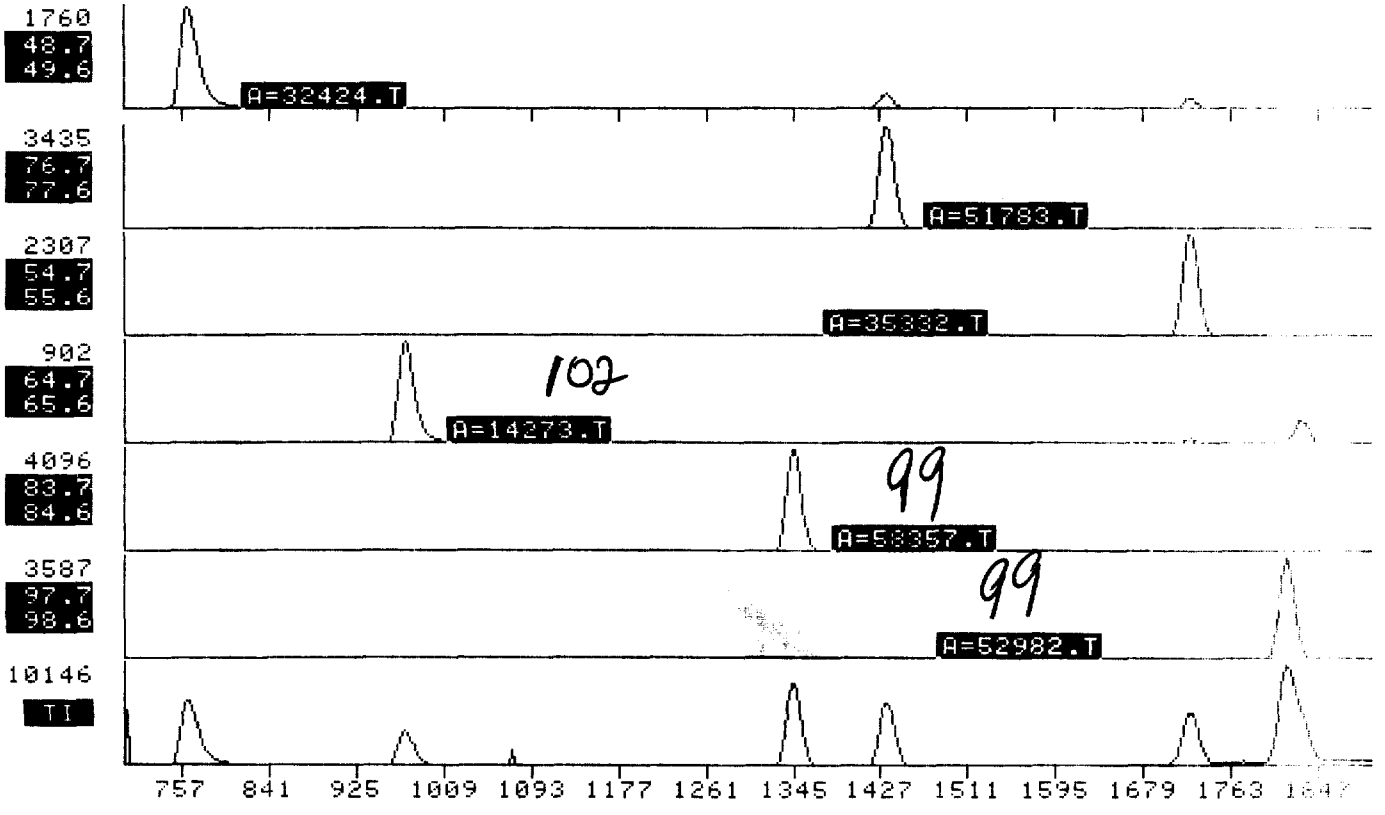
MISC 8-7-86 BTL#2 D11561 FRN 11561



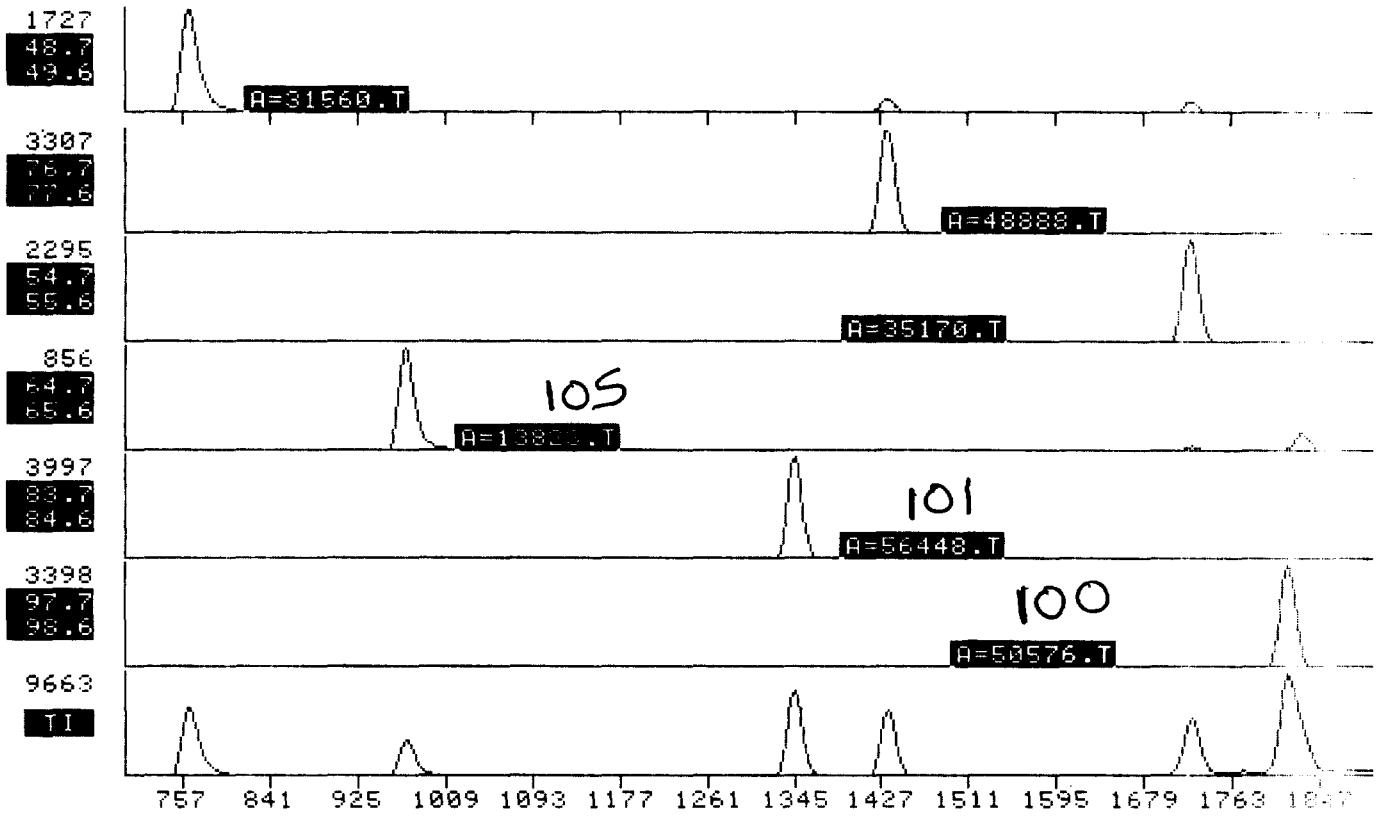
NAME SF-3413 AM. CHEM. SER. 86S501#01 FRN 11563
MISC 8-7-86 BTL#4 D11563



NAME SF-3413 86S501D01 FRN 11564
MISC 8-7-86 BTL#5 D11564



NAME SF-3413 86S501#02 FRN 11565
MISC 8-7-86 BTL#6 D11565



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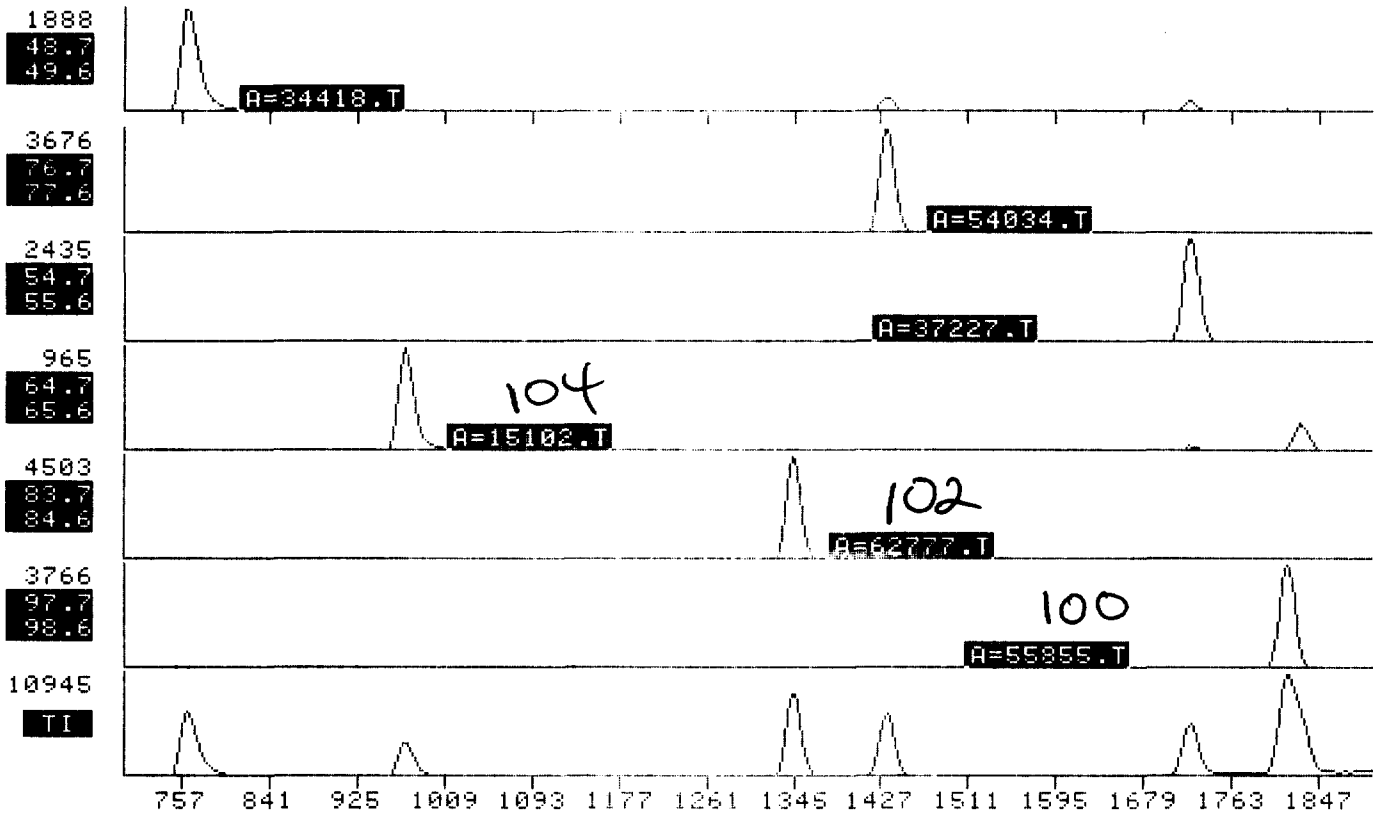
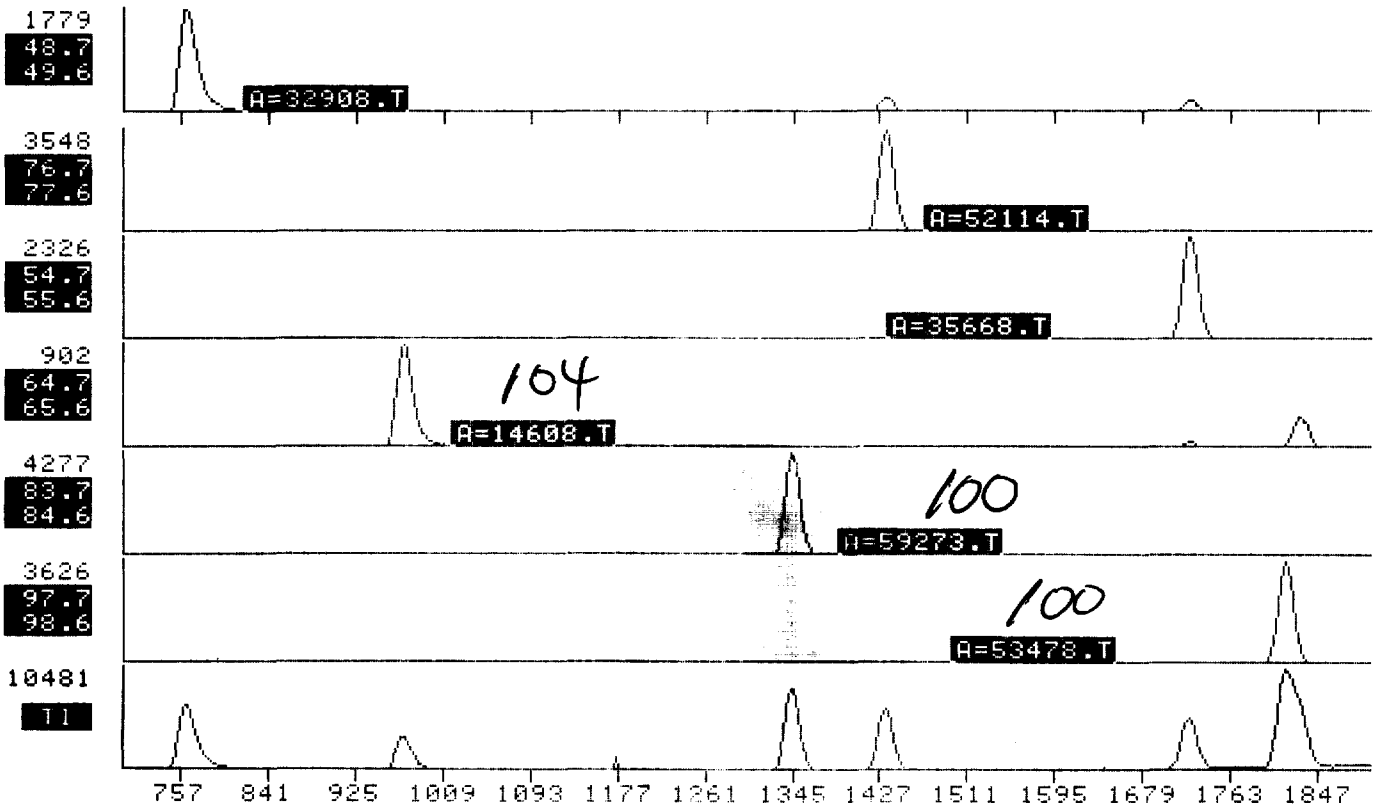
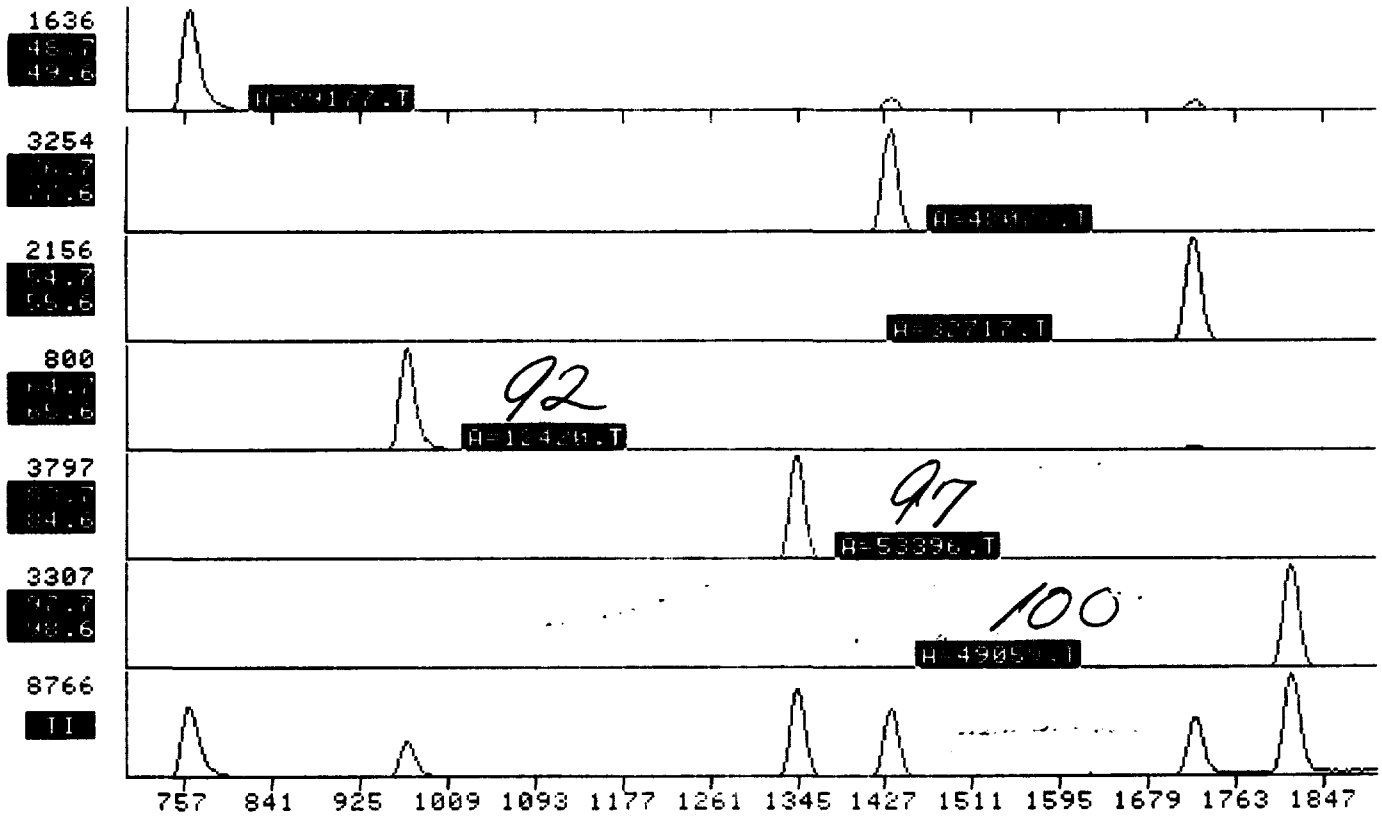
MISC 8-7-86 BTL#7 D11566



