UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 9-10-86

SUBJECT: Precision and Accuracy of Analyses for Data Set SF 3453
Site: SKINNER

FROM: Steve Parker,
CRL QC Coordinator

TO: Data User: _____

The Region V Central Regional Laboratory has completed its analyses of 9 (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
SEP 1 1986
U.S. EPA CENTRAL
REGIONAL LAB

PRECISION AND ACCURACY STATEMENT

Data Set: SF 3453

Matrix: WATER

Site Name: SKINNER

	PRECISION			ACCURACY		
Parameter	RPD R'	Limit	Method of Quality Control	% Recovery % Bias	Limit	Method of Quality Control
VOA	6 - 13%	≤ 22%	SURROGATES	92-105%	82-115%	SURROGATES

COMMENT:

QC FLAGS:

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

Study Name: SKINNER L.F.
Sample # : 86RA01$44

Data Set #: SF-3453
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	2.5	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: SKINNER L.F.
Sample # : 86RA01$45

Data Set #: SF-3453
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	2.5	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: SKINNER L.F.
Sample # : 86RA01$46

Data Set #: SF-3453
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	8.3
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	4.7
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	2.5 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: SKINNER L.F.
Sample # : 86RA01$47

Data Set #: SF-3453
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	2.5	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: SKINNER L.F.
Sample # : 86RA01$48

Data Set #: SF-3453
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	2.5	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: SKINNER L.F.
Sample # : 86RA01$49

Data Set #: SF-3453
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	2.5	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: SKINNER L.F.
Sample # : 86RA01$53

Data Set #: SF-3453
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	10	
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	2.5	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	5.5	
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: SKINNER L.F.
Sample # : 86RA01D48

Data Set #: SF-3453
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	2.5	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: SKINNER L.F.
Sample # : 86RA01R53

Data Set #: SF-3453
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	77	SFC
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	9.2	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	2.5 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: SKINNER L.F.
Sample # : 86RA01$53

Data Set #: SF-3453
Matrix : WATER

TENTATIVELY IDENTIFIED COMPOUNDS	ESTIMATED CONC.(PPB)
THIOBIS METHANE (SCAN#586)	5.9
DIMETHYL DISULFIDE (SCAN#1239)	14
DIMETHYL TRISULFIDE(SCAN#1783)	9.3
MIXED ALKANE/ALKENES(SCAN1800-3400)	51

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

SF-3453
(SKINNER L.F)

DATA USED FROM
SF-3454 RUN
SIMULTANEOUSLY

QUALITY CONTROL SHEET

Duplicate Matrix Spike and Sample Duplicate

Study No. SF-3454 Activity No. C51100
Study Name MAIN ST WELL Lab Sample I.D. 86R01~~5~~04
Spike Level AB: 6.7 PPB (e)

Volatiles	FRN: 11695 PPB	11696 PPB	11695 %	11696 %	RPD
1. Chloromethane					
2. Bromomethane					
3. Vinyl chloride					
4. Chloroethane					
5. Methylene chloride			100	95	5
6. Acrolein					
7. Acetone					
8. Acrylonirile					
9. Carbon disulfide					
10. 1,1-Dichloroethylene			107	103	4
11. Bromochloromethane (Int. Std.)					
12. 1,1-Dichloroethane			110	104	6
13. 1,2-Dichloroethylene	9.7	9.4	—	—	3
14. Chloroform			107	103	4
15. 2-Butanone					
16. 1,2-Dichloroethane			110	106	4
17. 1,1,1-Trichloroethane			107	104	3
18. Carbon tetrachloride			106	101	5
19. Vinyl acetate					
20. Dichlorobromomethane			107	101	6
21. 1,2-Dichloropropane			104	99	5
22. 1,2-Dichloro-1-propene (Trans)			105	100	5
23. Trichloroethylene	17	16	—	—	6
24. Benzene			101	~~16~~ 99	2
25. Dibromochloromethane			106	100	6
26. 1,1,2-Trichloroethane			106	101	5
27. 1,3-Dichloro-1-propene (CIS)			104	99	5
28. 2-Chloroethyl vinyl ether					
29. Bromoform			107	102	5
30. 4-methyl-2-pentanone					
31. 2-Hexanone					
32. Tetrachloroethylene	8.6	8.6	—	—	0
33. 1,1,2,2-Tetrachloroethane			109	102	7
34. 1,4-Dichlorobutane (Int. Std.)					
35. Toluene			106	103	3
36. Chlorobenzene			105	102	3
37. Ethylbenzene			105	102	3
38. Styrene					
39. m-xylene					
40. o/p-xylene					

Cercla # OHD063963714
ACTIVITY # C51100

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: TOXIC SUBSTANCES

DIVISION/BRANCH Superfund SAMPLE DATE 8/22/86 LAB ARRIVAL DATE 8/25/86 DUE DATE 9/15/86

DU NUMBER Y905 DATA SET NUMBER 3453 STUDY Skinner PRIORITY N CONTRACTOR N

CRL LOG NUMBER	SAMPLE DESCRIPTION sample tag #	WATER VOLATILE ORGANICS SCAN UG/L TOX 17564	WATER ABN ORGANICS SCAN UG/L TOX 17574	SEDIMENTS SOLIDS VOLATILE ORGANICS SCAN MG/KG (DRY) TOX 215622	SEDIMENTS SOLIDS ABN ORGANICS SCAN MG/KG (DRY) TOX 215722
* 86RA01544	5-95903	X			
	5-95904	X			
* 86RA01544	5-95912	X			
	5-95913	X			
* 86RA01544	5-97066	X			
	5-97067	X			
86RA01545	5-95917	X			
	5-95918	X			
86RA01546	5-95927	X			
	5-95928	X			
86RA01547	5-95935	X			
	5-95936	X			
86RA01548	5-95944	X			
	5-95945	X			
86RA01D48	5-95953	X			
	5-95954	X			
86RA01549	5-95962	X			
	5-95963	X			

For Samples to CRL

TRANSMITTED BY
SEP 11 1986
U.S. EPA CENTRAL REGIONAL LAB

K Golger 8/28/86
9/8/86 9/8/86 9/10/86

* Matrix Spike.

Circle # OHD063963714
ACTIVITY # C51100

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: TOXIC SUBSTANCES

DIVISION/BRANCH Superfund SAMPLE DATE 8/22/86 LAB ARRIVAL DATE 8/25/86 DUE DATE 9/15/86

DU NUMBER Y905 DATA SET NUMBER 3453 STUDY Skinner PRIORITY N CONTRACTOR N

CRL LOG NUMBER	SAMPLE DESCRIPTION sample tag #	WATER VOLATILE ORGANICS SCAN UG/L TOX 17684	WATER ABN ORGANICS SCAN UG/L TOX 17574	SEDIMENTS SOLIDS VOLATILE ORGANICS SCAN MG/KG (DRY) TOX 215622	SEDIMENTS SOLIDS ABN ORGANICS SCAN MG/KG (DRY) TOX 215722
8/25/86 ~~86RA01597~~	~~5-95971~~	~~X~~			
	~~5-95972~~	~~X~~			
~~86RA01551~~	~~5-95980~~	~~X~~			
	~~5-95981~~	~~X~~			
~~86RA01552~~	~~5-95989~~	~~X~~			
	~~5-95990~~	~~X~~			
86RA01553	5-95998	X			
	5-95999	X			
86RA01R53	5-97057	X			
	5-97058	X			

C Bolger 8/28/86
9/8/86
9/10/86

For Samples to CRL

QUALITY CONTROL SHEET
TOXIC ORGANIC SECTION: VOLATILES

STUDY NAME Skinner L.F. ACTIVITY NUMBER C51100 ANALYST K Bolger

STUDY NUMBER SF-3453

SUMMARY: BLANKS DATA

#	FRN	DATE	BLANK TYPE	COMPOUNDS DETECTED	ESTIMATED CONCENTRATION (PPB)	STD USED
1.	11665	8/27/86	LABBLANK	No Compounds Founds	0	BCP
2.	11673	8/27/86	FIELD (8GRA01R53)	~~Acetone~~ Acetone	77	BCP
				1,1,1-Trichloroethane	9.2	"
3.	11679	8/28/86	LABBLANK	No Compounds Detected	0	BCP
4.						

QUALITY CONTROL SHEET
TOXIC ORGANICS SECTION: VOLATILES

STUDY NAME SKINNER L.F.

STUDY NUMBER SF-3453

DATE 8/27-28/86

ACTIVITY NUMBER C 51100

ANALYST K BOLGER

FRN	SAMPLE NUMBER	MATRIX	AMOUNT PURGED	DILUTIONS	FINAL VOL. (AFT. DILU)	INTERNAL STD. (CONC. 13.4ppB) BCM BP AREA	BCP BP AREA	DCB BP AREA	SURROGATES RECOVERY % D4-1,2-DCE	D6-Benzene	D8-Toluene
11665	LABBLANK	WATER	15mL	NONE	15mL	29530	47327	34471	95	101	99
11666	VOLSTD					33168	52819	38772	—	—	—
11673	86RA01R53					33411	52395	38748	101	108	99
11674	$44					33217	52363	38364	101	99	99
11675	$45					32116	50745	36896	101	100	97
11676	$46					34971	54536	40880	101	102	100
11677	$47					37258	57402	43675	105	100	96
1											
11679	LABBLANK	WATER	15mL	NONE	15mL	29412	46000	33799	92	103	101
11681	VOLSTD					32965	50441	38237	—	—	—
11682	86RA01 $48					32088	49407	37771	96	101	103
11683	~~D18~~					27848 / ~~12527~~	42951 / ~~42951~~	31022 / ~~44~~	94	105	104
11684	$49					31280	48961	35011	94	100	101
11685	$53					29807	46665	34820	94	101	102

U.S. Environmental Protection Agency Region V

Superfund Document Management System (SDMS)

Lab Data Reference Sheet

Please contact the Superfund Records Manager for further information.

I. Unscannable item due to format

___ Graph

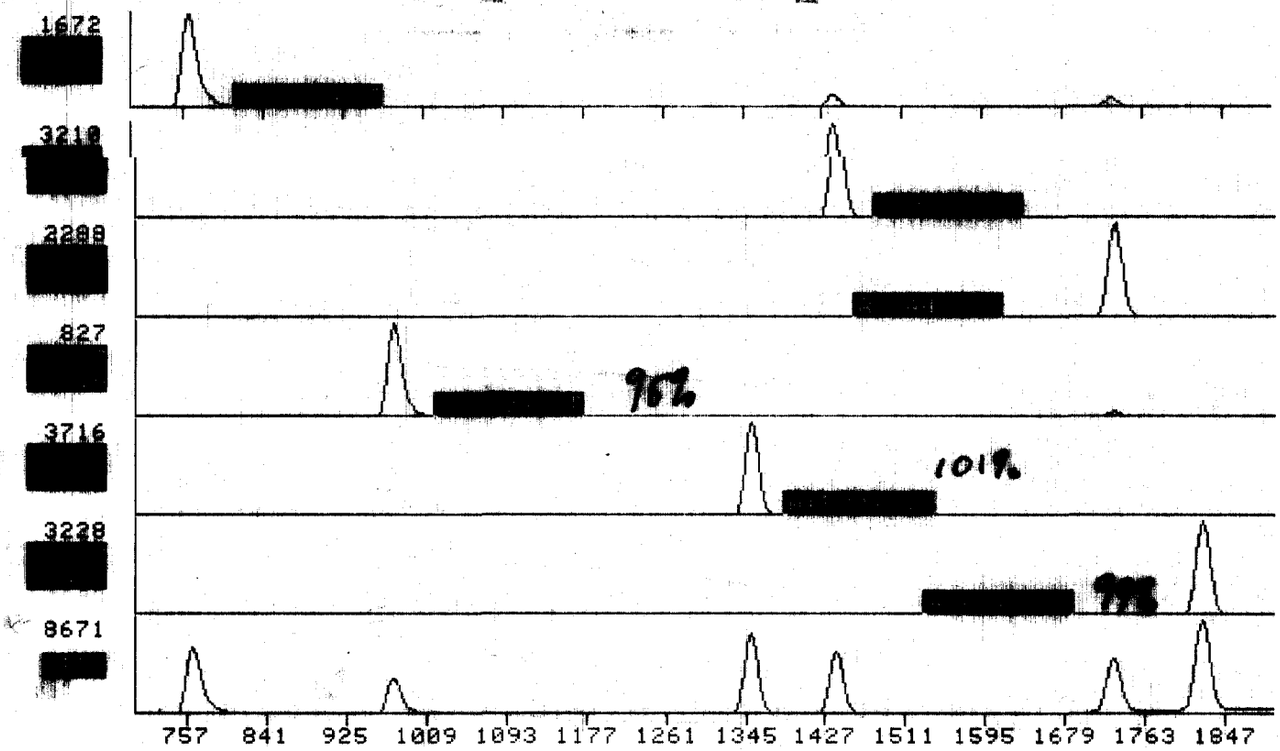
___ Mail receipts

___ Sample tags

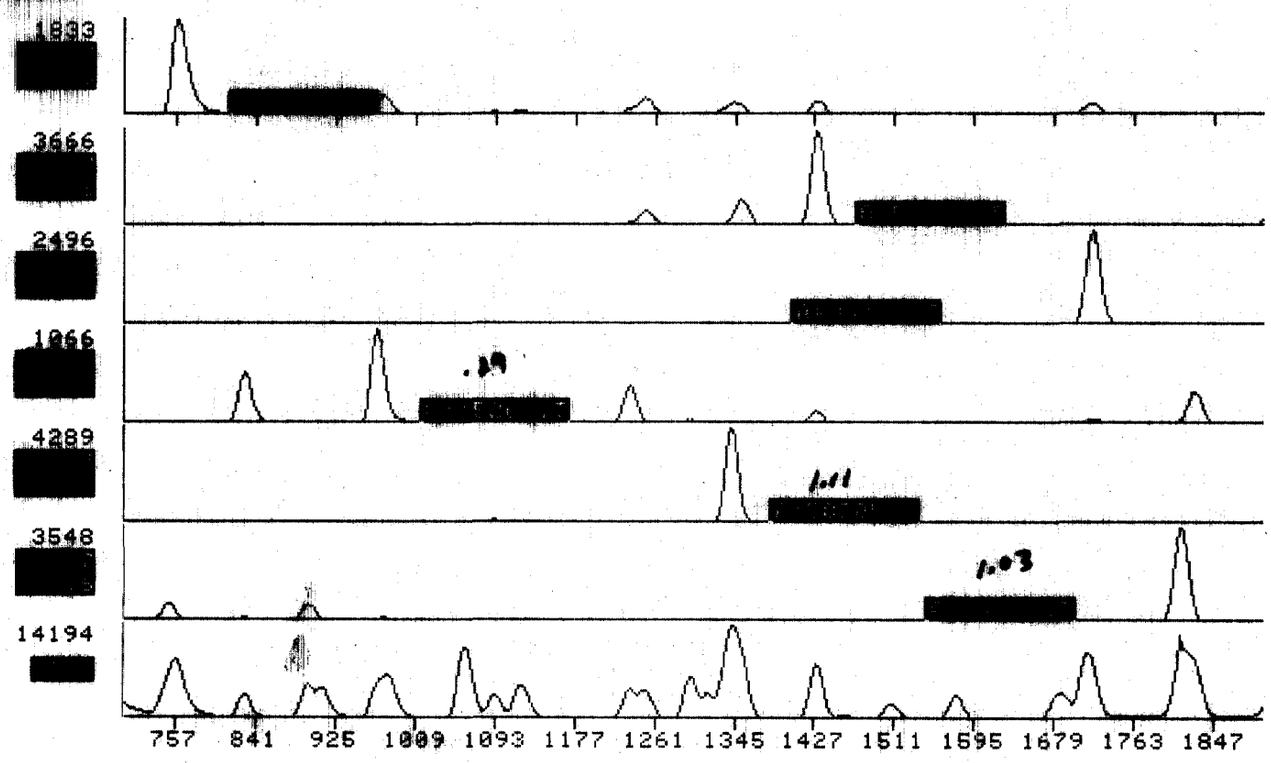
II. Image Quality (Pages follow / No. of pages 8)

✓ Resolution / Contrast

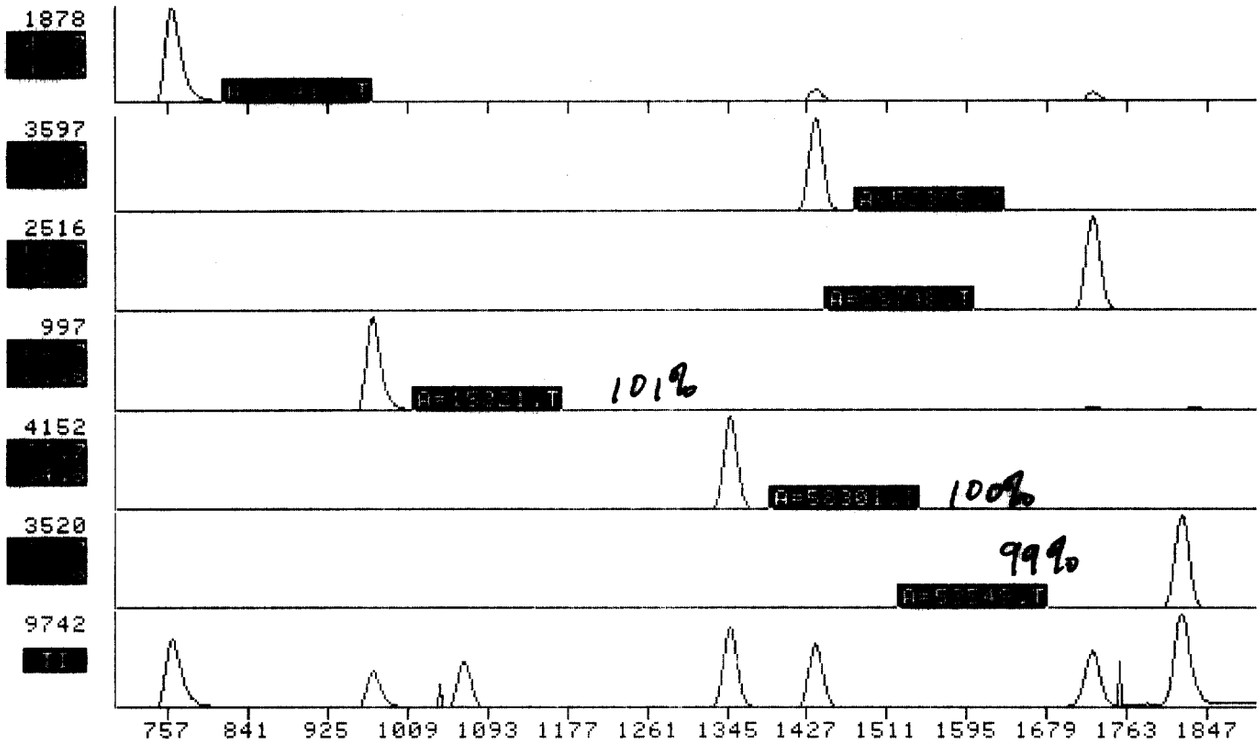
[redacted]LABBLANK
[redacted]8-27-86 BTL#1 D11665 [redacted] 11665



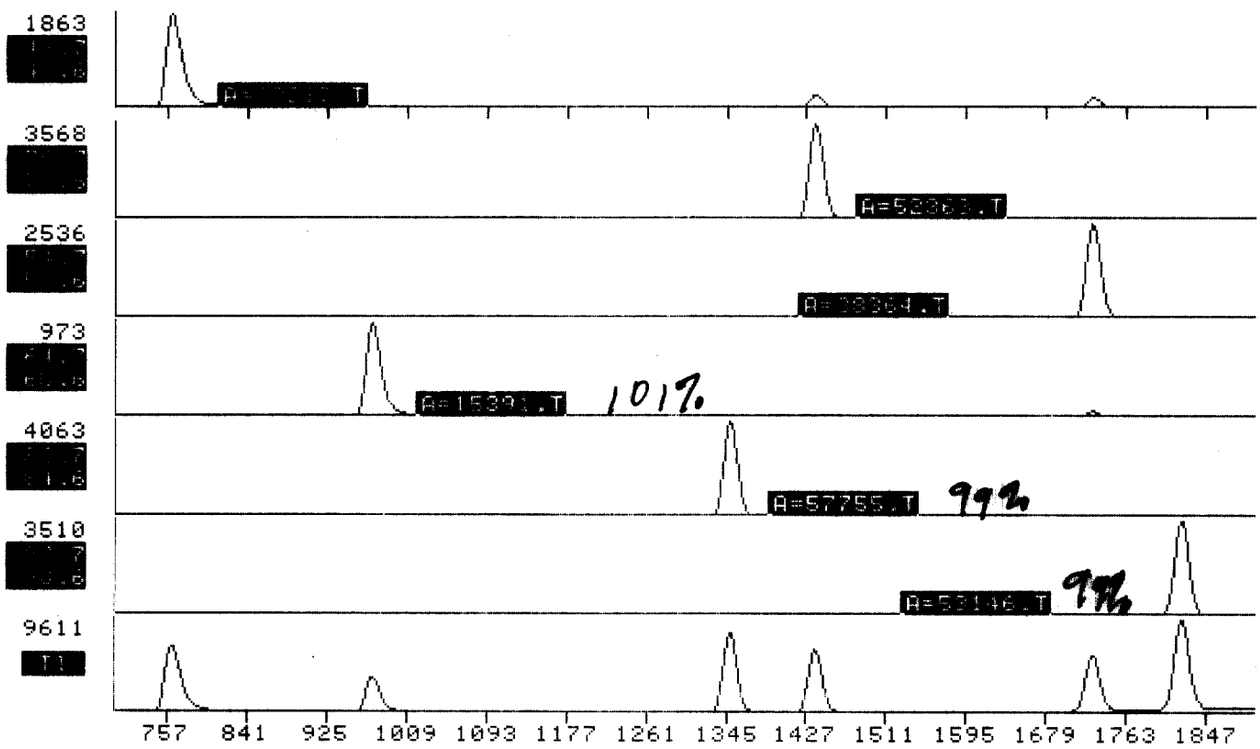
[redacted]VOLSTD
[redacted]8-27-86 BTL#2 D11666 [redacted] 11666



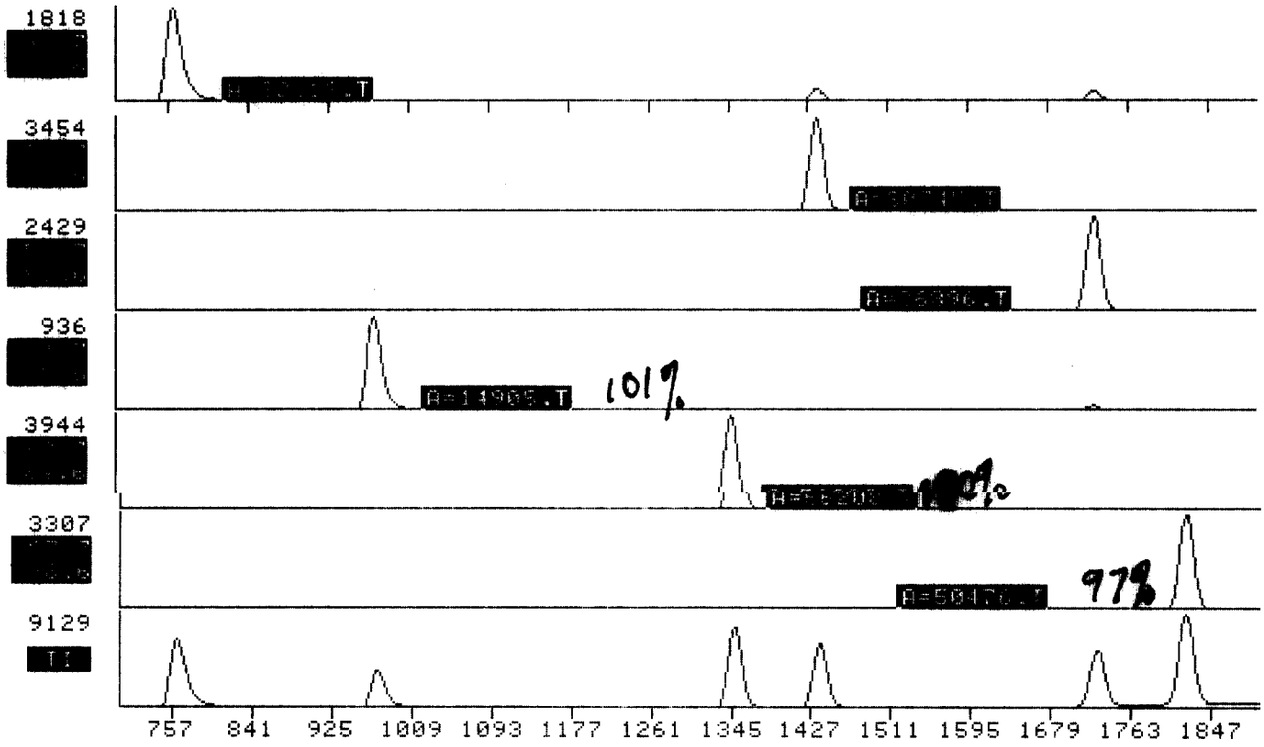
[redacted] SF-3453 SKINNER L.F. 86RA01R53 [redacted] 11673
[redacted] 8-27-86 BTL#5 D11673



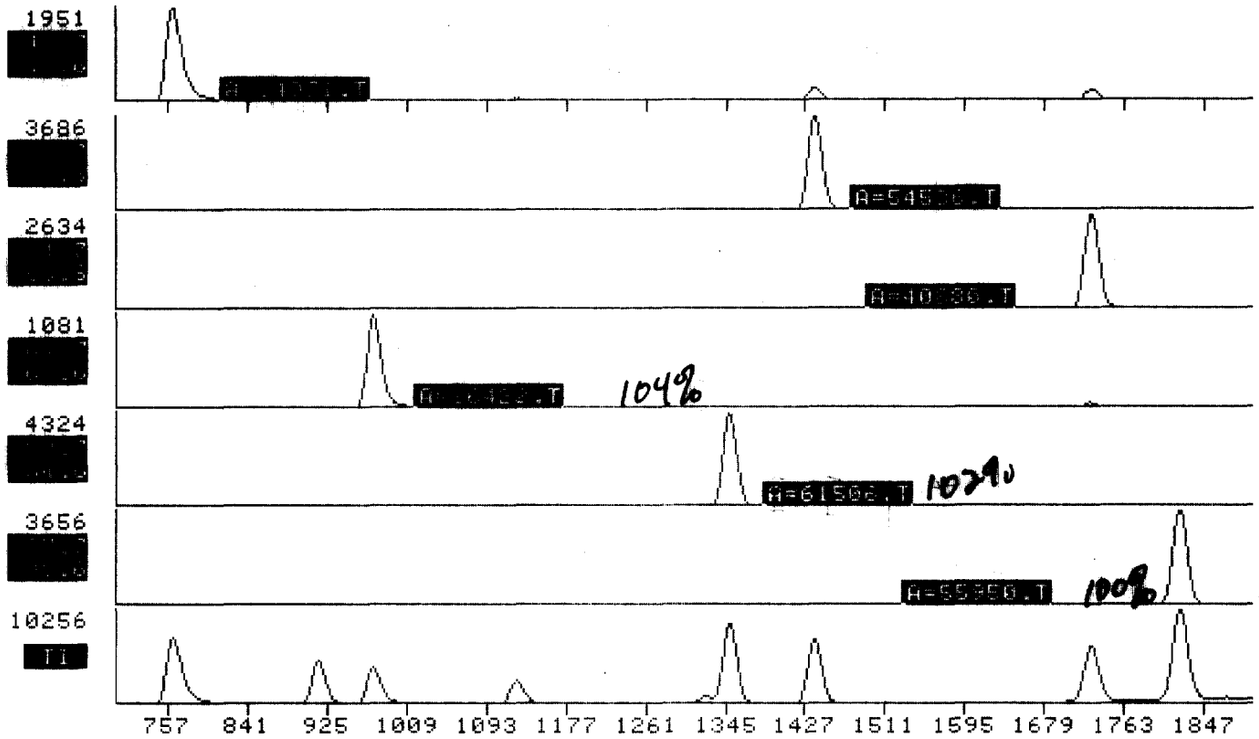
[redacted] SF-3453 86RA01$44 [redacted] 11674
[redacted] 8-27-86 BTL#6 D11674



