UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 5
CHICAGO, ILLINOIS

TRANSMITTED BY
JUN 17 1987
U.S. EPA CENTRAL
REGIONAL LAB

DATE: 6-17-87

SUBJECT: **Review of Region 5 data for** Systech Liquid

FROM: **Curtis Ross, Director**
Region 5 Central Regional Laboratory

To: **Data User:**

Attached are the results for:

CRL Data Set Numbers: SF-3960
Sample Numbers: 87F506R02; 512
Parameter(s): VOA
Laboratory: CRL

Results Status:

(X) **DATA ACCEPTABLE FOR USE***
( ) **DATA QUALIFIED AS TO USE**
( ) **DATA UNACCEPTABLE FOR USE**

* For data acceptability requirements, refer to the method capability statement for the methods referenced.

Comments by the Quality Control Coordinator:

If there are any questions regarding the data, refer them to Steve Parker, the Quality Control Coordinator, at 353-3805.

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
(5SCRL)

RECEIVED BY/DATE: .....
Comments:

cc: Contractor's Reprentative

Filed by/date:

DATA SET	SITE	DU/ACT.	
SF-396c	SYS TECH. LIQUID	Y905	C76100

SAMPLES	PARAMETER(S)
87FS06 R02, -S12	VOA

SAMPLED	RECEIVED	DUE	LAB
5/13/87	5/14	5/29	CRL - V

SHIPPED	DATA RECEIVED	CONTRACT

TEAM LEADER	SECTION CHIEF	QC COORD.	DATA COORD
		6/17/87	

Comments By Reviewer:

BFB results were ok.
No compounds were found in the lab blank.
In field blank, 95 ppb of 2-methyl propane was detected.
Surrogate recoveries were ok.
Matrix spike recoveries were ok.
Duplicate analyses were ok.
In RRF check, there were 8 outliers out of 38.
In %D check, there were 5 outliers out of 28.
Internal standards area counts were ok.

DATA MANAGEMENT COORDINATOR

RECEIVED **TRANSMITTED**

CLERICAL SUPPORT

RECEIVED **COMPLETED**

( ) REVIEWED ( ) UNREVIEWED TEAM LEADER/DATE

( ) REVIEWED ( ) UNREVIEWED SECTION CHIEF/DATE

(X) REVIEWED 6/17/87 ( ) UNREVIEWED QC COORDINATOR/DATE

REVIEWED BY CONTRACT COORDINATOR/DATE

RECEIVED **TRANSMITTED** **DATA MANAGEMENT COORDINATOR**

CC: QUALITY CONTROL COORDINATOR

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

Study Name: SYSTECH LIQUID
Sample # : 87FS06 S12

Data Set #: SF-3960
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: SYSTECH LIQUID
Sample # : 87FS06 R02

Data Set #: SF-3960
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: SYSTECH LIQUID
Sample # : 87FS06 R02

Data Set #: SF-3960
Matrix : WATER

TENTATIVELY IDENTIFIED COMPOUNDS	ESTIMATED CONC.(PPB)
2-METHYL PROPANE	95

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: TOXIC SUBSTANCES

DIVISION/BRANCH SUPERFUND HIT SAMPLE DATE 5/13/87 LAB ARRIVAL DATE 5/14/87 DUE DATE 6/4/87

DU NUMBER 4905 C76100 DATA SET NUMBER 3960 STUDY Systech Liquid PRIORITY N CONTRACTOR CRL

CRL LOG NUMBER	SAMPLE DESCRIPTION Sample # TAG-IT	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
87FS06R02	Blank 5-36612 5-36613	✓ } completed TCJ 5-29-87 6/12/87			
87FS06S12	RW1 5-36604 5-36648 ~~5-36649~~ 5-36602	✓			
87FS06R02	Blank 5-36611		✓		
87FS06S12	RW1 5-36650 5-36601		✓		

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CRL - D ~~Contract:~~ Survey: SF - 3960

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Instrument ID: _____ Calibration Date: _____ Time: _____

Lab File ID: _____ Init. Calib. Date(s): _____ _____

Matrix: (soil/water) _____ Level: (low/med) _____ Column: (pack/cap) _____

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND		$\overline{RRF}$	RRF	%D	
Chloromethane	#	.032	~~.066~~**	—	#
Bromomethane		.491	.329	33	
Vinyl Chloride	*	.233	.136	42	*
Chloroethane		.346	.265	23	
Methylene Chloride		1.33	1.25	5	
Acetone		.053	.066**	25	
Carbon Disulfide		2.84	2.626	8	
1,1-Dichloroethene	*	1.199	1.123	6	*
1,1-Dichloroethane	#	1.503	1.414	6	#
1,2-Dichloroethene (total)		1.022	1.000	2	
Chloroform	*	1.57	1.503	4	*
1,2-Dichloroethane		.78	.761	3	
2-Butanone		.00723	.01**	—	
1,1,1-Trichloroethane		.682	.652	4	
Carbon Tetrachloride		.498	.485	3	
Vinyl Acetate		.0865	.330	—	ok
Bromodichloromethane		.82	.791	4	
1,2-Dichloropropane	*	.604	.578	4	*
cis-1,3-Dichloropropene		.402	.401	0	
Trichloroethene		.647	.607	6	
Dibromochloromethane		.601	.605	1	
1,1,2-Trichloroethane		.419	.421	0	
Benzene		1.77	1.683	5	
trans-1,3-Dichloropropene		1.367	1.347	1	
Bromoform	#	.447	.473	6	#
4-Methyl-2-Pentanone		.077	.092	19	
2-Hexanone		.077	.092	19	
Tetrachloroethene		.933	.831	11	
1,1,2,2-Tetrachloroethane	#	.90	.946	5	#
Toluene	*	2.96	2.648	11	*
Chlorobenzene	#	1.88	1.697	10	#
Ethylbenzene	*	2.93	2.654	9	*
Styrene		2.2	~~2.03~~**	7	
Xylene ~~(total)~~ o/p		3.04	2.67**	12	
~~Toluene-d8~~ BENZENE-d6		.997	.985	1	
Bromofluorobenzene					
1,2-Dichloroethane-d4		.57	.602	5	
2-Chloro ~~Ethyl~~ Vinyl Vinyl ether		.253	.264	4	

** MANUALLY CALCULATED

IDFILE FRN: 9985

IDFILE NAME: VOLATILE HSL#1 CONC 1
MISC. DATA: 4-15-87 LS

RETENTION TIME SCAN WINDOW +/- 30 SCANS
PEAK/BASE PEAK RATIO ERROR 30%
THERE ARE 16 COMPOUNDS IN THIS IDFILE

	COMPOUND	RELATIVE RET. TIME	RELATIVE RESP. RATIO	SPECT. NUMBER
STANDARD: BROMOCHLOROMETHANE				561
1	CHLOROMETHANE	.111	.007	62 *
2	BROMOMETHANE	.295	.329	165
3	VINYL CHLORIDE	.402	.136	225
4	CHLOROETHANE	.509	.265	285
5	METHYLENE CHLORIDE	.696	1.250	390
6	ACROLEIN	.787	.025	441
7	ACETONE	.781	.152	438
8	ACRYLONITRILE	.835	.171	468
9	CARBON DISULFIDE	.888	2.626	498
10	1,1-DICHLOROETHENE	1.002	1.123	562
11	1,1-DICHLOROETHANE	1.109	1.414	622
12	1,2-DICHLOROETHENE	1.197	1.000	671
13	CHLOROFORM	1.211	1.503	679
14	1,2-DICHLOROETHANE	1.307	.761	733
15	1,2-DICHLOROETHANE-D4(SURR)	1.305	.602	732