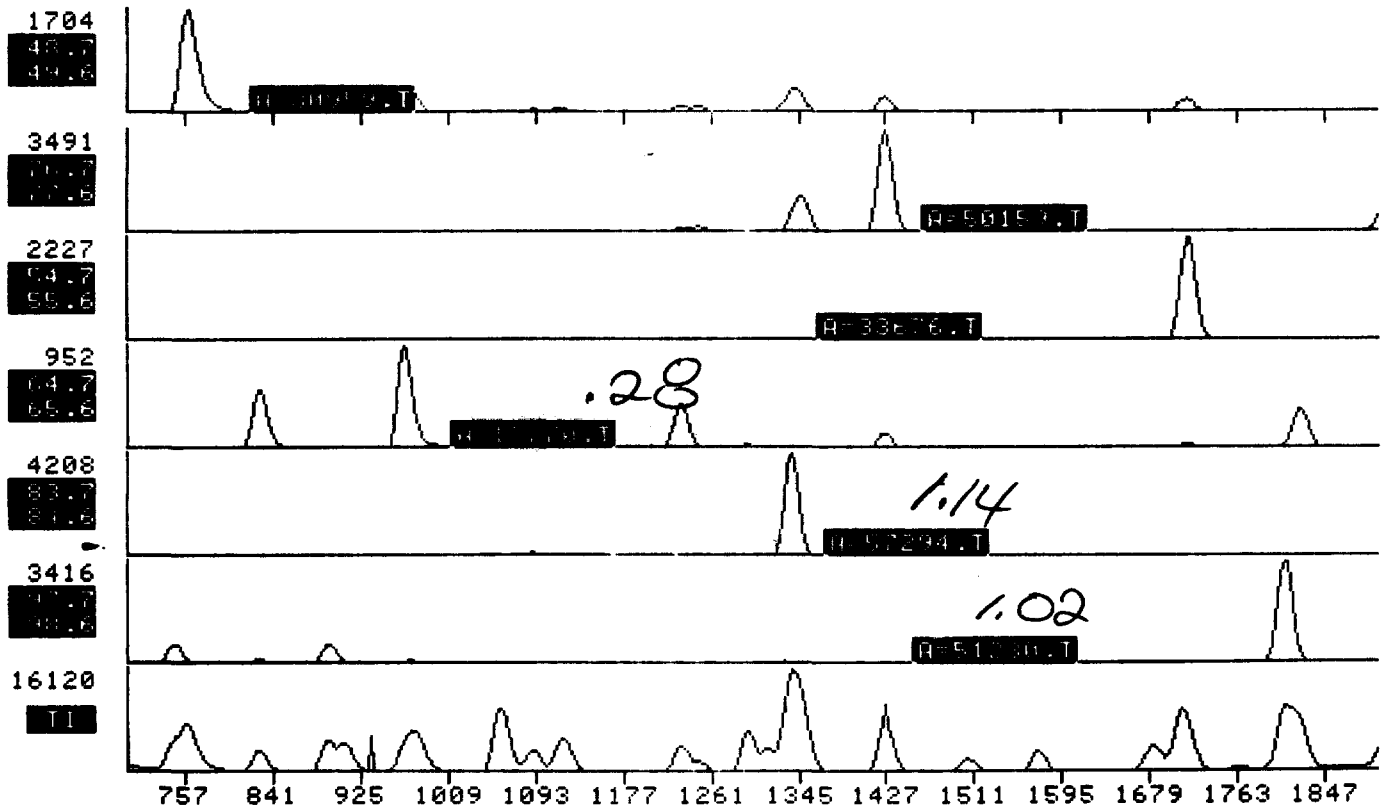
NAME SF-3413 86S501$05 FRN 11568
MISC 8-7-86 BTL#9 D11568



NAME LABBLANK
MISC 8-8-86 BTL#1 D11570 FRN 11570



NAME VOLSTD
MISC 8-8-86 BTL#2 D11571 FRN 11571



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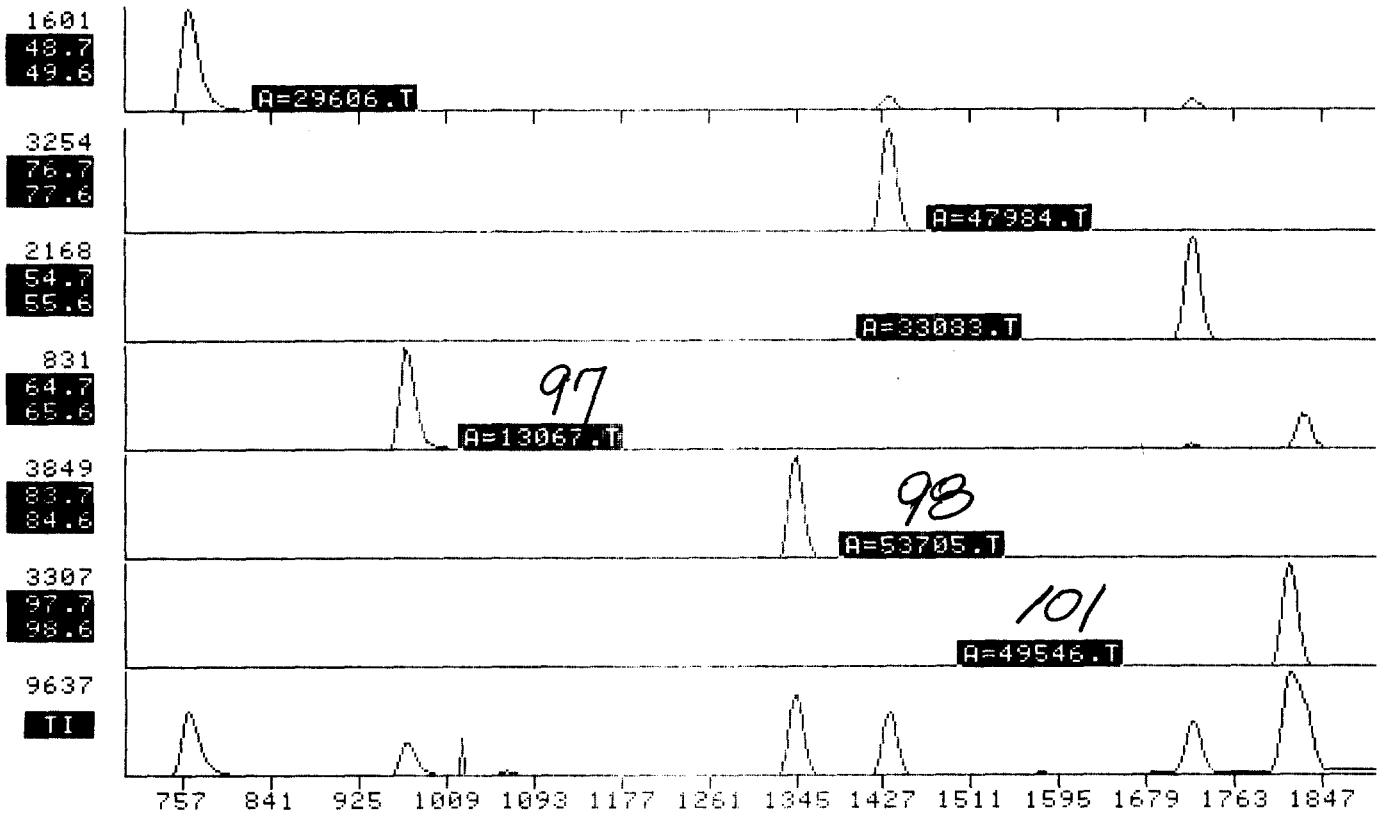
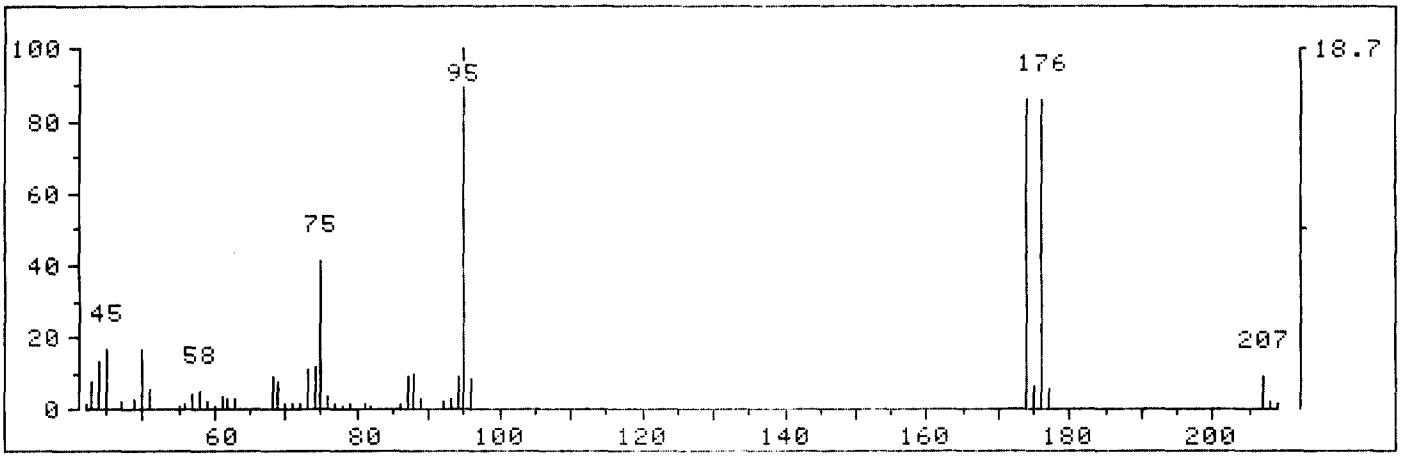
MISC 8-8-86 BTL#3 D11572



LABBLANK
8-8-86 BTL#1 D11570 3031 SCANS (3031 SCANS, 43.72 MINS) FRN 11570, CRN 10
MASS RANGE: 41.0, 248.9 TOTAL ABUND= 1839309.

#2337 RET. TIME: 34.95 TOT ABUND= 5577. BASE PK/ABUND: 95.0/ 1043.

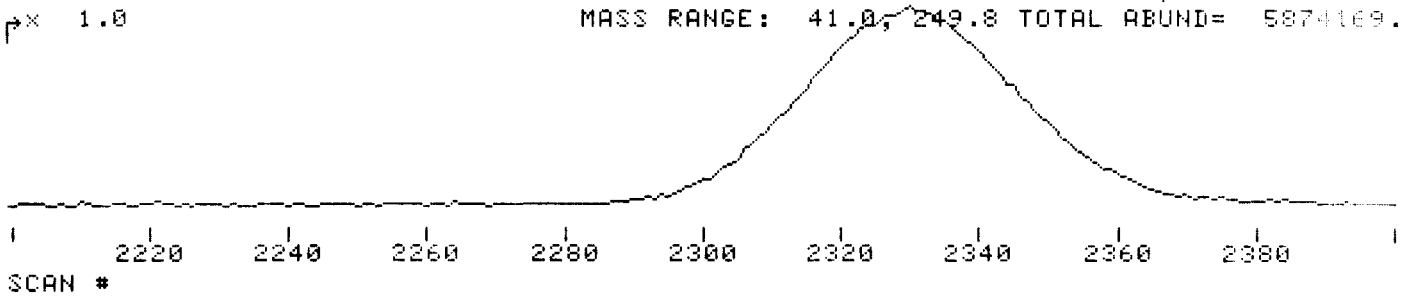


FRN 11570, SPECTRUM # 2337 RET.TIME: 34.95, 47 PEAKS

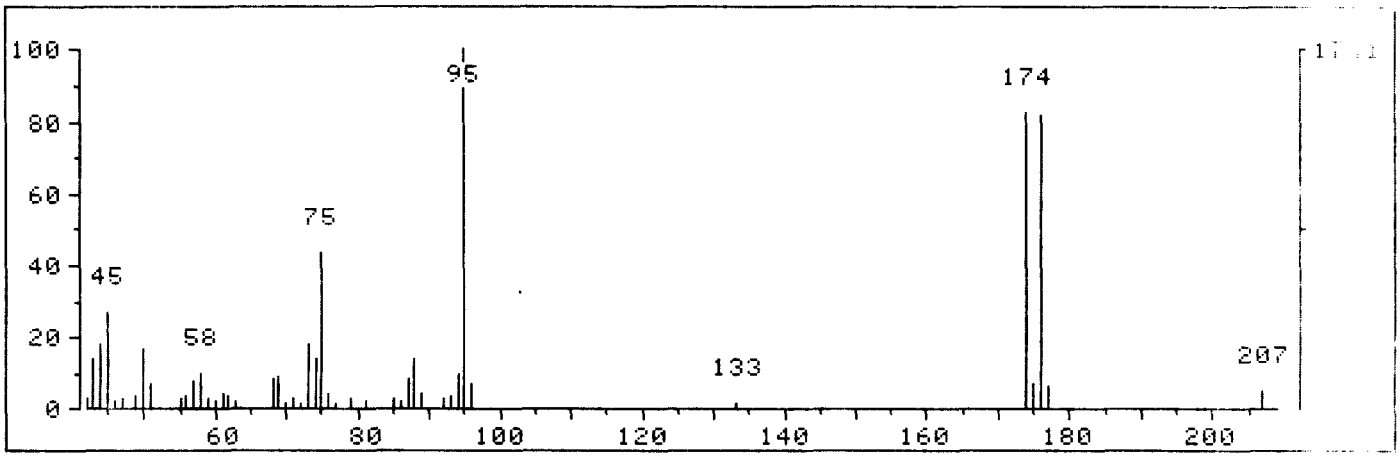
M/Z	REL ABUND	M/Z	REL ABUND	M/Z	REL ABUND	M/Z	REL ABUND
42	1.4	59	2.2	75	41.2	93	3.1
43	7.7	60	1.3	76	3.9	94	9.4
44	13.1	61	3.9	77	1.9	95	100.0
45	16.9	62	3.1	78	1.2	96	8.2
47	2.7	63	2.8	79	1.9	174	85.7
49	3.3	68	9.3	81	1.8	175	6.4
50	16.5	69	7.6	82	1.2	176	86.2
51	5.9	70	1.4	86	1.6	177	6.0
55	1.3	71	1.5	87	9.0	207	9.6
56	1.5	72	1.7	88	10.2	208	2.1
57	4.2	73	11.1	89	3.3	209	1.8
58	5.1	74	12.0	92	2.4		

>PAUSE

VOLSTD
8-7-86 BTL#1 D11560 3017 SCANS (201 SCANS, 2.93 MINS)
FRN 11560, CRN 17
X 1.0 MASS RANGE: 41.0, 249.8 TOTAL ABUND= 5874169.



#2316 RET. TIME: 34.80 TOT ABUND= 4266. BASE PK/ABUND: 95.1/ 723.



FRN 11560, SPECTRUM # 2316 RET.TIME: 34.80, 46 PEAKS

M/Z	REL ABUND	M/Z	REL ABUND	M/Z	REL ABUND	M/Z	REL ABUND
42	2.7	58	10.2	74	13.7	93	3.7
43	14.3	59	2.9	75	43.5	94	10.0
44	18.4	60	2.5	76	4.1	95	100.0
45	26.7	61	4.1	77	1.9	96	7.4
46	2.1	62	3.8	79	2.7	133	1.6
47	3.0	63	2.6	81	2.3	174	82.7
49	3.7	68	8.4	85	3.0	175	7.1
50	16.6	69	9.3	86	2.3	176	82.2
51	6.9	70	1.9	87	8.8	177	6.3
55	2.7	71	2.7	88	13.9	207	5.1
56	3.4	72	1.9	89	4.3		
57	7.7	73	17.8	92	2.7		

>PAUSE

QUALITY CONTROL SHEET
TOXIC ORGANIC SECTION: VOLATILES

STUDY NAME American Chemical Service ACTIVITY NUMBER C41100 ANALYST K Bolger

STUDY NUMBER SF-3413

SUMMARY: BLANKS DATA

#	FRN	DATE	BLANK TYPE	COMPOUNDS DETECTED	ESTIMATED CONCENTRATION (PPB)	STD USED
1.	11555	8/7/86	LABBLANK	Methylene Chloride	9.7*	BCP
2.	11557	8/7/86	FIELD BLANK (86S501R01)	1,1,1 Trichloroethane	2.9	BCP
3.	11570	8/8/86	LABBLANK	No Compounds Detected	0	BCP
4.				* May be due to Airborne Contaminants during painting of nearby lab area K Bolger 8/11/86		

SF-3413

Central Regional Laboratory
U.S. Environmental Protection Agency
536 South Clark Street
Chicago, Illinois 60605
(312) 353-8370

DATA USED FROM SF-3414 RUN SIMULTANEOUSLY

QUALITY CONTROL SHEET

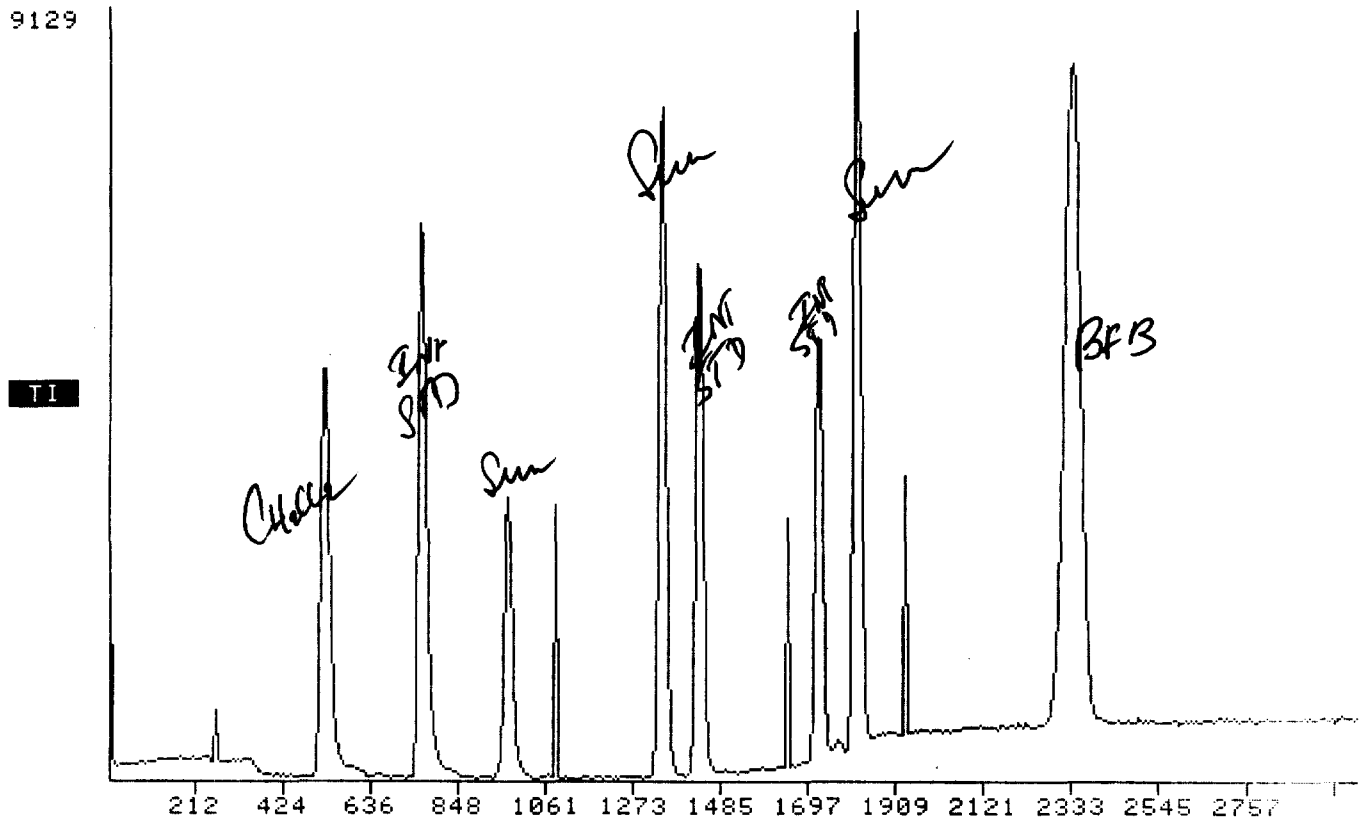
Duplicate Matrix Spike and Sample Duplicate