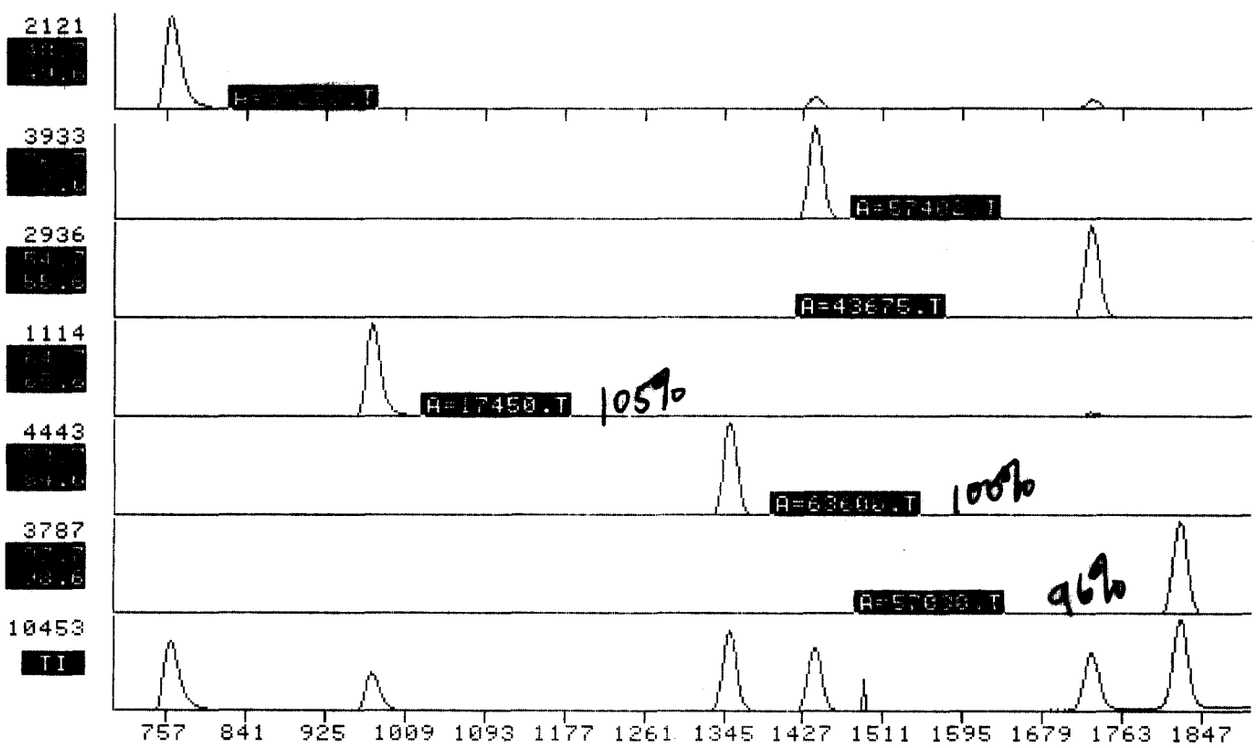
[redacted] SF-3453 86RA01$45 [redacted] 11675
[redacted] 8-27-86 BTL#7 D11675



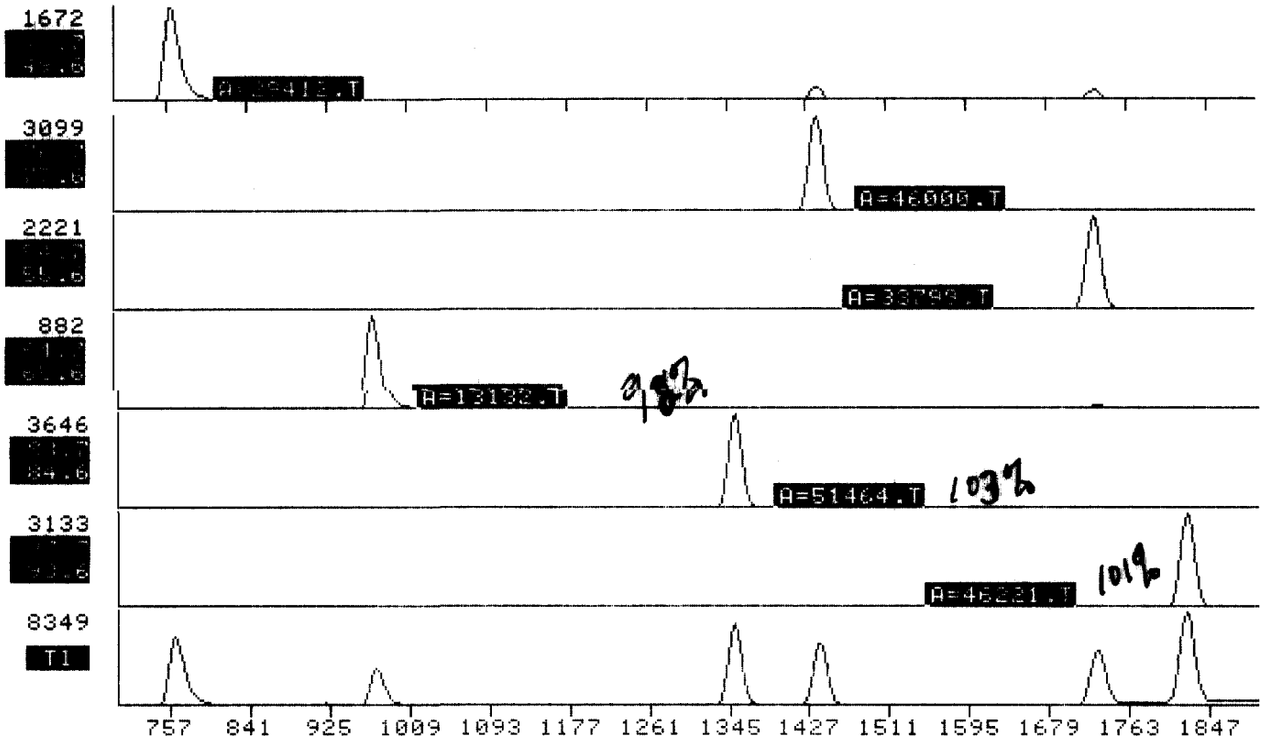
[redacted] SF-3453 86RA01$46 [redacted] 11676
[redacted] 8-27-86 BTL#8 D11676



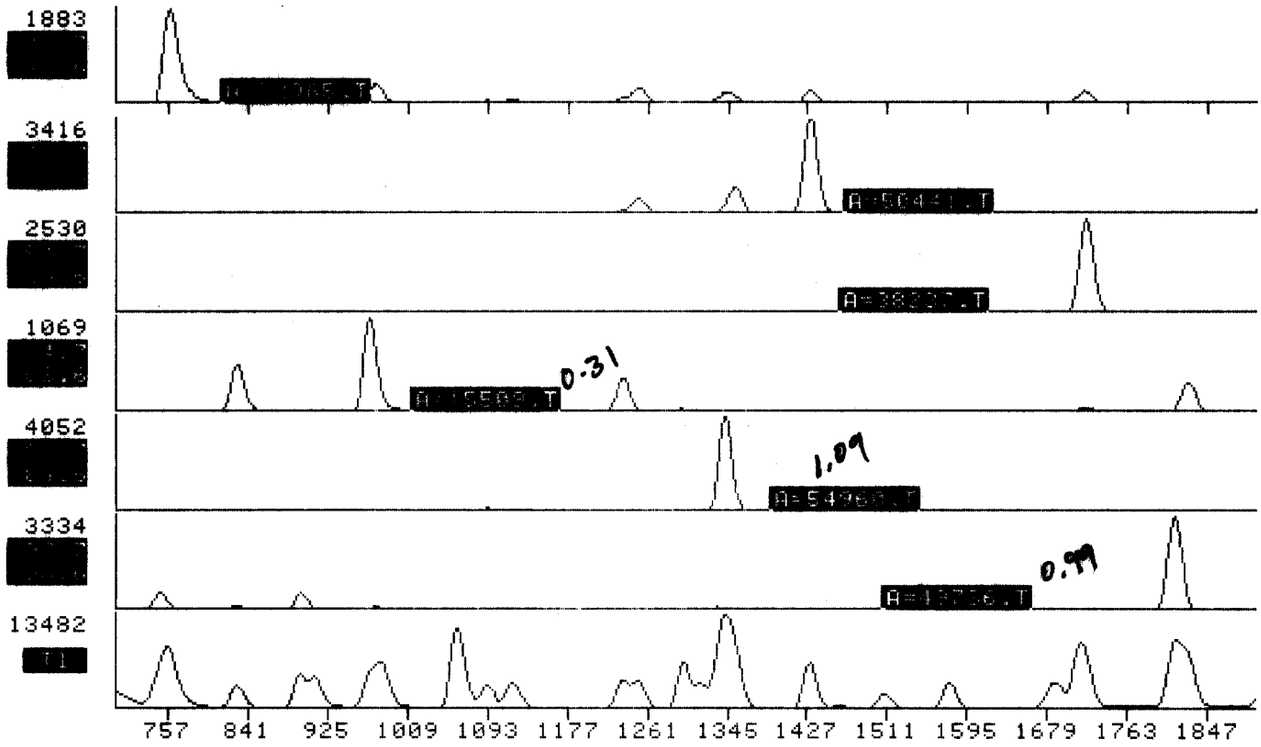
[redacted] SF-3453 86RA01$47 [redacted] 11677
[redacted] 8-27-86 BTL#9 D11677



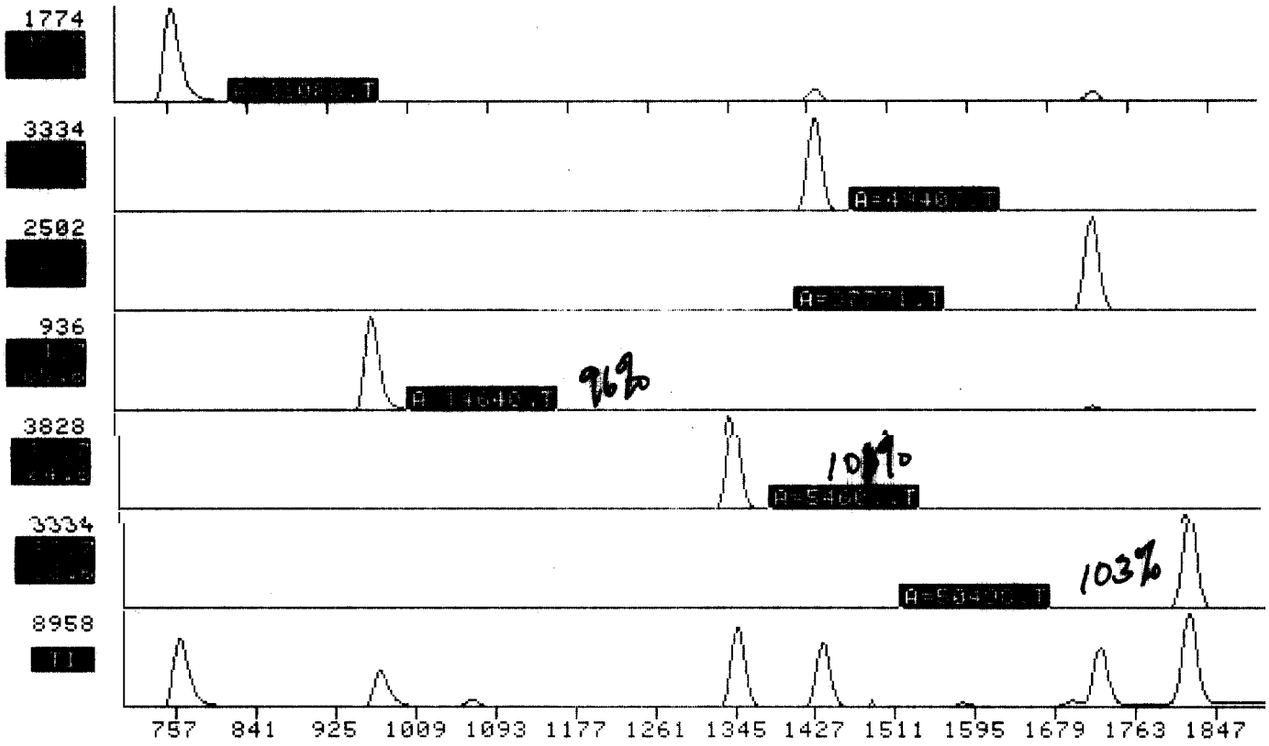
[redacted] LABBLANK
[redacted] 8-28-86 BTL#1 D11679 [redacted] 11679



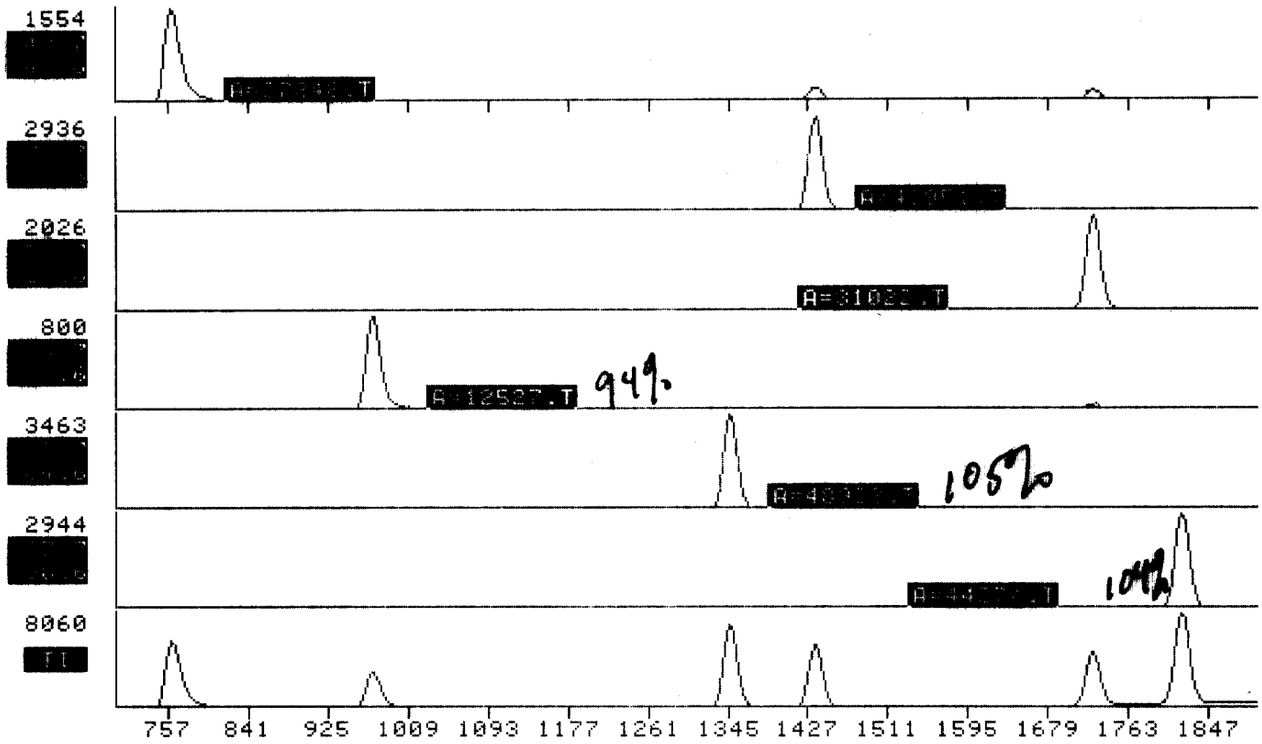
[redacted] VOLSTD
[redacted] 8-28-86 BTL#3 D11681 [redacted] 11681



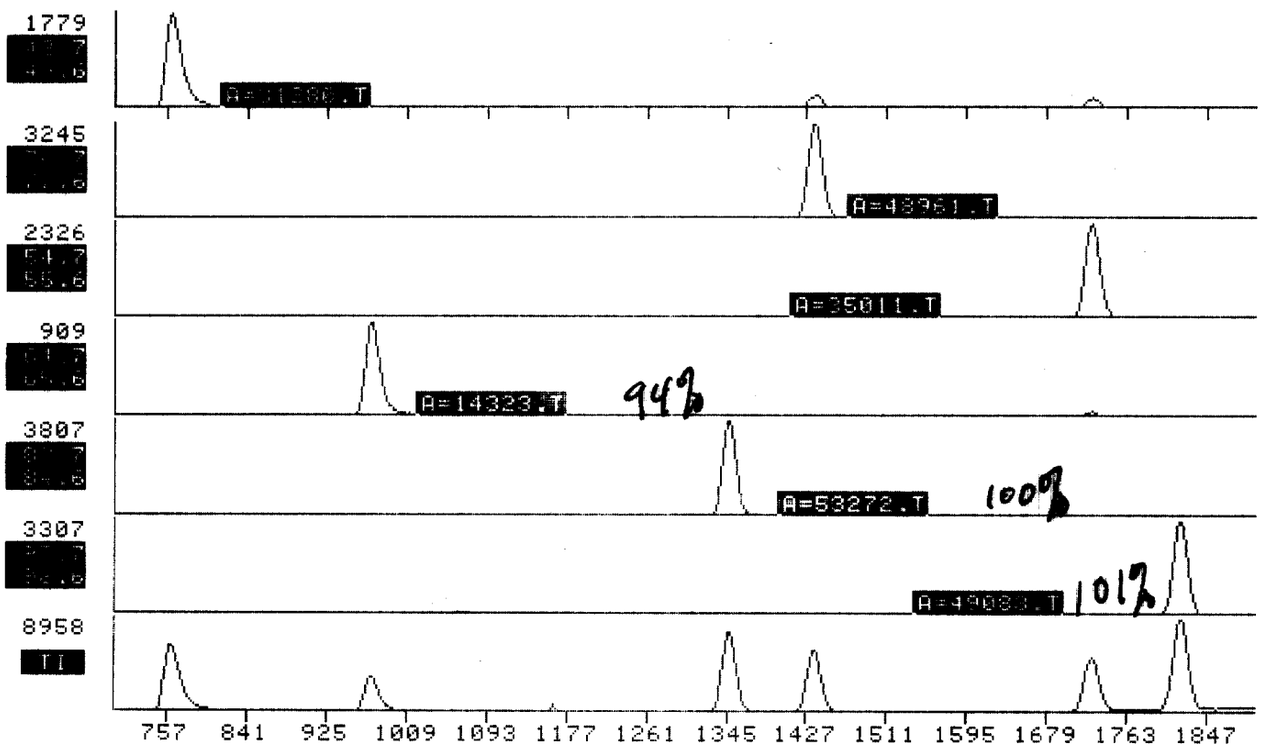
[redacted] SF-3453 SKINNER L.F. 86RA01#48 [redacted] 11682
[redacted] 8-28-86 BTL#4 D11682



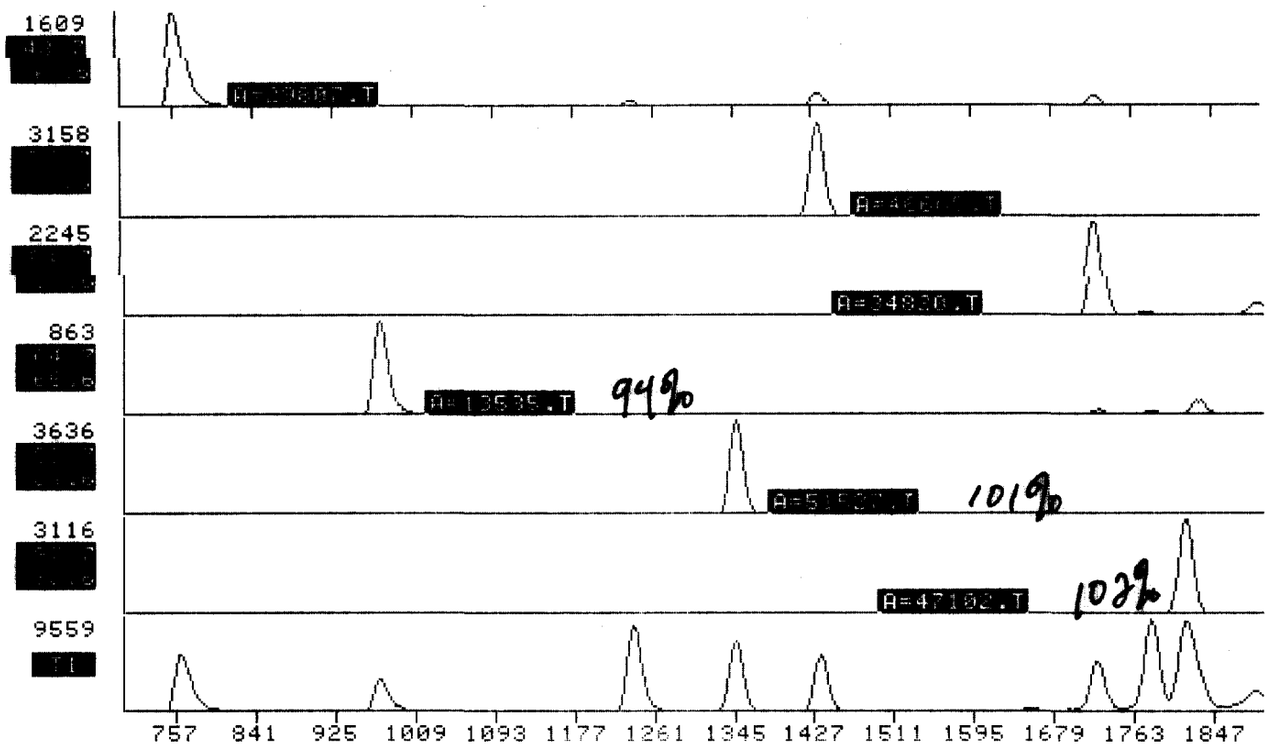
[redacted] SF-3453 SKINNER L.F. 86RA01D48 [redacted] 11683
[redacted] 8-28-86 BTL#1 D11683



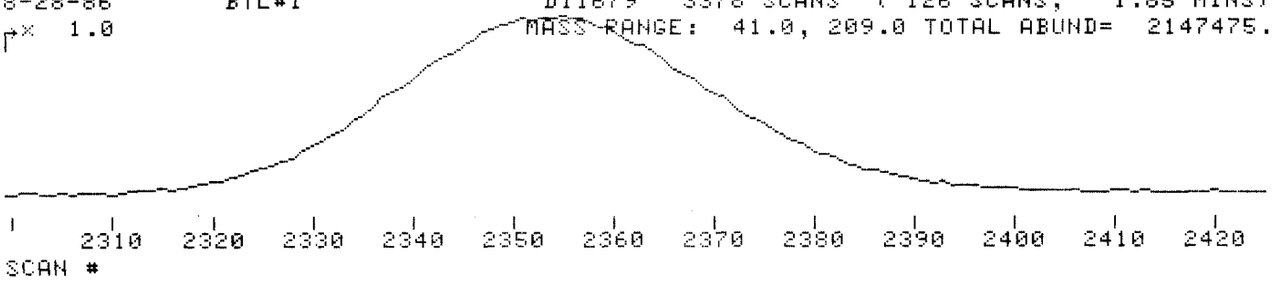
[redacted] SF-3453 86RA01$49 [redacted] 11684
[redacted] 8-28-86 BTL#2 D11684



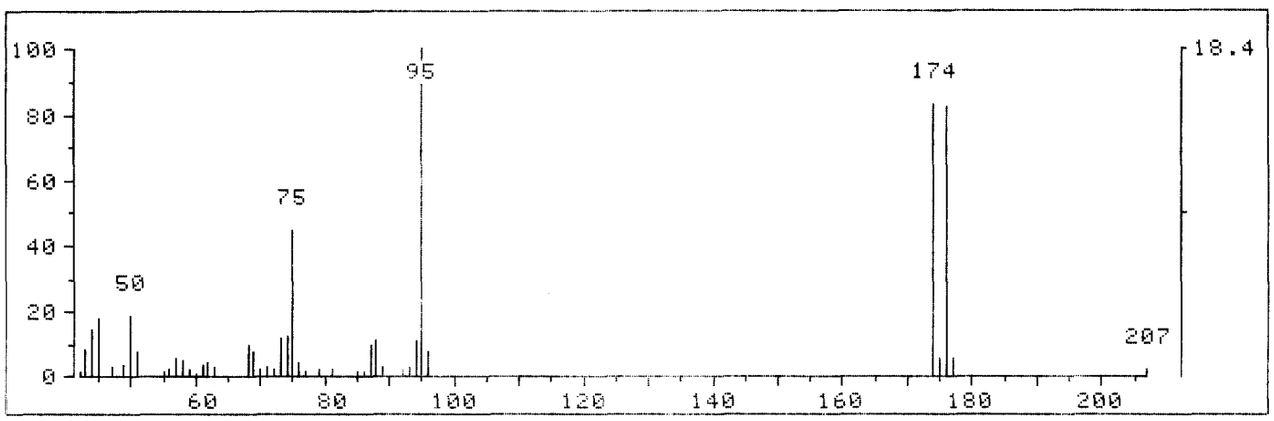
[redacted] SF-3453 86RA01$53 [redacted] 11685
[redacted] 8-28-86 BTL#3 D11685



LABBLANK FRN 11679, CRN 8
8-28-86 BTL#1 D11679 3378 SCANS (126 SCANS, 1.85 MINS)
×1.0 MASS RANGE: 41.0, 209.0 TOTAL ABUND= 2147475.



#2347 RET. TIME: 35.08 TOT ABUND= 5156. BASE PK/ABUND: 95.0/ 951.

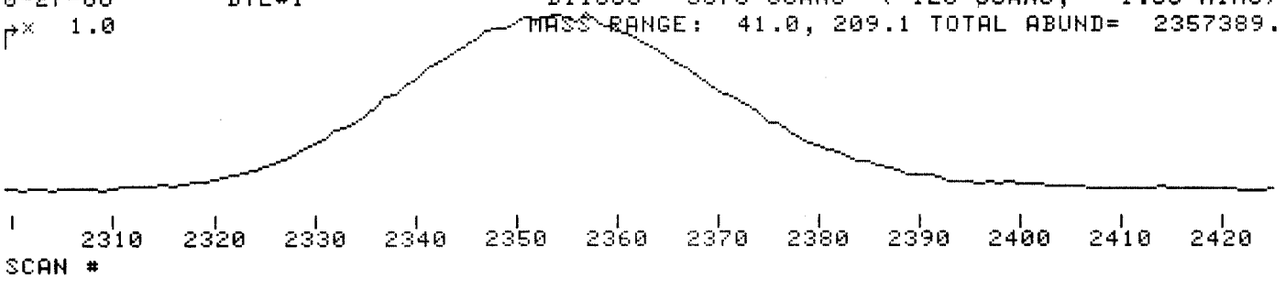


FRN 11679, SPECTRUM # 2347 RET.TIME: 35.08, 44 PEAKS

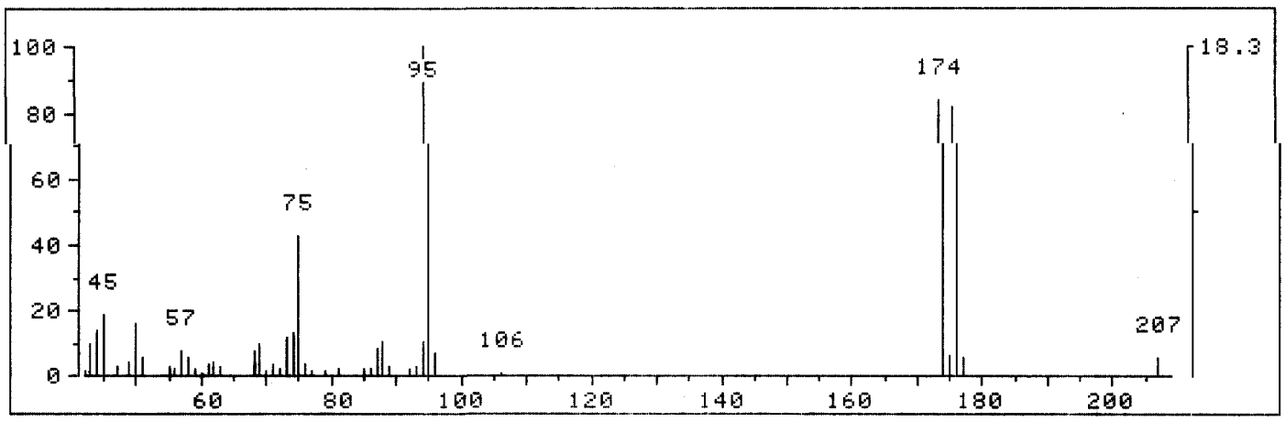
M/Z	REL ABUND	M/Z	REL ABUND	M/Z	REL ABUND	M/Z	REL ABUND
42	1.6	58	5.3	73	12.0	89	2.9
43	8.3	59	2.1	74	12.9	92	2.3
44	14.7	60	1.3	75	44.7	93	3.2
45	17.9	61	4.0	76	4.4	94	11.1
47	3.4	62	4.4	77	1.5	95	100.0
49	3.6	63	3.2	79	2.1	96	8.2
50	18.8	68	9.8	81	2.2	174	83.4
51	7.6	69	7.9	85	2.0	175	5.6
55	1.6	70	2.1	86	1.8	176	82.8
56	2.5	71	2.8	87	9.7	177	5.8
57	6.0	72	2.1	88	11.4	207	2.6

>PAUSE

LABBLANK [redacted] 11665, [redacted] 17
8-27-86 BTL#1 D11665 3378 SCANS (126 SCANS, 1.85 MINS)
↱× 1.0 MASS RANGE: 41.0, 209.1 TOTAL ABUND= 2357389.



#2346 RET. TIME: 35.07 TOT ABUND= 5114. BASE PK/ABUND: 95.0/ 936.