IDFILE FRN: 9988

IDFILE NAME: VOLATILE HSL #2 CONC. 1
MISC. DATA: 4-30-87 TCJ

RETENTION TIME SCAN WINDOW +/- 30 SCANS
PEAK/BASE PEAK RATIO ERROR 30%
THERE ARE 15 COMPOUNDS IN THIS IDFILE

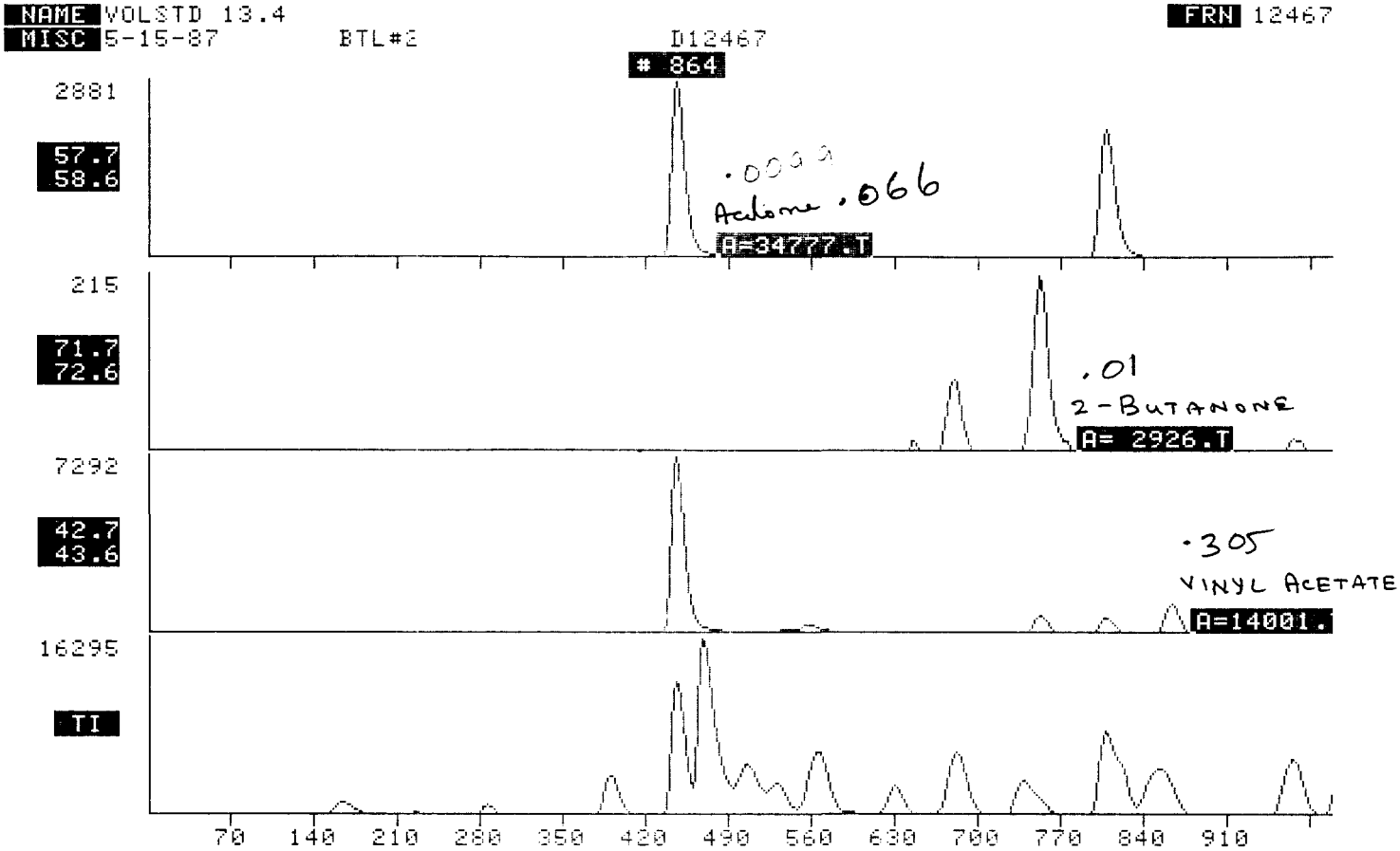
	COMPOUND	RELATIVE RET. TIME	RELATIVE RESP. RATIO	SPECT. NUMBER
STANDARD:	2-BROMO-1-CHLOROPROPANE			1123
1	2-BUTANONE	.663	.033	744
2	1,1,1-TRICHLOROETHANE	.725	.652	814
3	CARBON TETRACHLORIDE	.747	.485	838
4	VINYL ACETATE	.761	.330	854
5	DICHLOROBROMOMETHANE	.755	.791	847
6	1,2-DICHLOROPROPANE	.849	.578	953
7	1,3-DICHLORO-1-PROPENE (TRANS)	.855	1.347	960
8	TRICHLOROETHYLENE	.891	.607	1000
9	BENZENE	.937	1.683	1052
10	DIBROMOCHLOROMETHANE	.903	.605	1013
11	1,1,2-TRICHLOROETHANE	.917	.421	1029
12	1,3-DICHLORO-1-PROPENE (CIS)	.923	.401	1036
13	2-CHLOROETHYL VINYL ETHER	.989	.264	1110
14	BROMOFORM	1.045	.473	1173
15	BENZENE D6(SURR)	.940	.985	1055

IDFILE FRN: 9991

IDFILE NAME: VOLATILE HSL #3CONC. 1
MISC. DATA: 4-30-87 TCJ

RETENTION TIME SCAN WINDOW +/- 30 SCANS
PEAK/BASE PEAK RATIO ERROR 30%
THERE ARE 11 COMPOUNDS IN THIS IDFILE

	COMPOUND	RELATIVE RET. TIME	RELATIVE RESP. RATIO	SPECT. NUMBER
STANDARD: 1,4-DICHLOROBUTANE				1362
1	4-METHYL-2-PENTANONE	.909	.092	1238
2	2-HEXANONE	.909	.092	1238
3	TETRACHLOROETHYLENE	.984	.931	1340
4	1,1,2,2-TETRACHLOROETHANE	.966	.946	1315
5	TOLUENE	1.075	2.648	1464
6	CHLOROBENZENE	1.141	1.697	1553
7	ETHYLBENZENE	1.301	2.654	1771
8	STYRENE	1.655	.676	2253
9	META XYLENE	1.674	.981	2279
10	O-&/OR P-XYLENE	1.763	1.195	2400
11	TOLUENE-D8 (SURR)	1.064	1.439	1449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MISC 5-15-87
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FRN 12467
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Acetone .066
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215
71.7
72.6
.01
2-BUTANONE
A= 2926.T
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43.6
.305
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A=14001.
16295
TI
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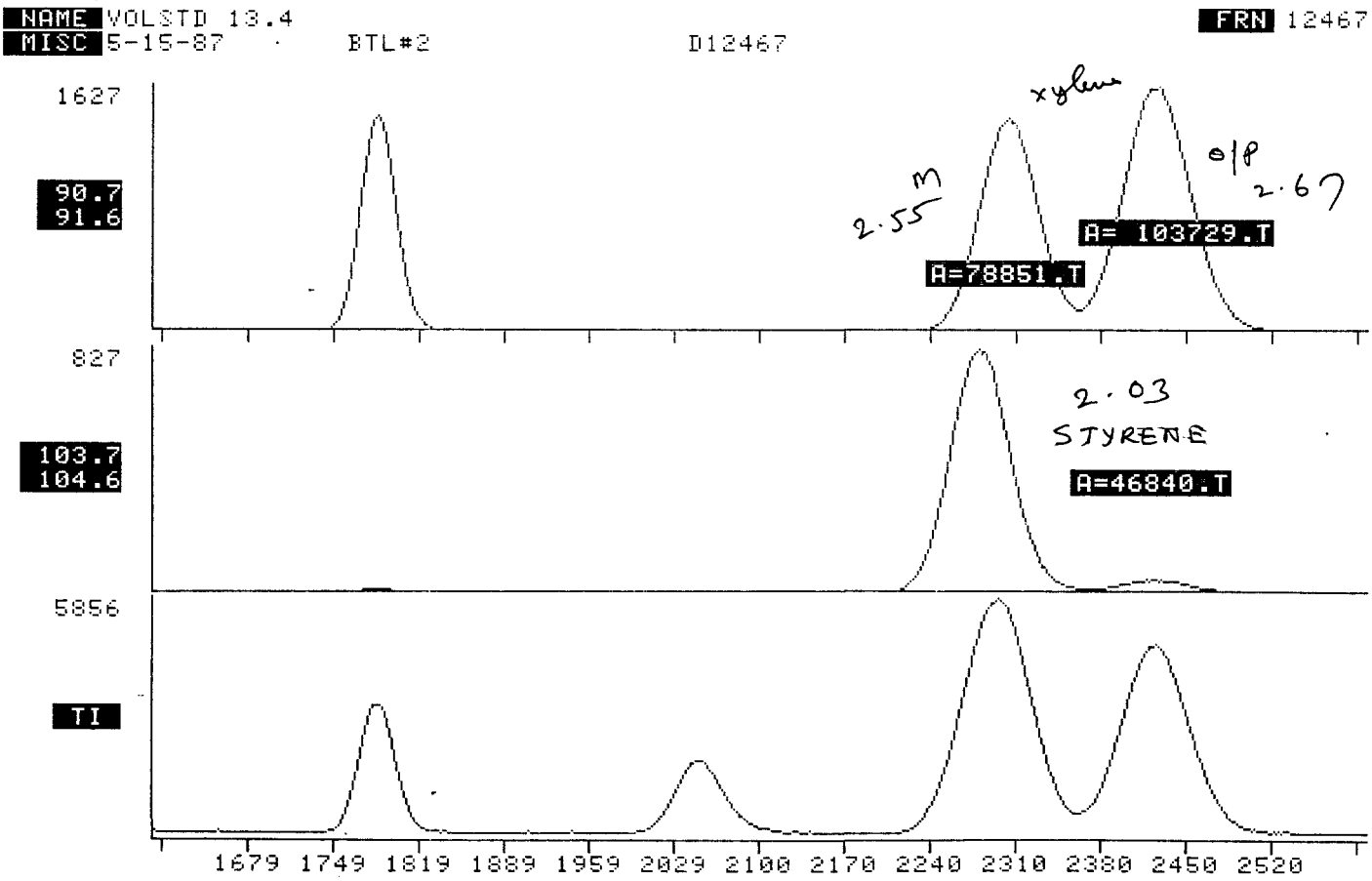
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2.67
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827
103.7
104.6
2.03
STYRENE
A=46840.T
5856
TI
1679 1749 1819 1889 1959 2029 2100 2170 2240 2310 2380 2450 2520