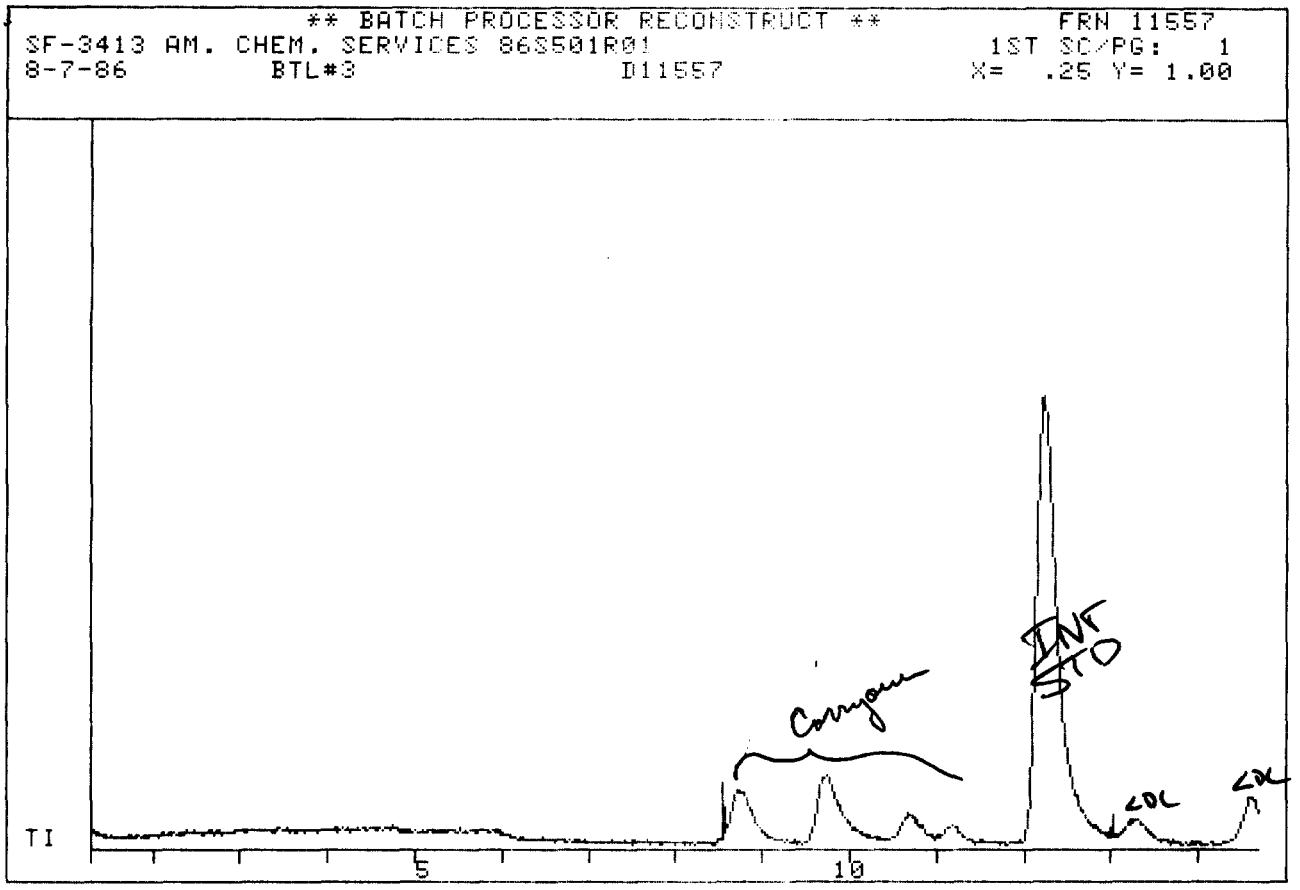
Study No. SF-3414
Study Name SUNRISE LANDFILL
Spike Level AB: 0.1 PPB (2)

Activity No. C48100
Lab Sample I.D. 86FB085991

Volatiles FRN:	11561 PPB	11562 PPB	11561 %	11562 %	RPD
1. Chloromethane					
2. Bromomethane					
3. Vinyl chloride					
4. Chloroethane					
5. Methylene chloride			90	93	3
6. Acrolein					
7. Acetone					
8. Acrylonirile					
9. Carbon disulfide					
10. 1,1-Dichloroethylene			96	99	3
11. Bromochloromethane (Int. Std.)					
12. 1,1-Dichloroethane			98	103	5
13. 1,2-Dichloroethylene			98	103	5
14. Chloroform			96	100	4
15. 2-Butanone					
16. 1,2-Dichloroethane			98	105	7
17. 1,1,1-Trichloroethane			96	101	5
18. Carbon tetrachloride			98	100	2
19. Vinyl acetate					
20. Dichlorobromomethane			99	104	5
21. 1,2-Dichloropropane			96	102	6
22. 1,2-Dichloro-1-propene (Trans)			96	99	3
23. Trichloroethylene			95	100	5
24. Benzene			92	96	4
25. Dibromochloromethane			96	104	8
26. 1,1,2-Trichloroethane			98	104	6
27. 1,3-Dichloro-1-propene (CIS)			99	103	4
28. 2-Chloroethyl vinyl ether					
29. Bromoform			97	106	9
30. 4-methyl-2-pentanone					
31. 2-Hexanone					
32. Tetrachloroethylene			94	98	4
33. 1,1,2,2-Tetrachloroethane			100	109	9
34. 1,4-Dichlorobutane (Int. Std.)					
35. Toluene			99	104	5
36. Chlorobenzene			97	100	3
37. Ethylbenzene			96	99	3
38. Styrene					
39. m-xylene					
40. o/p-xylene					

NAME LABBLANK
MISC 8-7-86 BTL#1 D11555 FRN 11555

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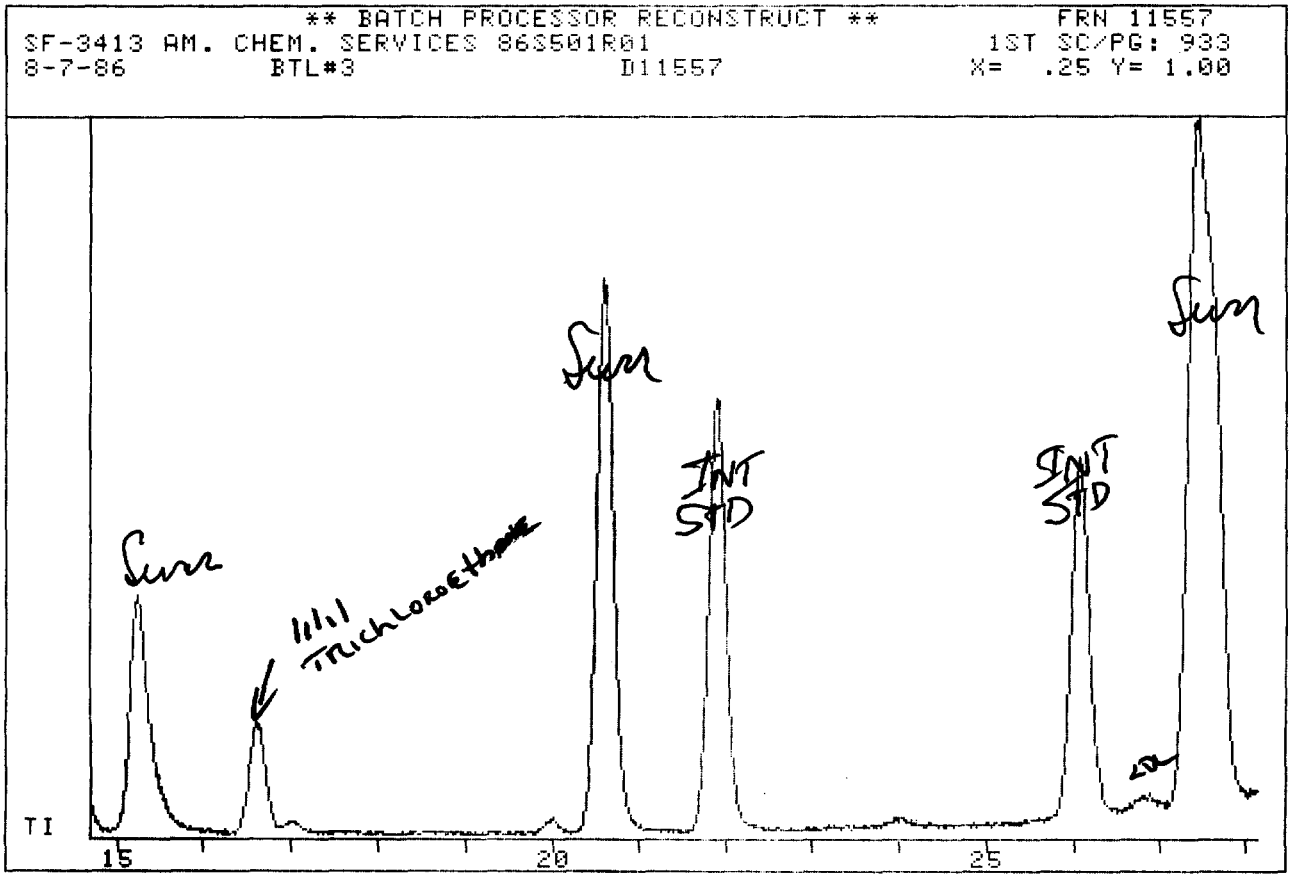
FRN 11557
SF-3413 AM. CHEM. SERVICES 86S501R01
1ST SC/PG: 1
8-7-86
BTL#3
D11557
X= .25 Y= 1.00
TI
5
10
Compounds
INT STD
<DL
<DL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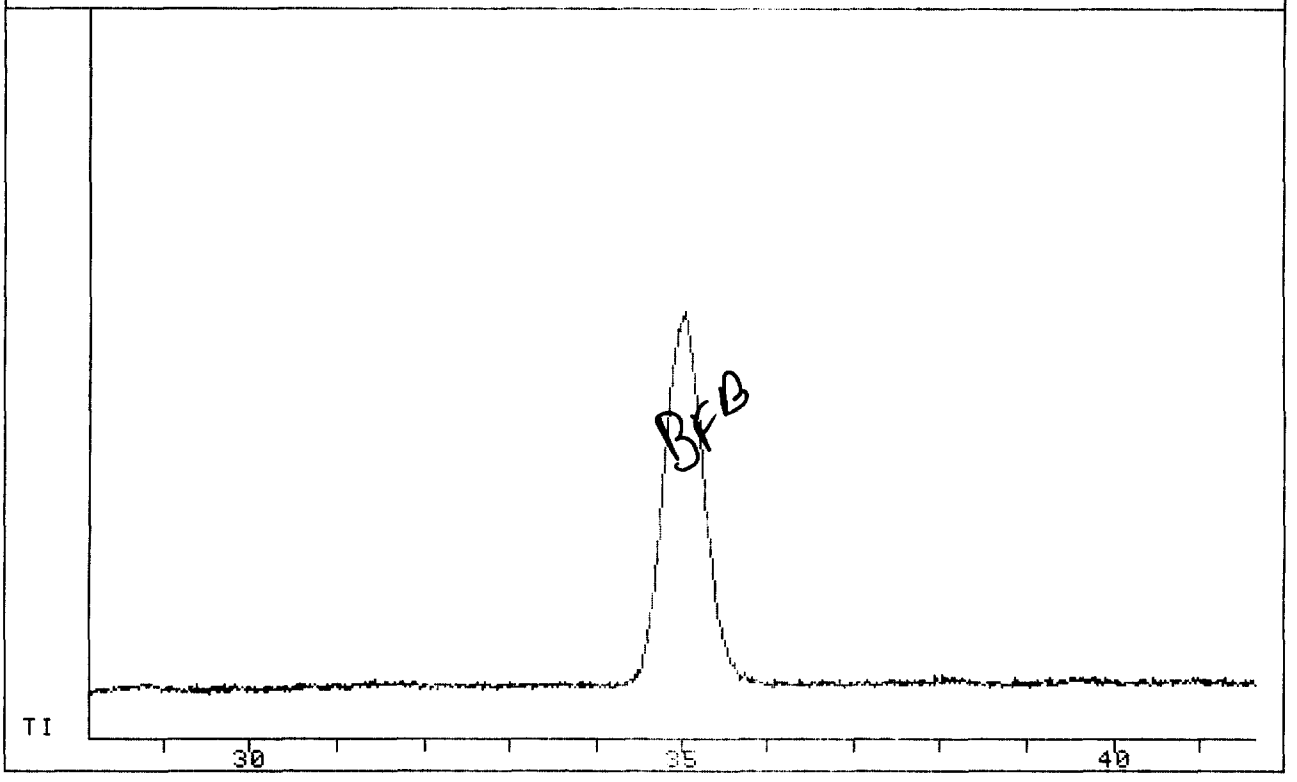
FRN 11557
SF-3413 AM. CHEM. SERVICES 86S501R01
1ST SC/PG: 933
8-7-86
BTL#3
D11557
X= .25 Y= 1.00
TI
15
20
25
Surr
1,1,1 Trichloroethane
Surr
INT STD
INT STD
Surr
<DL

** BATCH PROCESSOR RECONSTRUCT ** FRN 11557
SF-3413 AM. CHEM. SERVICES 86S501R01 1ST SC/PG:1865
8-7-86 BTL#3 D11557 X= .25 Y= 1.00



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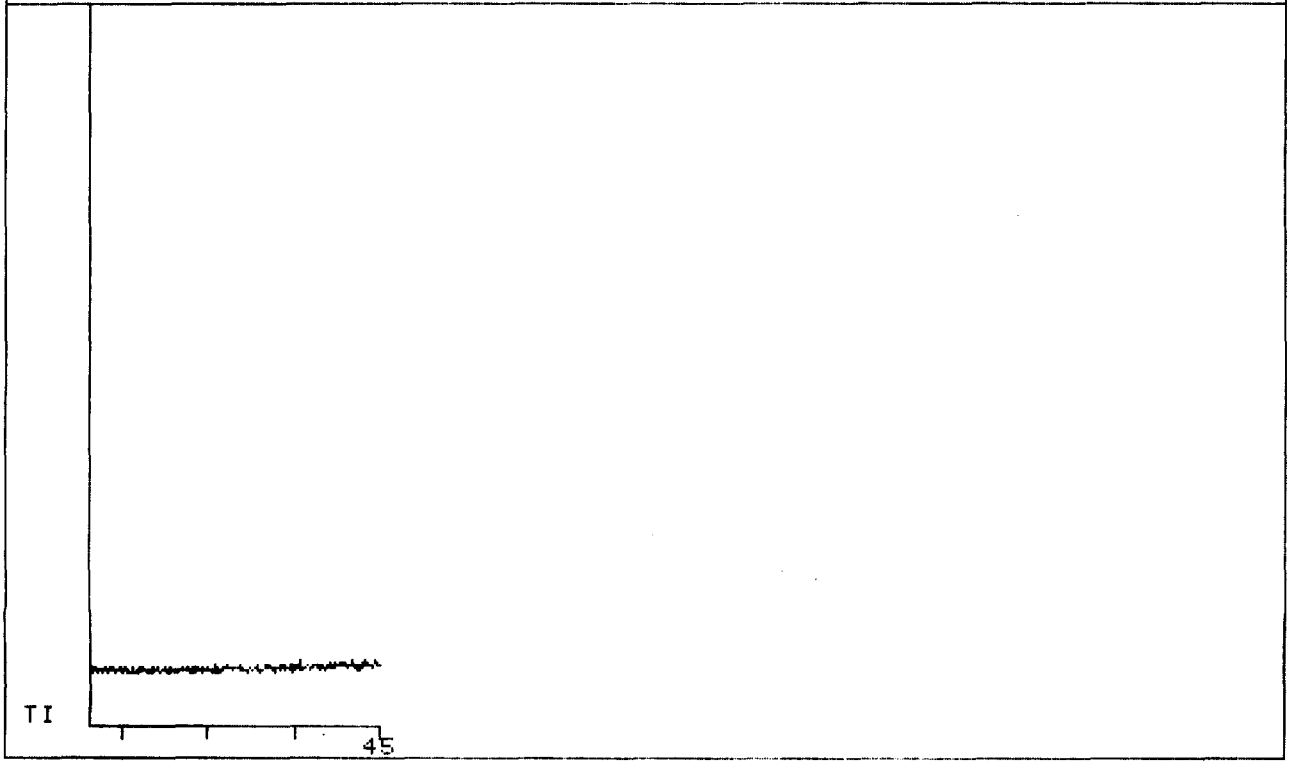
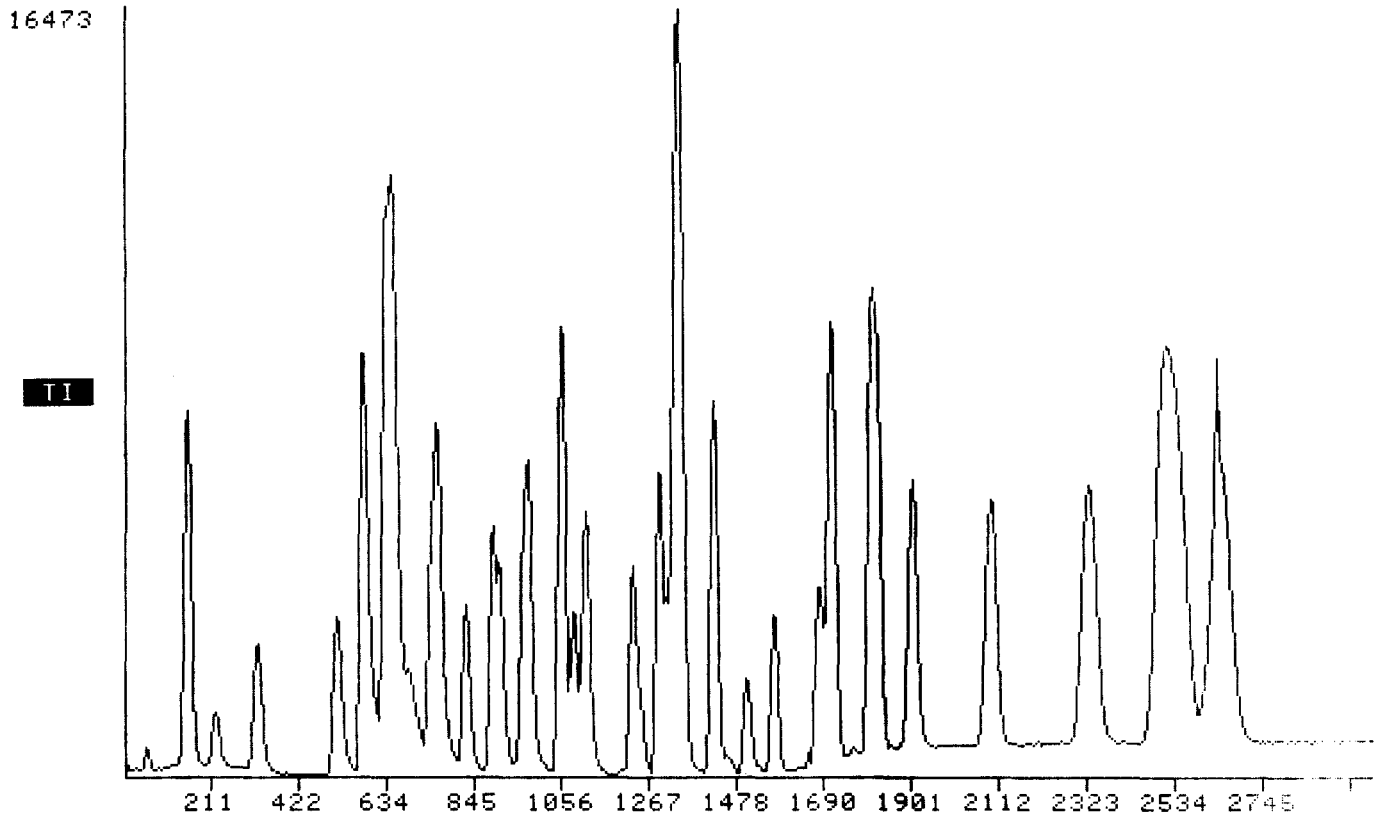
SF-3413 AM. CHEM. SERVICES 86S501R01 1ST SC/PG:2797
8-7-86 BTL#3 D11557 X= .25 Y= 1.00