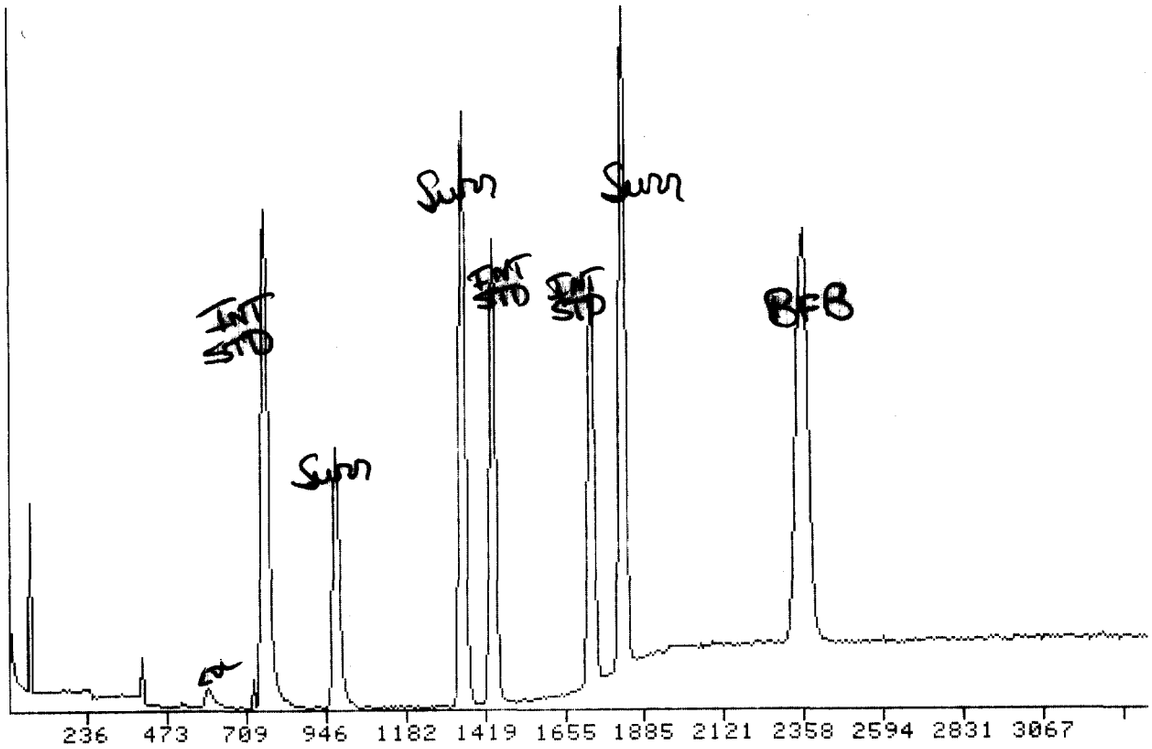
FRN 11665, SPECTRUM # 2346 RET.TIME: 35.07, 45 PEAKS

M/Z	REL ABUND	M/Z	REL ABUND	M/Z	REL ABUND	M/Z	REL ABUND
42	1.7	59	2.6	75	42.9	94	10.6
43	9.7	60	1.3	76	4.1	95	100.0
44	13.9	61	4.0	77	1.7	96	7.4
45	18.6	62	4.3	79	2.0	106	1.3
47	3.3	63	2.8	81	2.5	174	83.7
49	4.2	68	7.8	85	2.6	175	6.7
50	16.1	69	9.6	86	2.1	176	82.1
51	6.1	70	2.0	87	8.5	177	5.9
55	2.8	71	4.1	88	10.9	207	5.6
56	2.7	72	2.4	89	3.0		
57	8.0	73	11.6	92	2.1		
58	6.0	74	13.0	93	3.2		

>PAUSE

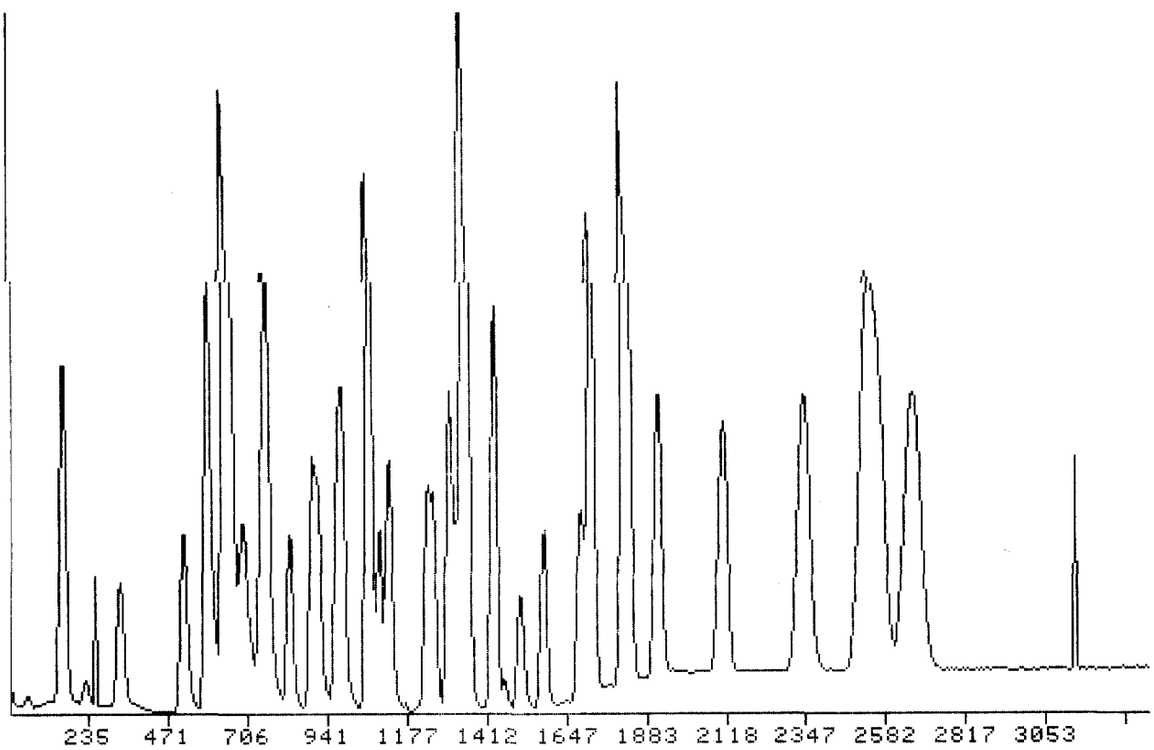
[redacted] LABBLANK
[redacted] 8-27-86 BTL#1 D11665 [redacted] 11665

8671

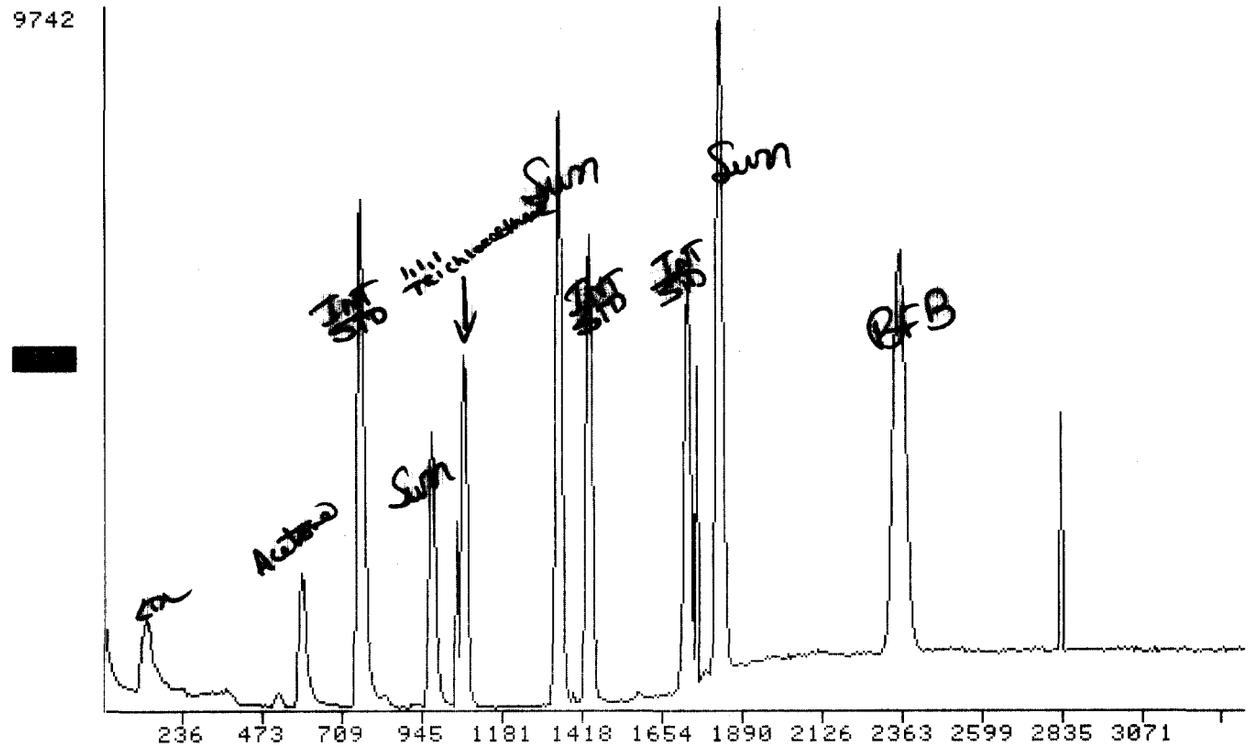


[redacted] VOLSTD
[redacted] 8-27-86 BTL#2 D11666 [redacted] 11666

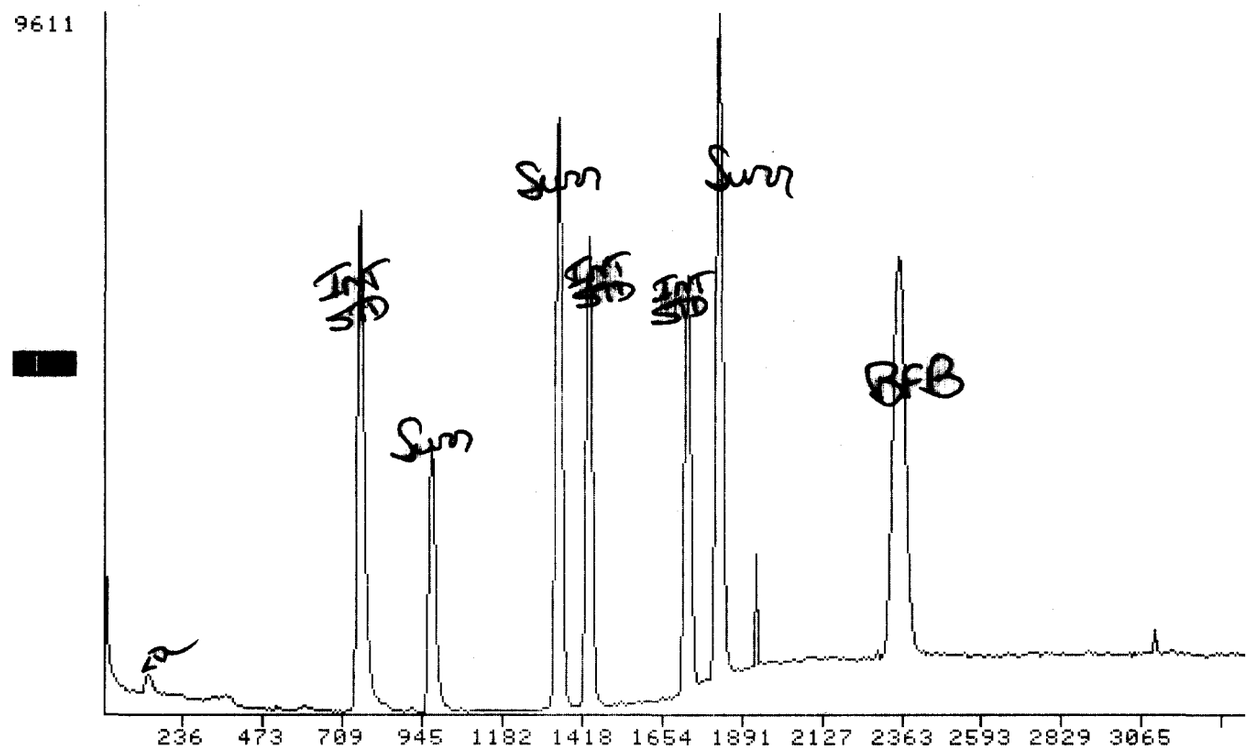
14194



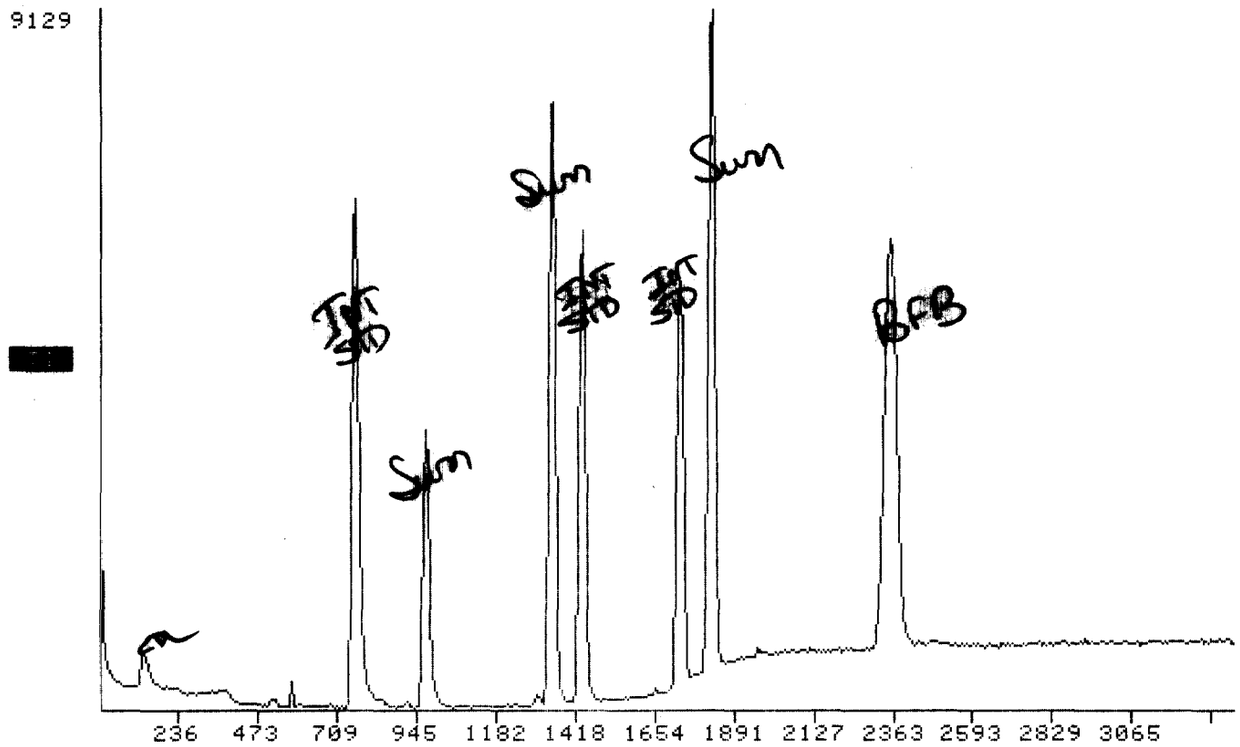
[redacted] SF-3453 SKINNER L.F. 86RA01R53 [redacted] 11673
[redacted] 8-27-86 BTL#5 D11673



[redacted] SF-3453 86RA01$44 [redacted] 11674
[redacted] 8-27-86 BTL#6 D11674



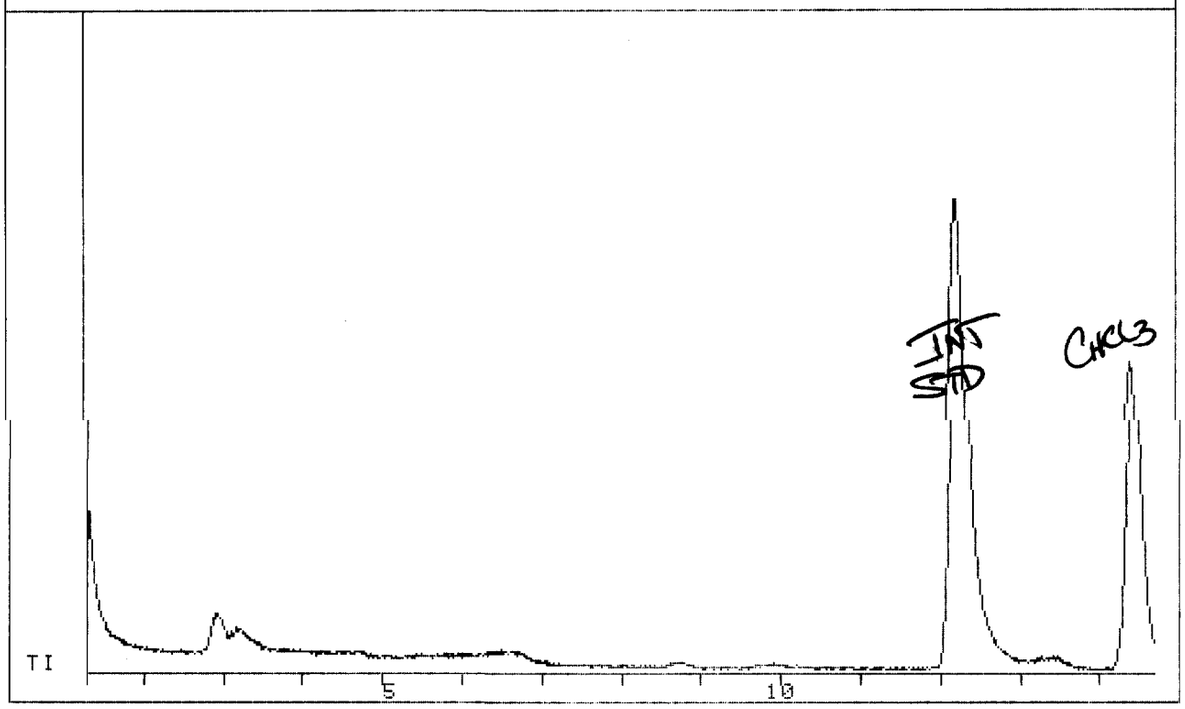
[redacted] SF-3453 86RA01$45 [redacted] 11675
[redacted] 8-27-86 BTL#7 D11675



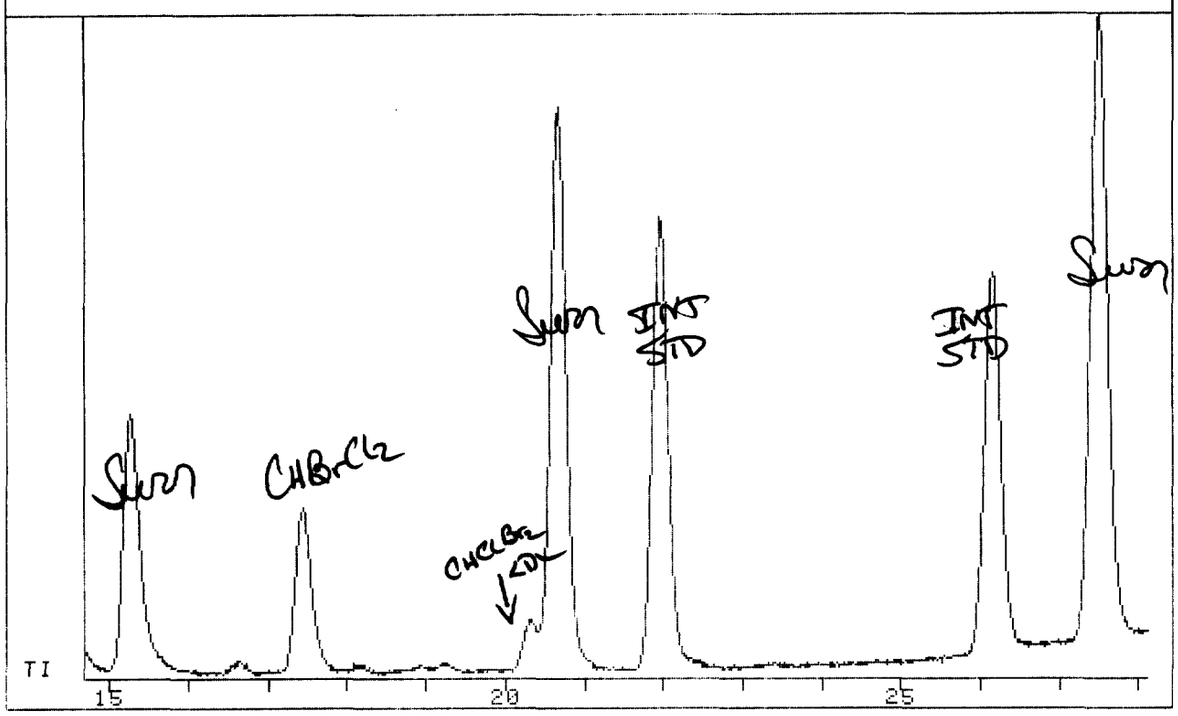
** BATCH PROCESSOR RECONSTRUCT ** FRN 11676

SF-3453 86RA01$46 1ST SC/PG: 1

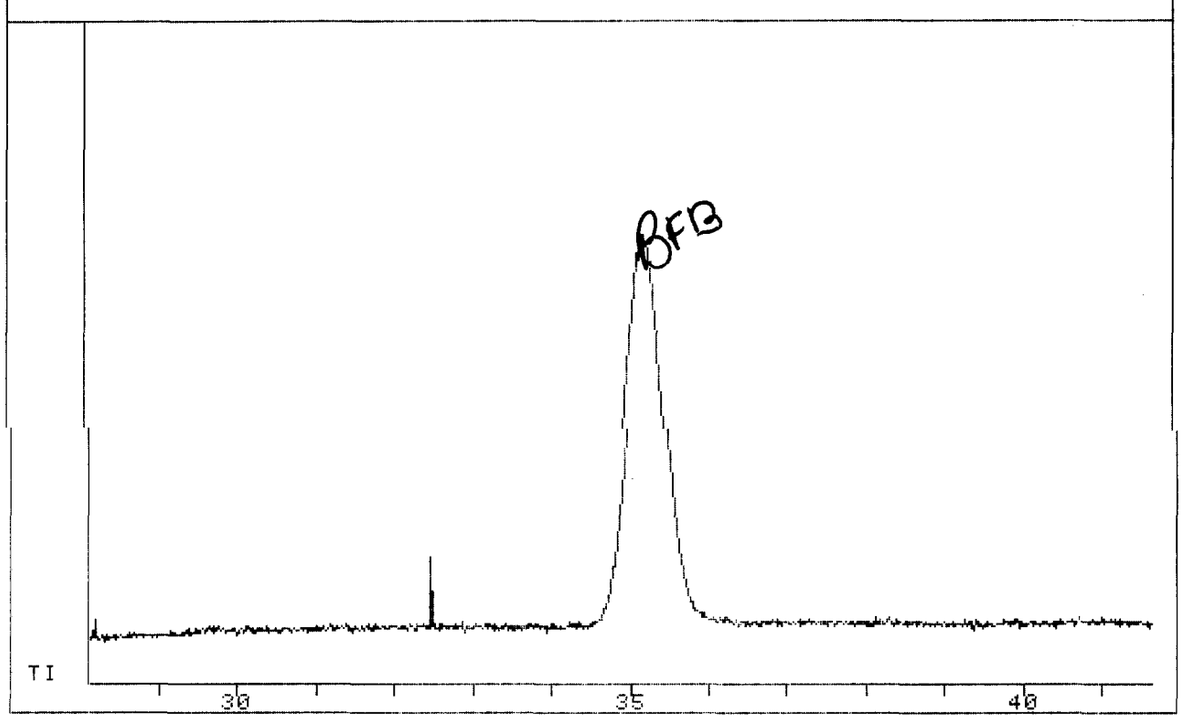
8-27-86 BTL#8 D11676 X= .25 Y= 1.00



SF-3453 86RA01$46 1ST SC/PG: 933
8-27-86 BTL#8 D11676 X= .25 Y= 1.00

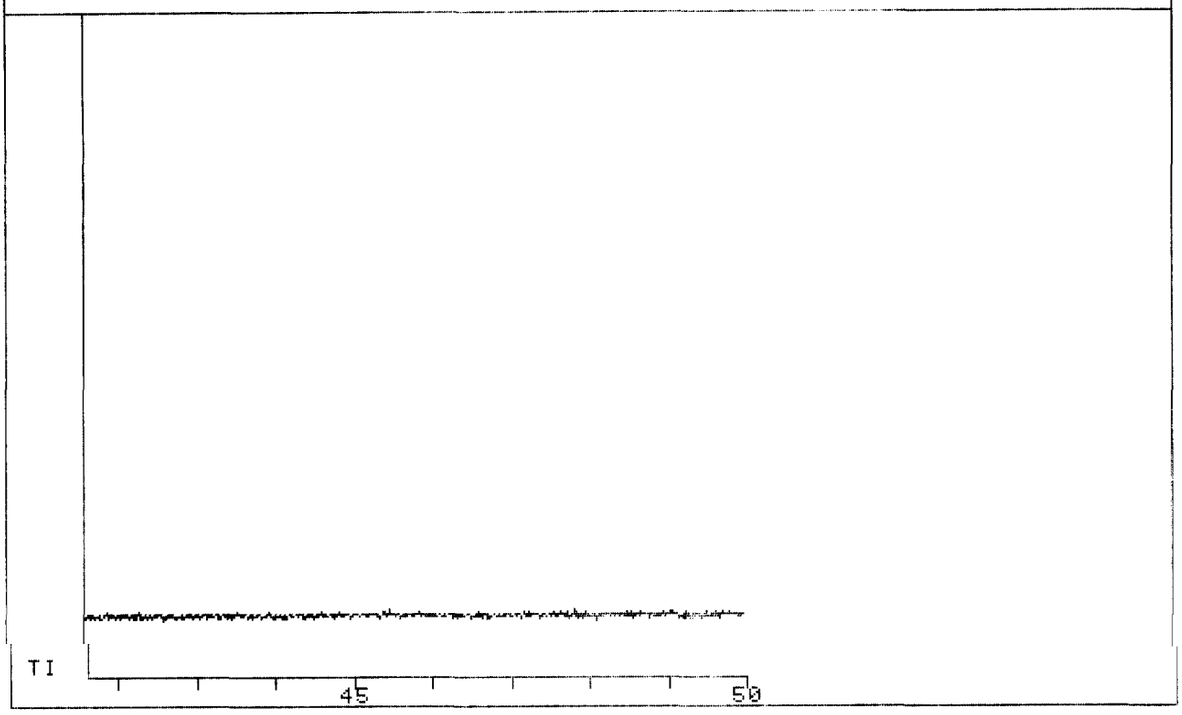


** BATCH PROCESSOR RECONSTRUCT ** FRN 11676
SF-3453 86RA01$46 1ST SC/PG:1865
8-27-86 BTL#8 D11676 X= .25 Y= 1.00



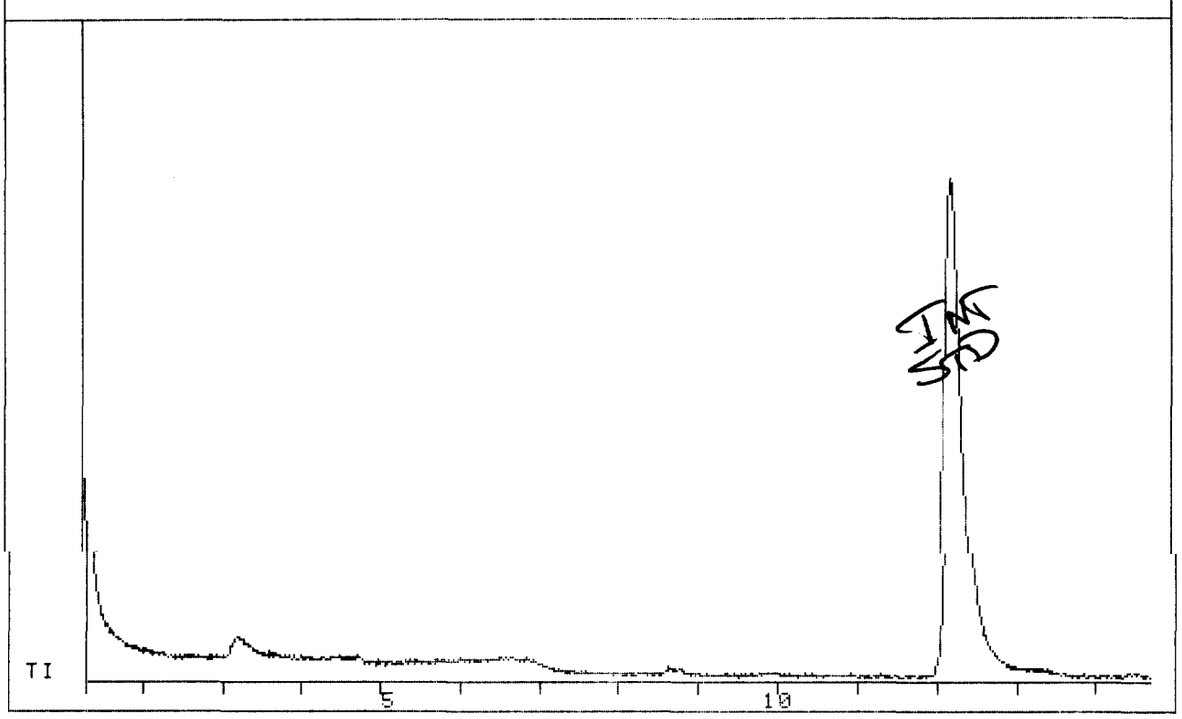
** BATCH PROCESSOR RECONSTRUCT **

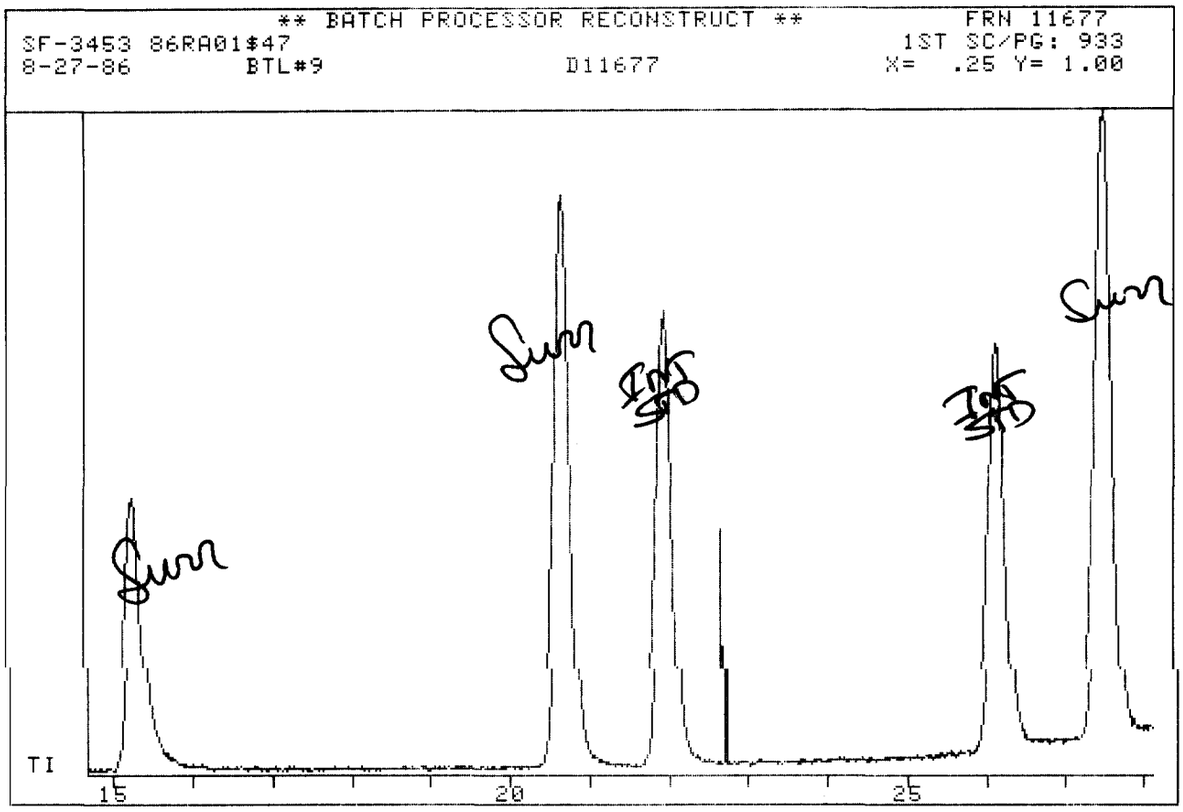
SF-3453 86RA01$46 FRN 11676
8-27-86 BTL#8 D11676 1ST SC/PG:2797
X= .25 Y= 1.00