QUALITY CONTROL SHEET
TOXIC ORGANICS SECTION: VOLATILES

STUDY NAME SF-3958, HACKNEY

STUDY NUMBER SF-3960, SYSTECH Liquid

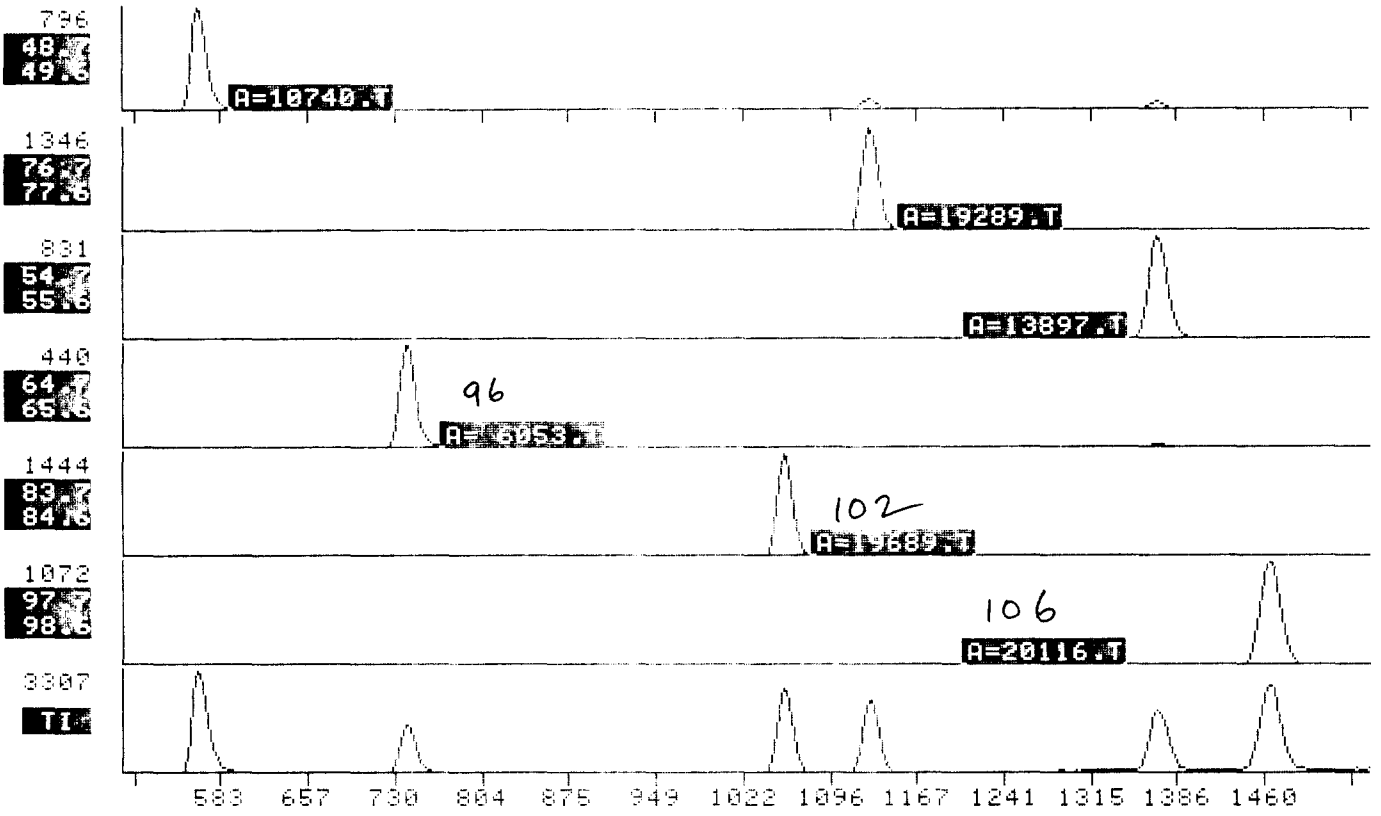
DATE 5-15-87

ACTIVITY NUMBER C76100

ANALYST TCT

FRN	SAMPLE NUMBER	MATRIX	AMOUNT PURGED	DILUTIONS	FINAL VOL (AFT.DILU	INTERNAL STD CONC. (13.4 ppb) BCM BP AREA	BCP BP AREA	DCB BP AREA	SURROGATES RECOVERY % D4-1,2-DCE	D6-Benzene	D8-Toluene
12466	LAB BLANK	WATER	15ML	NONE	15ML	10740	19289	13897	96	102	106
12467	VolSTD-13.4					11692	20518	15491	-	-	-
12468	87FH06 S14					11980	20915	16055	94	100	98
12469	87FH06 R03					10974	19601	13411	93	104	114
12470	87FS06 R02					11840	20843	15315	95	102	103
12471	87FH06 S13					11978	20832	15815	95	101	100
12472	LAB BLANK					11260	19335	15099	95	97	93
12473	87FH06 D13					11827	20396	14936	95	95	93
12474	87FS06 S12					11833	20267	15881	96	98	94
12475	VolSTD-13.4					11090	19221	15081	—	—	—
12476	87FH06S14MS					11832	20385	15649	102	100	98
12477	87FH06S14MSD					11842	20330	15302	100	100	100