NAME VOLSTD
MISC 8-7-86 BTL#1 D11560 FRN 11560



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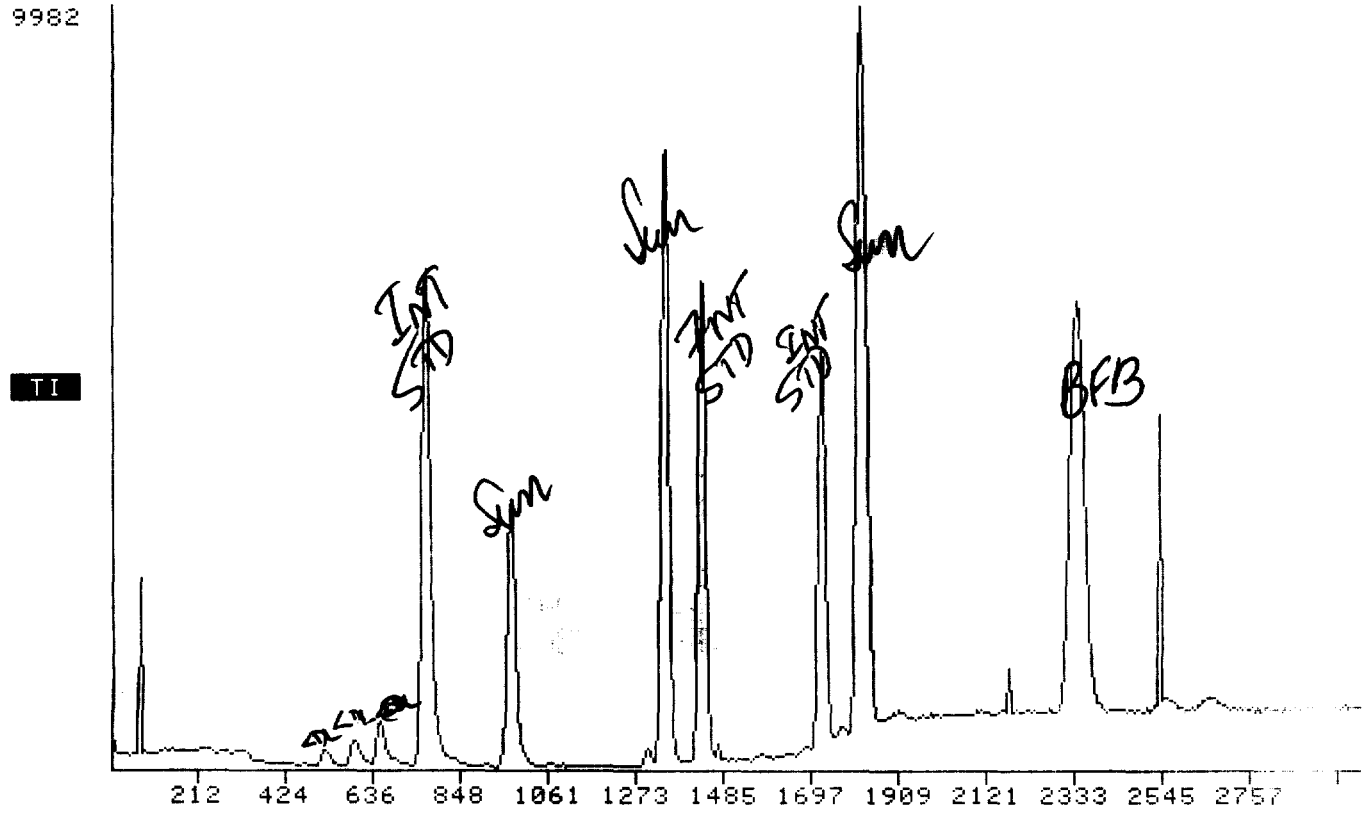
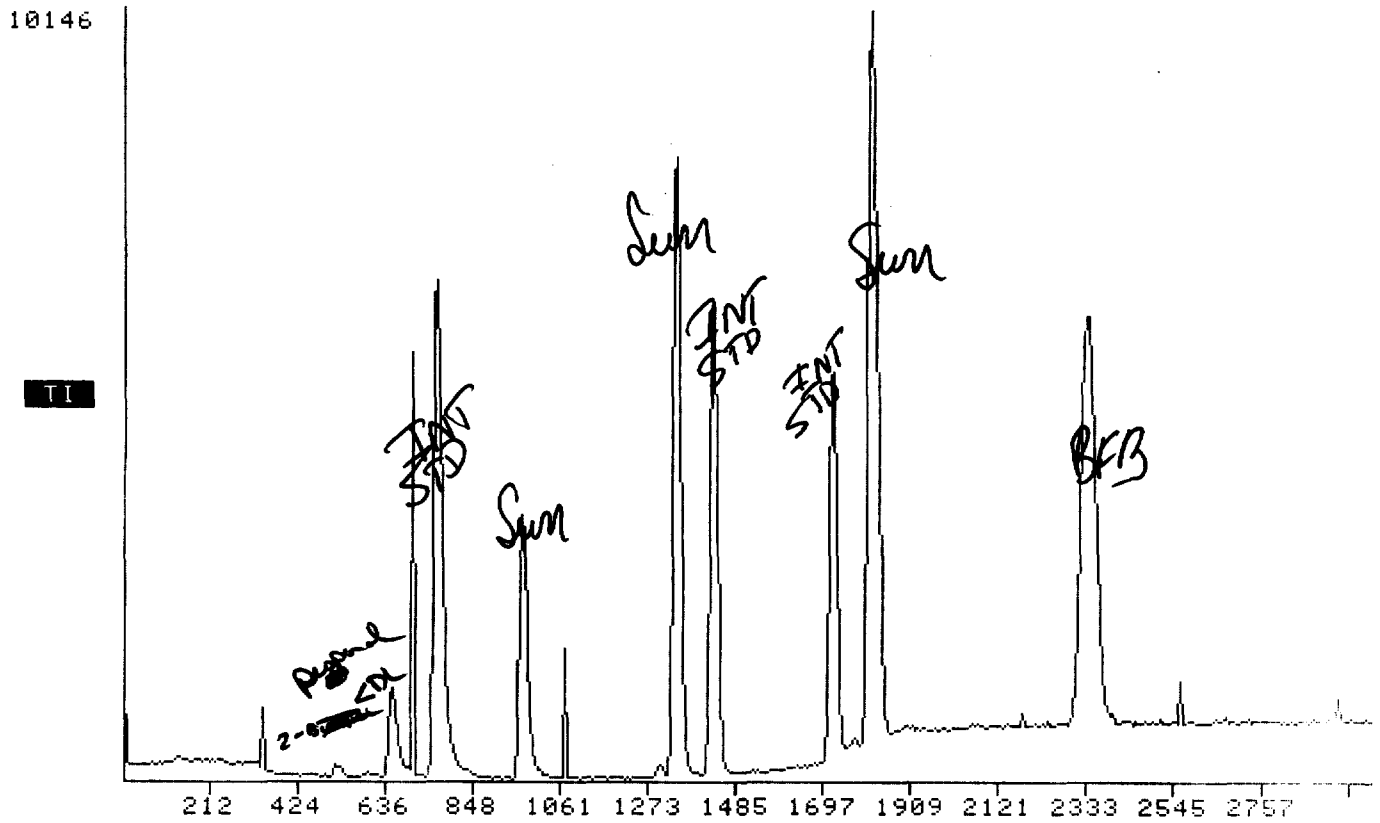
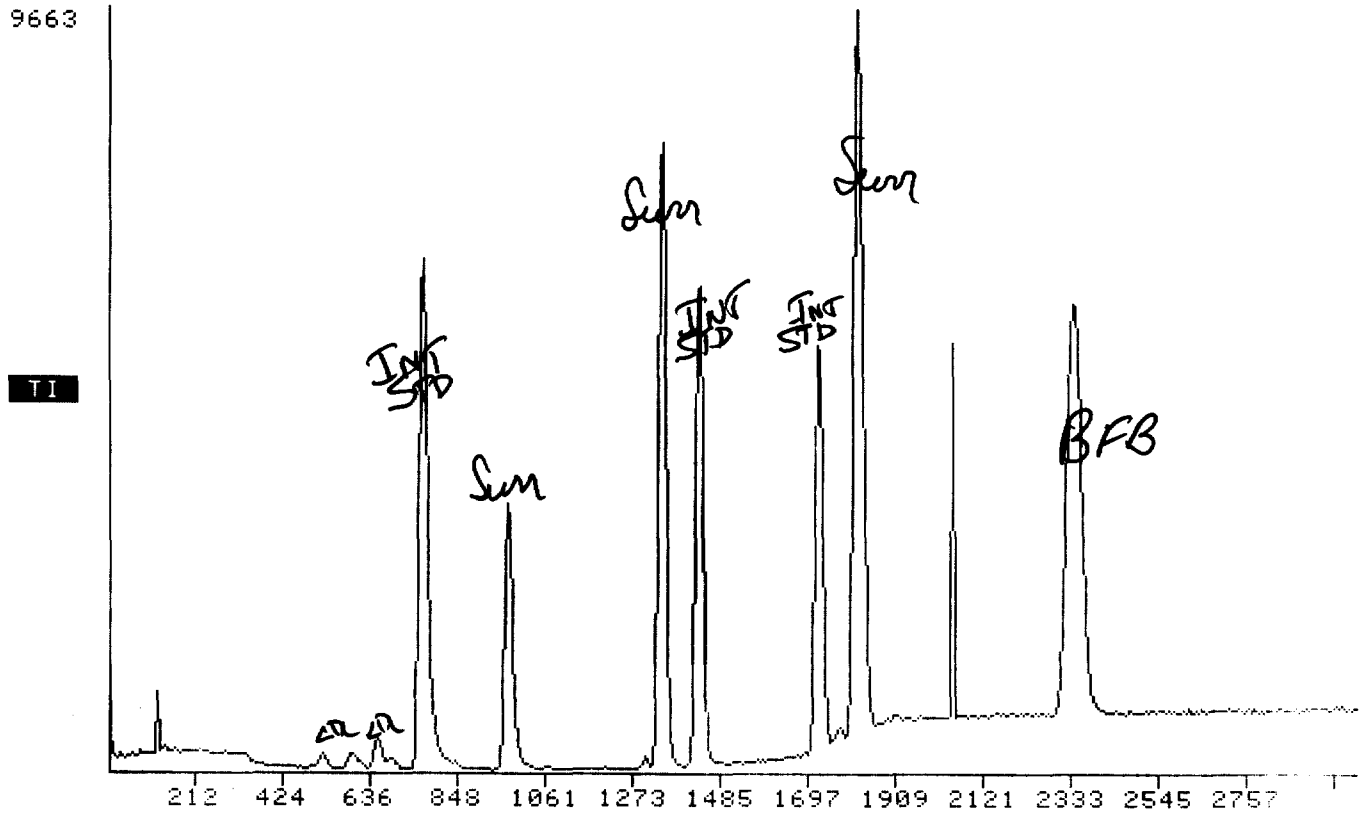
MISC 8-7-86 BTL#4 D11563 FRN 11563