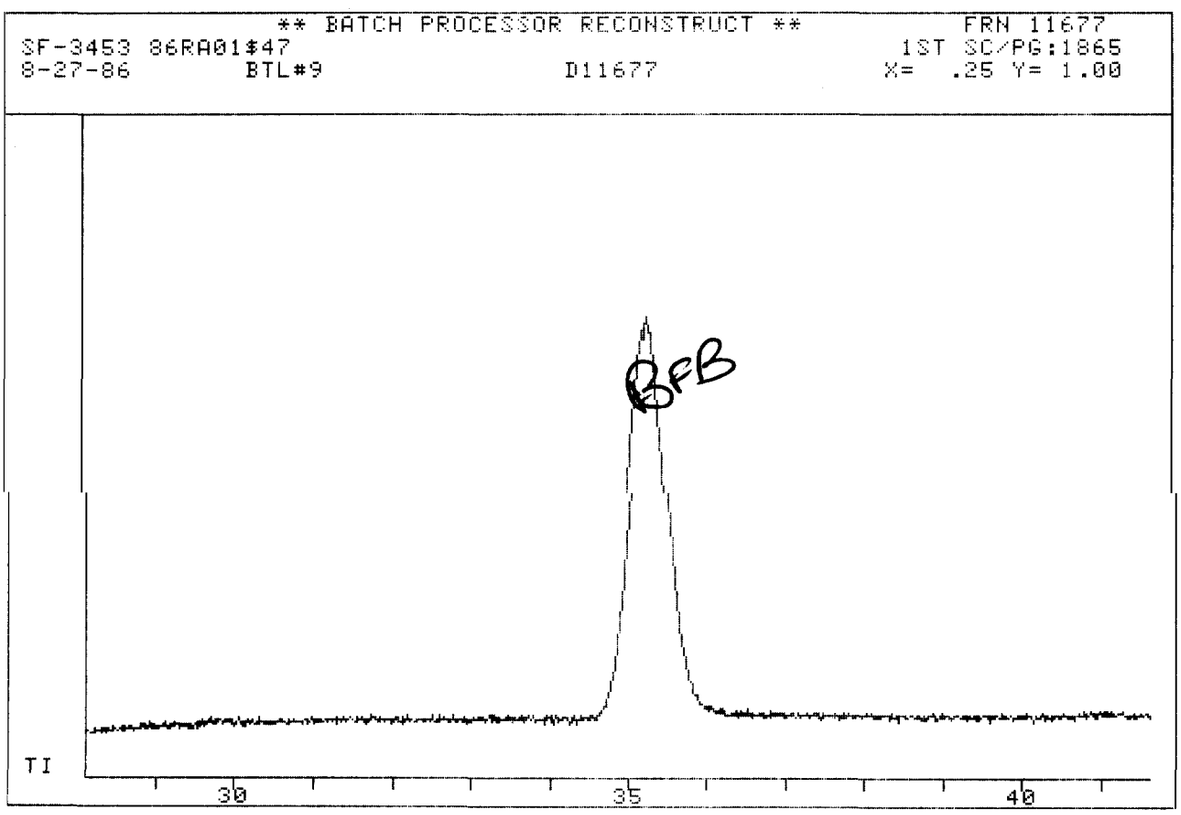


** BATCH PROCESSOR RECONSTRUCT **

SF-3453 86RA01$47 FRN 11677
8-27-86 BTL#9 D11677 1ST SC/PG: 1
X= .25 Y= 1.00



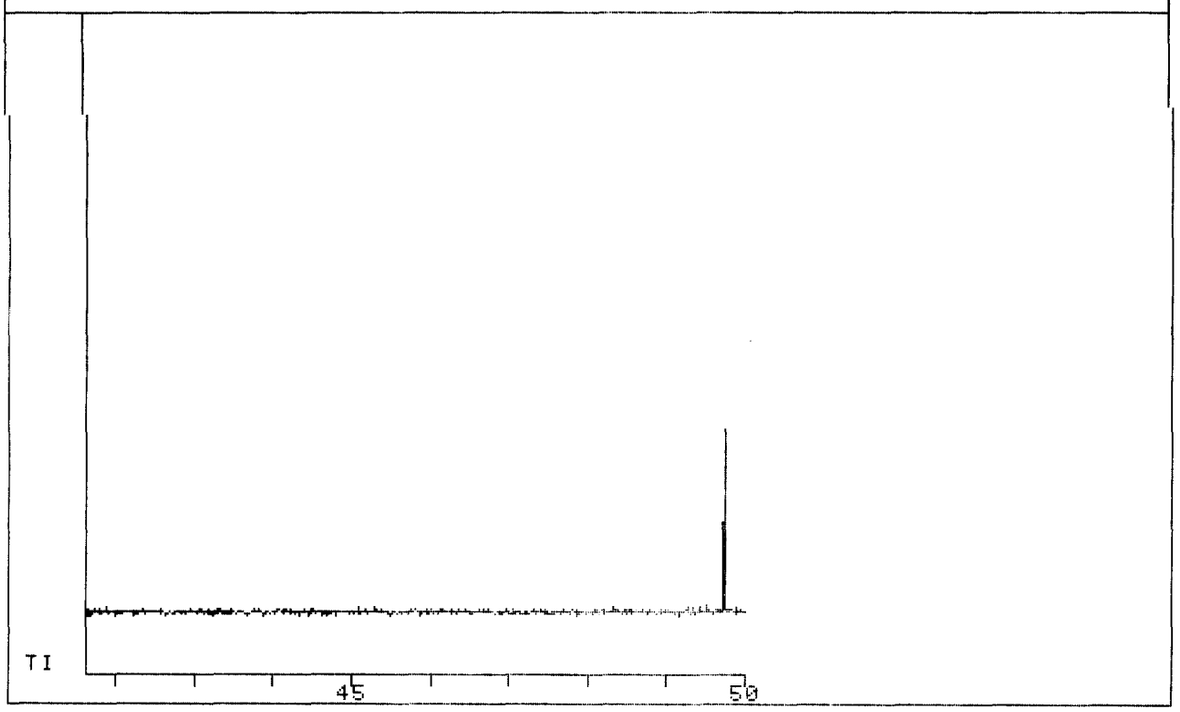

** BATCH PROCESSOR RECONSTRUCT **
FRN 11677
SF-3453 86RA01$47
1ST SC/PG: 933
8-27-86
BTL#9
D11677
X= .25 Y= 1.00
Sum
Sum
Sum
TI
15
20
25


** BATCH PROCESSOR RECONSTRUCT **
FRN 11677
SF-3453 86RA01$47
1ST SC/PG:1865
8-27-86
BTL#9
D11677
X= .25 Y= 1.00
BFB
TI
30
35
40