NAME LABBLANK
MISC 5-15-87 BTL#1 D12466 FRN 12466



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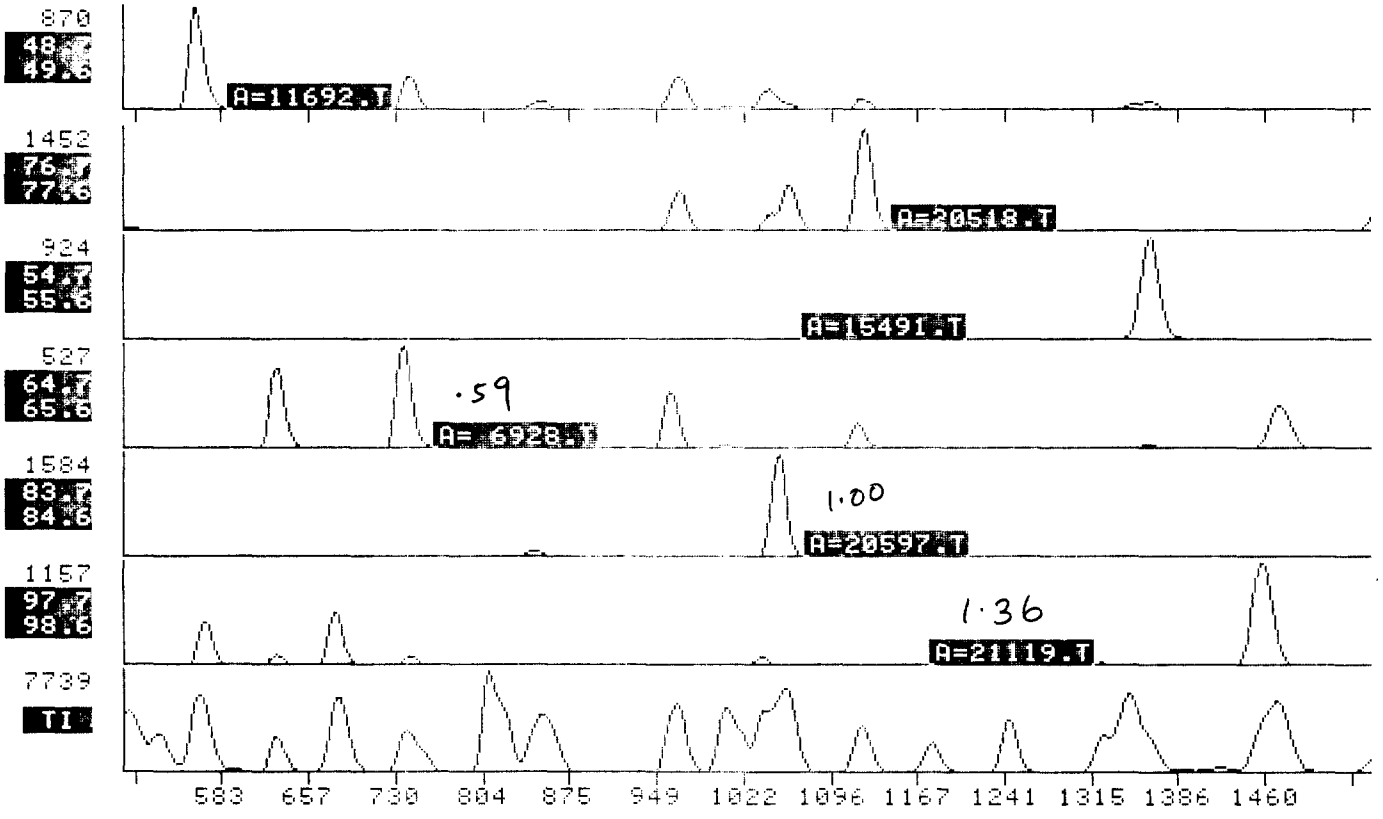
MISC 5-15-87 BTL#2 D12467 FRN 12467



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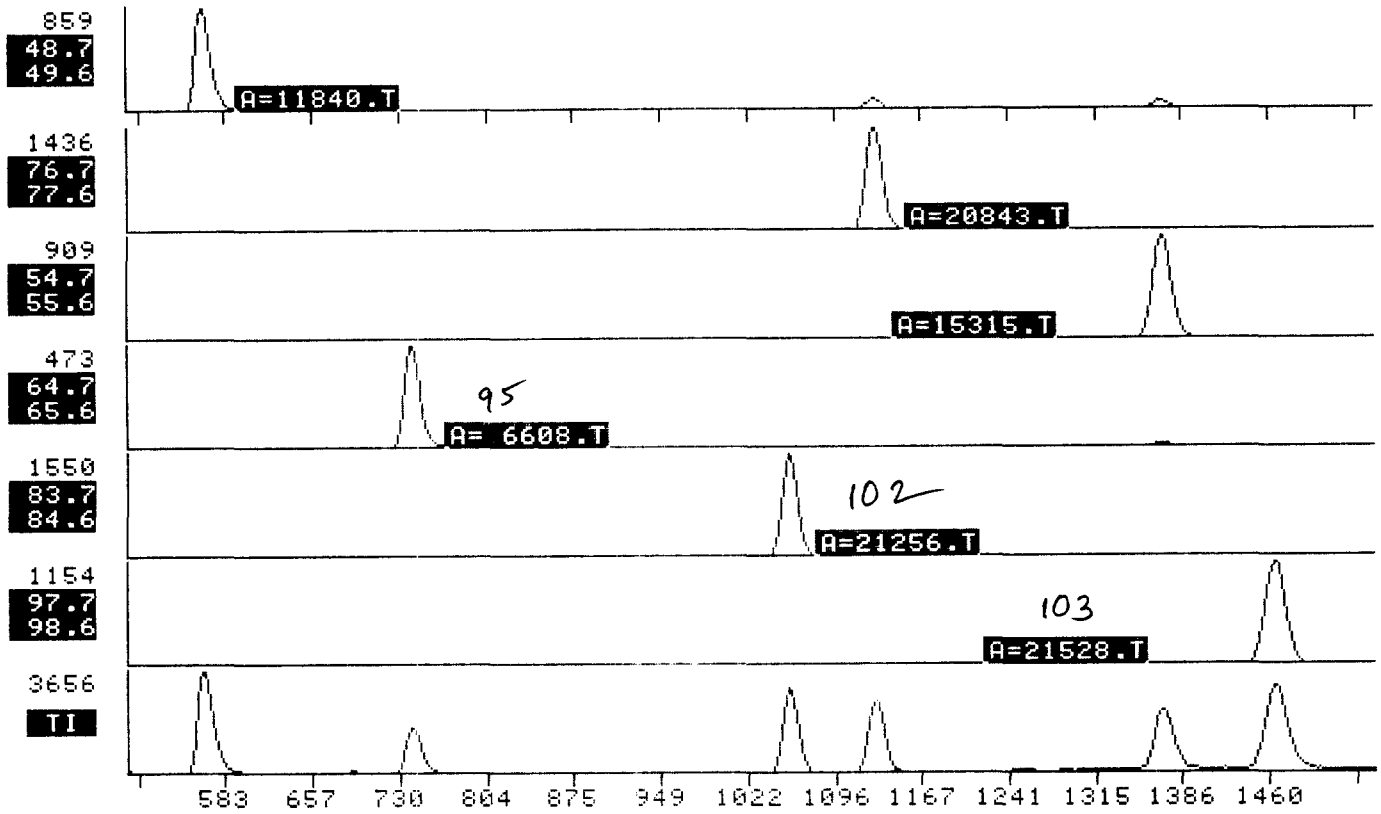