NAME SF-3413 86S501D01 FRN 11564
MISC 8-7-86 BTL#5 D11564



NAME SF-3413 86S501$02 FRN 11565
MISC 8-7-86 BTL#6 D11565



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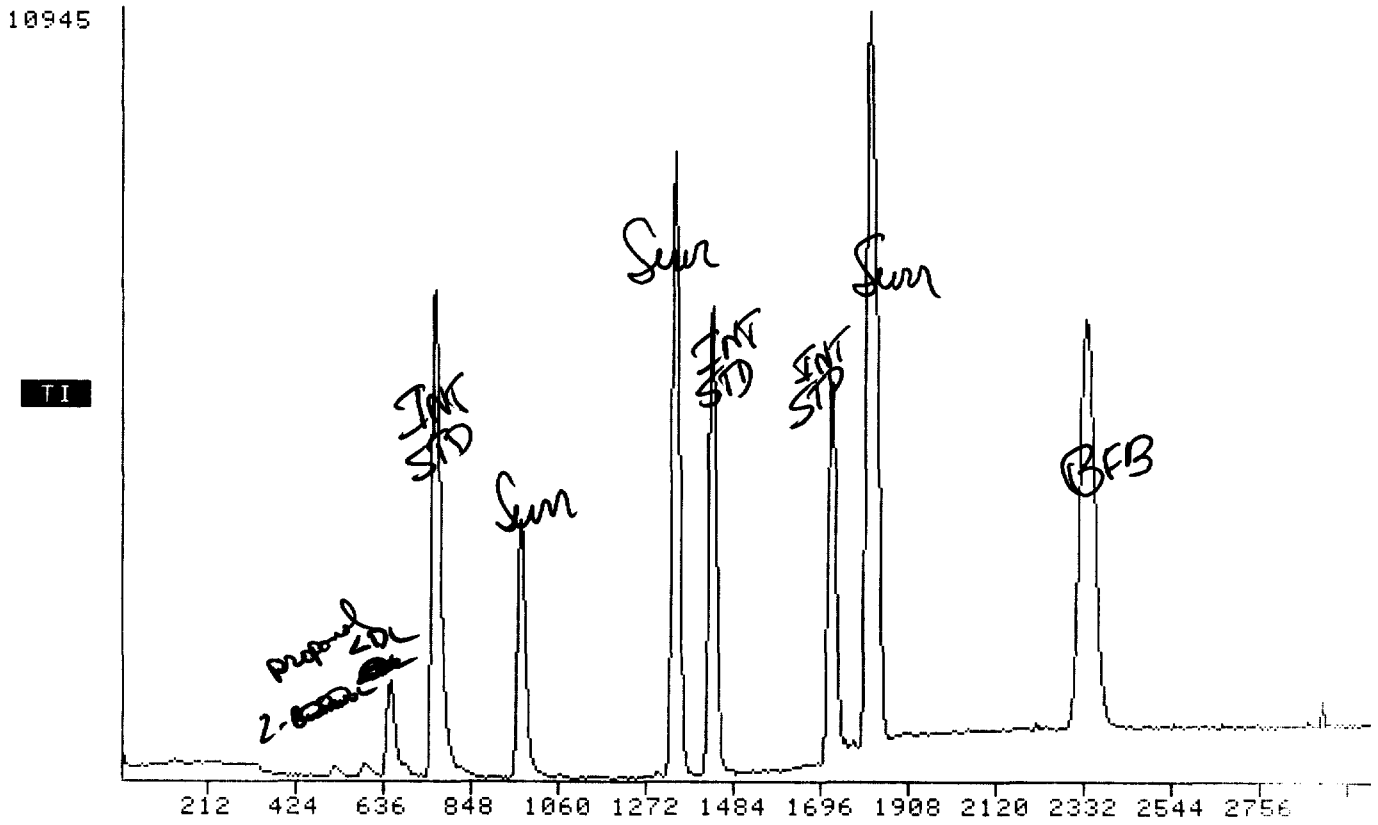
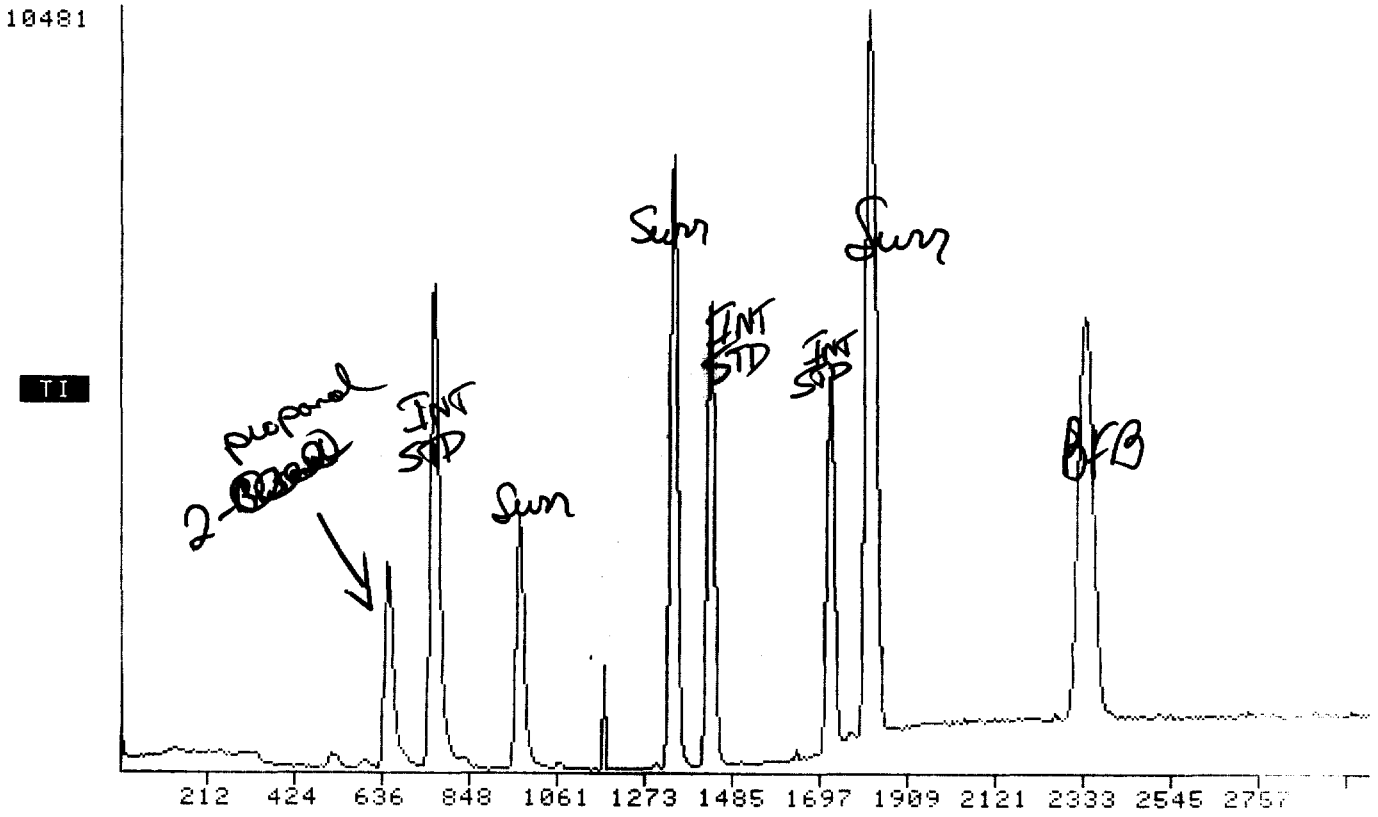
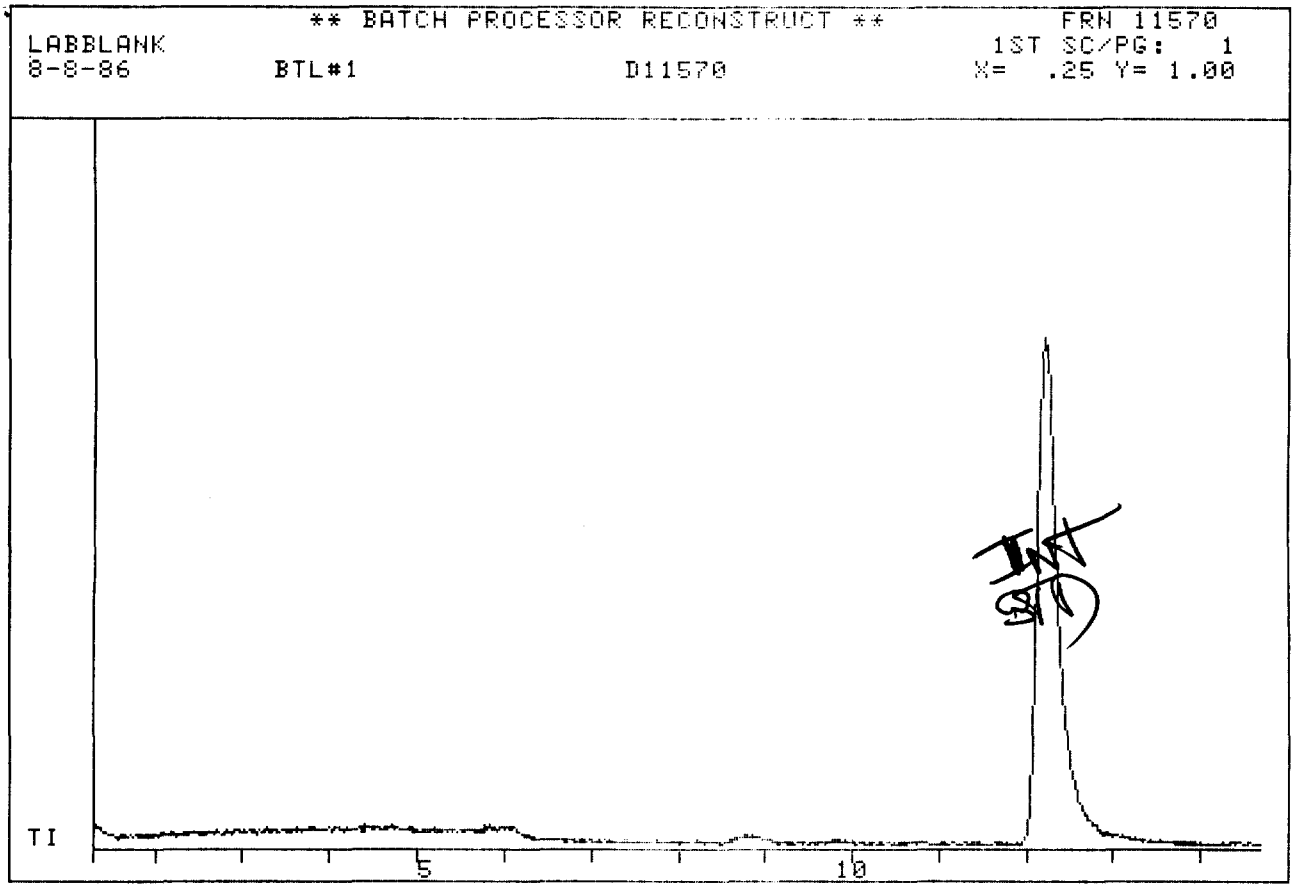
MISC 8-7-86 BTL#7 D11566 FRN 11566



NAME SF-3413 86S501#05
MISC 8-7-86 BTL#9 D11568 FRN 11568

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FRN 11570
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8-8-86
BTL#1
D11570
X= .25 Y= 1.00
TI
5
10

** BATCH PROCESSOR RECONSTRUCT **
FRN 11570
LABBLANK
1ST SC/PG: 933
8-8-86
BTL#1
D11570
X= .25 Y= 1.00
TI
15
20
25

** BATCH PROCESSOR RECONSTRUCT **

LABBLANK FRN 11570

8-8-86 BTL#1 D11570 1ST SC/PG:1865

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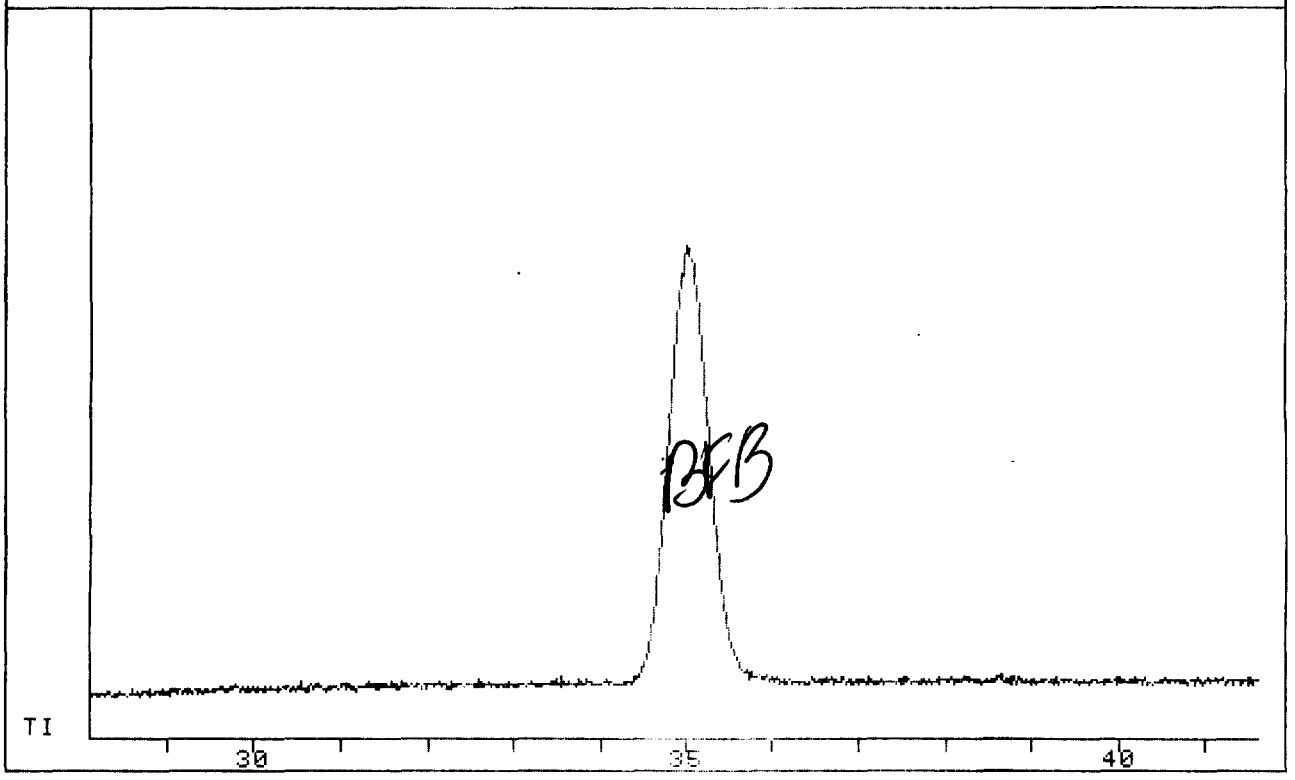

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LABBLANK FRN 11570

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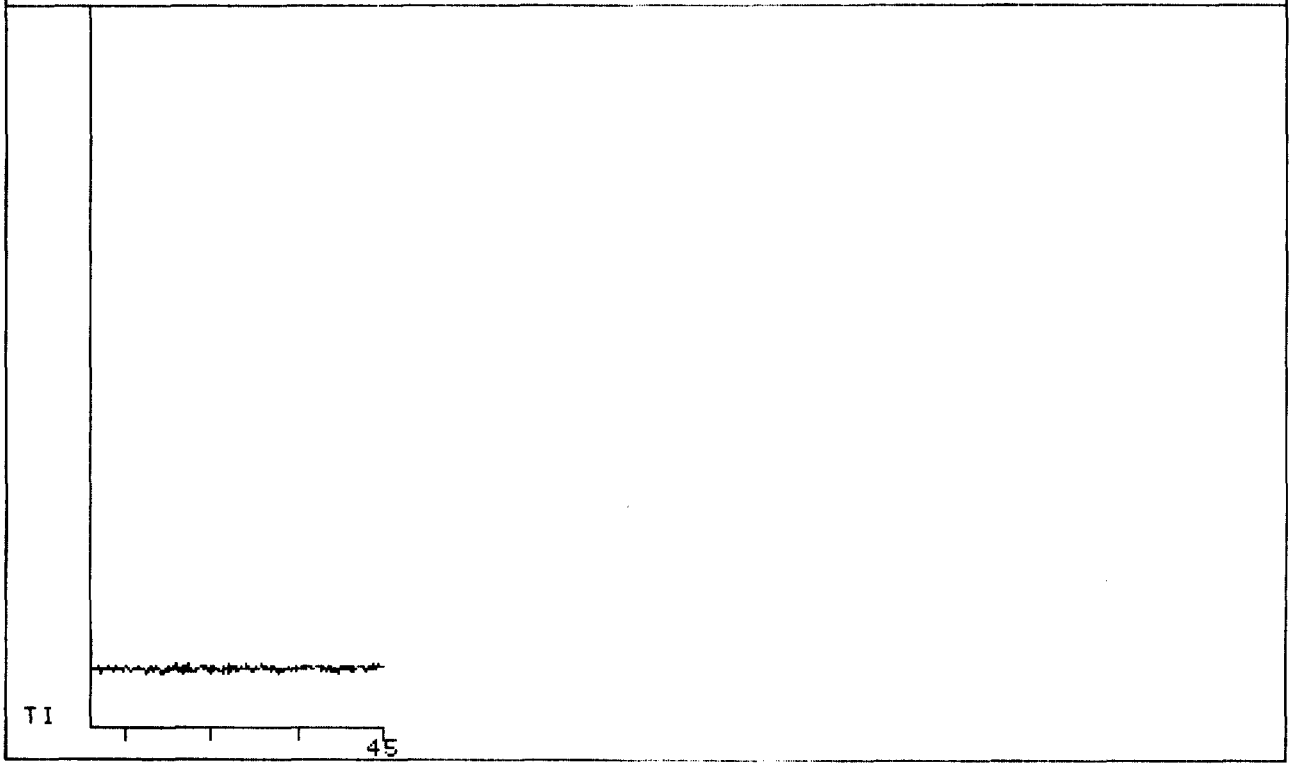

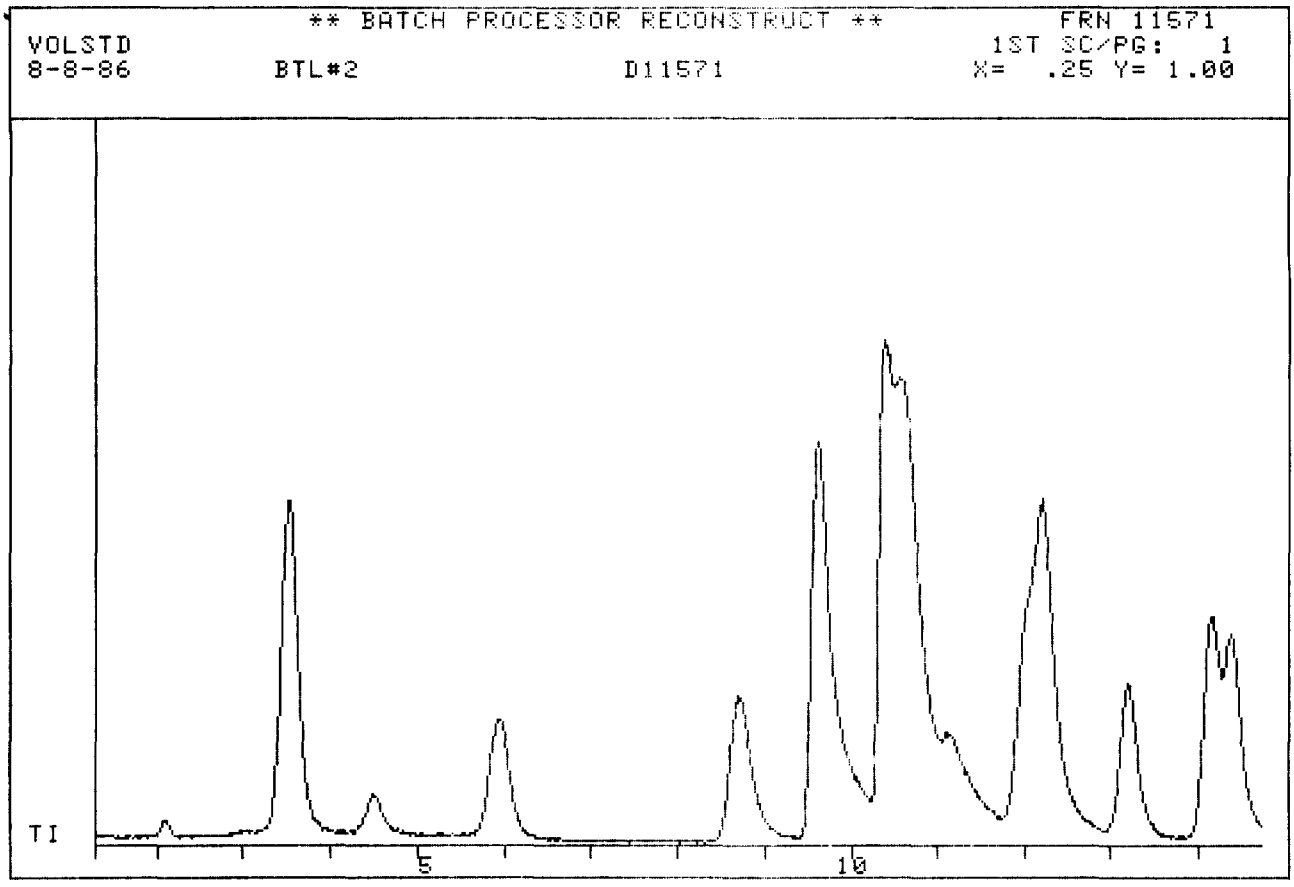
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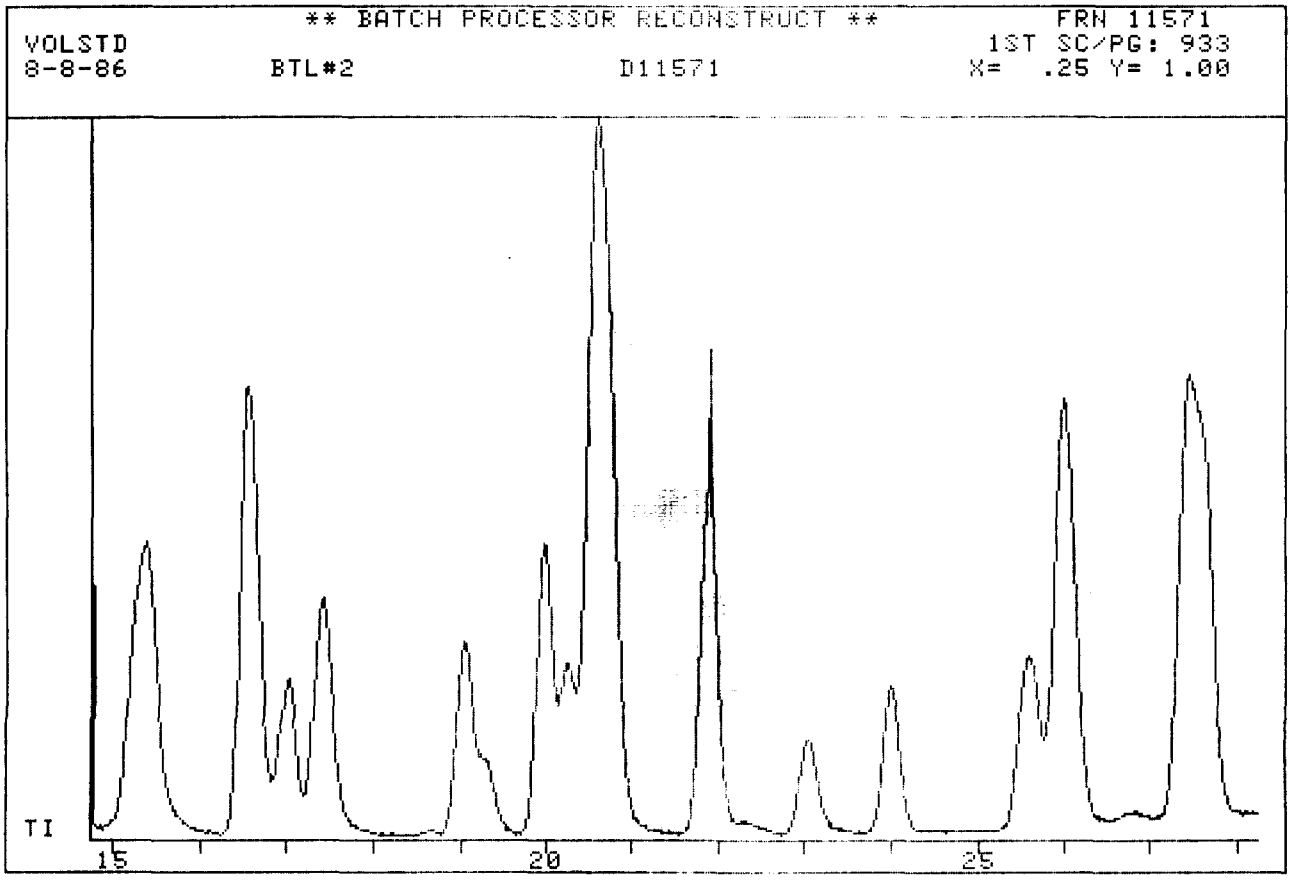
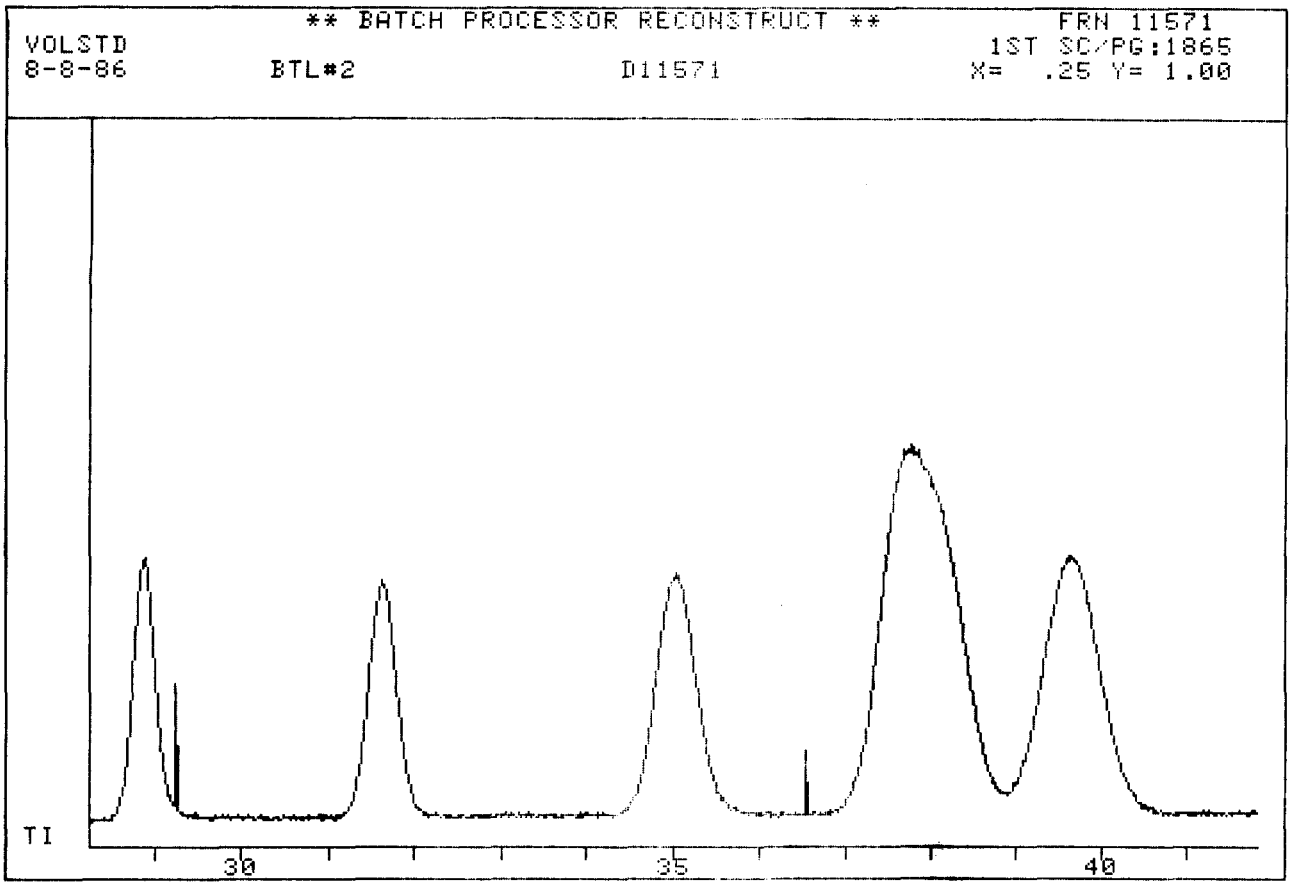
FRN 11571
VOLSTD
1ST SC/PG: 1
8-8-86
BTL#2
D11571
X= .25 Y= 1.00
TI
5
10