** BATCH PROCESSOR RECONSTRUCT ** FRN 11677

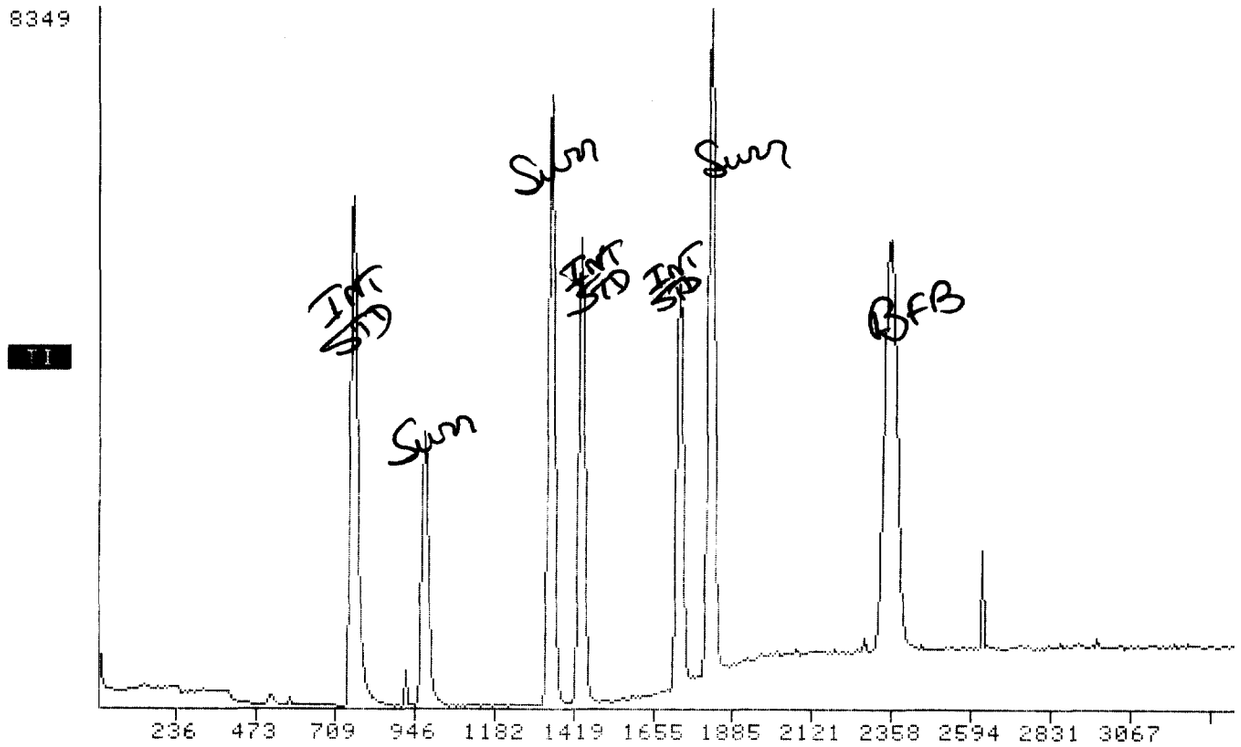
SF-3453 86RA01$47 1ST SC/PG:2797

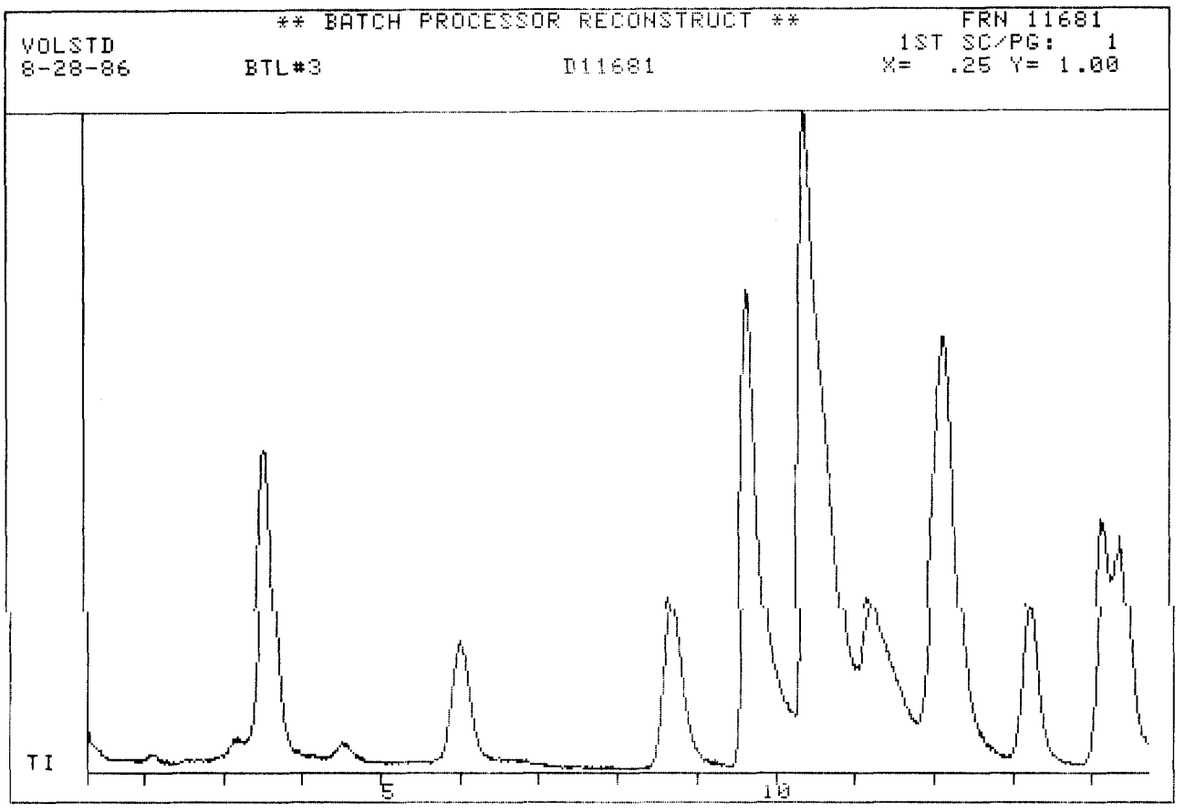
8-27-86 BTL#9 D11677 X= .25 Y= 1.00

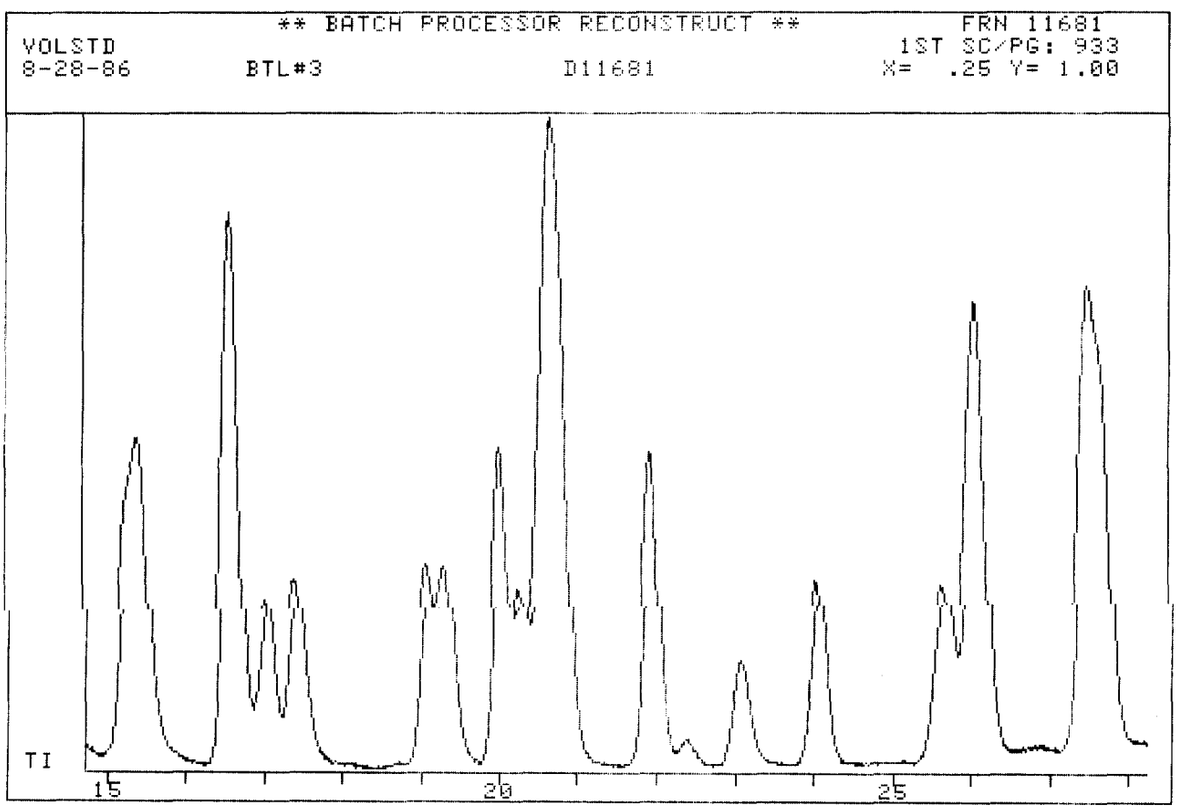


NAME LABBLANK
MISC 8-28-86 BTL#1 D11679

FRN 11679



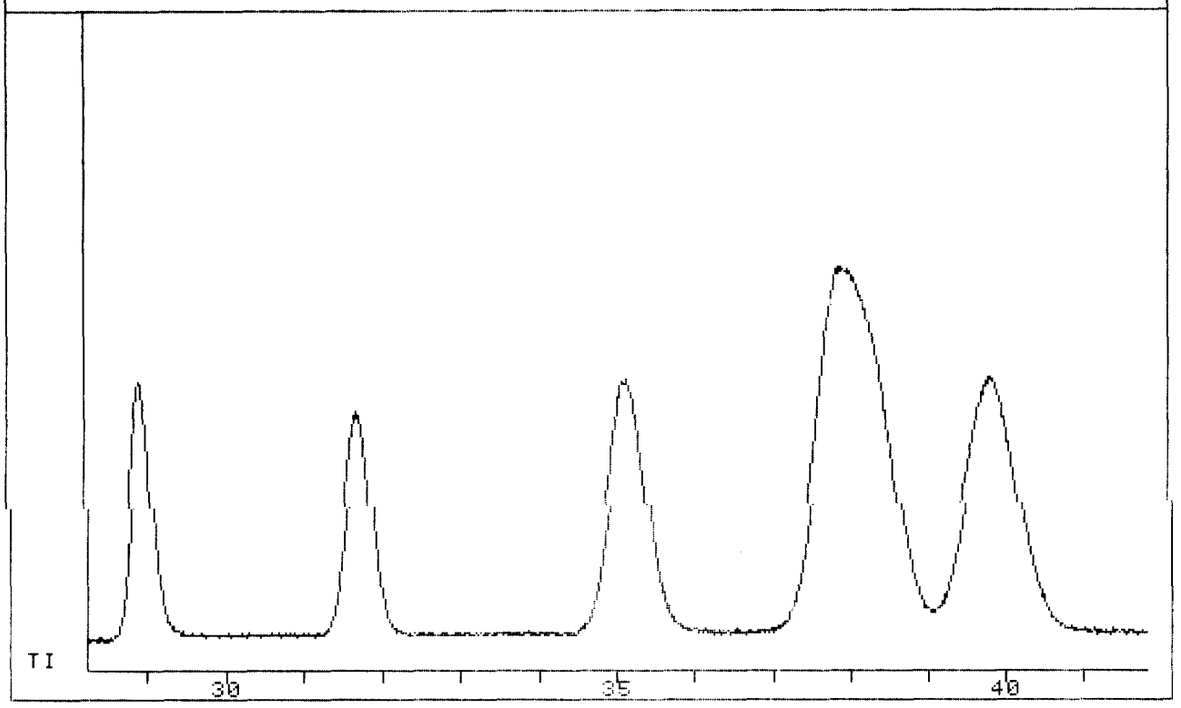

** BATCH PROCESSOR RECONSTRUCT **
FRN 11681
VOLSTD
1ST SC/PG: 1
8-28-86
BTL#3
D11681
X= .25 Y= 1.00
TI
5
10


** BATCH PROCESSOR RECONSTRUCT **
FRN 11681
VOLSTD
1ST SC/PG: 933
8-28-86
BTL#3
D11681
X= .25 Y= 1.00
TI
15
20
25

** BATCH PROCESSOR RECONSTRUCT **

VOLSTD
8-28-86 BTL#3 D11681

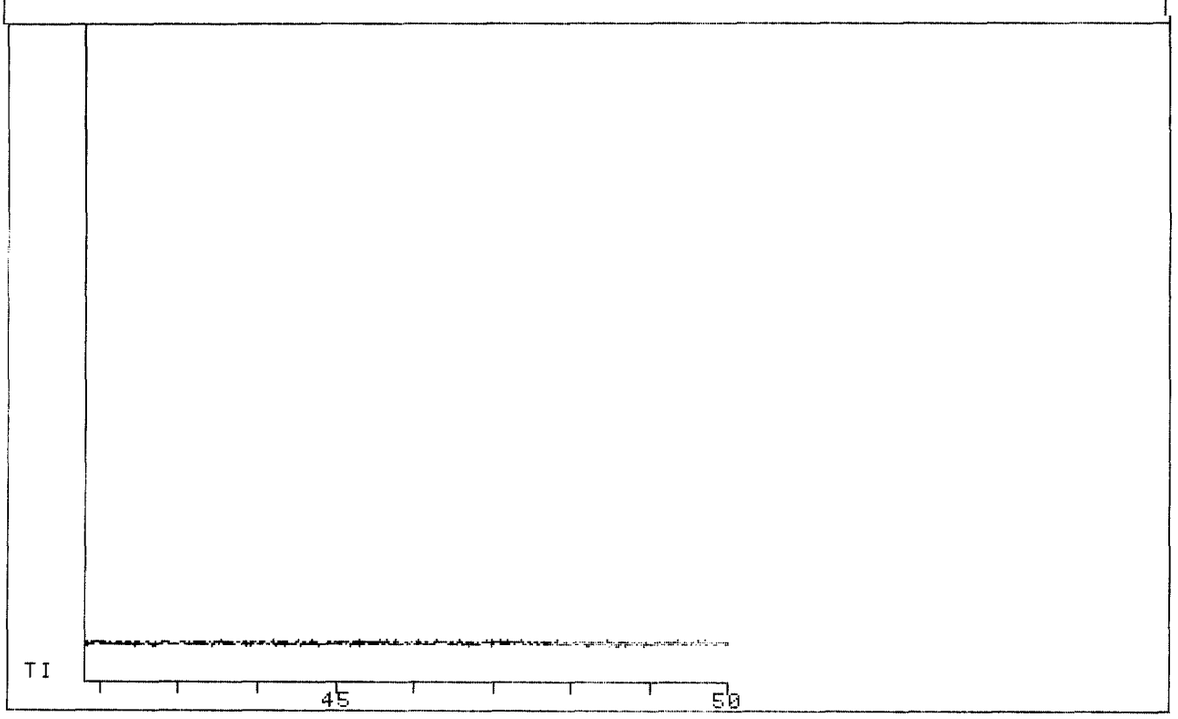
FRN 11681
1ST SC/PG:1865
X= .25 Y= 1.00

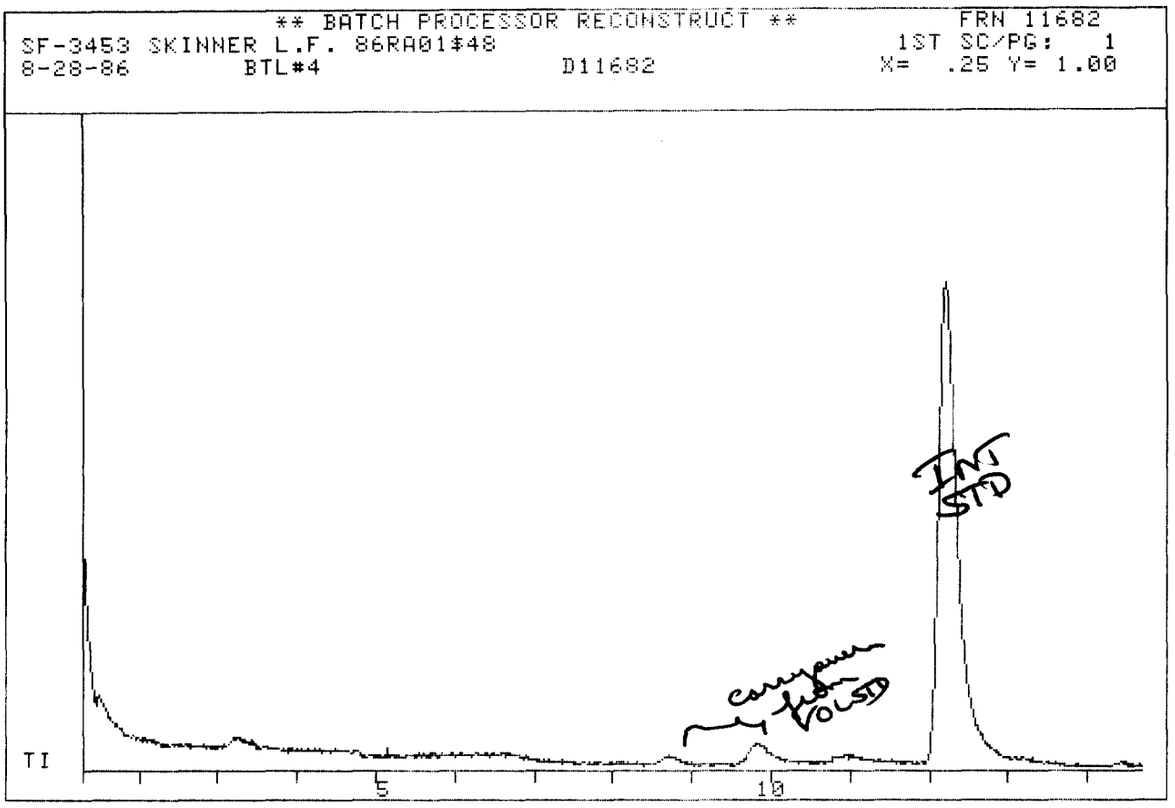


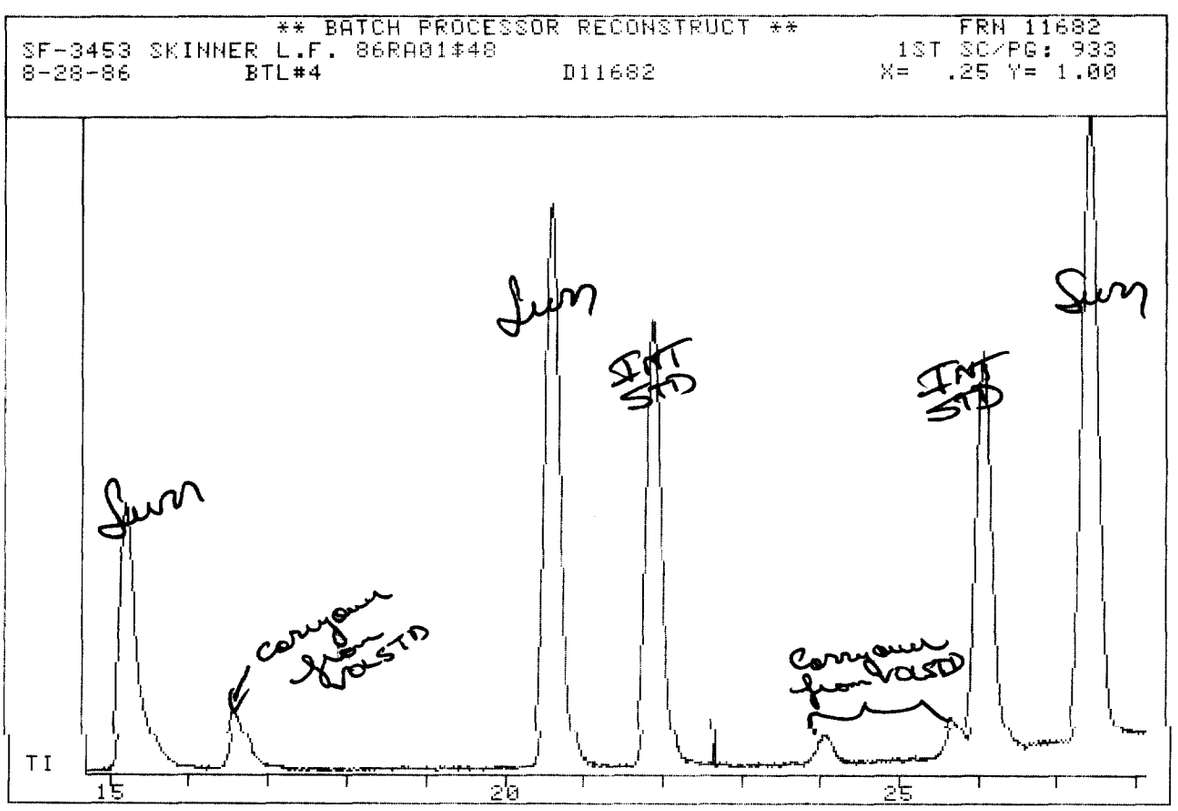
** BATCH PROCESSOR RECONSTRUCT **

VOLSTD
8-28-86 BTL#3 D11681

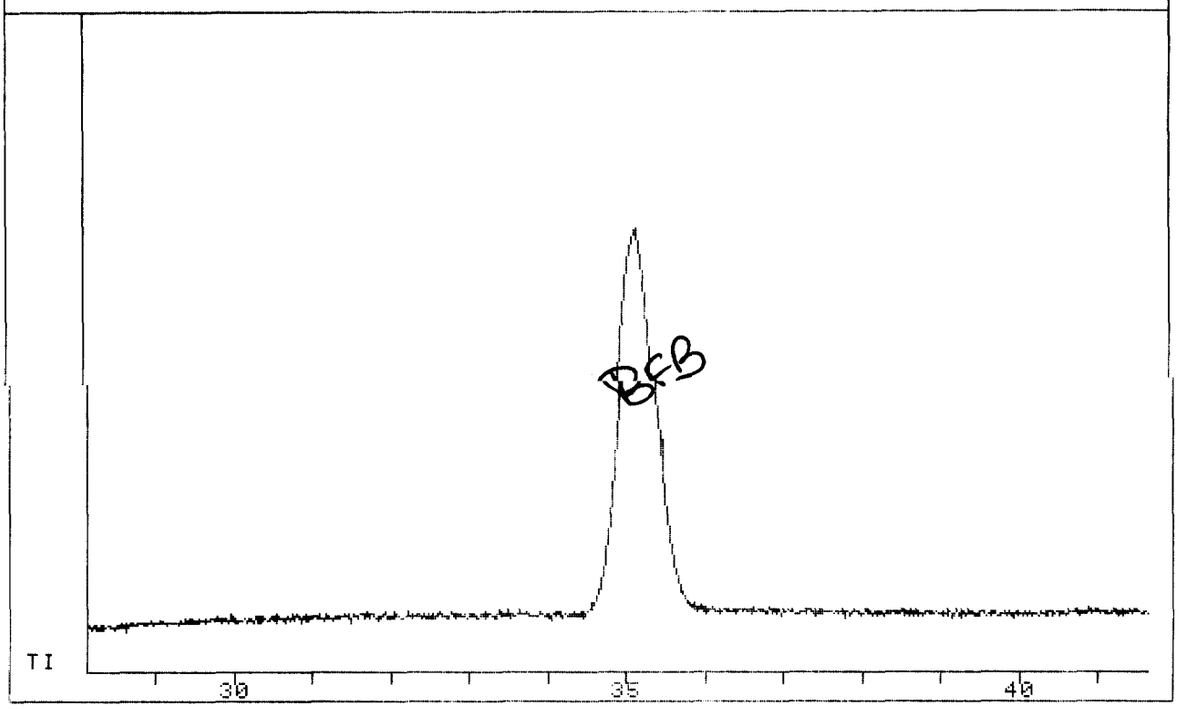
FRN 11681
1ST SC/PG:2797
X= .25 Y= 1.00



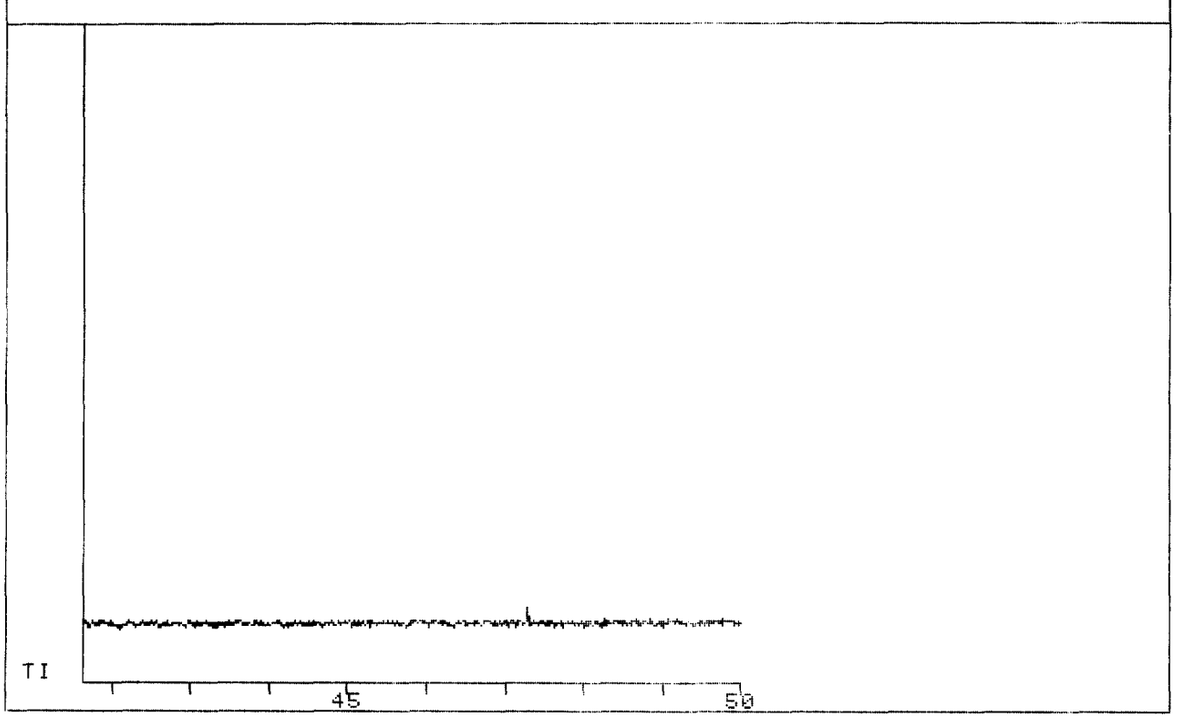

** BATCH PROCESSOR RECONSTRUCT **
FRN 11682
SF-3453 SKINNER L.F. 86RA01$48
1ST SC/PG: 1
8-28-86
BTL#4
D11682
X= .25 Y= 1.00
TI
5
10
INT STD
carryover from VOLSTD


** BATCH PROCESSOR RECONSTRUCT **
FRN 11682
SF-3453 SKINNER L.F. 86RA01$48
1ST SC/PG: 933
8-28-86
BTL#4
D11682
X= .25 Y= 1.00
TI
15
20
25
Sum
carryover from VOLSTD
Sum
INT STD
carryover from VOLSTD
INT STD
Sum

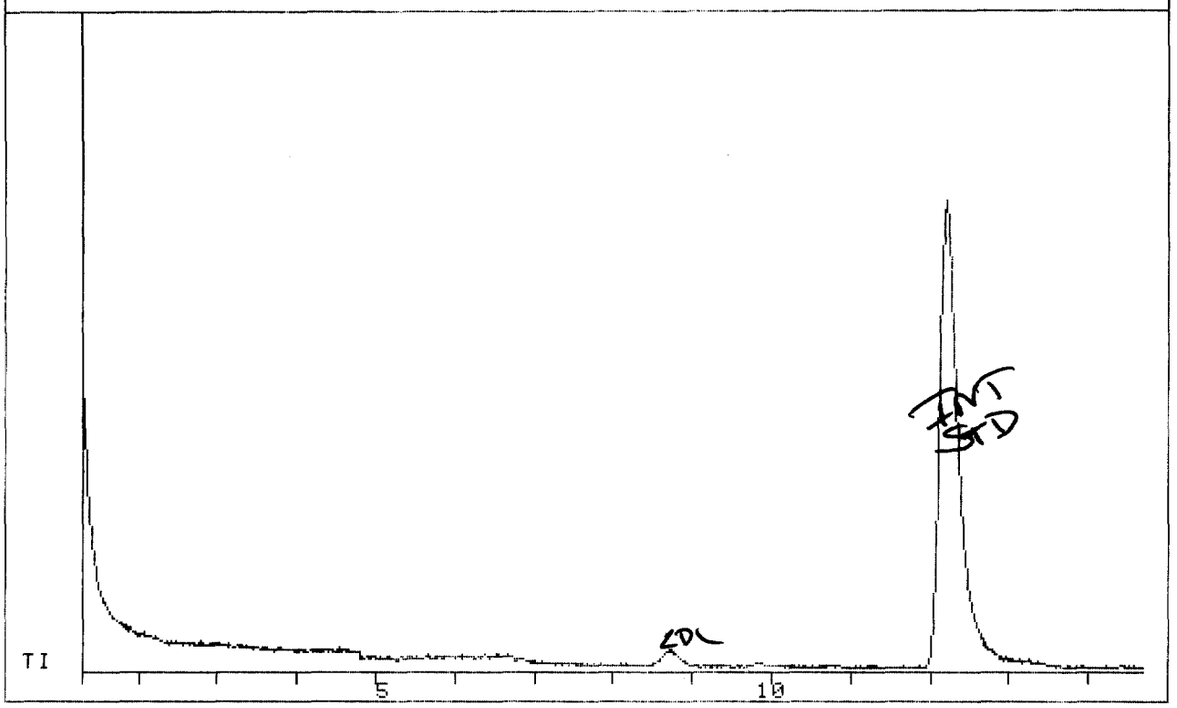
** BATCH PROCESSOR RECONSTRUCT ** FRN 11682
SF-3453 SKINNER L.F. 86RA01$48 1ST SC/PG:1865
8-28-86 BTL#4 D11682 X= .25 Y= 1.00



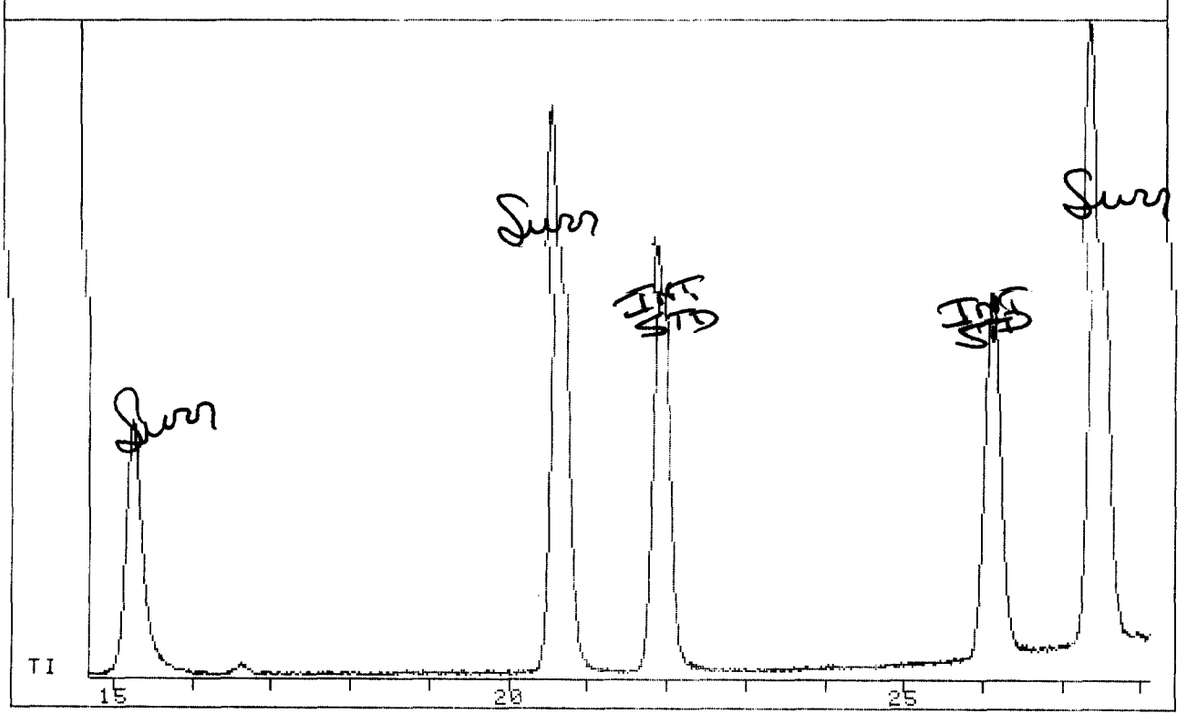
** BATCH PROCESSOR RECONSTRUCT ** FRN 11682
SF-3453 SKINNER L.F. 86RA01$48 1ST SC/PG:2797
8-28-86 BTL#4 D11682 X= .25 Y= 1.00



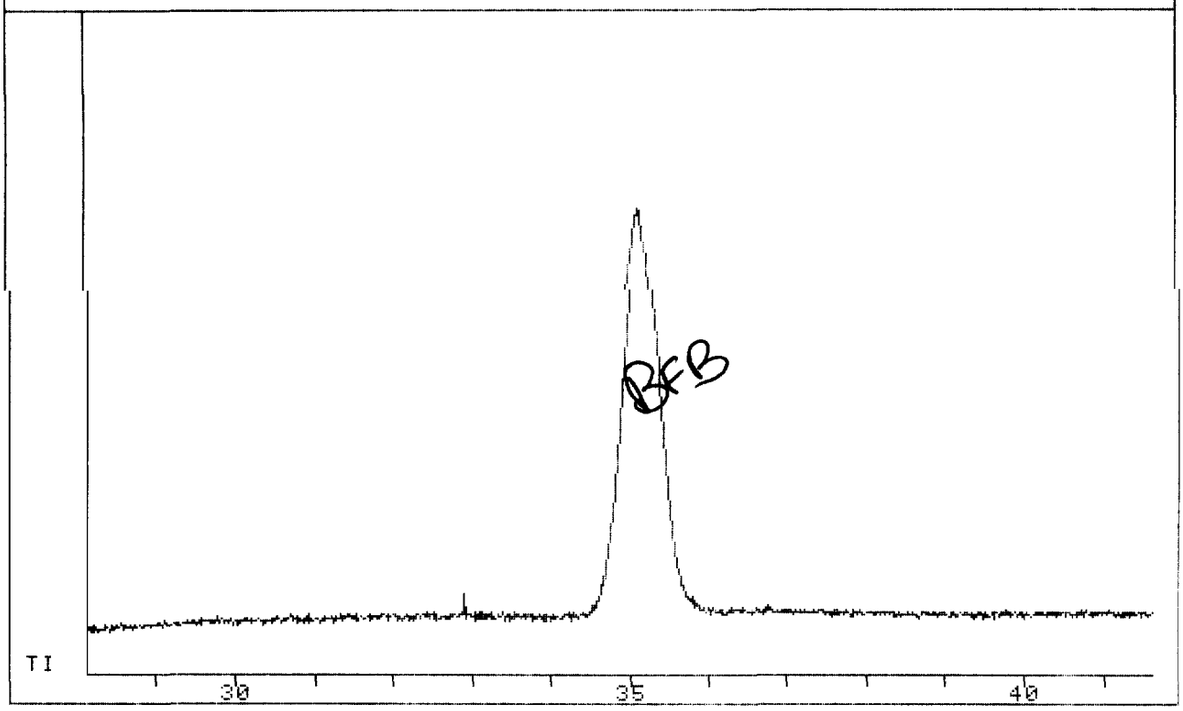
** BATCH PROCESSOR RECONSTRUCT ** FRN 11683
SF-3453 SKINNER L.F. 86RA01D48 1ST SC/PG: 1
8-28-86 BTL#1 D11683 X= .25 Y= 1.00



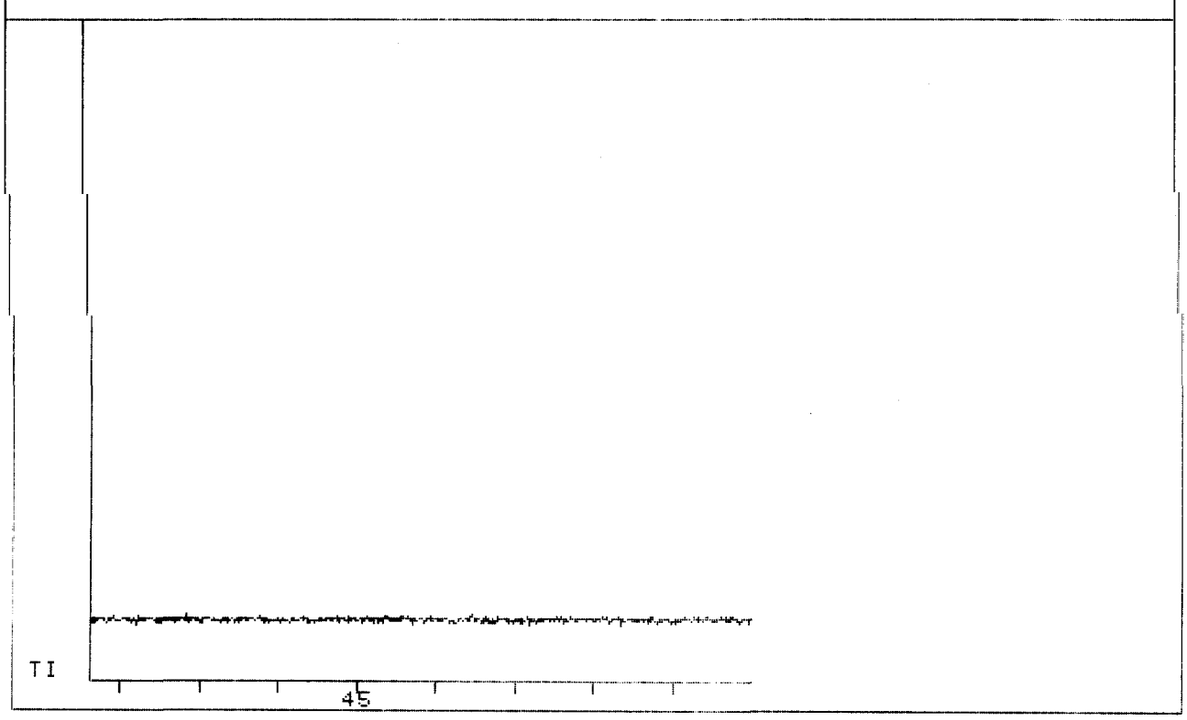
** BATCH PROCESSOR RECONSTRUCT ** FRN 11683
SF-3453 SKINNER L.F. 86RA01D48 1ST SC/PG: 933
8-28-86 BTL#1 D11683 X= .25 Y= 1.00



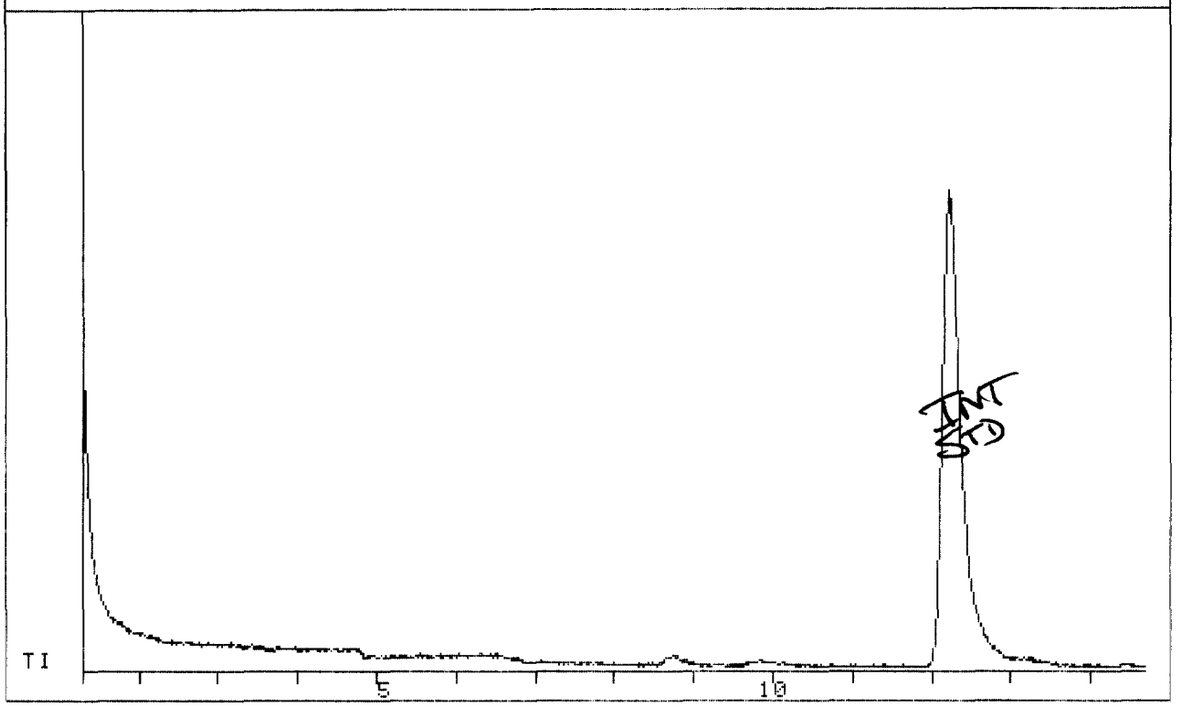
** BATCH PROCESSOR RECONSTRUCT ** FRN 11683
SF-3453 SKINNER L.F. 86RA01D48 1ST SC/PG:1865
8-28-86 BTL#1 D11683 X= .25 Y= 1.00



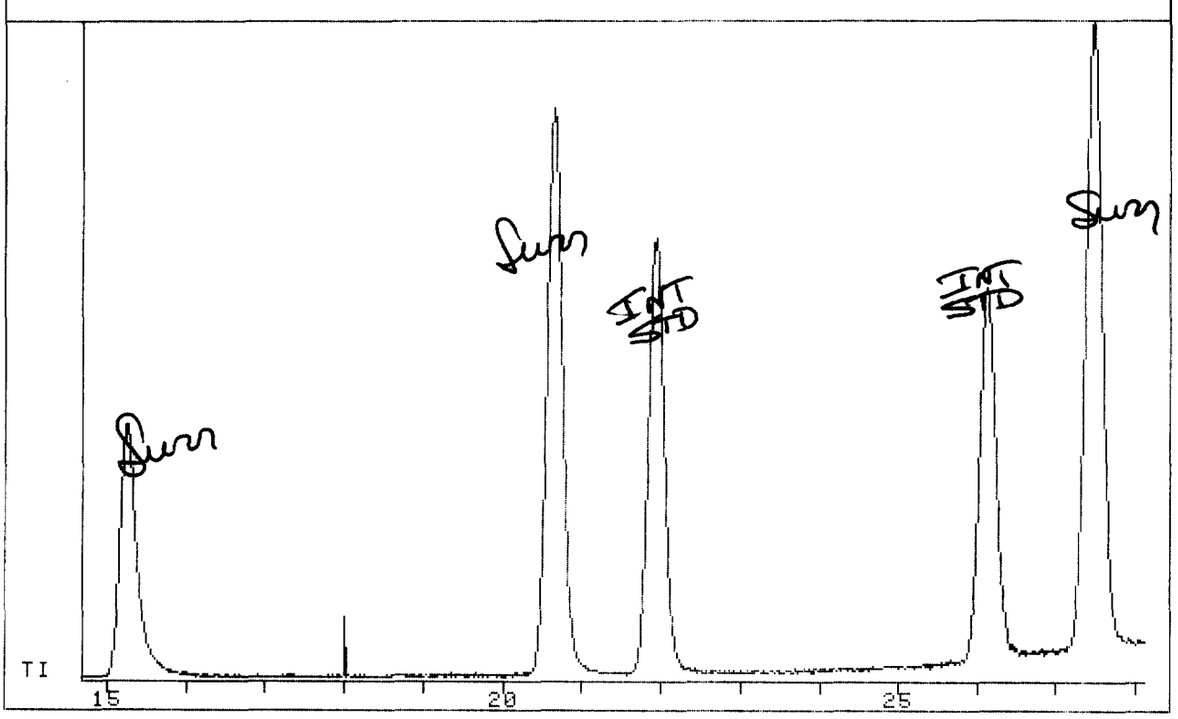
** BATCH PROCESSOR RECONSTRUCT ** FRN 11683
SF-3453 SKINNER L.F. 86RA01D48 1ST SC/PG:2797
8-28-86 BTL#1 D11683 X= .25 Y= 1.00



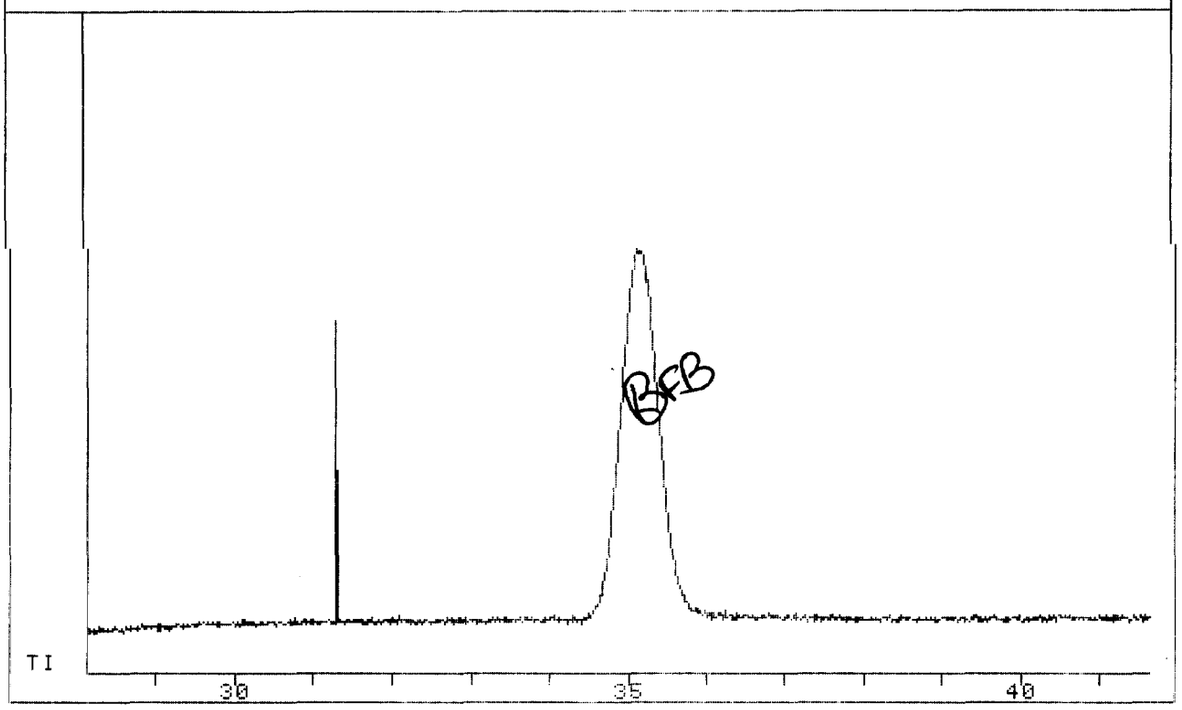
** BATCH PROCESSOR RECONSTRUCT ** FRN 11684
SF-3453 86RA01$49 1ST SC/PG: 1
8-28-86 BTL#2 D11684 X= .25 Y= 1.00