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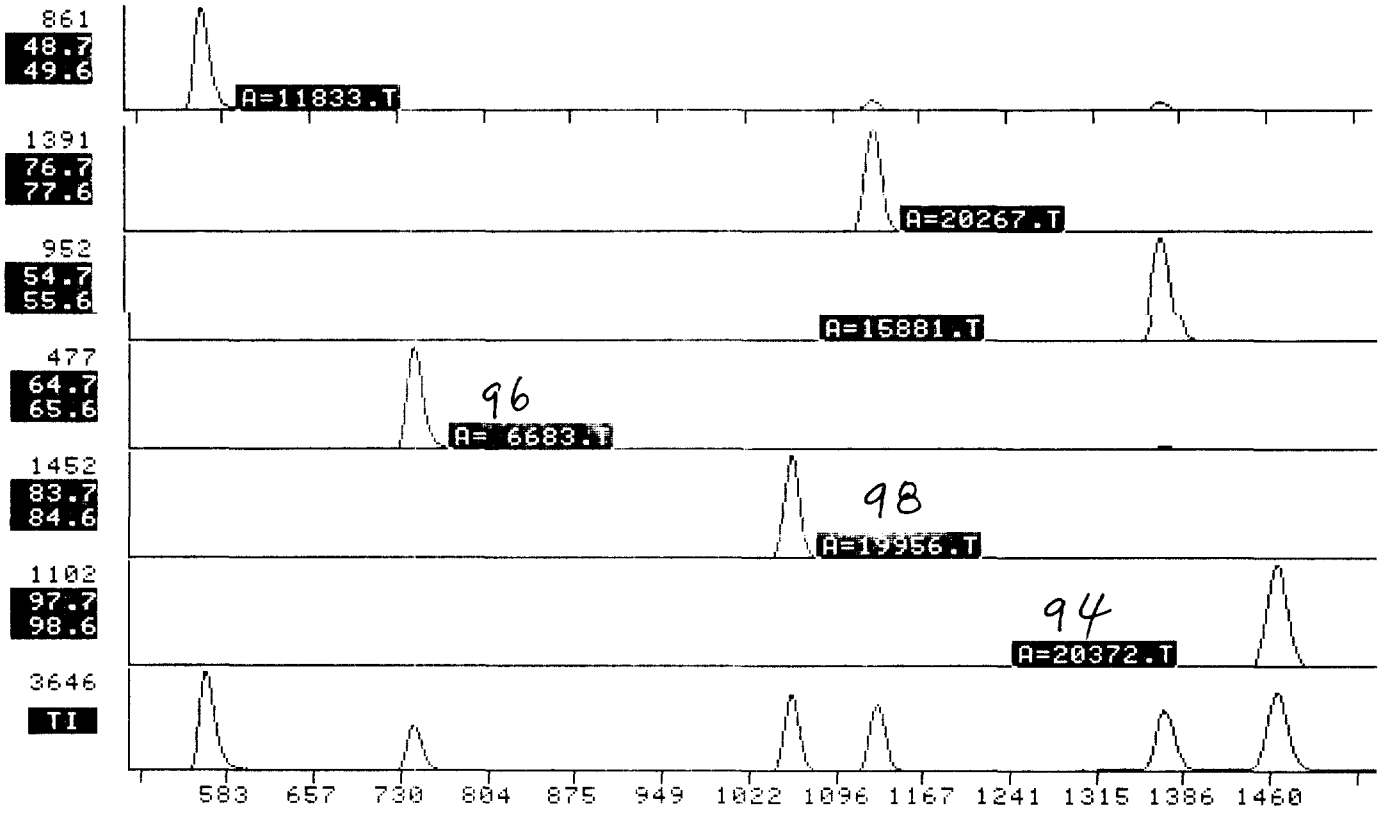

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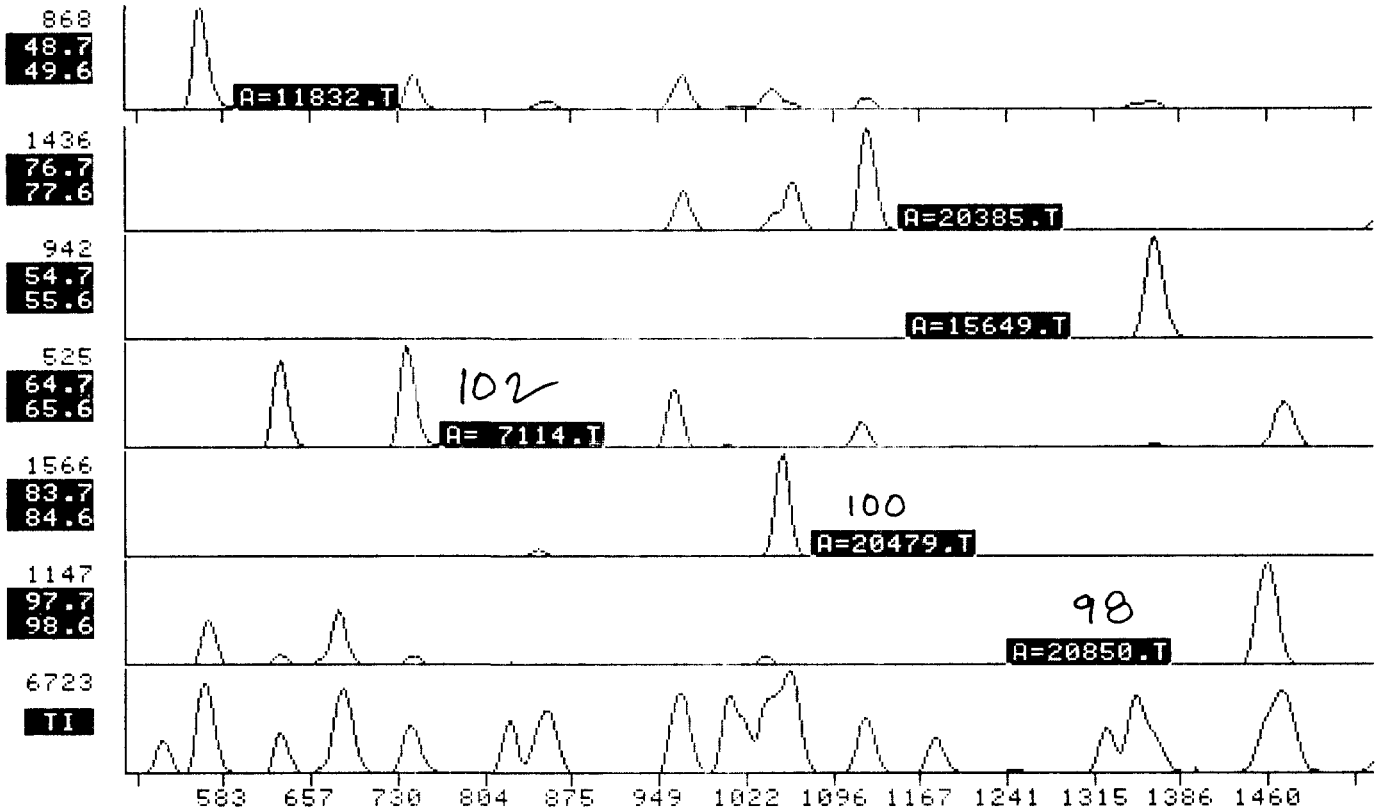
MISC 5-15-87 BTL#8 D12476