** BATCH PROCESSOR RECONSTRUCT **
FRN 11571
VOLSTD
1ST SC/PG: 933
8-8-86
BTL#2
D11571
X= .25 Y= 1.00
TI
15
20
25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FRN 11571
VOLSTD
1ST SC/PG:1865
8-8-86
BTL#2
D11571
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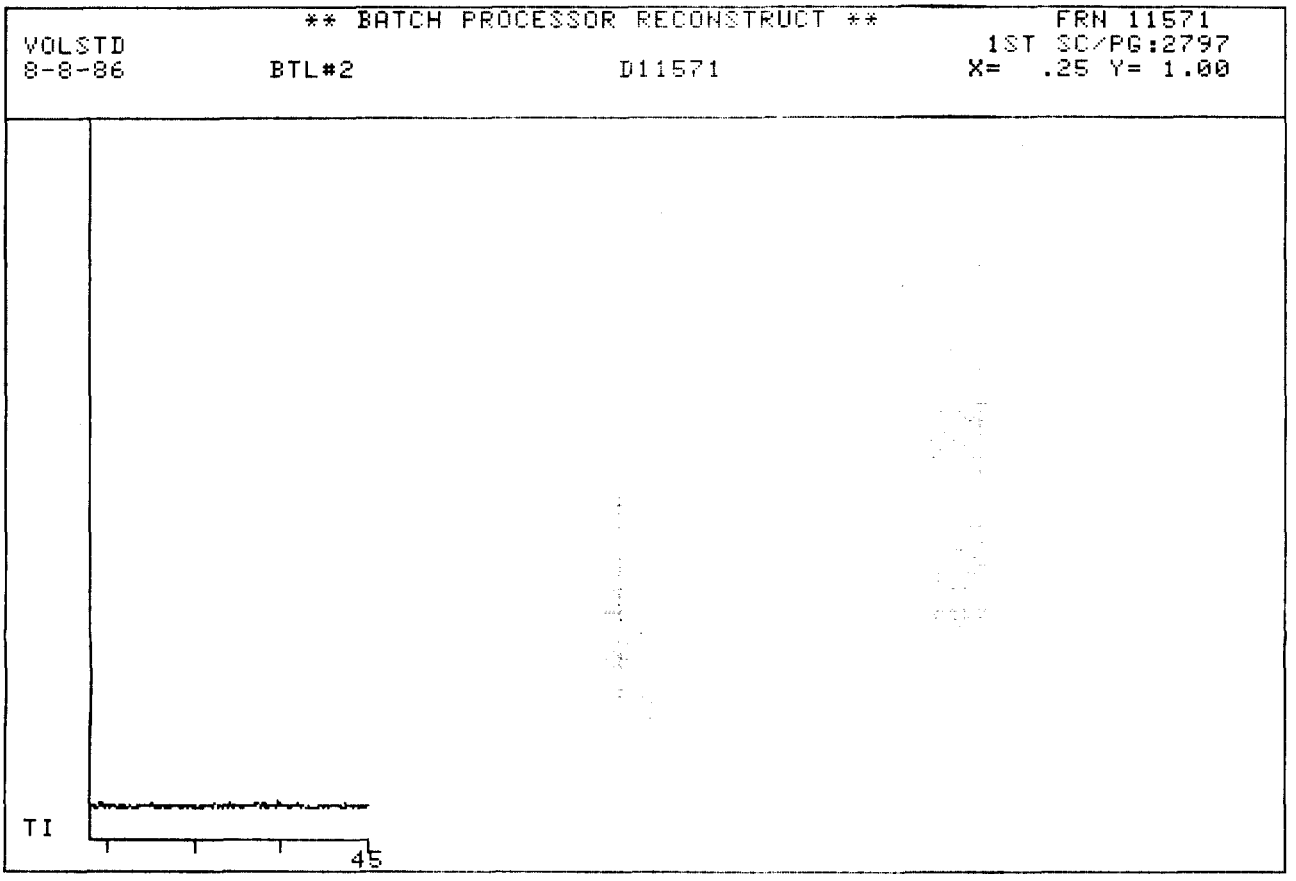
TI
30
35
40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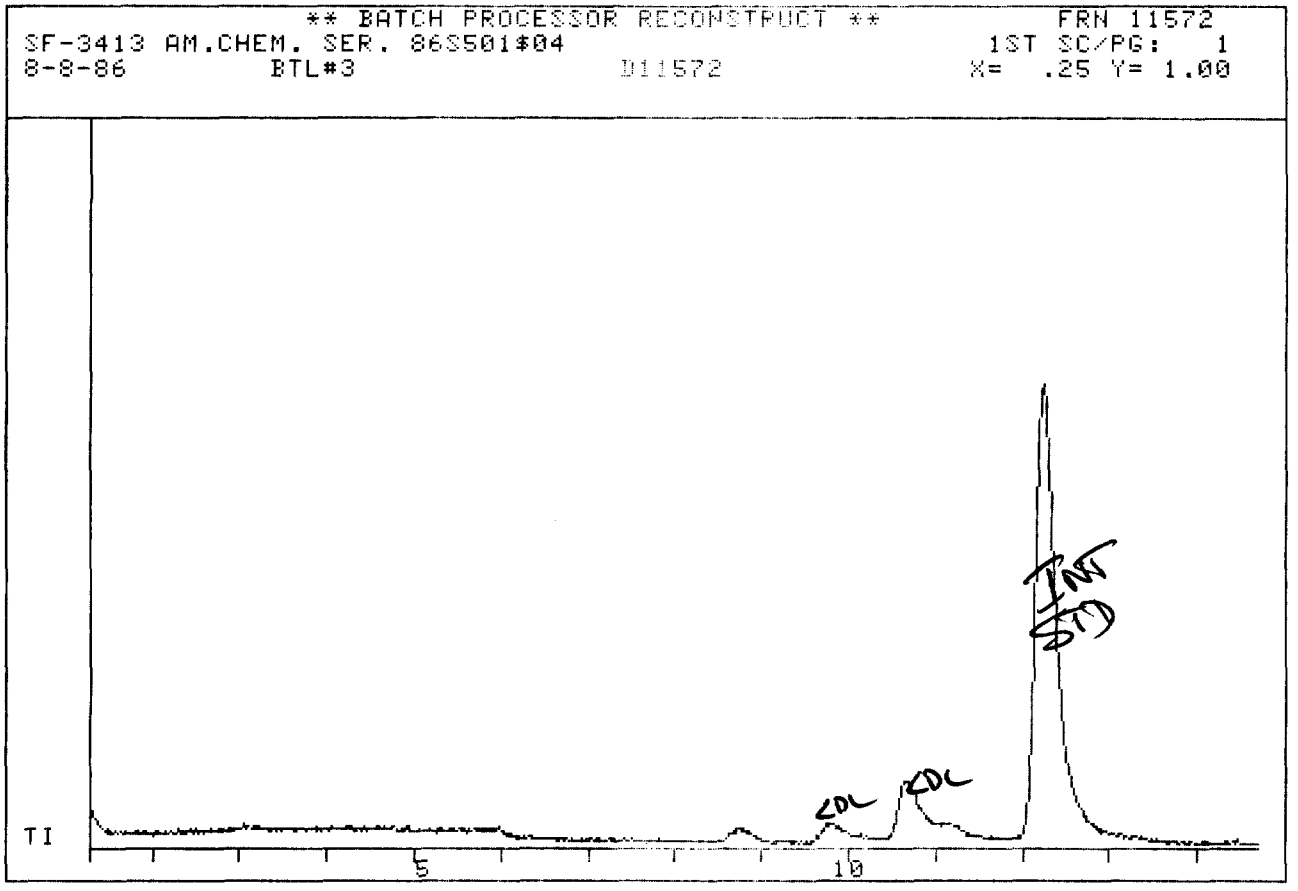
VOLSTD
1ST SC/PG:2797
8-8-86
BTL#2
D11571
X= .25 Y= 1.00
TI
45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FRN 11572
SF-3413 AM.CHEM. SER. 86S501#04
1ST SC/PG: 1
8-8-86
BTL#3
D11572
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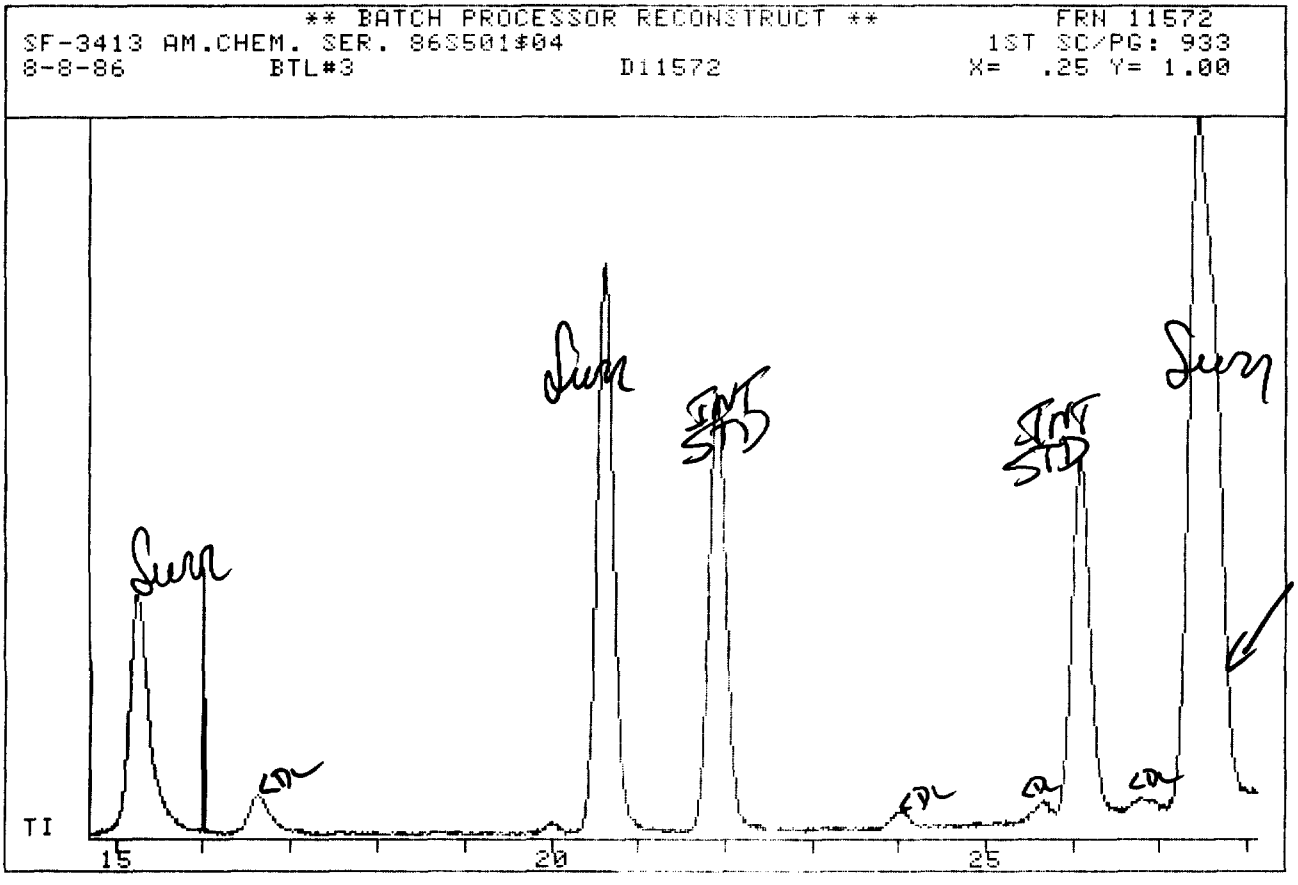
** BATCH PROCESSOR RECONSTRUCT **
FRN 11572
SF-3413 AM.CHEM. SER. 86S501#04
1ST SC/PG: 933
8-8-86
BTL#3
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X= .25 Y= 1.00
TI
15
20
25
Sum
Sum
INT STD
INT STD
Sum
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CH3
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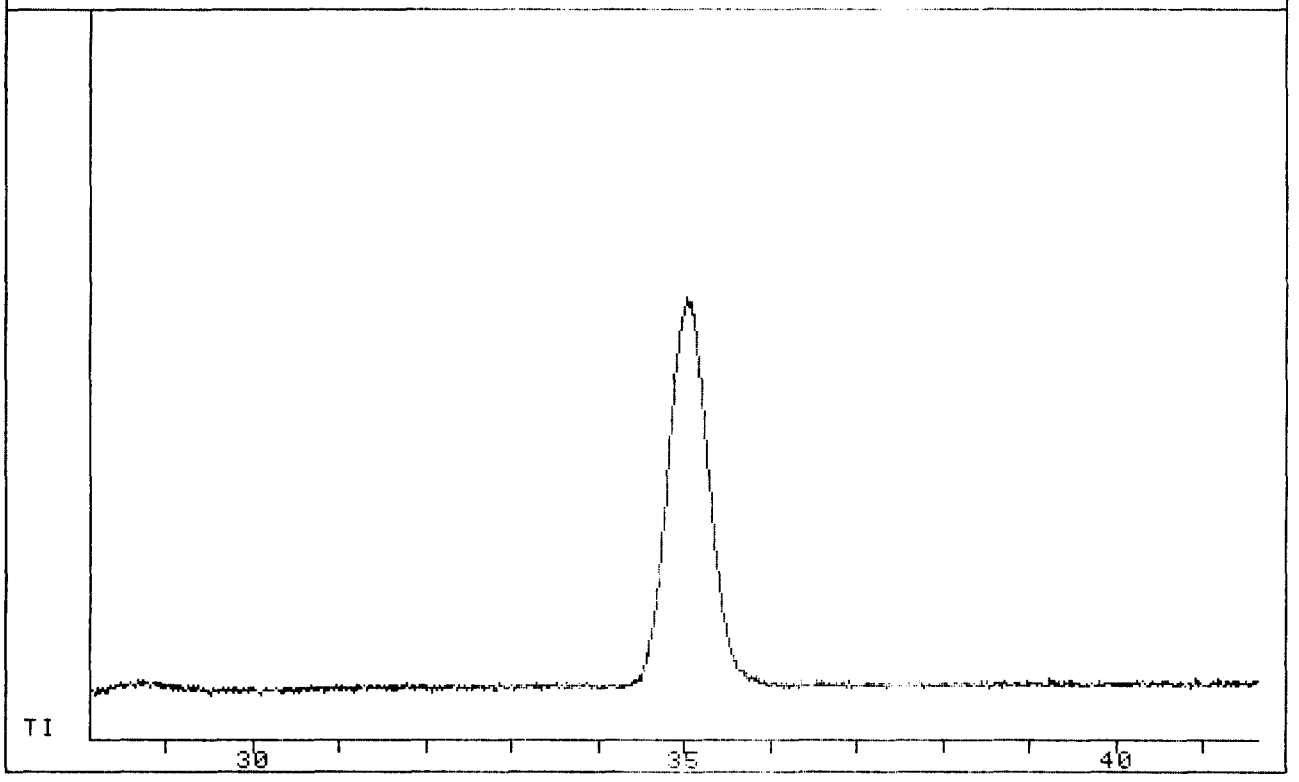
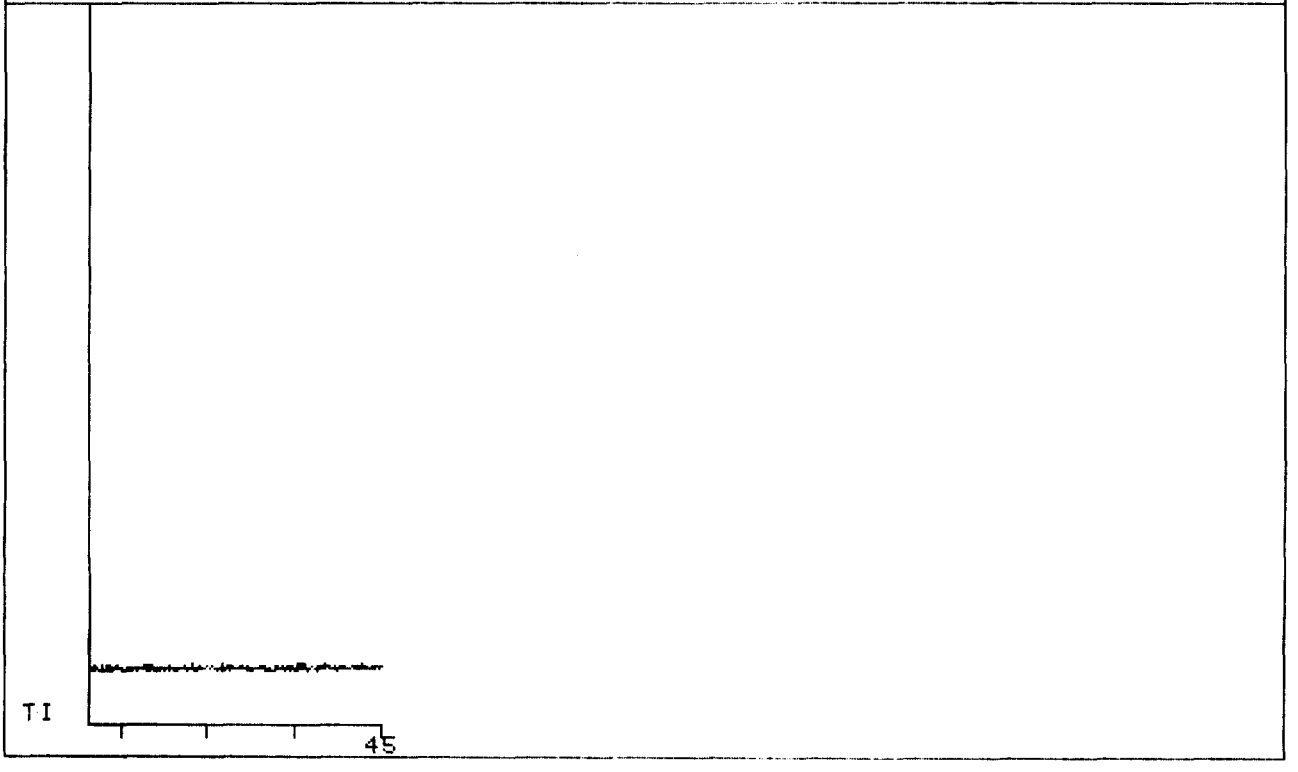
** BATCH PROCESSOR RECONSTRUCT ** FRN 11572
SF-3413 AM.CHEM. SER. 86S501#04 1ST SC/PG:1865
8-8-86 BTL#3 D11572 X= .25 Y= 1.00