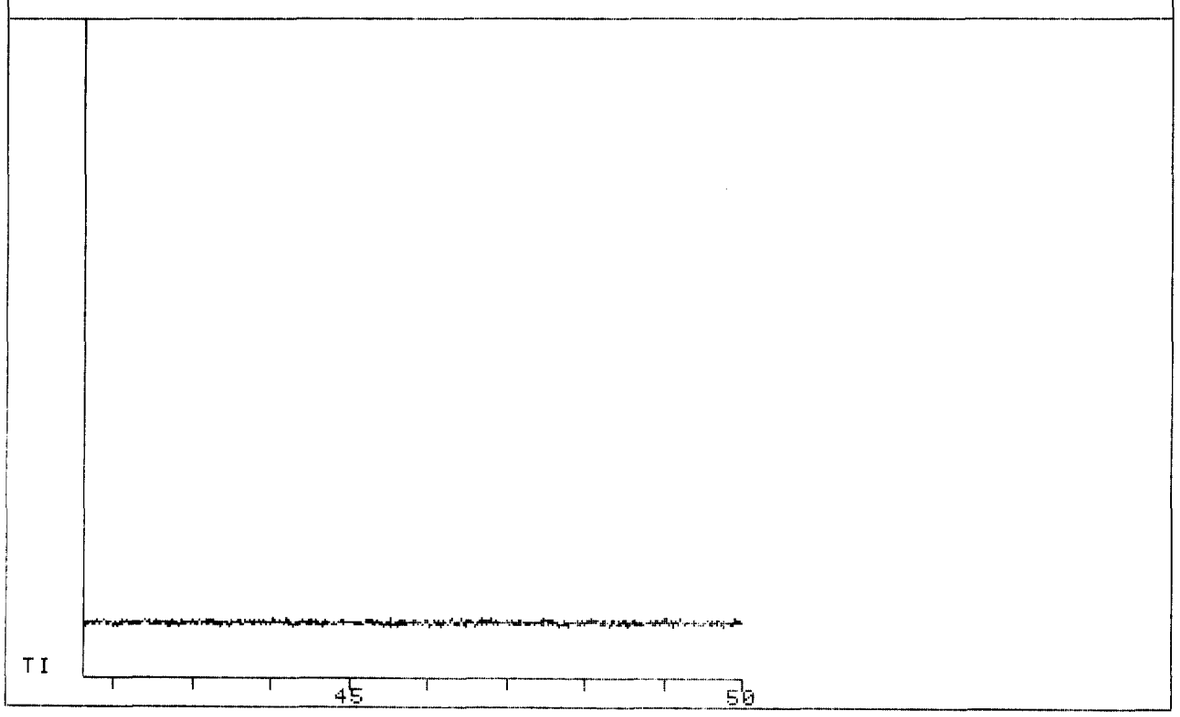
** BATCH PROCESSOR RECONSTRUCT ** FRN 11684
SF-3453 86RA01$49 1ST SC/PG: 933
8-28-86 BTL#2 D11684 X= .25 Y= 1.00

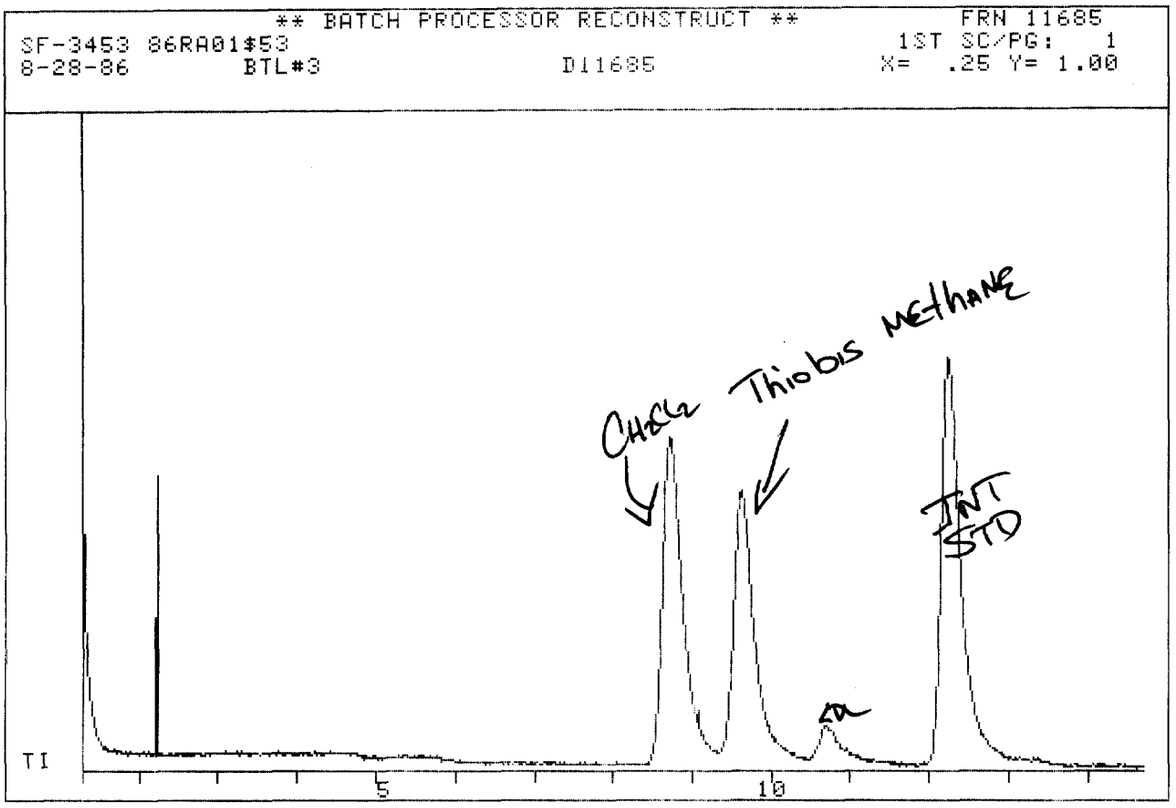


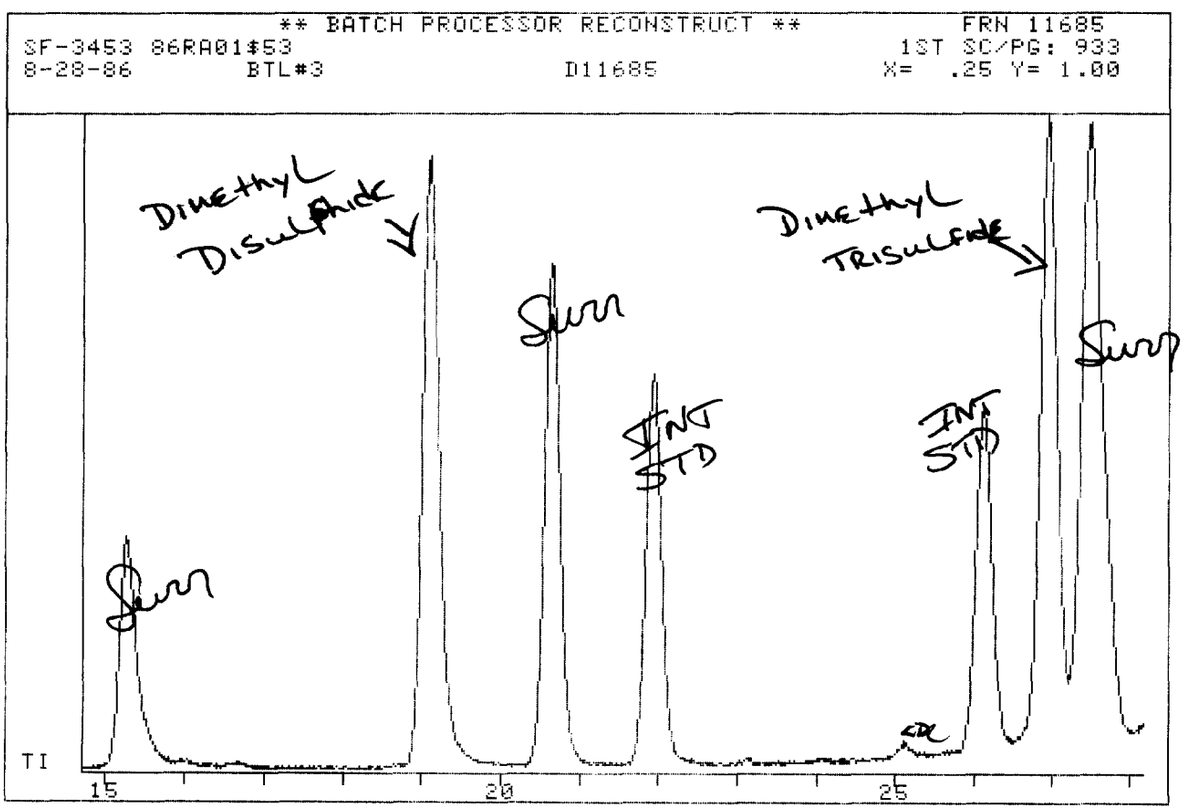
** BATCH PROCESSOR RECONSTRUCT ** FRN 11684
SF-3453 86RA01$49 1ST SC/PG:1865
8-28-86 BTL#2 D11684 X= .25 Y= 1.00



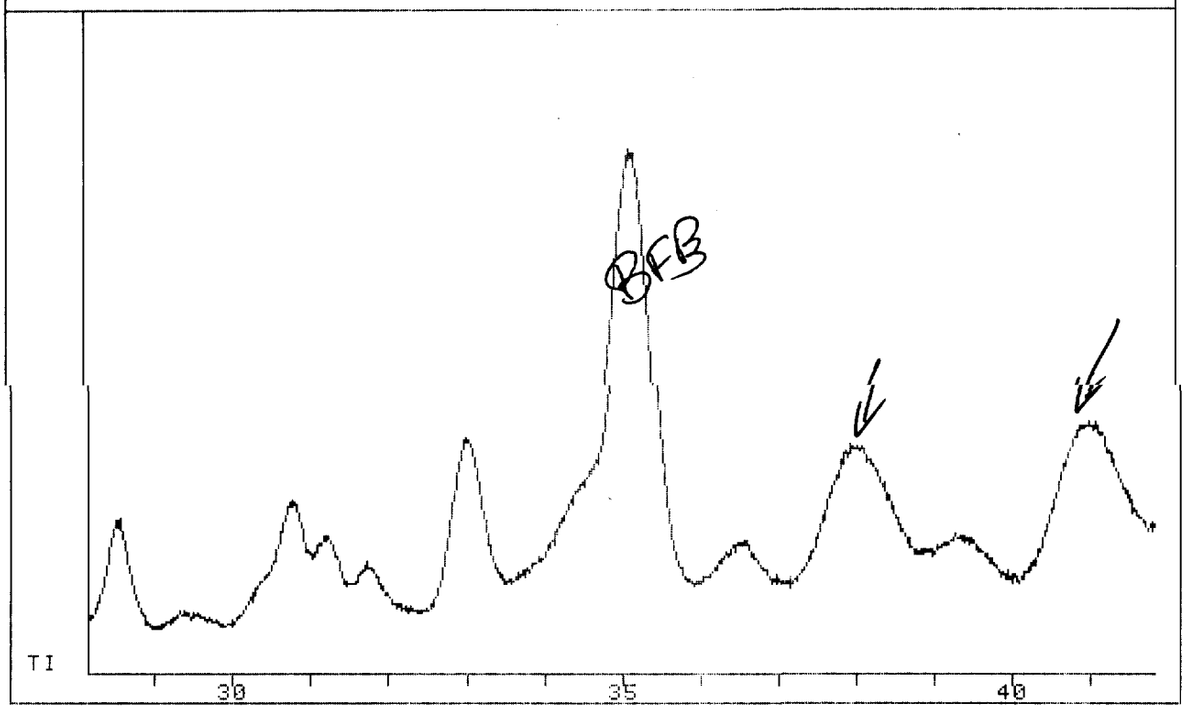
** BATCH PROCESSOR RECONSTRUCT ** FRN 11684
SF-3453 86RA01$49 1ST SC/PG:2797
8-28-86 BTL#2 D11684 X= .25 Y= 1.00




** BATCH PROCESSOR RECONSTRUCT **
FRN 11685
SF-3453 86RA01$53
1ST SC/PG: 1
8-28-86
BTL#3
D11685
X= .25 Y= 1.00
CH2Cl2
Thiobis methane
INT STD
TI
5
10

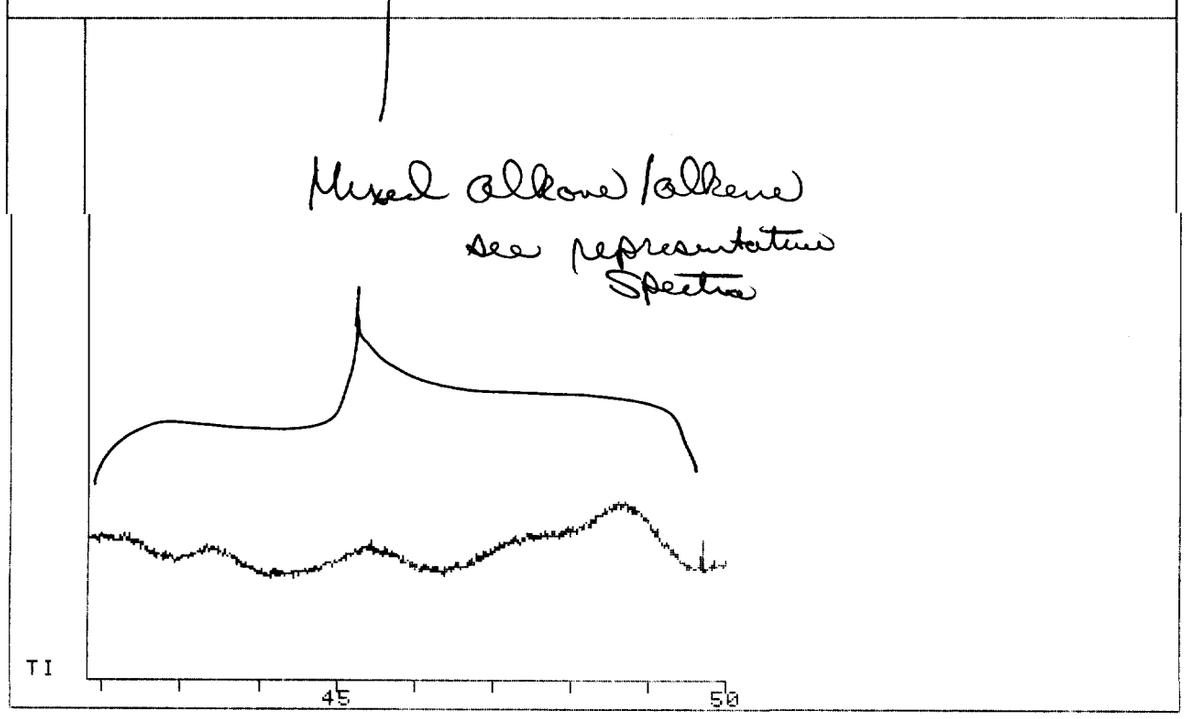

** BATCH PROCESSOR RECONSTRUCT **
FRN 11685
SF-3453 86RA01$53
1ST SC/PG: 933
8-28-86
BTL#3
D11685
X= .25 Y= 1.00
Dimethyl Disulphide
Dimethyl Trisulfide
Surr
INT STD
TI
15
20
25

** BATCH PROCESSOR RECONSTRUCT ** FRN 11685
SF-3453 86RA01$53 1ST SC/PG:1865
8-28-86 BTL#3 D11685 X= .25 Y= 1.00



** BATCH PROCESSOR RECONSTRUCT ** FRN 11685
SF-3453 86RA01$53 1ST SC/PG:2797
8-28-86 BTL#3 D11685 X= .25 Y= 1.00

Mixed alkane/alkene
see representative
Spectra



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

U.S. Environmental Protection Agency Region V

Superfund Document Management System (SDMS)

Lab Data Reference Sheet

Please contact the Superfund Records Manager for further information.

I. Unscannable item due to format

___ Graph

___ Mail receipts

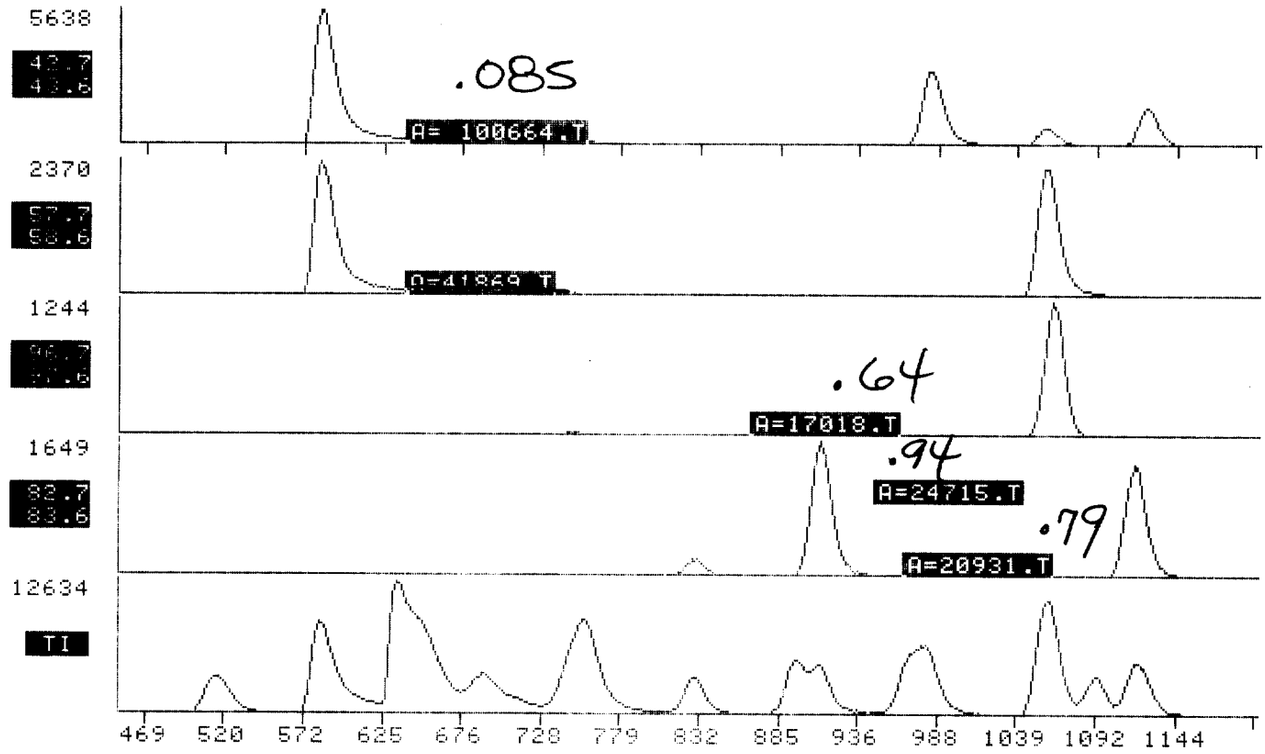
___ Sample tags

II. Image Quality (Pages follow / No. of pages 8)

✓ Resolution / Contrast

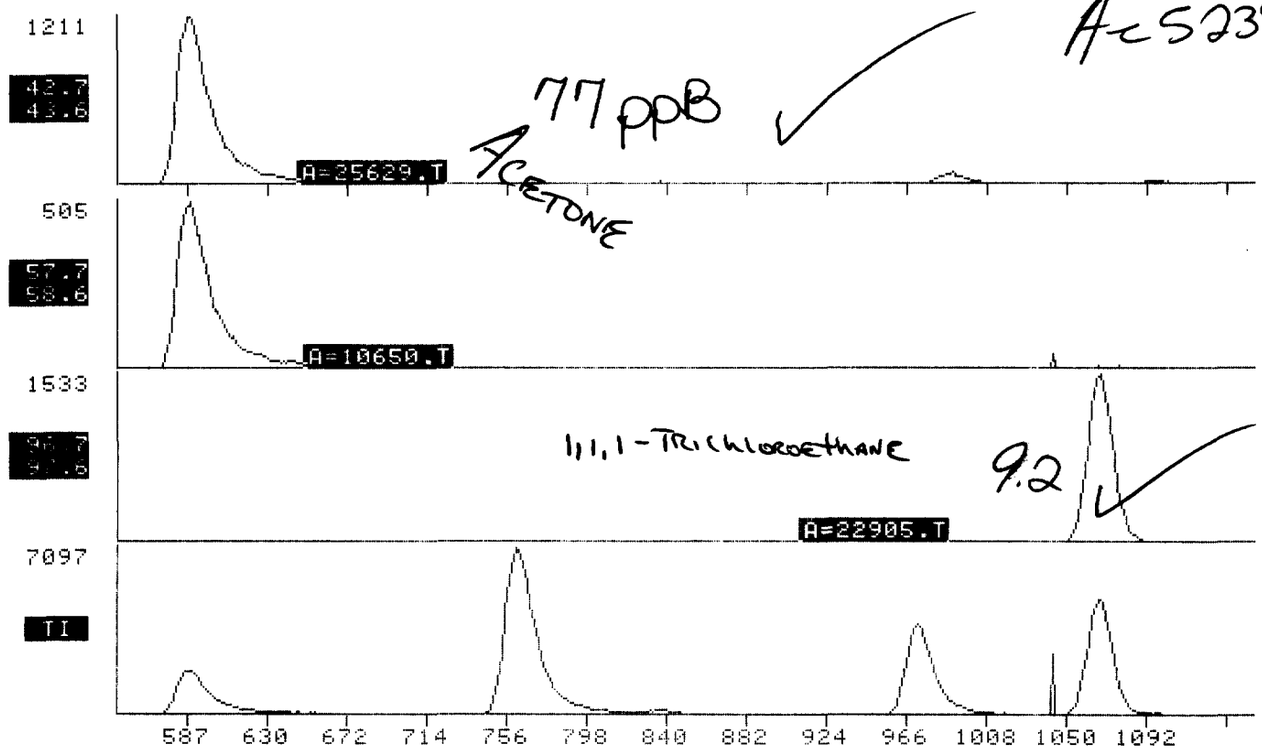
A=52819

NAME VOLSTD
MISC 8-27-86 BTL#2 D11666 FRN 11666



NAME SF-3453 SKINNER L.F. 86RA01R53 FRN 11673
MISC 8-27-86 BTL#5 D11673

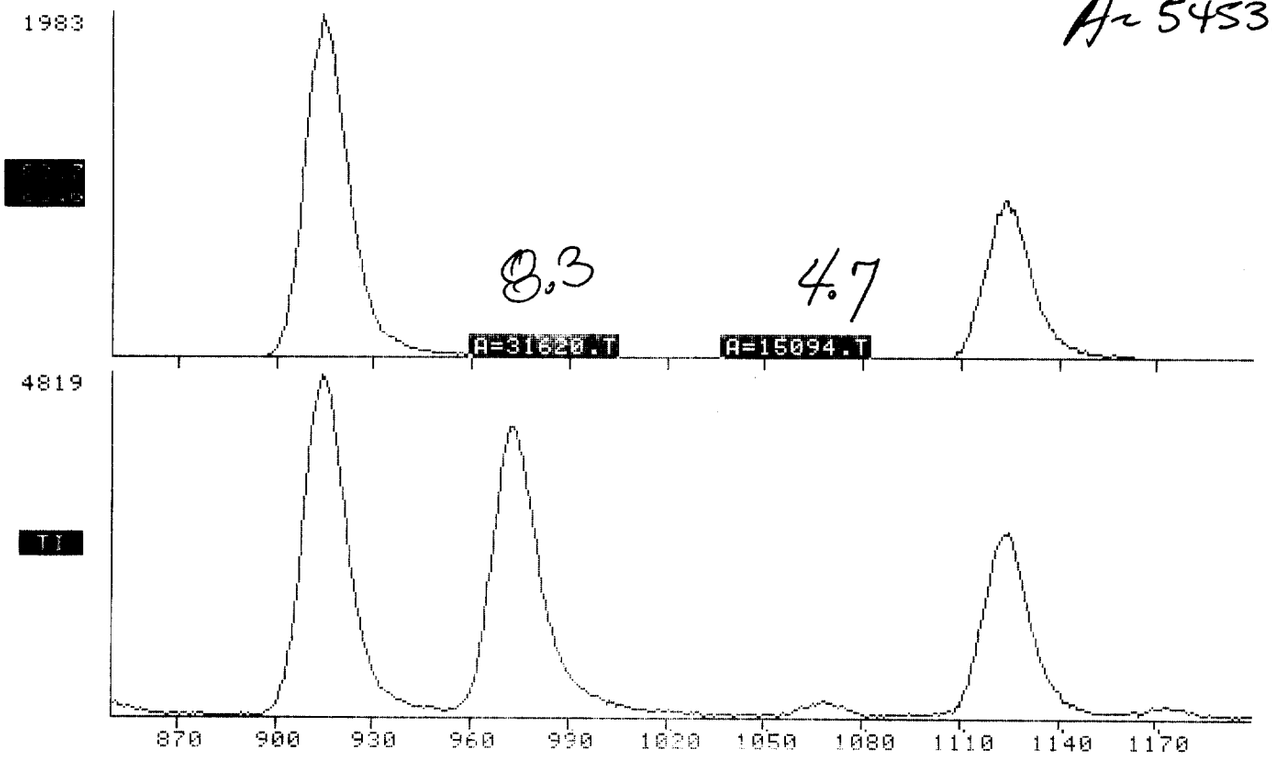
Ac 52395

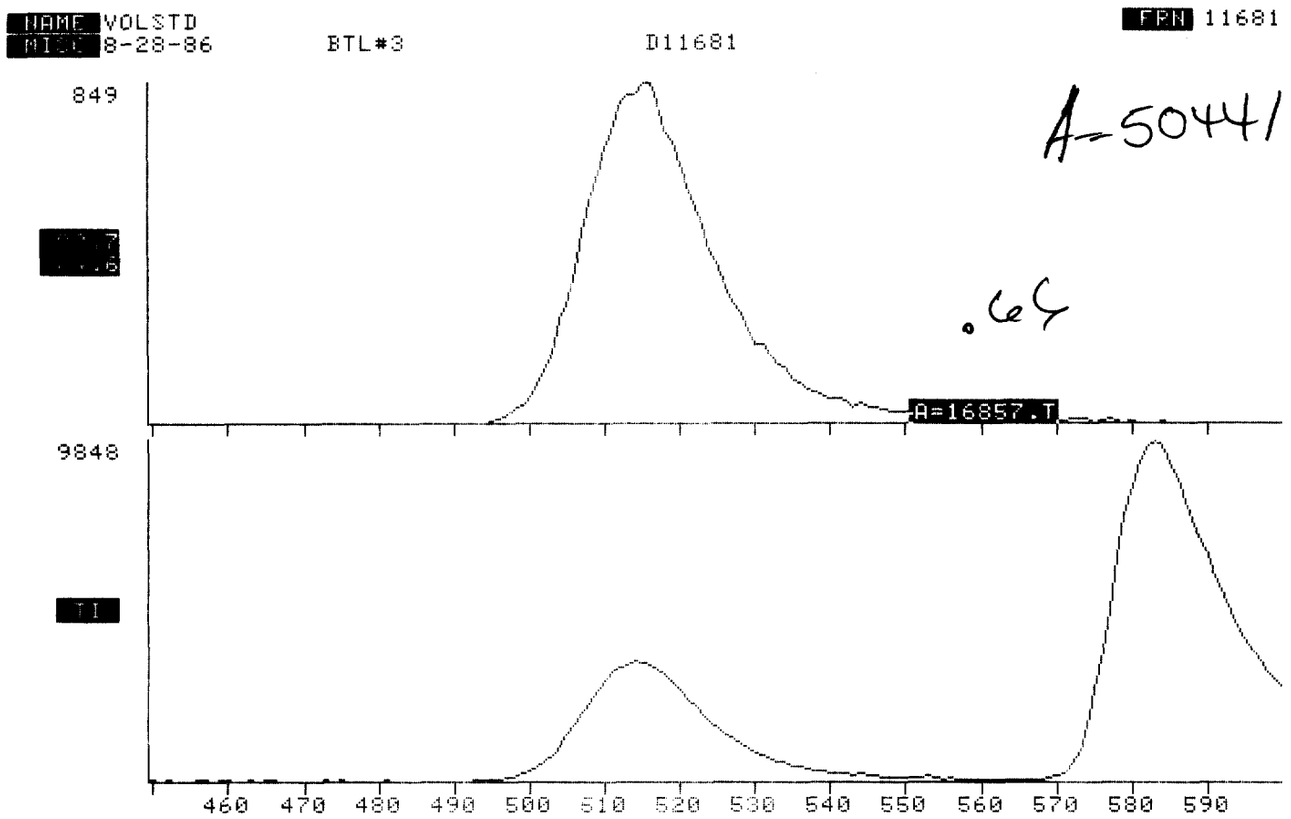


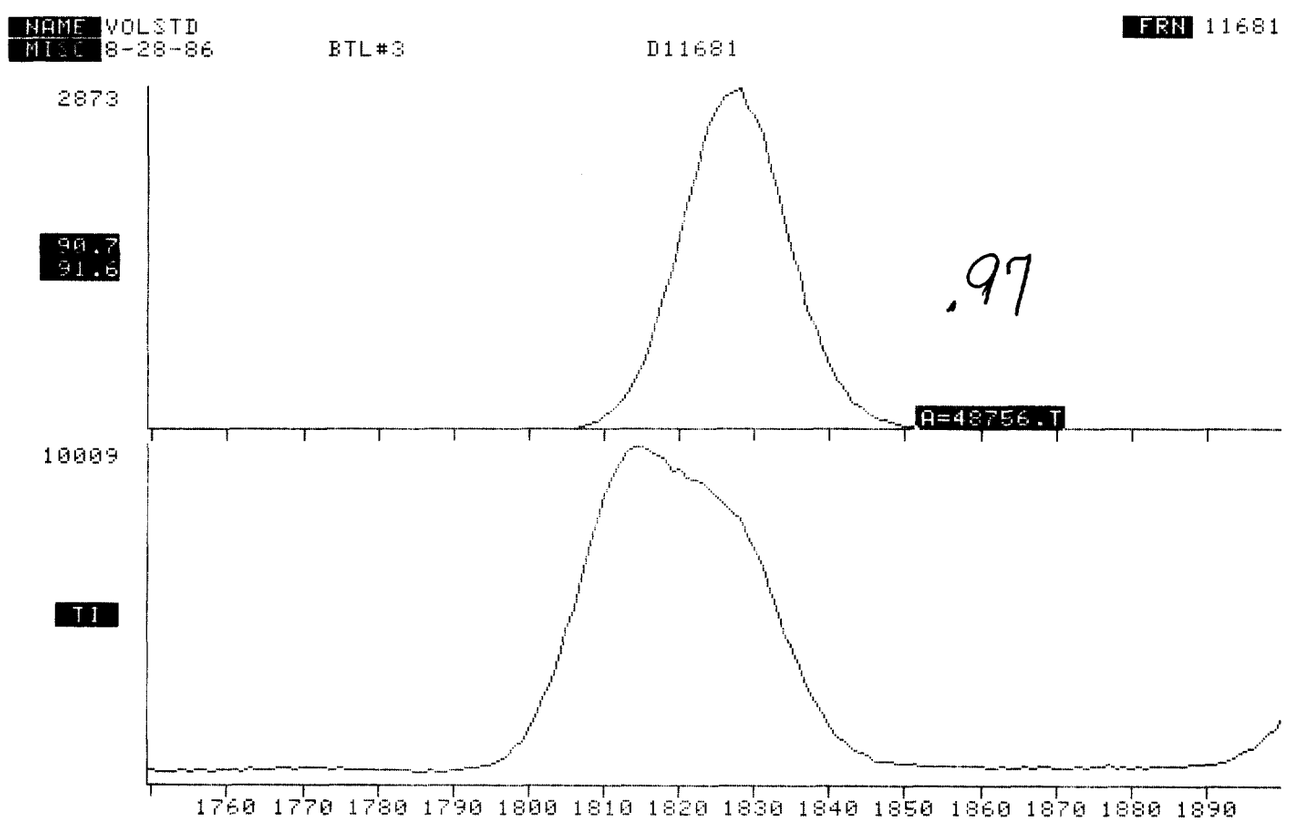
NAME SF-3453 86RA01$46
MISC 8-27-86 BTL#8 D11676