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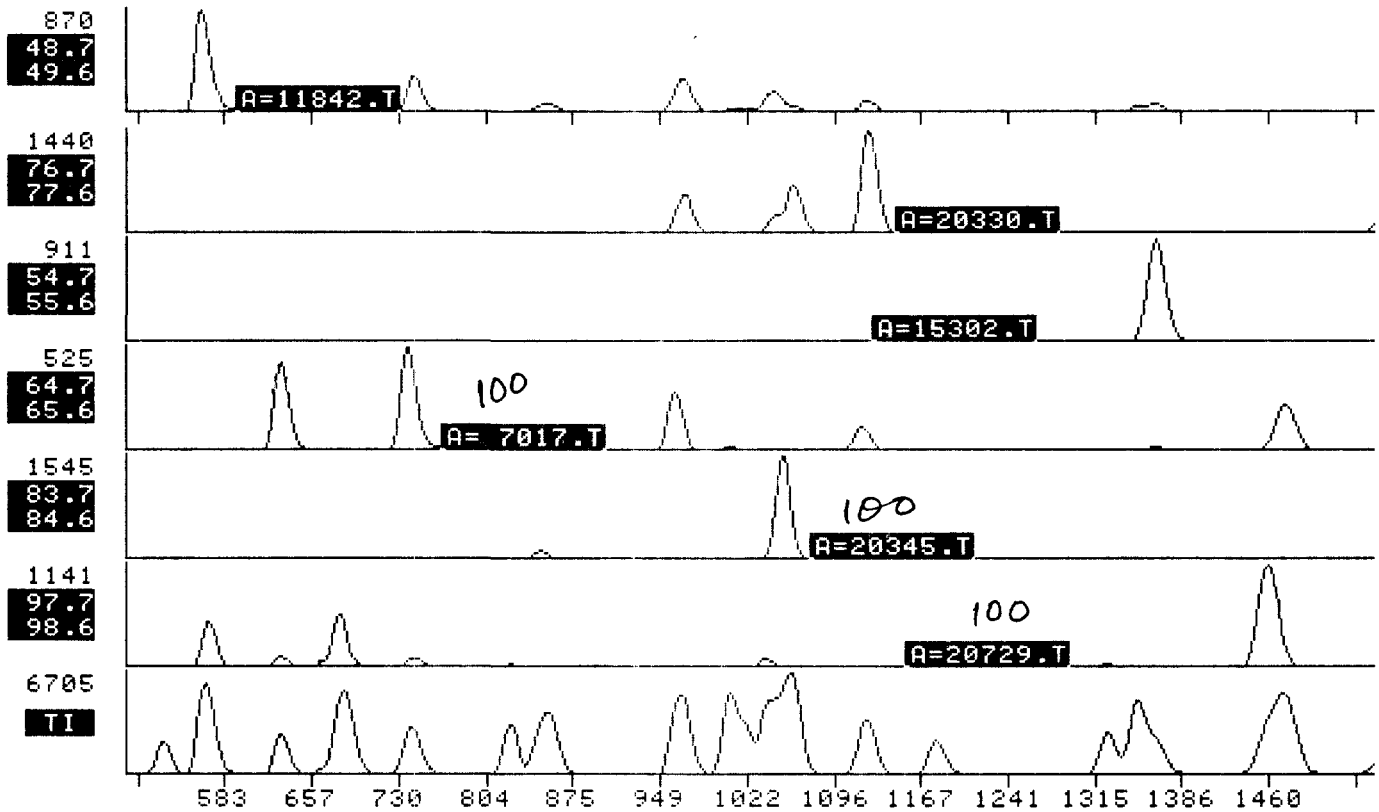


Central Regional Laboratory
U.S. Environmental Protection Agency
536 South Clark Street
Chicago, Illinois 60605
(312) 353-8370

QUALITY CONTROL SHEET

Duplicate Matrix Spike and Sample Duplicate

Study No. SF-3958, HACKNey
Study Name SF-3960, system liquid
Spike Level AB: 13.4 PPB

Activity No. C 76180
Lab Sample I.D. 87FH06 S14

Volatiles	FRN: S14	PPB	PPB	12476 %	12477 %	RPD
1. Chloromethane						*
2. Bromomethane						*
3. Vinyl chloride						*
4. Chloroethane						*
5. Methylene chloride				78	79	1
6. Acrolein						*
7. Acetone						*
8. Acrylonirile						*
9. Carbon disulfide						*
10. 1,1-Dichloroethylene	13			94	96	2
11. Bromochloromethane (Int. Std.)						
12. 1,1-Dichloroethane				94	96	2
13. 1,2-Dichloroethylene				106	106	0
14. Chloroform				97	97	0
15. 2-Butanone						*
16. 1,2-Dichloroethane				97	100	3
17. 1,1,1-Trichloroethane				92	93	1
18. Carbon tetrachloride				93	93	0
19. Vinyl acetate						*
20. Dichlorobromomethane				96	96	0
21. 1,2-Dichloropropane				94	95	1
22. 1,2-Dichloro-1-propene (Trans)				100	99	1
23. Trichloroethylene				93	98	5
24. Benzene				93	94	1
25. Dibromochloromethane				99	97	2
26. 1,1,2-Trichloroethane				99	101	2
27. 1,3-Dichloro-1-propene (CIS)				96	96	0
28. 2-Chloroethyl vinyl ether						*
29. Bromoform				99	97	2
30. 4-methyl-2-pentanone						*
31. 2-Hexanone						*
32. Tetrachloroethylene				89	90	1
33. 1,1,2,2-Tetrachloroethane				96	96	0
34. 1,4-Dichlorobutane (Int. Std.)						
35. Toluene				89	90	1
36. Chlorobenzene				88	91	3
37. Ethylbenzene				92	94	2
38. Styrene						*
39. m-xylene						*
40. o/p-xylene						*

* Not spiked in this run.

FINAL REPORT

MS DATA FILE FRN: 12476

NAME: 87FH06 S14MS
MISC DATA: 5-15-87 BTL#8 D12476

IDFILE FRN: 9985

IDFILE NAME: VOLATILE HSL#1 CONC 1
MISC DATA: 4-15-87 LS

		NAME	CONCENTRATION (PPB)	
STANDARD		BROMOCHLOROMETHANE	13.0	
	1	CHLOROMETHANE	LESS THAN 15.2	
	2	BROMOMETHANE	LESS THAN .3	
	3	VINYL CHLORIDE	3.5	
	4	CHLOROETHANE	LESS THAN .4	
	5	METHYLENE CHLORIDE	10.4	78
	6	ACROLEIN	LESS THAN 4.4	
	7	ACETONE	LESS THAN .7	
	8	ACRYLONITRILE	9.1	
	9	CARBON DISULFIDE	LESS THAN .0	
	10	1,1-DICHLOROETHENE	12.6	91
	11	1,1-DICHLOROETHANE	12.6	94
	12	1,2-DICHLOROETHENE	14.2	106
	13	CHLOROFORM	12.7	95
	14	1,2-DICHLOROETHANE	13.0	97
	15	1,2-DICHLOROETHANE-D4(SURR)	13.5	

FINAL REPORT

MS DATA FILE FRN: 12476

NAME: 87FH06 S14MS
MISC DATA: 5-15-87 BTL#8 D12476

IDFILE FRN: 9988

IDFILE NAME: VOLATILE HSL #2 CONC. 1
MISC DATA: 4-30-87 TCJ

		NAME	CONCENTRATION (PPB)	
STANDARD		2-BROMO-1-CHLOROPROPANE	13.0	
	1	2-BUTANONE	15.4	
	2	1,1,1-TRICHLOROETHANE	12.3	92
	3	CARBON TETRACHLORIDE	12.4	93
	4	VINYL ACETATE	LESS THAN .4	
	5	DICHLOROBROMOMETHANE	12.8	96
	6	1,2-DICHLOROPROPANE	12.6	94
	7	1,3-DICHLORO-1-PROPENE (CIS)	15.7	96
	8	TRICHLOROETHYLENE	12.5	93
	9	BENZENE	12.5	93
	10	DIBROMOCHLOROMETHANE	13.1	98
	11	1,1,2-TRICHLOROETHANE	13.2	99
	12	1,3-DICHLORO-1-PROPENE (TRANS)	10.4	100
	13	2-CHLOROETHYL VINYL ETHER	13.1	98
	14	BROMOFORM	13.2	99
	15	BENZENE D6(SURR)	13.4	

FINAL REPORT

MS DATA FILE FRN: 12476

NAME: 87FH06 S14MS
MISC DATA: 5-15-87 BTL#8 D12476

IDFILE FRN: 9991

IDFILE NAME: VOLATILE HSL #3CONC. 1
MISC DATA: 4-30-87 TCJ

		NAME	CONCENTRATION (PPB)
STANDARD		1,4-DICHLOROBUTANE	13.0
	1	4-METHYL-2-PENTANONE	2.3
	2	2-HEXANONE	2.3
	3	TETRACHLOROETHYLENE	11.9 — 89
	4	1,1,2,2-TETRACHLOROETHANE	12.8 — 96
	5	TOLUENE	11.9 — 89
	6	CHLOROBENZENE	11.8 — 88
	7	ETHYLBENZENE	12.3 — 92
	8	STYRENE	LESS THAN .1
	9	META XYLENE	LESS THAN .1
	10	O-&/OR P-XYLENE	LESS THAN 2.4
	11	TOLUENE-D8 (SURR)	12.6