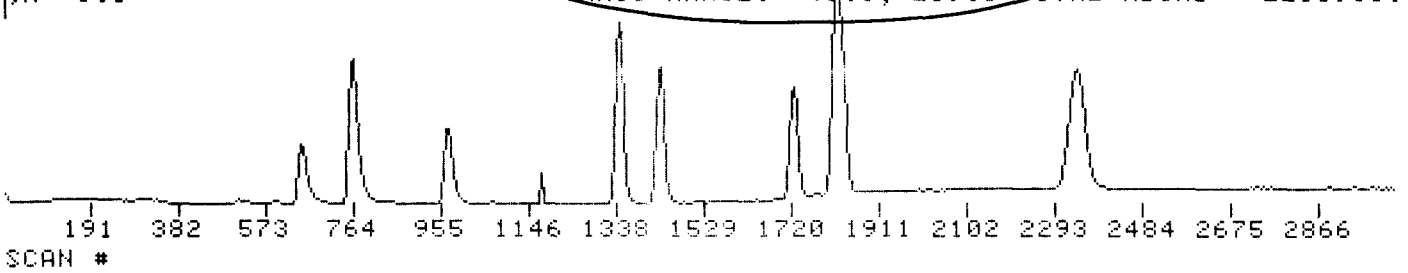


** BATCH PROCESSOR RECONSTRUCT ** FRN 11572
SF-3413 AM.CHEM. SER. 86S501#04 1ST SC/PG:2797
8-8-86 BTL#3 D11572 X= .25 Y= 1.00

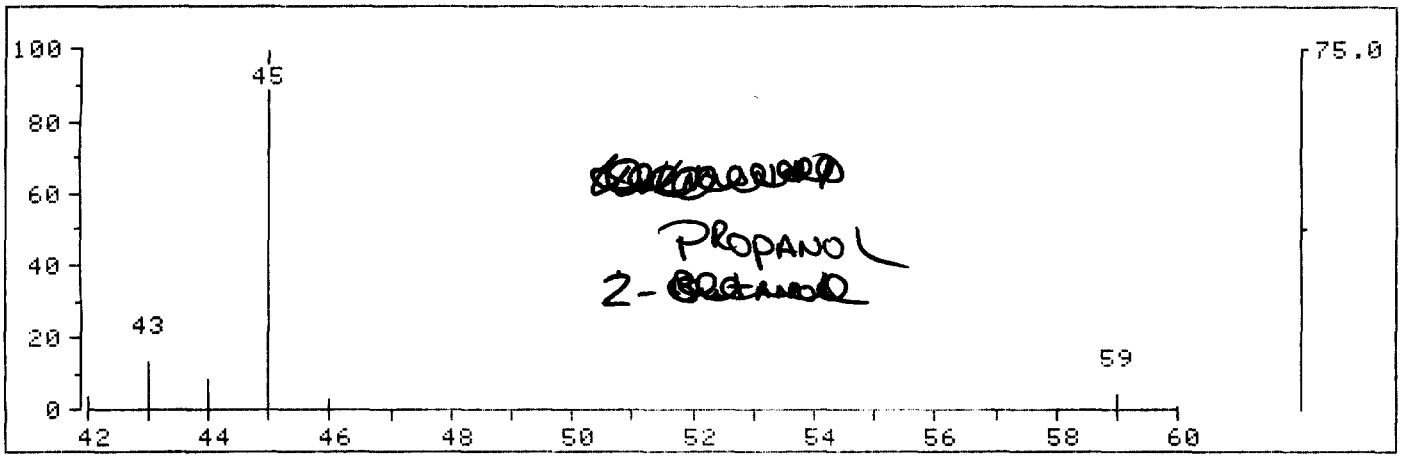


Mass Spectra
of Tent. ID VOA'S

SF-3413 86S501$05 FRN 11568, CRN 19
8-7-86 BTL#9 FRN 11568 3030 SCANS (3030 SCANS, 43.72 MINS)
X 1.0 MASS RANGE: 41.0, 209.1 TOTAL ABUND= 2281906.



650 RET. TIME: 10.62 TOT ABUND= 2904. BASE PK/ABUND: 45.0/ 2179.

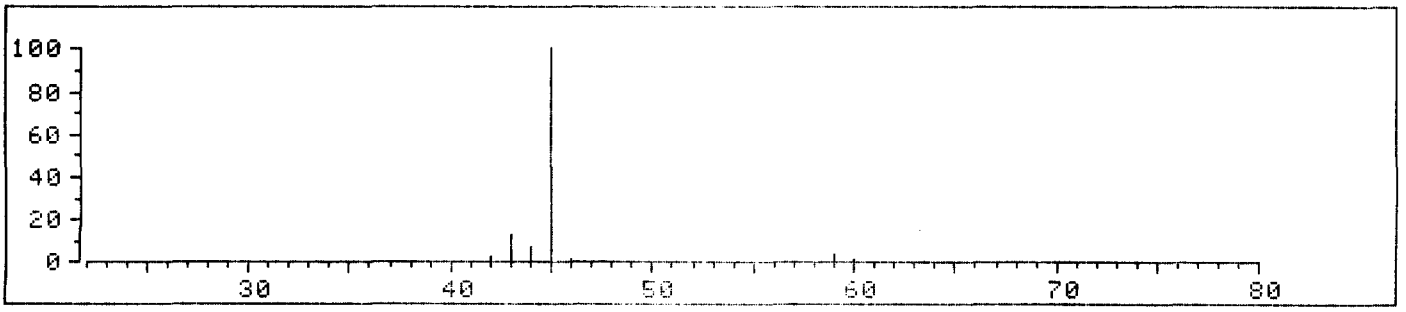


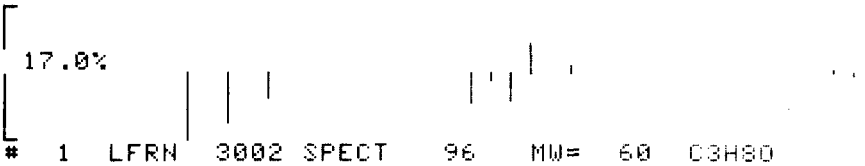
FRN 11568, SPECTRUM # 650 RET.TIME: 10.62, 7 PEAKS

M/Z	REL ABUND	M/Z	REL ABUND	M/Z	REL ABUND	M/Z	REL ABUND
42	3.7	44	8.4	46	2.8	60	.8
43	13.7	45	100.0	59	4.3		

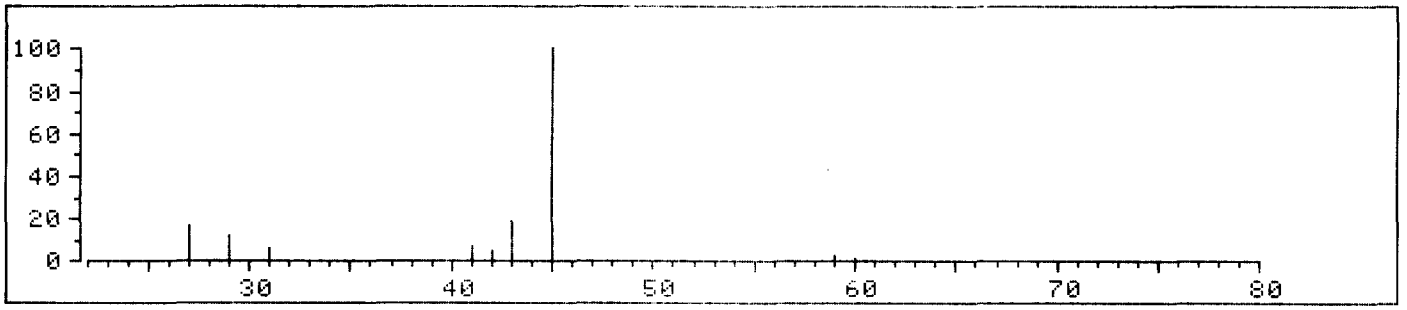
>PAUSE

3 HITS: REFERENCE FRN 11590 SCAN 1



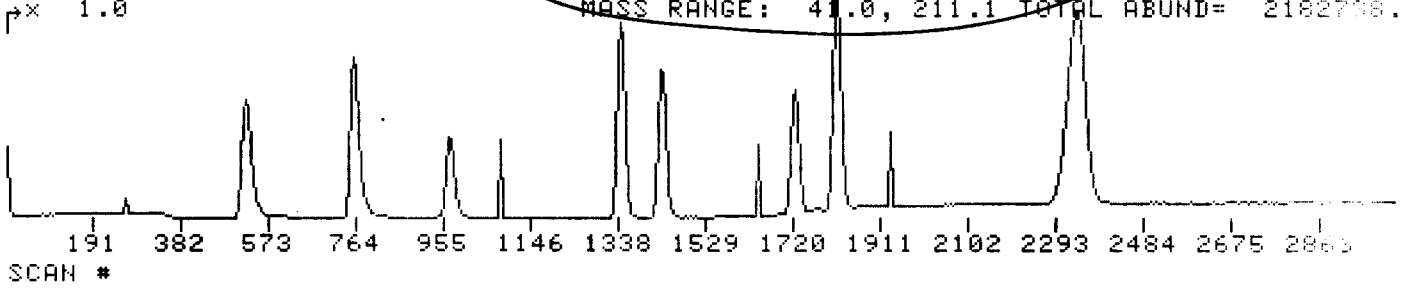


1 LFRN 3002 SPECT 96 MW= 60 C3H8O
.9776 2-Propanol (9CI)

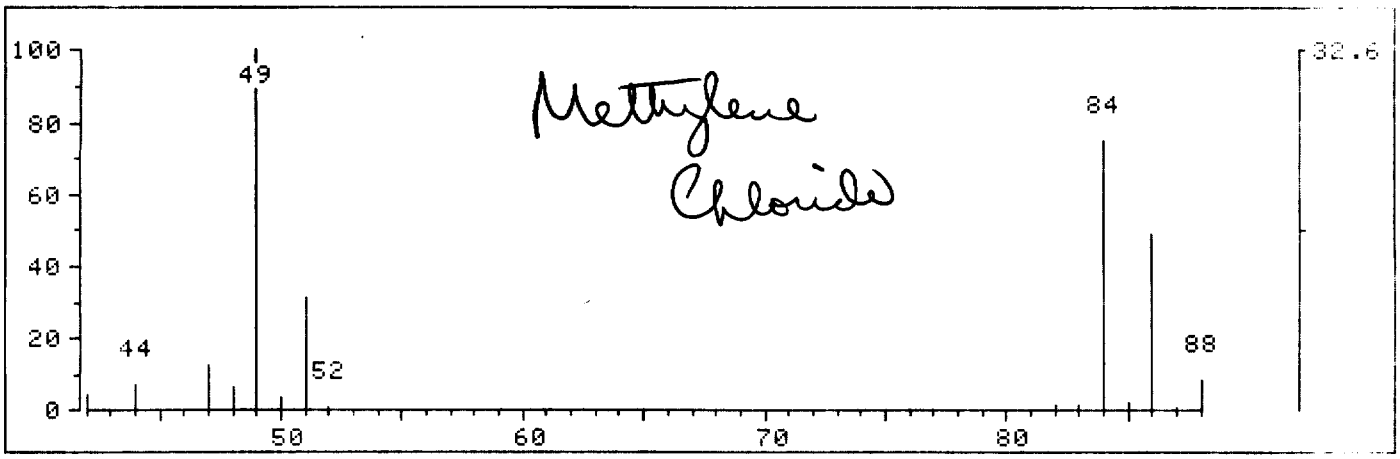


Mass Spectra
Of HSL/NPDES VOA's

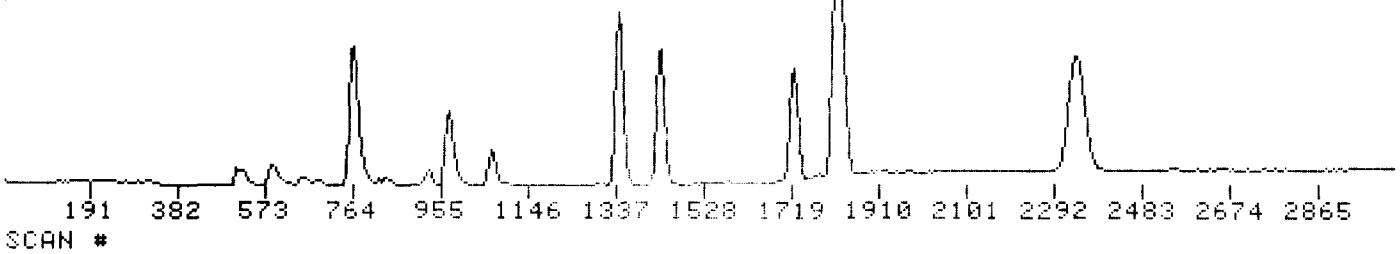
LABBLANK
8-7-86 BTL#1 FRN 11555, CRN 8
TN11555 3030 SCANS (3030 SCANS, 43.72 Mins)
MASS RANGE: 41.0, 211.1 TOTAL ABUND= 2182798.
x 1.0



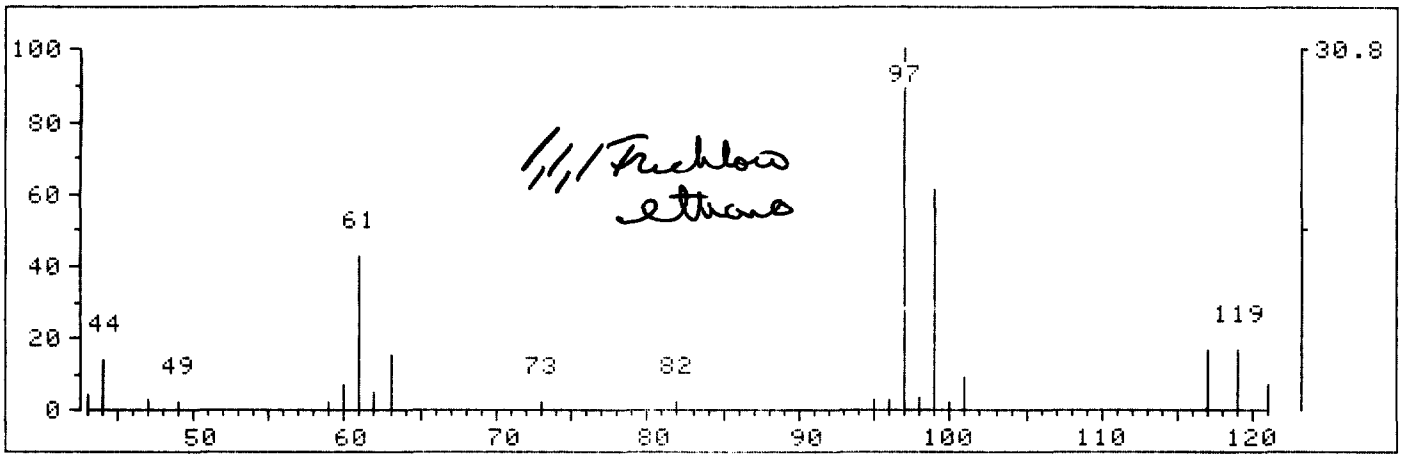
530 RET. TIME: 8.90 TOT ABUND= 3766. BASE PK/ABUND: 49.0/ 1227.