FRN 11676

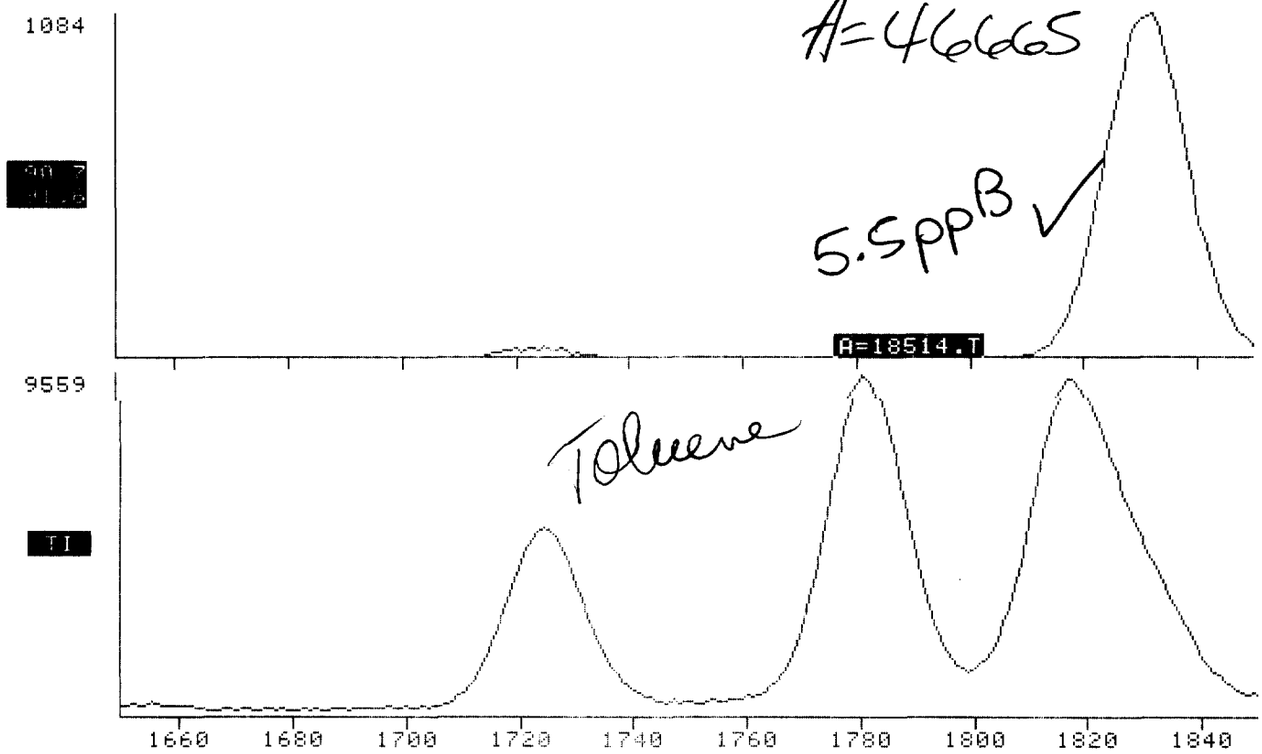
A-5453S



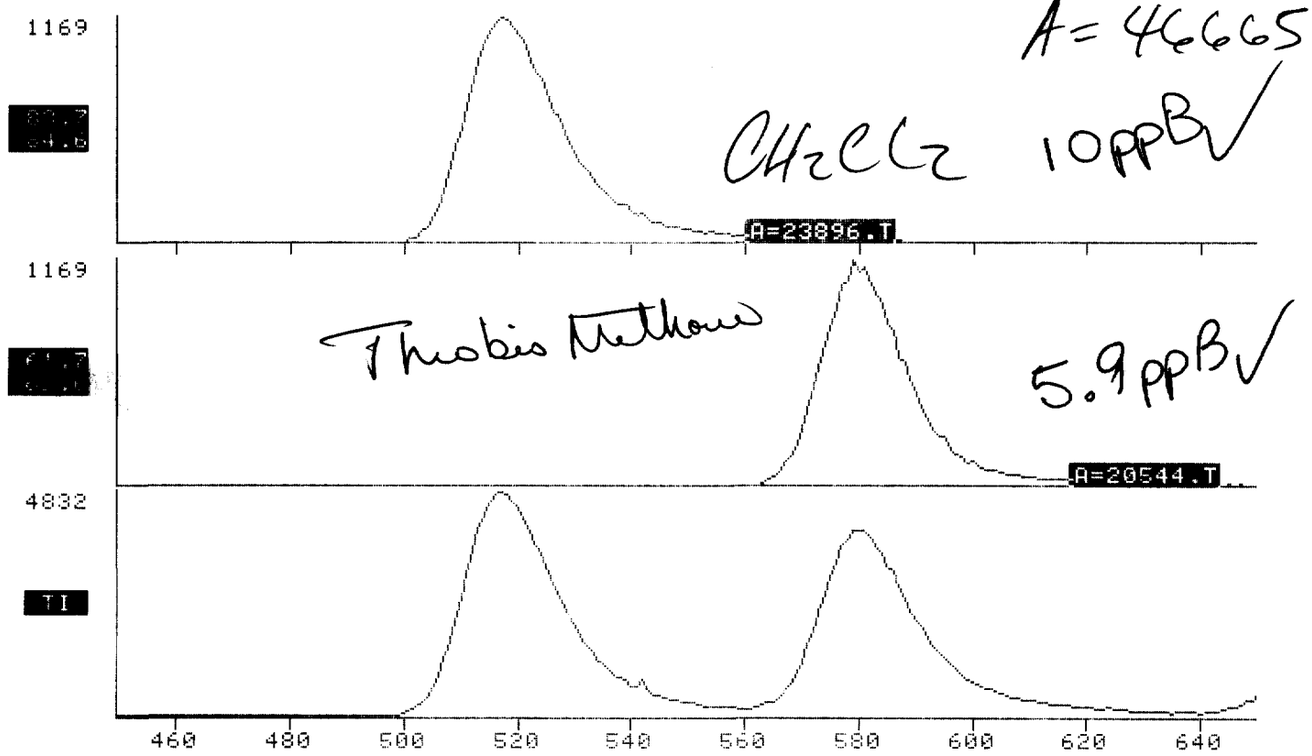

NAME VOLSTD
MISC 8-28-86
BTL#3
D11681
FRN 11681
A-50441
849
.64
A=16857.T
9848
TI
460 470 480 490 500 510 520 530 540 550 560 570 580 590


NAME VOLSTD
MISC 8-28-86
BTL#3
D11681
FRN 11681
2873
90.7
91.6
.97
A=48756.T
10009
TI
1760 1770 1780 1790 1800 1810 1820 1830 1840 1850 1860 1870 1880 1890

NAME SF-3453 86RA01$53 FRN 11685
MISC 8-28-86 BTL#3 D11685

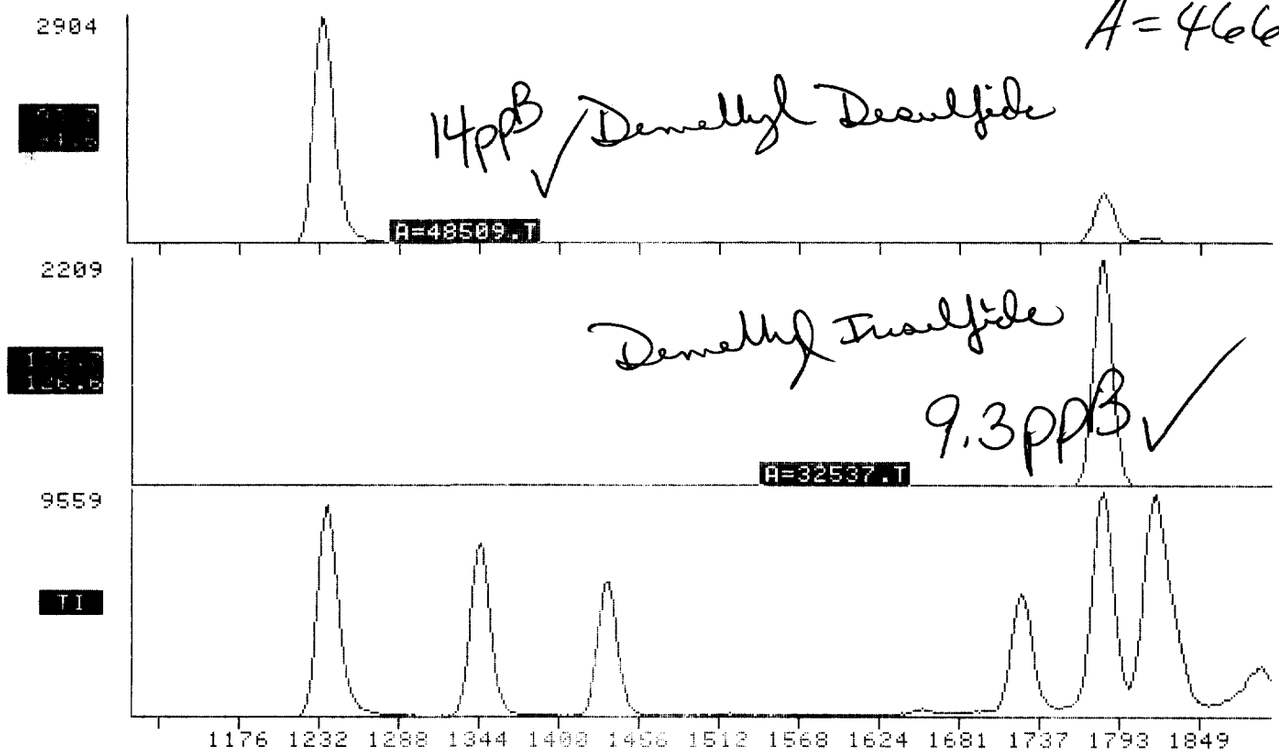


NAME SF-3453 86RA01#53 FRN 11685
MI 8-28-86 BTL#3 D11685



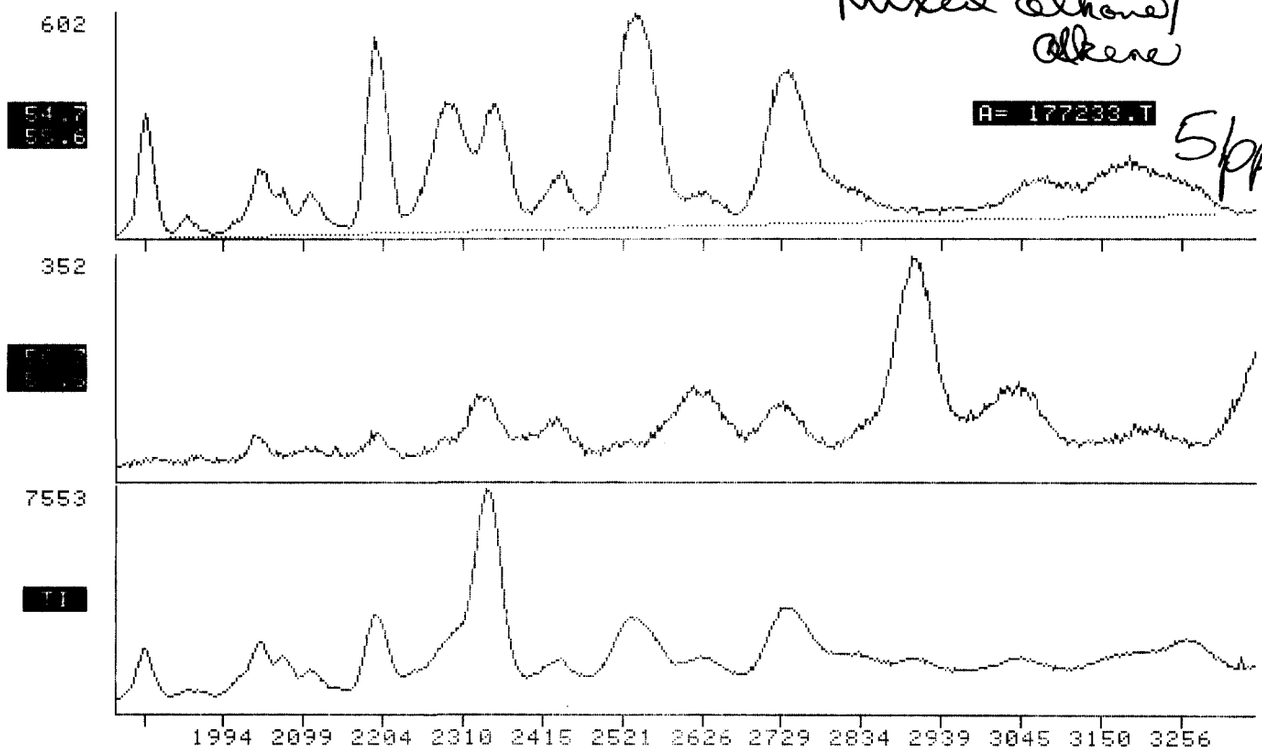
NAME SF-3453 86RA01#53 FRN 11685
MISC 8-28-86 BTL#3 D11685

A=46665



NAME SF-3453 86RA01$53 FRN 11685
MISC 8-28-86 BTL#3 D11685

Mixed alkane/alkene

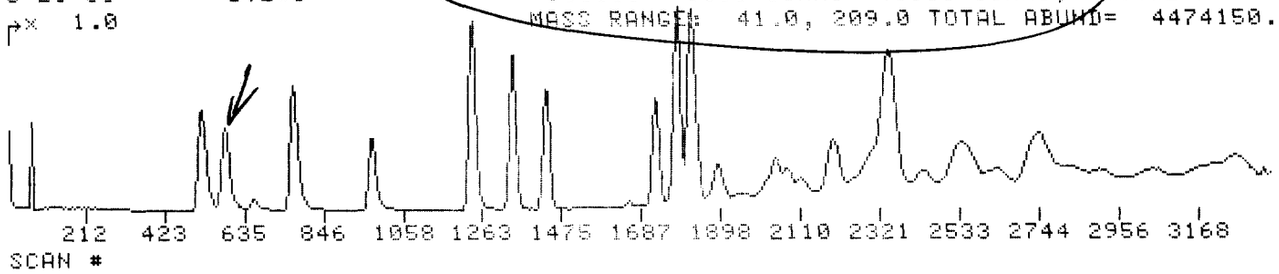


A= 46665

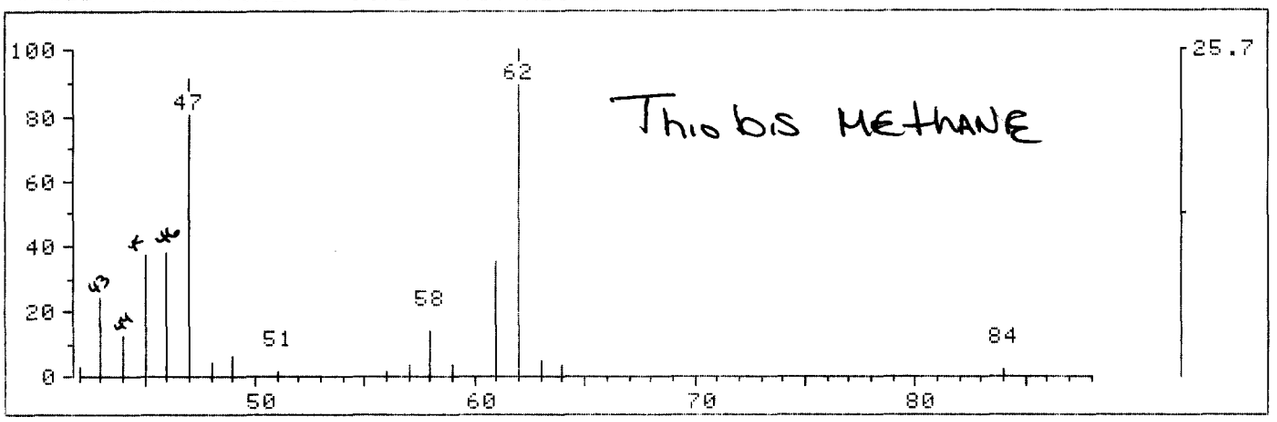
Mass Spectra of Tent ID VOAs

SF-3453 86RA01#53
8-28-86 BTL#3

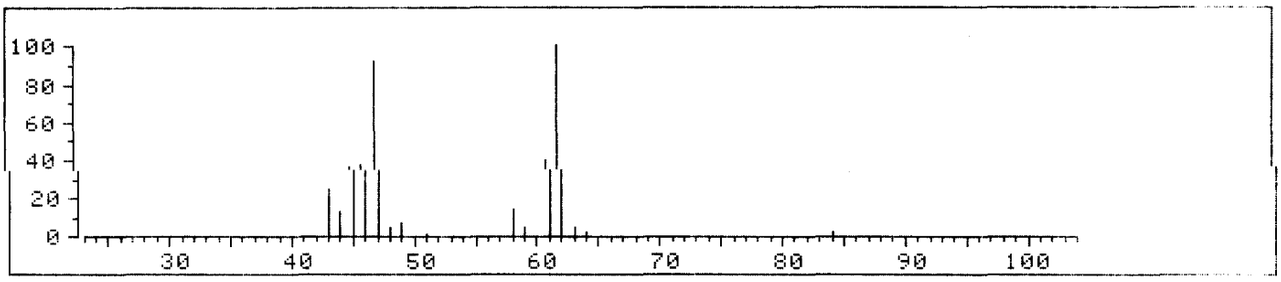
FRN 11685, CRN 8
D11685 3355 SCANS (3355 SCANS, 48.72 MINS)
MASS RANGE: 41.0, 209.0 TOTAL ABUND= 4474150.

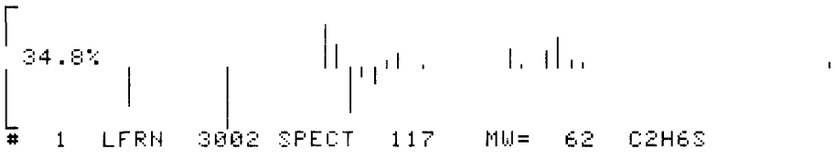


586 RET. TIME: 9.72 TOT ABUND= 3150. BASE PK/ABUND: 62.0/ 809.

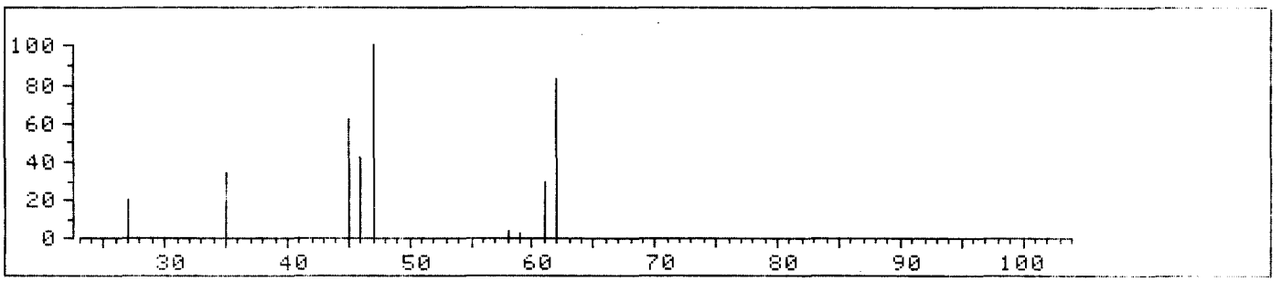


3 HITS: REFERENCE FRN 11800 SCAN 1

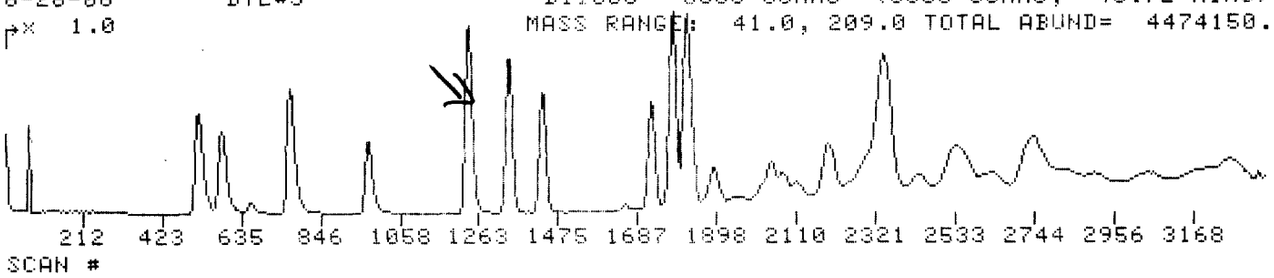




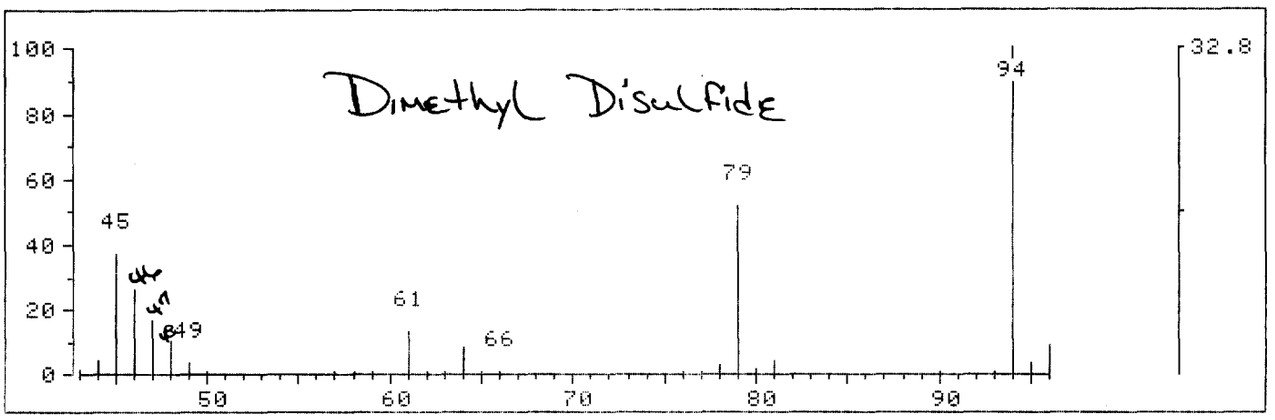
1 LFRN 3002 SPECT 117 MW= 62 C2H6S
.8464 Methane, thiobis- (9CI)



SF-3453 86RA01$53 FRN 11685, CRN 8
8-28-86 BTL#3 D11685 3355 SCANS (3355 SCANS, 48.72 MINS)
MASS RANGE: 41.0, 209.0 TOTAL ABUND= 4474150.



#1239 RET. TIME: 19.12 TOT ABUND= 8695. BASE PK/ABUND: 94.0/ 2849.

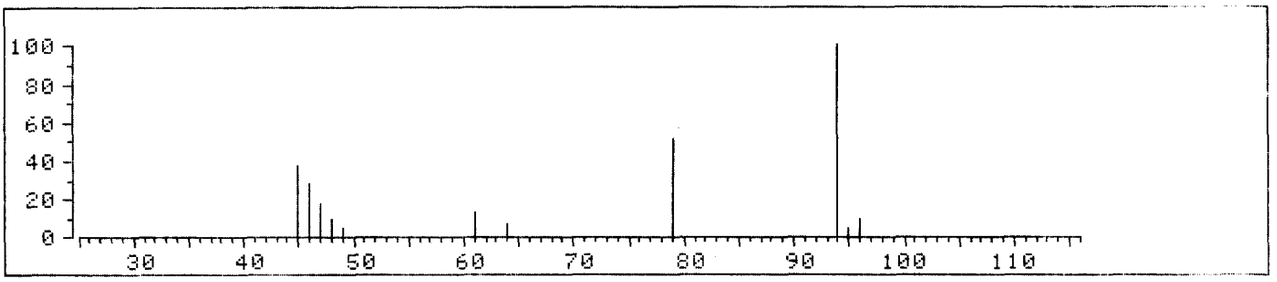


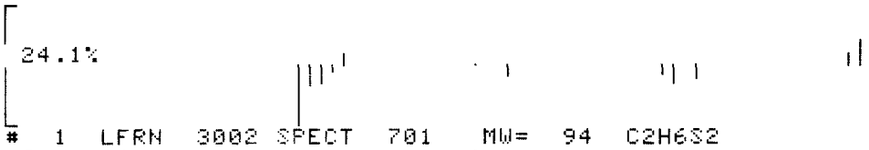
FRN 11685, SPECTRUM # 1239 RET.TIME: 19.12, 28 PEAKS

M/Z	REL ABUND	M/Z	REL ABUND	M/Z	REL ABUND	M/Z	REL ABUND
43	1.8	50	.4	64	8.6	80	1.9
44	4.4	57	.4	65	.5	81	4.7
45	37.4	58	.5	66	.8	90	.5
46	26.3	59	.4	76	.4	93	1.0
47	17.1	61	13.1	77	.6	94	100.0
48	10.7	62	.7	78	2.9	95	3.8
49	3.9	63	1.1	79	52.1	96	9.6

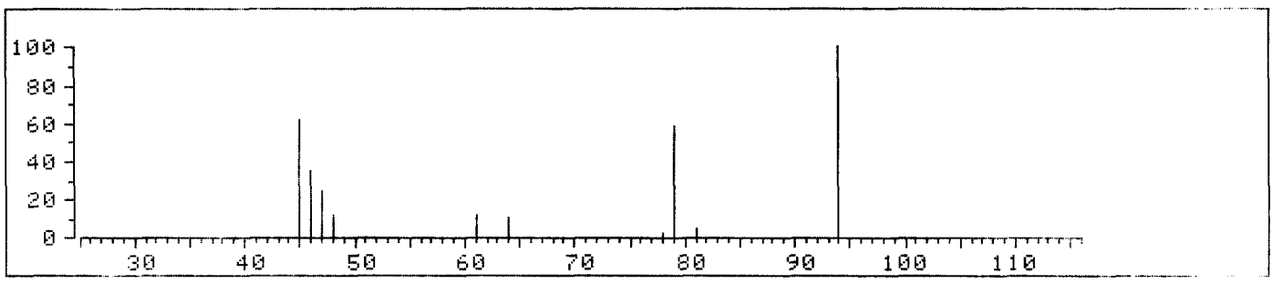
>PAUSE

1 HIT: REFERENCE FRN 11801 SCAN 1

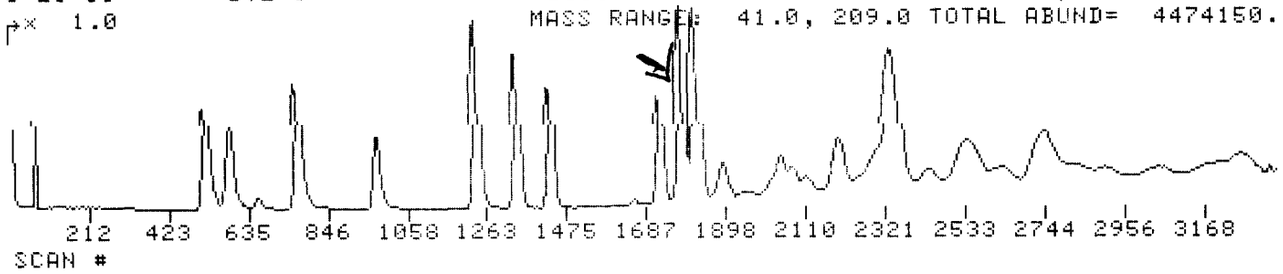




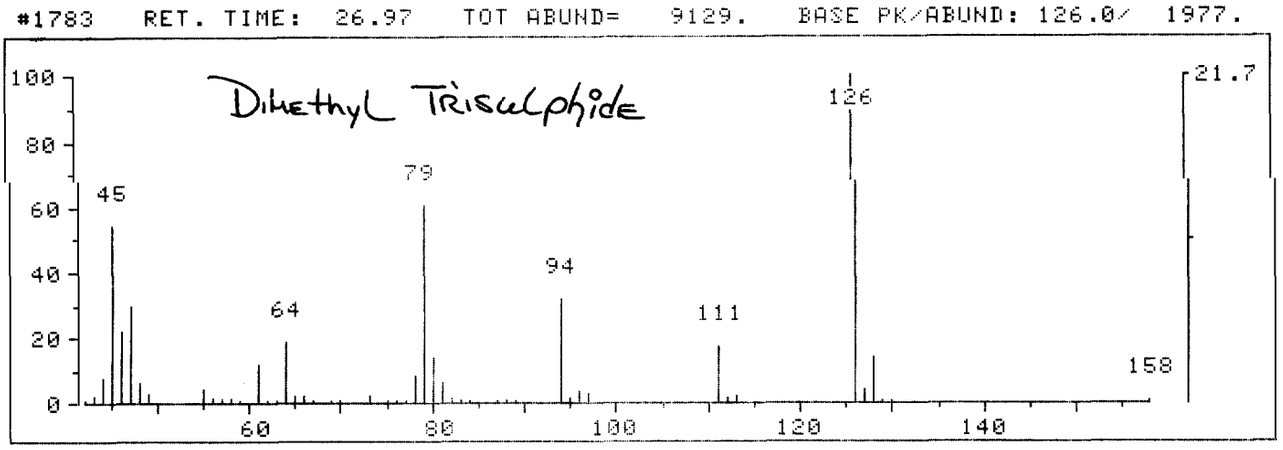
1 LFRN 3002 SPECT 701 MW= 94 C2H6S2
.9777 Disulfide, dimethyl (9CI)



SF-3453 86RA01$53 FRN 11685, CRN 8
8-28-86 BTL#3 D11685 3355 SCANS (3355 SCANS, 48.72 MINS)
MASS RANGE: 41.0, 209.0 TOTAL ABUND= 4474150.