FINAL REPORT

MS DATA FILE FRN: 12477

NAME: 87FH06 S14MSD
MISC DATA: 5-15-87 BTL#9 D12477

IDFILE FRN: 9985

IDFILE NAME: VOLATILE HSL#1 CONC 1
MISC DATA: 4-15-87 LS

		NAME	CONCENTRATION (PPB)	
STANDARD		BROMOCHLOROMETHANE	13.0	
	1	CHLOROMETHANE	LESS THAN 15.6	
	2	BROMOMETHANE	LESS THAN .3	
	3	VINYL CHLORIDE	3.6	
	4	CHLOROETHANE	LESS THAN .4	
	5	METHYLENE CHLORIDE	10.6	79
	6	ACROLEIN	LESS THAN 4.6	
	7	ACETONE	LESS THAN .7	
	8	ACRYLONITRILE	8.4	
	9	CARBON DISULFIDE	LESS THAN .0	
	10	1,1-DICHLOROETHENE	12.9	96
	11	1,1-DICHLOROETHANE	12.8	96
	12	1,2-DICHLOROETHENE	14.2	106
	13	CHLOROFORM	13.0	97
	14	1,2-DICHLOROETHANE	13.4	100
	15	1,2-DICHLOROETHANE-D4(SURR)	13.6	

FINAL REPORT

MS DATA FILE FRN: 12477

NAME: 87FH06 S14MSD
MISC DATA: 5-15-87 BTL#9 D12477

IDFILE FRN: 9988

IDFILE NAME: VOLATILE HSL #2 CONC. 1
MISC DATA: 4-30-87 TCJ

		NAME	CONCENTRATION (PPB)	
STANDARD		2-BROMO-1-CHLOROPROPANE	13.0	
	1	2-BUTANONE	LESS THAN 1.8	
	2	1,1,1-TRICHLOROETHANE	12.5	97
	3	CARBON TETRACHLORIDE	12.5	97
	4	VINYL ACETATE	LESS THAN .4	
	5	DICHLOROBROMOMETHANE	12.9	96
	6	1,2-DICHLOROPROPANE	12.7	96
	7	1,3-DICHLORO-1-PROPENE (CIS)	15.7	96
	8	TRICHLOROETHYLENE	13.1	98
	9	BENZENE	12.6	94
	10	DIBROMOCHLOROMETHANE	13.0	97
	11	1,1,2-TRICHLOROETHANE	13.5	101
	12	1,3-DICHLORO-1-PROPENE (TRANS)	10.1	99
	13	2-CHLOROETHYL VINYL ETHER	13.4	~~10~~
	14	BROMOFORM	13.0	97
	15	BENZENE D6(SURR)	13.4	

FINAL REPORT

MS DATA FILE FRN: 12477

NAME: 87FH06 S14MSD
MISC DATA: 5-15-87 BTL#9 D12477

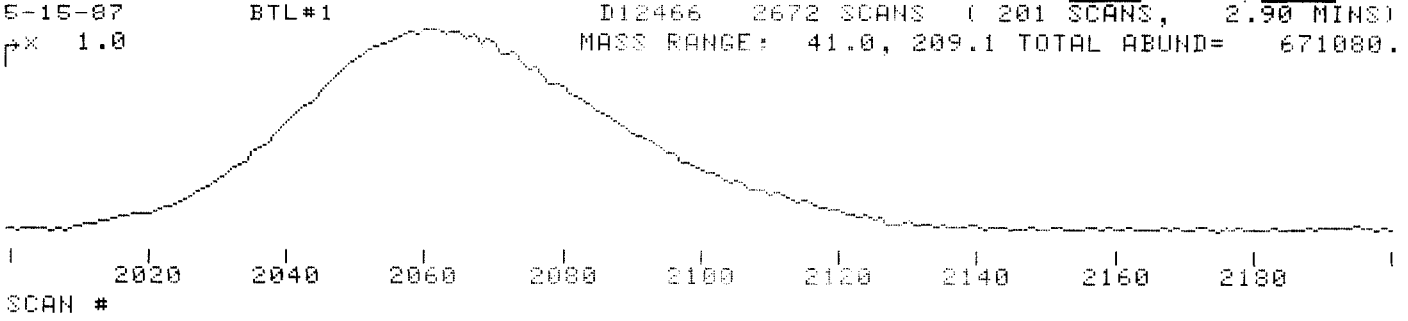
IDFILE FRN: 9991

IDFILE NAME: VOLATILE HSL #3CONC. 1
MISC DATA: 4-30-87 TCJ

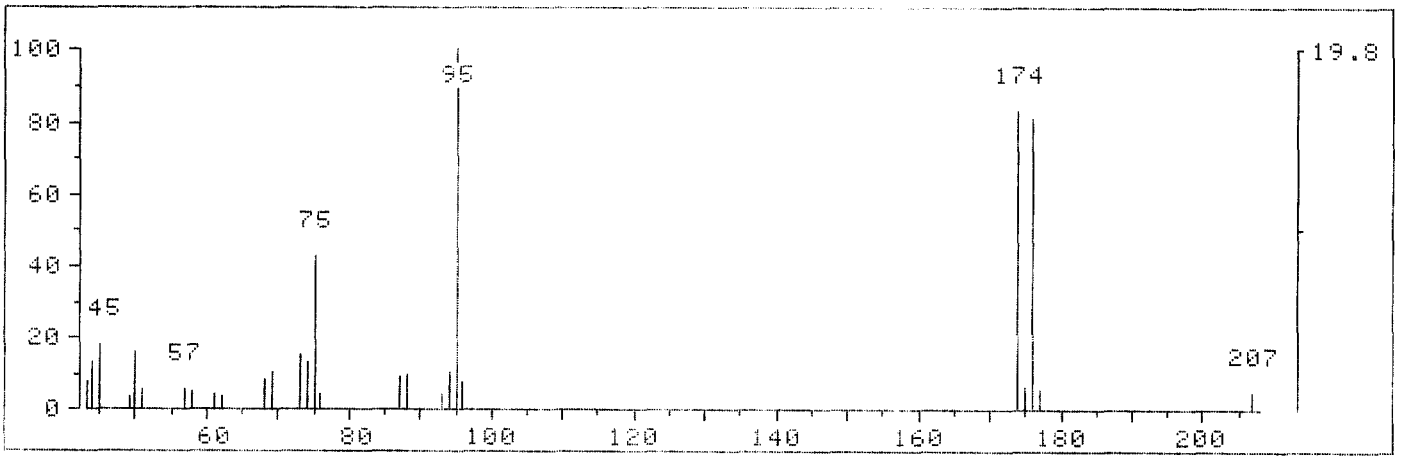
		NAME	CONCENTRATION (PPB)
STANDARD		1,4-DICHLOROBUTANE	13.0
	1	4-METHYL-2-PENTANONE	LESS THAN .8
	2	2-HEXANONE	LESS THAN .8
	3	TETRACHLOROETHYLENE	12.0 — 90
	4	1,1,2,2-TETRACHLOROETHANE	12.8 — 96
	5	TOLUENE	12.1 — 90
	6	CHLOROBENZENE	12.2 — 91
	7	ETHYLBENZENE	12.6 — 94
	8	STYRENE	LESS THAN .1
	9	META XYLENE	LESS THAN .1
	10	O-&/OR P-XYLENE	LESS THAN 2.4
	11	TOLUENE-D8 (SURR)	12.8

LABBLANK
5-15-87 BTL#1

FRN 12466, CRN 9
D12466 2672 SCANS (201 SCANS, 2.90 MINS)
MASS RANGE: 41.0, 209.1 TOTAL ABUND= 671080.



#2053 RET. TIME: 31.08 TOT ABUND= 1667. BASE PK/ABUND: 95.0/ 330.