SF-3413 AM. CHEM. SERVICES 86S501R01 FRN 11557, CRN 8
8-7-86 BTL#3 D11557 3029 SCANS (3029 SCANS, 43.72 MINS)
px 1.0 MASS RANGE: 41.0, 209.1 TOTAL ABUND= 2267627.



#1064 RET. TIME: 16.58 TOT ABUND= 1654. BASE PK/ABUND: 97.0/ 509.



VOLATILE ORGANIC ANALYSIS DATA SHEET
U.S. EPA - Region V, Central Regional Laboratory

CONCENTRATION OF STANDARDS USED IN VOLSTD MIX

	CAS #	Compounds	Concentration (PPB)
1.	74-87-3	Chloromethane	13.4
2.	74-83-9	Bromomethane	13.4
3.	75-01-4	Vinyl Chloride	13.4
4.	75-00-3	Chloroethane	13.4
5.	75-09-2	Methylene Chloride	6.7
6.	107-02-8	Acrolein	300
7.	67-64-1	Acetone	300
8.	107-37-1	Acrylonitrile	300
9.	75-15-0	Carbon Disulfide	10
10.	75-35-4	1,1-Dichloroethene	6.7
11.	75-35-3	1,1-Dichloroethane	6.7
12.	156-60-5	trans-1,2-Dichloroethene	6.7
13.	67-66-3	Chloroform	6.7
14.	78-93-3	2-Butanone	100
15.	107-06-2	1,2-Dichloroethane	6.7
16.	71-55-6	1,1,1-Trichloroethane	6.7
17.	56-23-5	Carbon Tetrachloride	6.7
18.	108-05-4	Vinyl Acetate	15
19.	75-27-4	Bromodichloromethane	6.7
20.	78-87-5	1,2-Dichloropropane	6.7
21.	10061-02-6	trans-1,3-Dichloropropene	3.0
22.	79-01-6	Trichloroethene	6.7
23.	71-43-2	Benzene	6.7
24.	124-48-1	Dibromochloromethane	6.7
25.	79-00-5	1,1,2-Trichloroethane	6.7
26.	10061-01-5	cis-1,3-Dichloropropene	10.4
27.	110-75-8	2-Chloroethyl Vinyl Ether	6.7
28.	75-25-2	Bromoform	6.7
29.	108-10-1	4-Methyl-2-pentanone	20
30.	519-78-6	2-Hexanone	150
31.	127-18-4	Tetrachloroethene	6.7
32.	79-34-5	1,1,2,2-Tetrachloroethane	6.7
33.	108-88-3	Toluene	6.7
34.	108-90-7	Chlorobenzene	6.7
35.	100-41-4	Ethylbenzene	6.7
36.	100-42-5	Styrene	10
37.	108-38-3	m-Xylene	13.4
38.		o/p-Xylene (total)	16.8

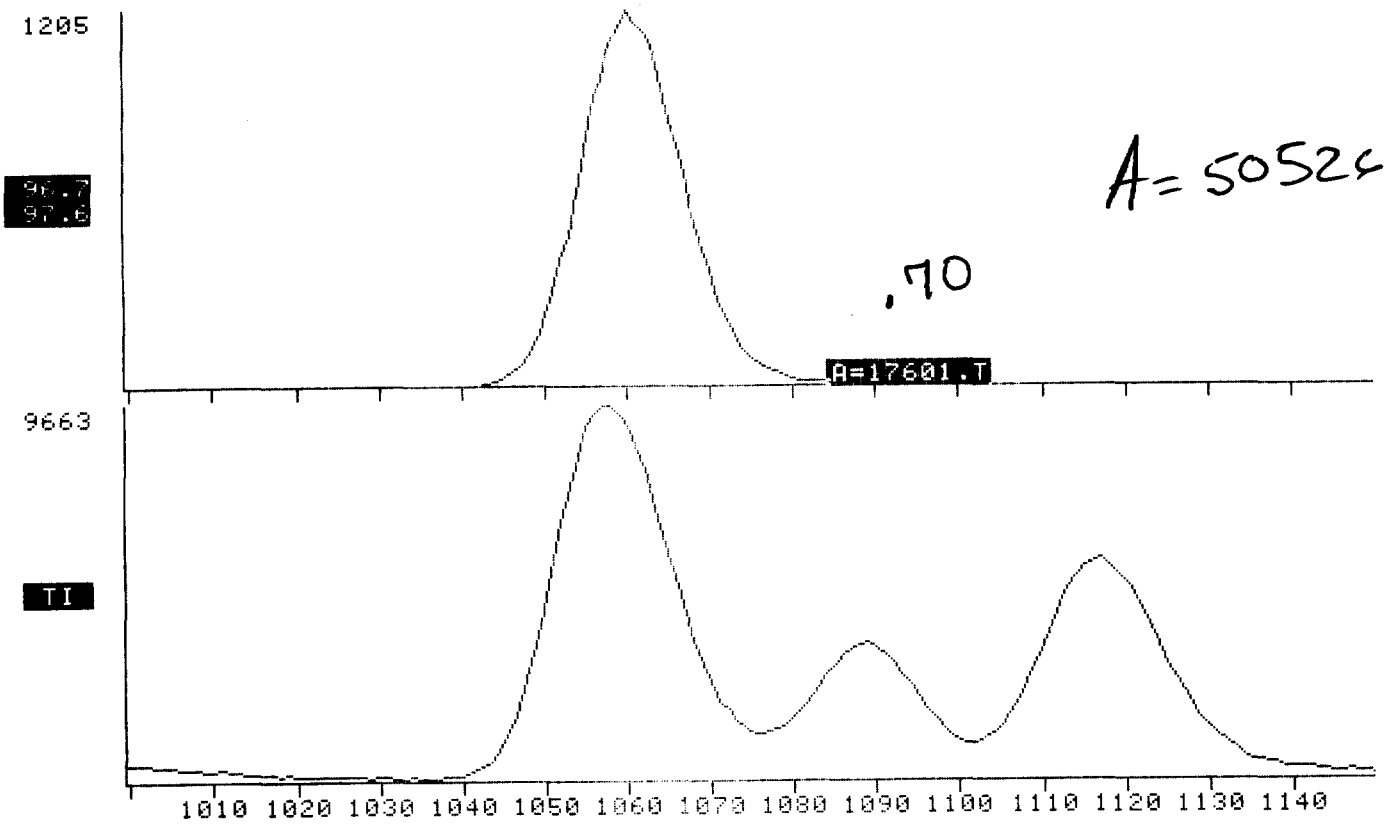
Manually searched.
All positive hits manually calculated.

NAME VOLSTD
MISC 8-7-86

BTL#1

D11560

FRN 11560



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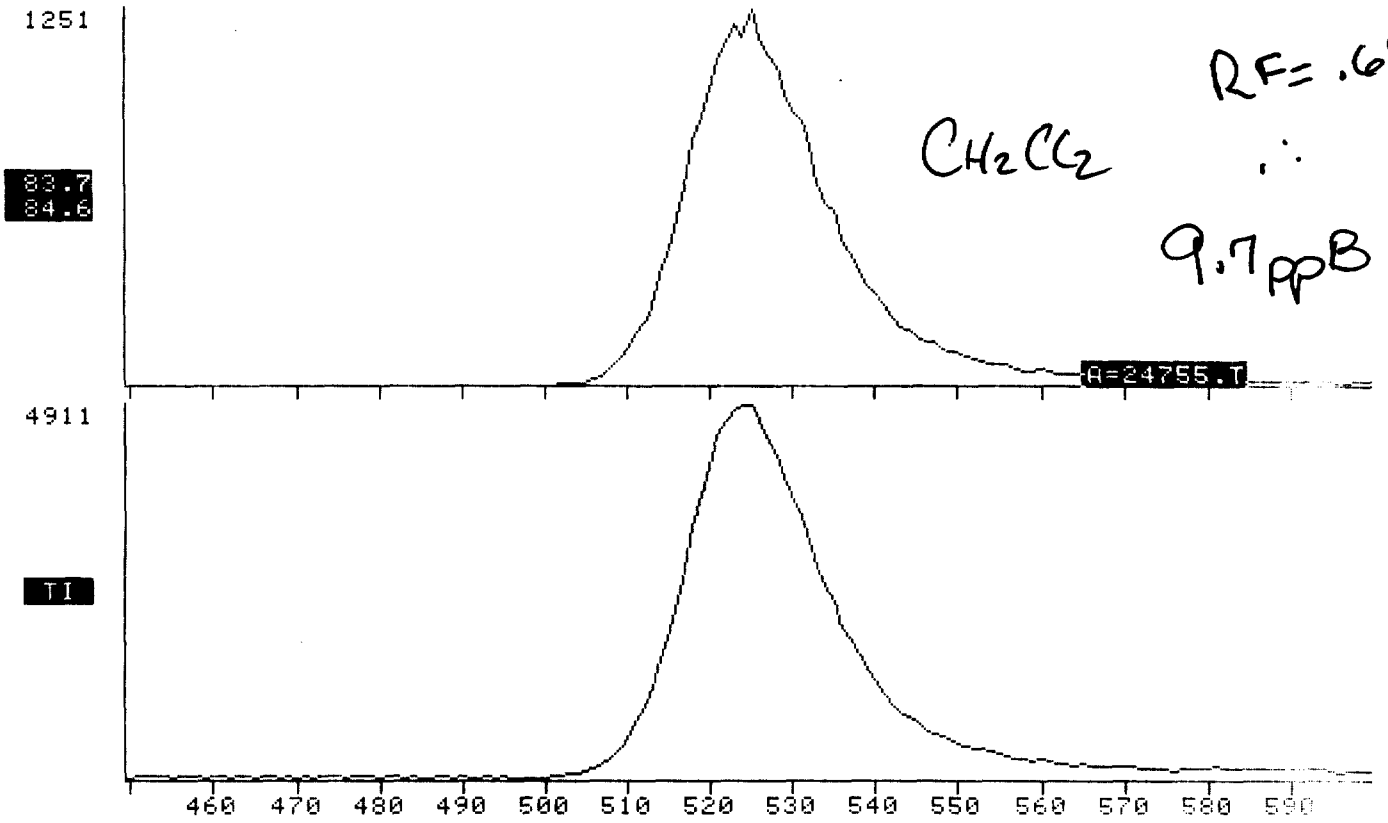
MISC 8-7-86 BTL#1 D11555 FRN 11555



CH_2Cl_2

RF = .68

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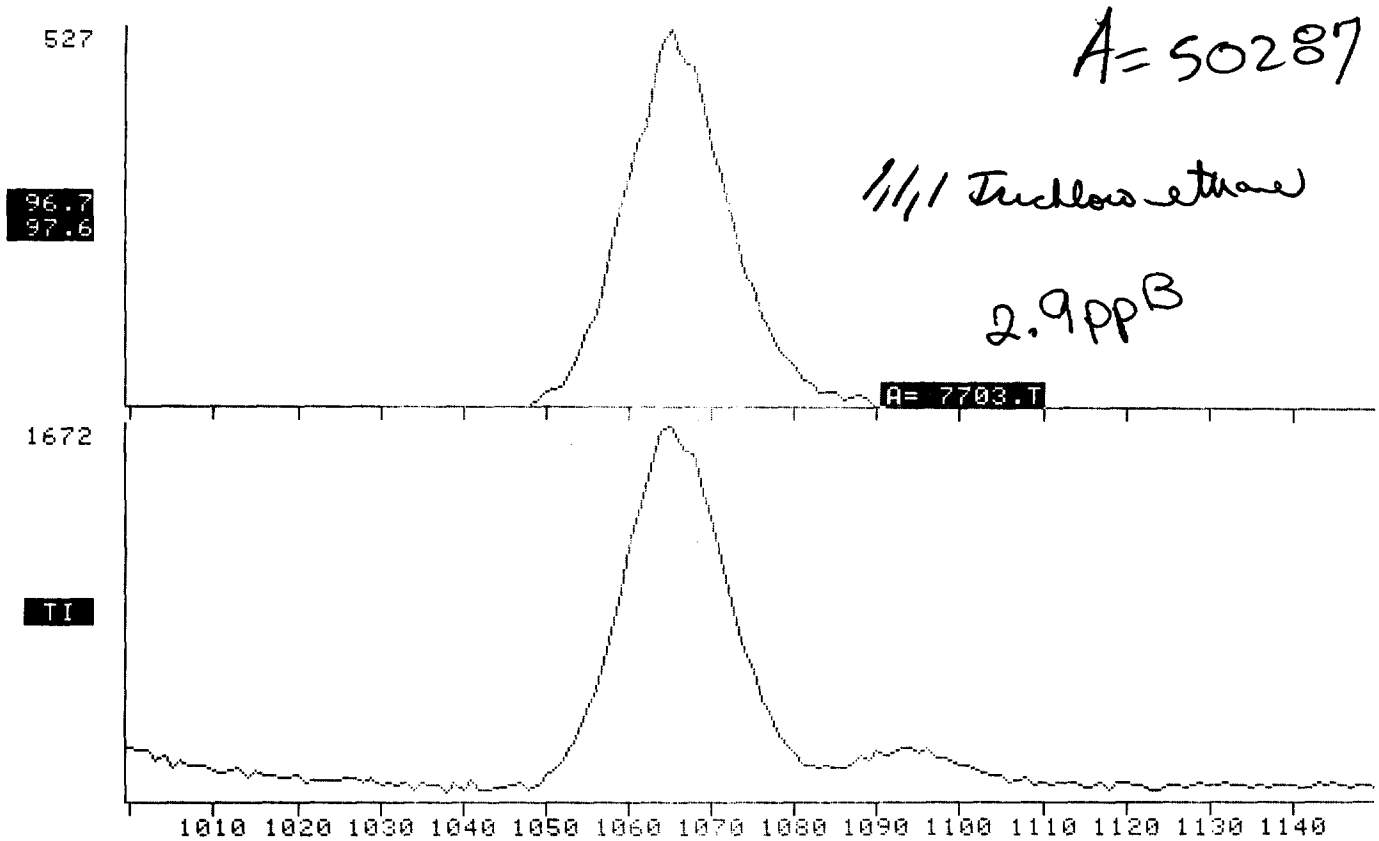
9.7 ppB

NAME SF-3413 AM. CHEM. SERVICES 86S501R01 FRN 11557
MISC 8-7-86 BTL#3 D11557

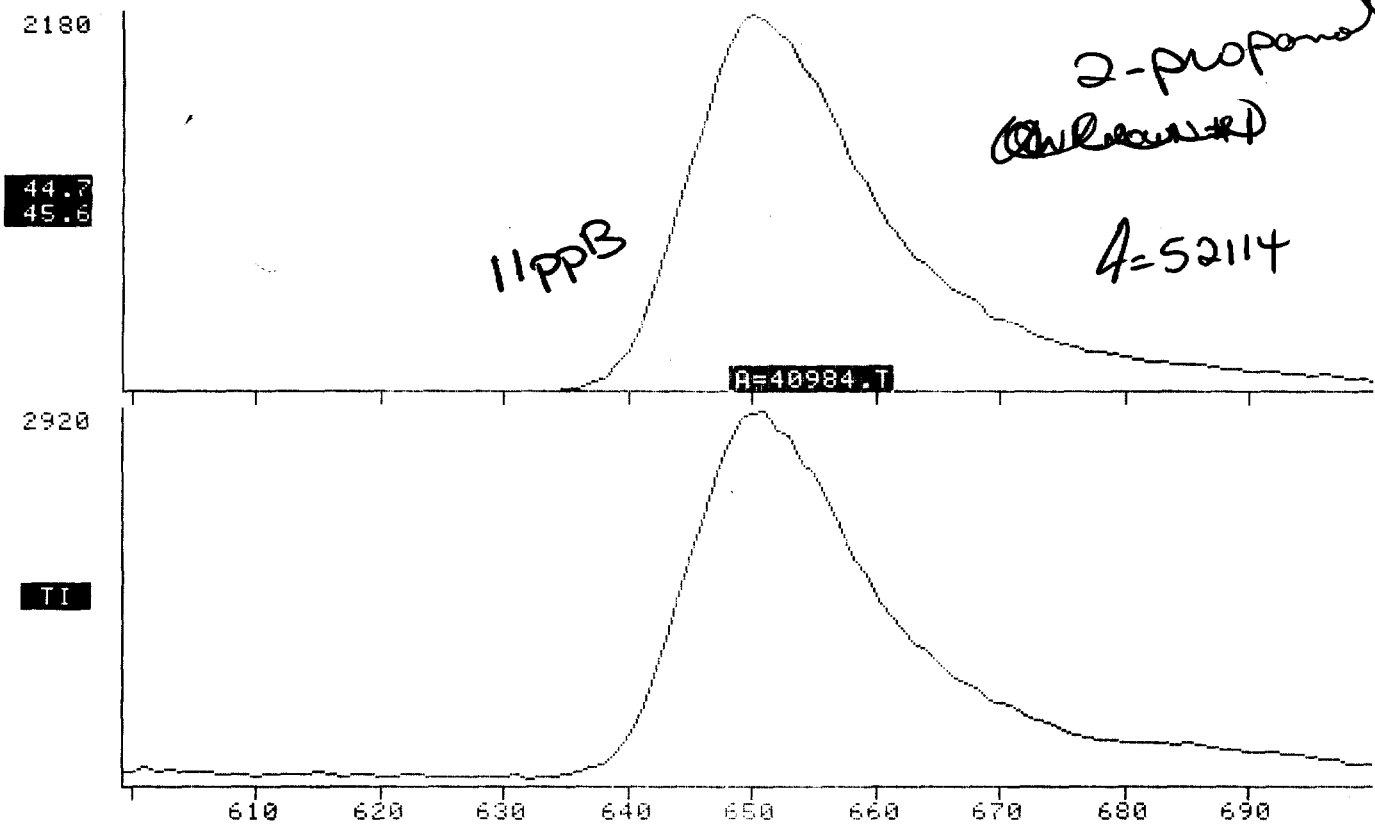


A=50287

1,1,1 Trichloroethane

2.9ppB

NAME SF-3413 863501#05 FRN 11568
MISC 8-7-86 BTL#9 D11568



U.S. Environmental Protection Agency Region V

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Lab Data Reference Sheet

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