#1783 RET. TIME: 26.97 TOT ABUND= 9129. BASE PK/ABUND: 126.0/ 1977.



FRN 11685, SPECTRUM # 1783 RET.TIME: 26.97, 49 PEAKS

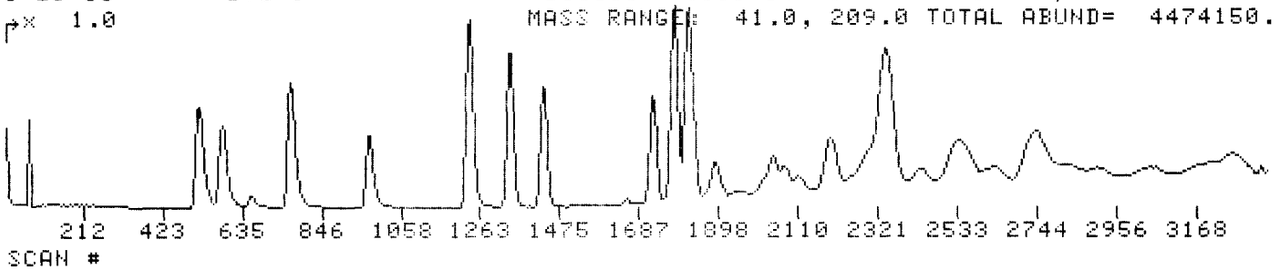
M/Z	REL ABUND	M/Z	REL ABUND	M/Z	REL ABUND	M/Z	REL ABUND
42	1.2	61	12.1	78	8.8	97	2.9
43	2.4	62	1.2	79	60.7	111	17.5
44	8.1	63	1.1	80	14.1	112	1.7
45	54.8	64	19.2	81	6.8	113	2.4
46	22.2	65	2.2	82	1.5	126	100.0
47	29.9	66	2.1	83	.9	127	4.6
48	6.3	67	.7	84	.6	128	14.0
49	2.8	69	1.2	87	.7	129	.8
55	4.3	70	.8	88	1.2	130	.9
56	1.4	73	2.2	89	1.0	158	.6
57	1.5	75	.6	94	31.7		
58	1.8	76	1.1	95	1.7		
59	.7	77	1.3	96	3.9		

>PAUSE

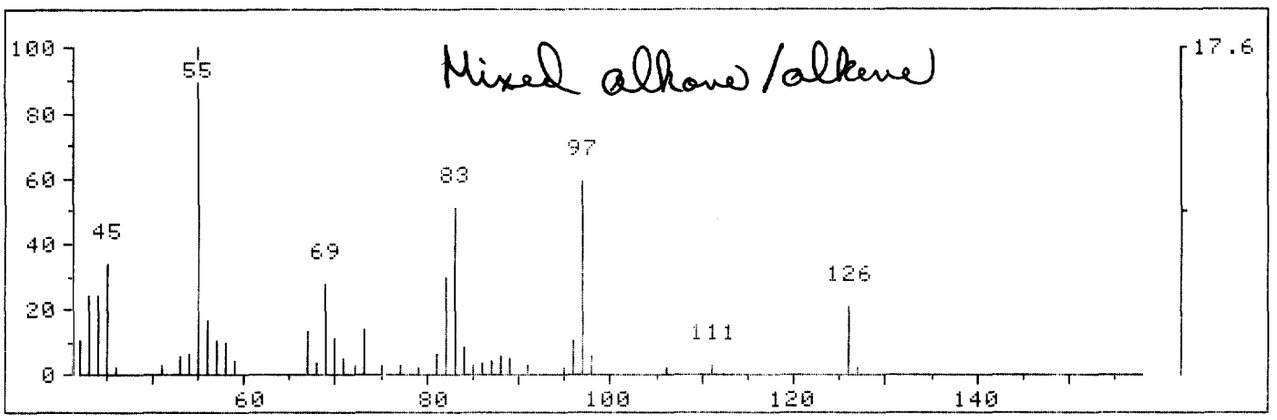
FROM
Eight PEAK INDEX of MASS SPECTRA V.3 PT 2

m/z	126	45	79	47	64	46	111	80
ABUNDANCE REFERENCE	100	59	51	36	22	21	16	14
ABUNDANCE ACTUAL	100	55	61	30	19	22	18	14

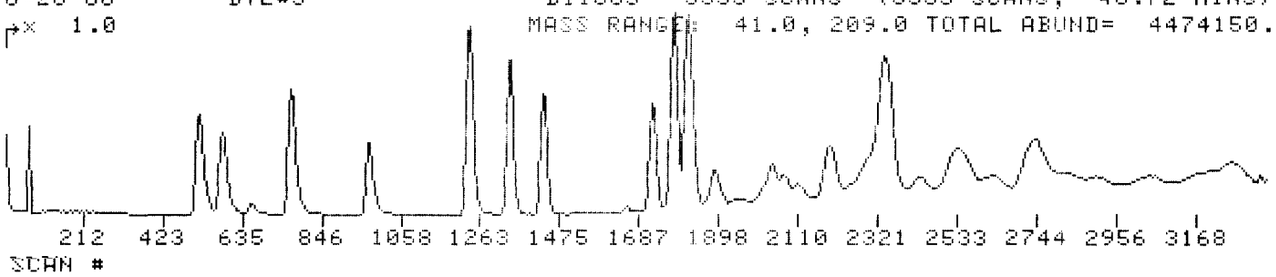
SF-3453 86RA01$53 FRN 11685, CRN 8
8-28-86 BTL#3 D11685 3355 SCANS (3355 SCANS, 48.72 MINS)
MASS RANGE: 41.0, 209.0 TOTAL ABUND= 4474150.



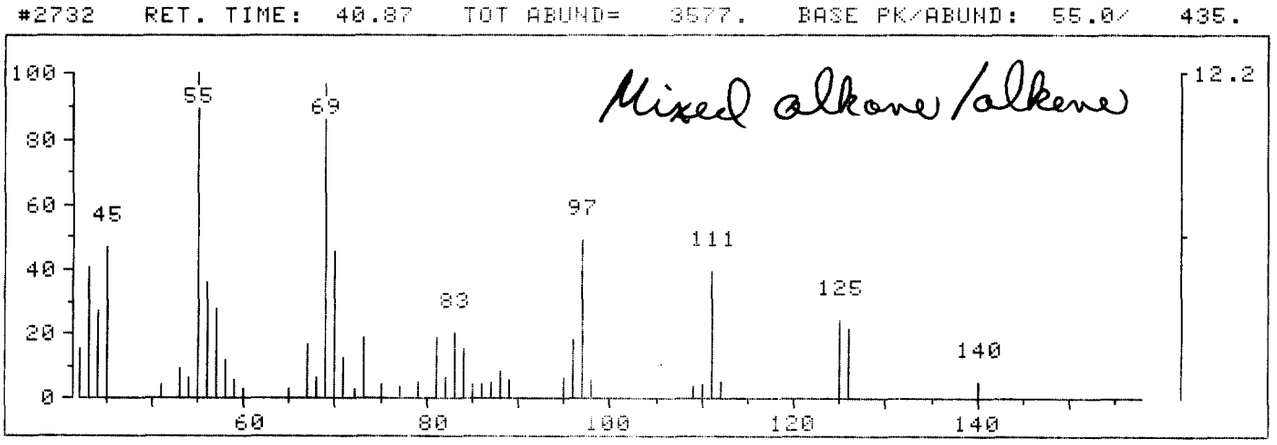
#2539 RET. TIME: 38.03 TOT ABUND= 3184. BASE PK/ABUND: 55.0/ 561.



SF-3453 86RA01$53 FRN 11685, CRN 8
8-28-86 BTL#3 D11685 3355 SCANS (3355 SCANS, 48.72 MINS)
MASS RANGE: 41.0, 209.0 TOTAL ABUND= 4474150.

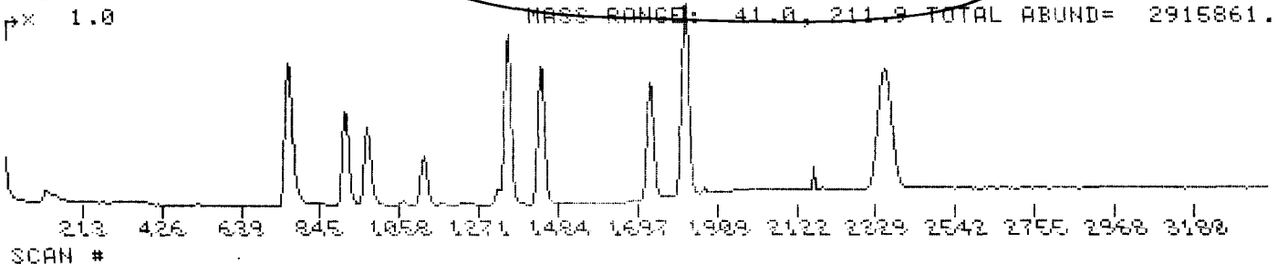


#2732 RET. TIME: 40.87 TOT ABUND= 3577. BASE PK/ABUND: 55.0/ 435.

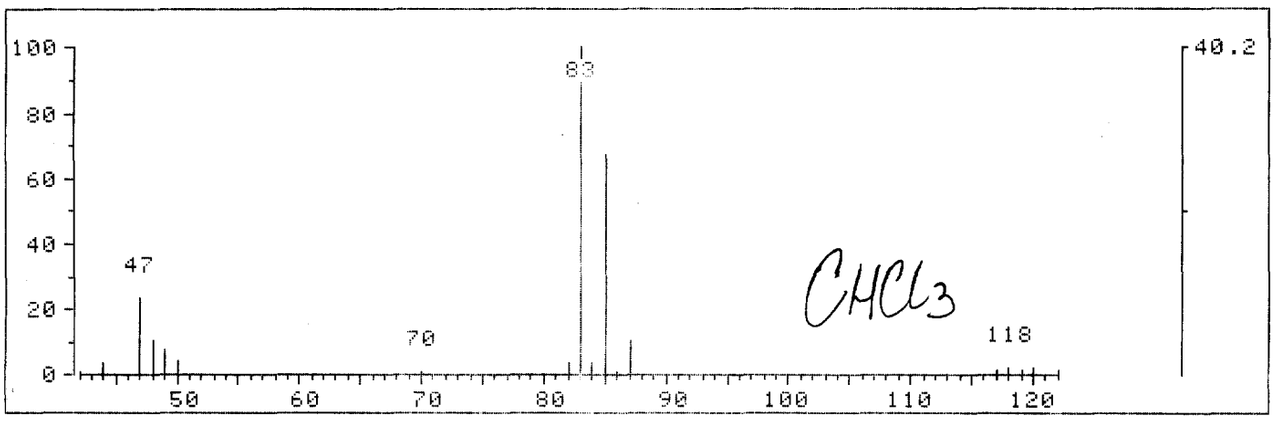


Mass Spectra of HSL/NPDES VOA'S

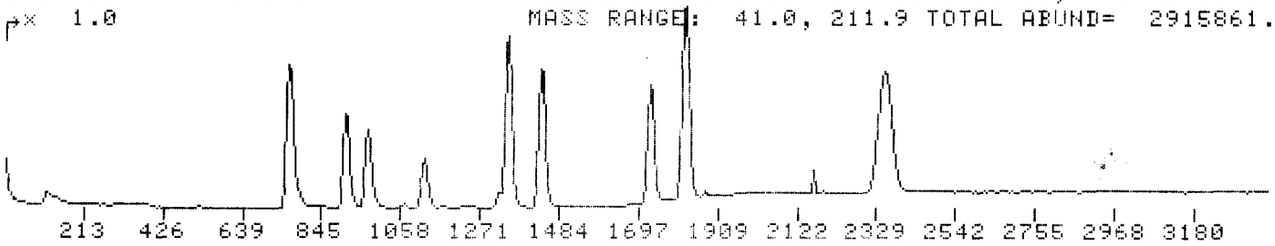
SF-3453 86RA01$46 FRN 11676, CRN 8
8-27-86 BTL#8 D11676 3375 SCANS (3375 SCANS, 48.72 MINS)
MASS RANGE: 41.0, 211.9 TOTAL ABUND= 2915861.
×1.0



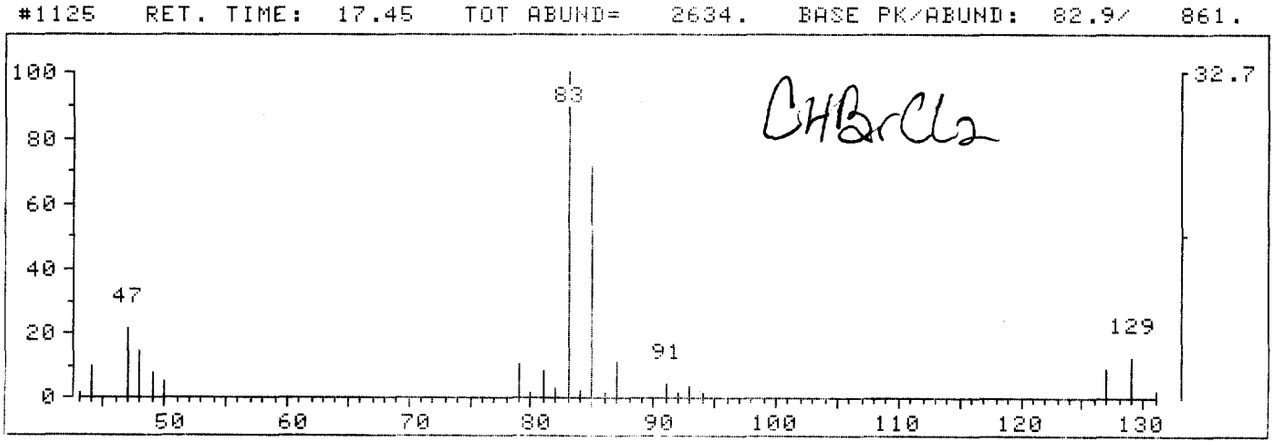
912 RET. TIME: 14.38 TOT ABUND= 4371. BASE PK/ABUND: 82.9/ 1759.



SF-3453 86RA01$46 FRN 11676, CRN 8
8-27-86 BTL#8 D11676 3375 SCANS (3375 SCANS, 48.72 MINS)
MASS RANGE: 41.0, 211.9 TOTAL ABUND= 2915861.
×1.0

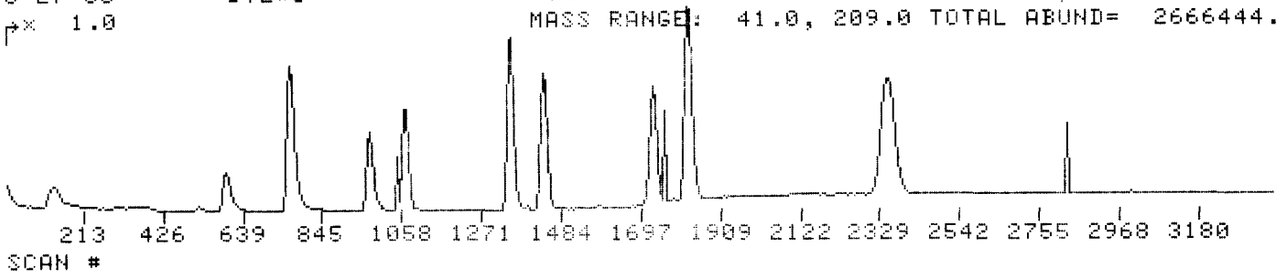


#1125 RET. TIME: 17.45 TOT ABUND= 2634. BASE PK/ABUND: 82.9/ 861.

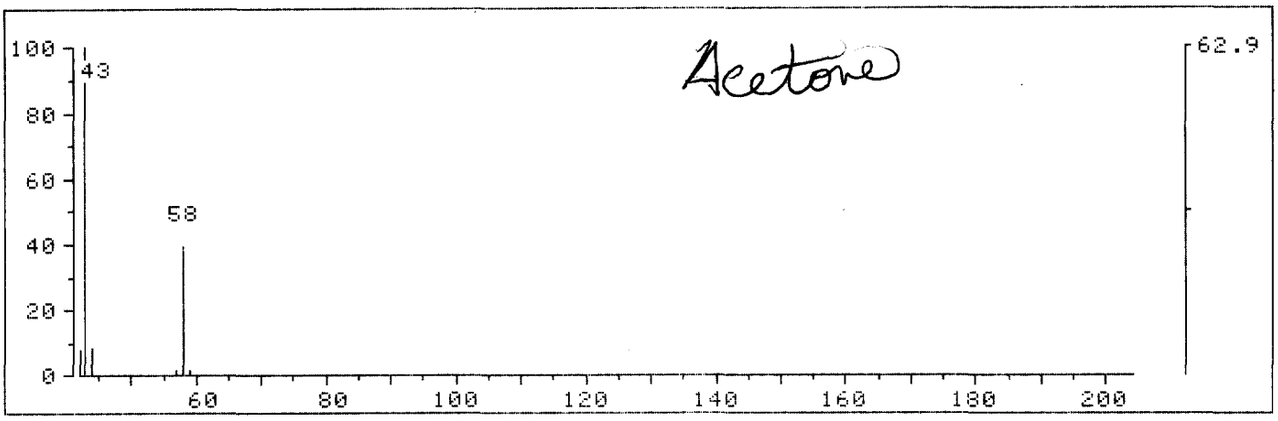


SF-3453 SKINNER L.F. 86RA01R53
8-27-86 BTL#5

FRN 11673, CRN 7
D11673 3375 SCANS (3375 SCANS, 48.72 MINS)
MASS RANGE: 41.0, 209.0 TOTAL ABUND= 2666444.

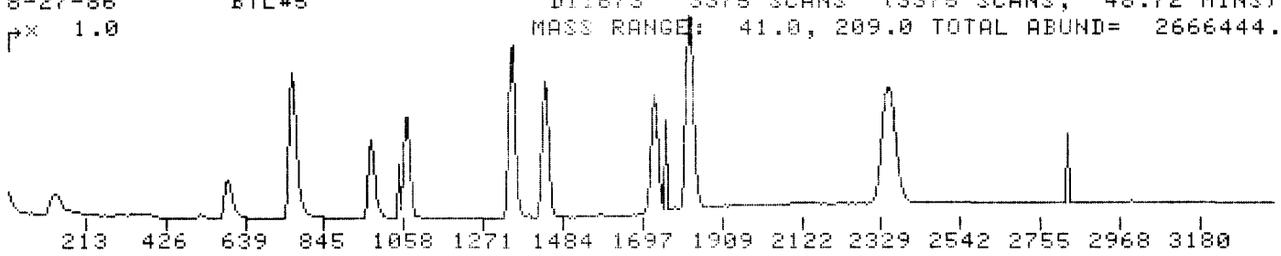


590 RET. TIME: 9.77 TOT ABUND= 1883. BASE PK/ABUND: 43.0/ 1185.

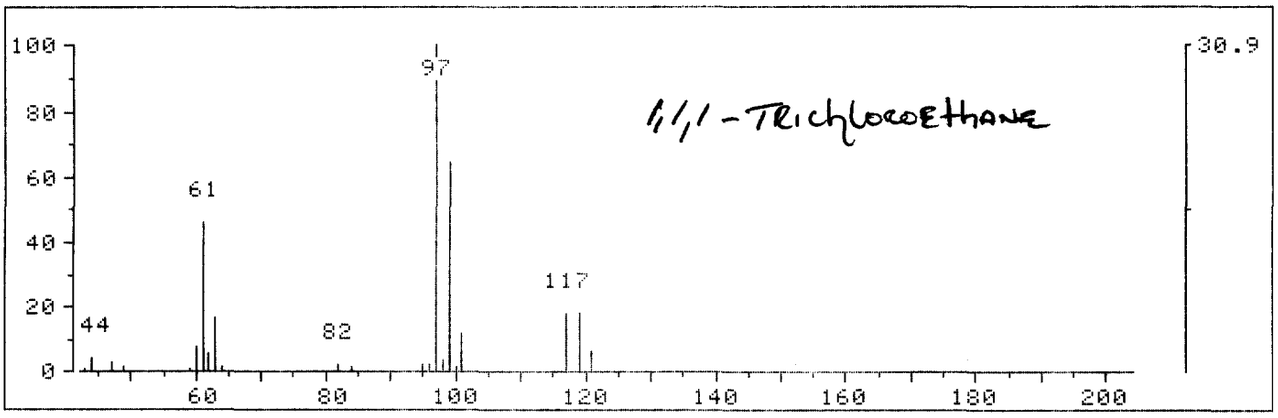


SF-3453 SKINNER L.F. 86RA01R53
8-27-86 BTL#5

FRN 11673, CRN 7
D11673 3375 SCANS (3375 SCANS, 48.72 MINS)
MASS RANGE: 41.0, 209.0 TOTAL ABUND= 2666444.

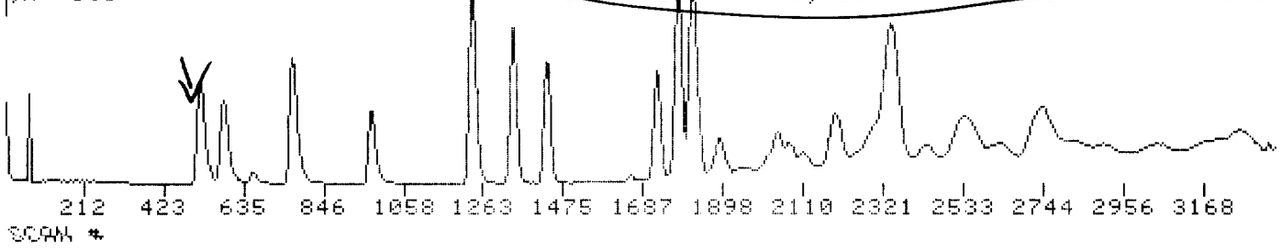


#1070 RET. TIME: 16.67 TOT ABUND= 4614. BASE PK/ABUND: 97.0/ 1428.

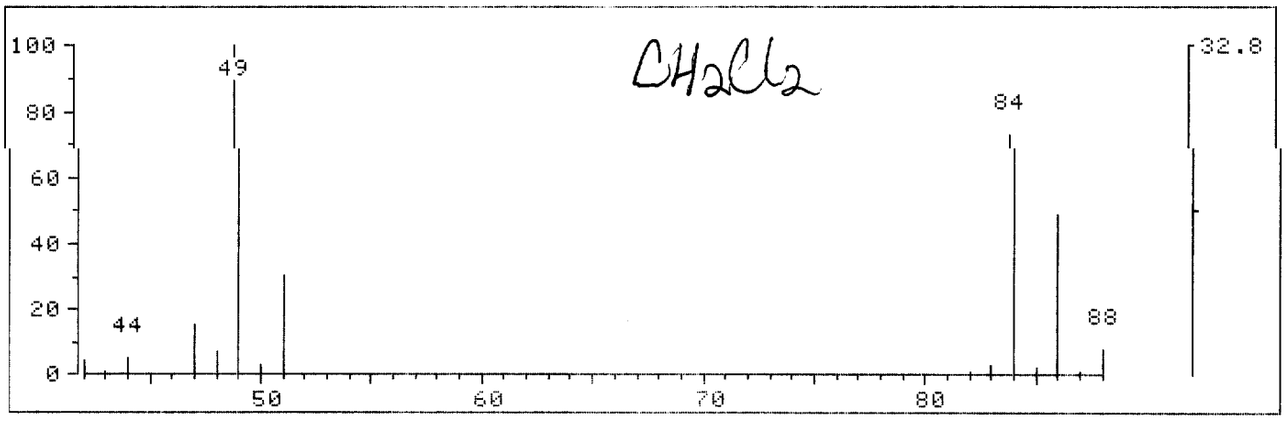


Mass Spectra of HSL/NPDES VOA'S

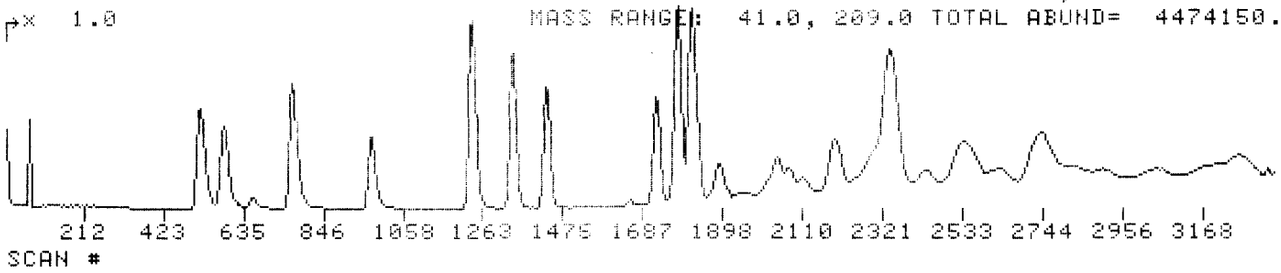
SF-3453 86RA01#53
8-28-86 BTL#3
D1168 3355 SCANS (3355 SCANS, 48.72 MINS)
FRN 11685, CRN 8
MASS RANGE: 41.0, 209.0 TOTAL ABUND= 4474150.
x 1.0



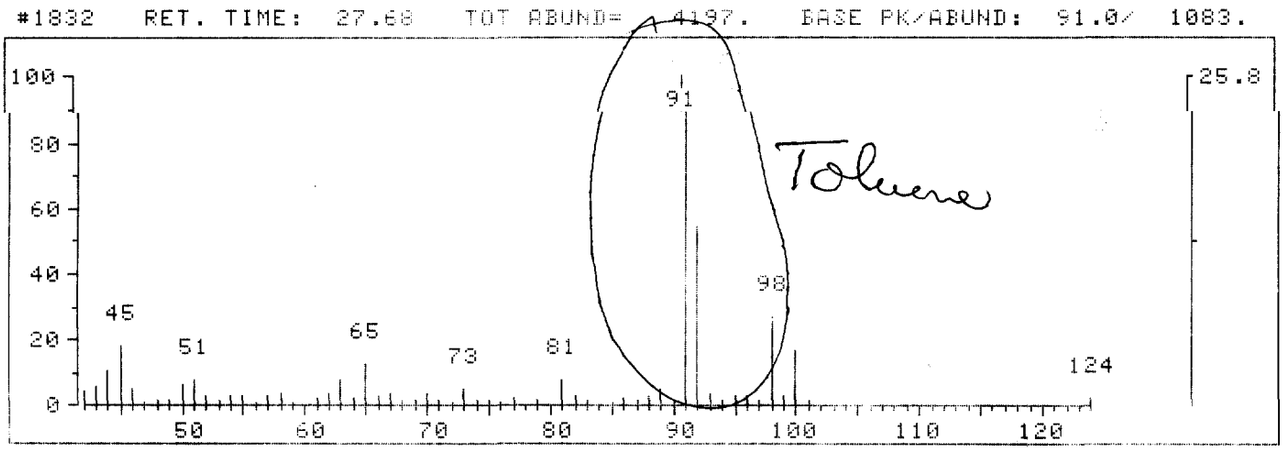
520 RET. TIME: 8.75 TOT ABUND= 4503. BASE PK/ABUND: 49.0/ 1479.



SF-3453 86RA01#53 FRN 11685, CRN 8
8-28-86 BTL#3 D11685 3355 SCANS (3355 SCANS, 48.72 MINS)
x 1.0 MASS RANGE: 41.0, 209.0 TOTAL ABUND= 4474150.



#1832 RET. TIME: 27.68 TOT ABUND= 4197. BASE PK/ABUND: 91.0/ 1083.



U.S. Environmental Protection Agency Region V

Superfund Document Management System (SDMS)

Lab Data Reference Sheet

Please contact the Superfund Records Manager for further information.

I. Unscannable item due to format

___ Graph

___ Mail receipts

✓ Sample tags

II. Image Quality (Pages follow / No. of pages ____)

___ Resolution / Contrast