FRN 12466, SPECTRUM # 2053 RET.TIME: 31.08, 27 PEAKS

M/Z	REL ABUND	M/Z	REL ABUND	M/Z	REL ABUND	M/Z	REL ABUND
43	7.9	58	5.5	75	42.7	96	7.9
44	13.6	61	4.5	76	4.2	174	83.3
45	18.2	62	3.6	87	9.1	175	6.7
49	3.9	68	8.8	88	10.0	176	81.2
50	15.8	69	10.9	93	4.5	177	6.1
51	6.1	73	15.2	94	10.9	207	5.2
57	6.1	74	13.6	95	100.0		

>PAUSE

QUALITY CONTROL SHEET
TOXIC ORGANIC SECTION: VOLATILES

STUDY NAME Syntech Legend ACTIVITY NUMBER C76100 ANALYST TCJ

STUDY NUMBER SF-3960

SUMMARY: BLANKS DATA

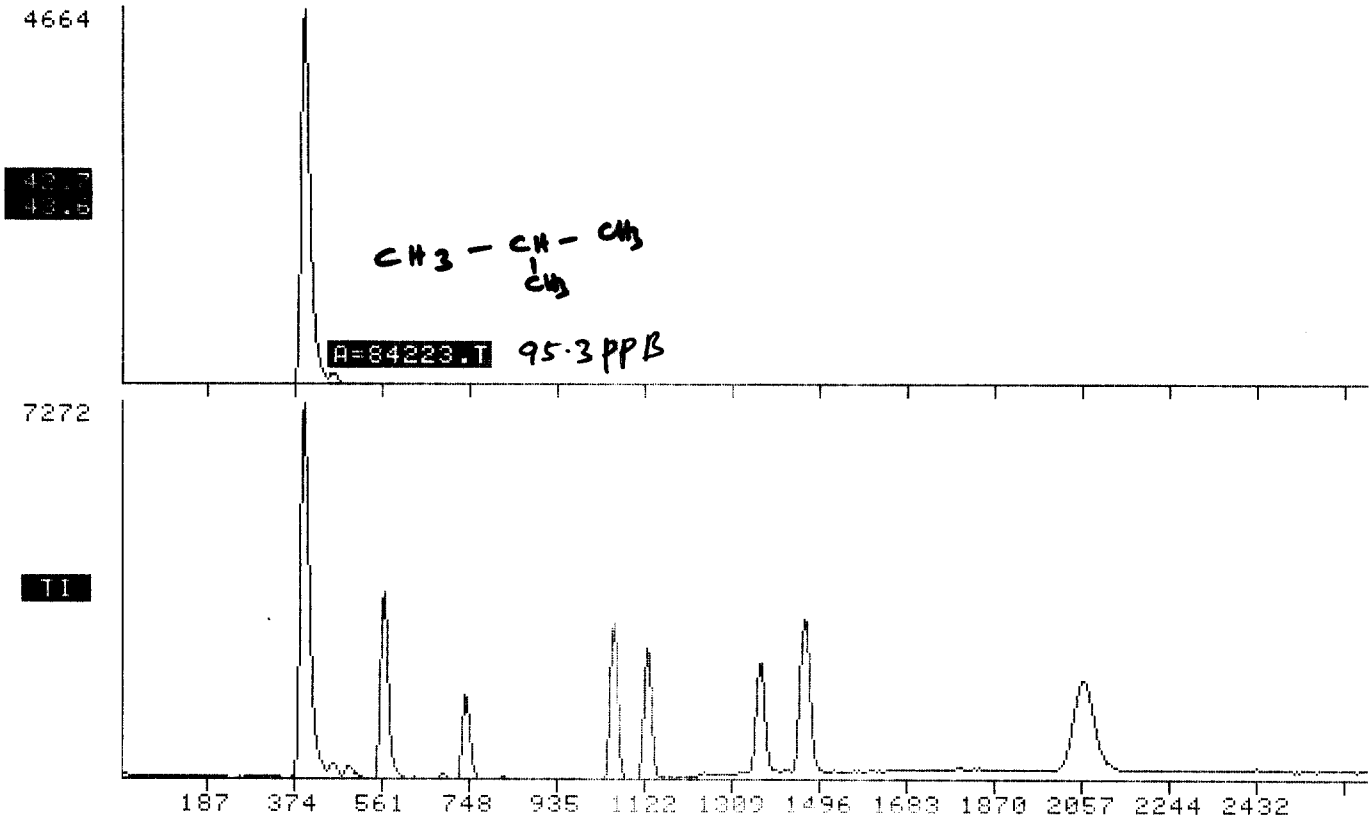
#	FRN	DATE	BLANK TYPE	COMPOUNDS DETECTED	ESTIMATED CONCENTRATION (PPB)	STD USED
1.	12466	5/15/87	LABBLANK	No compounds found	0	BCM, BCP
2.	12420	5/15	87FS06R02 (Full)	2 Methyl propane	95	BCM
3.						
4.						

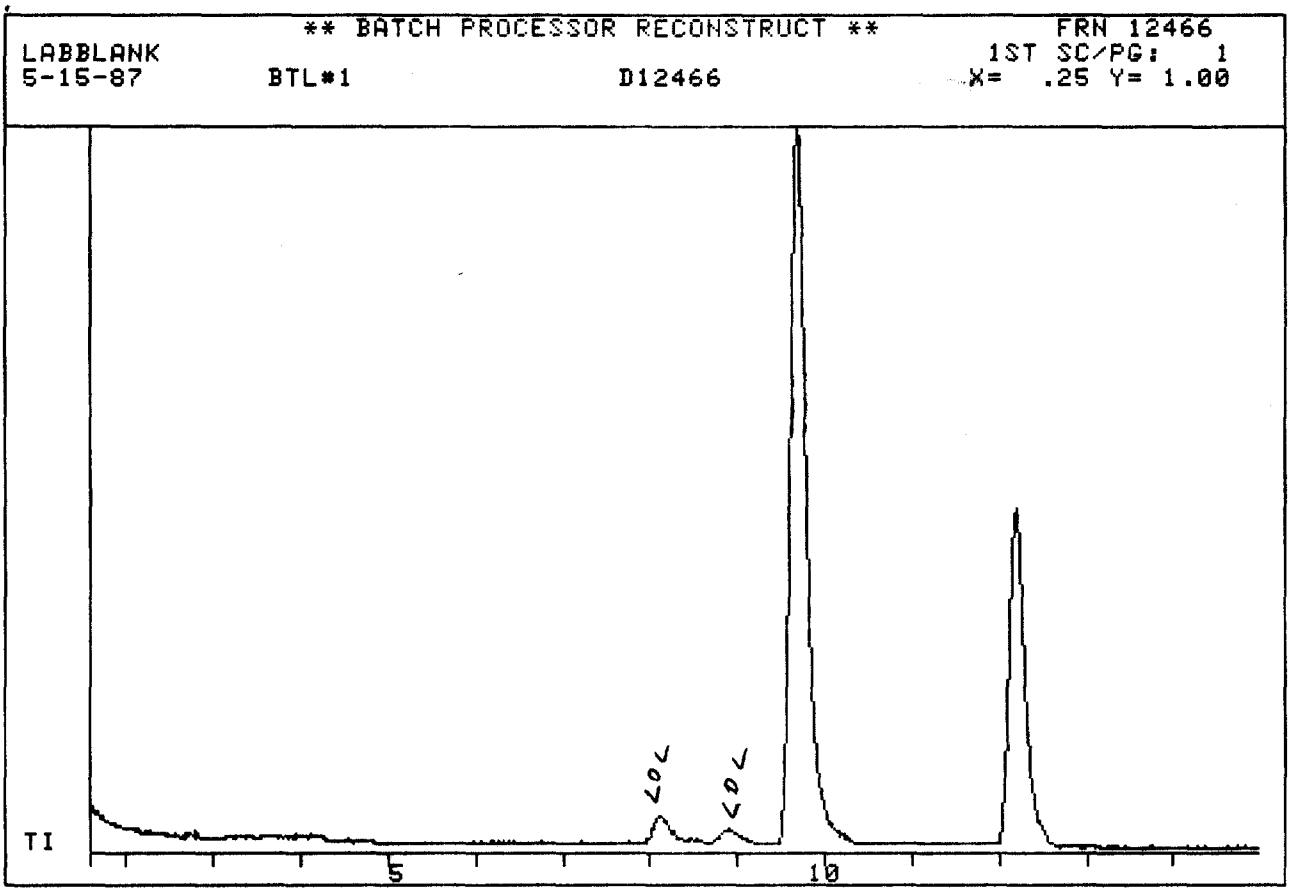
VOLATILE ORGANIC ANALYSIS DATA SHEET
U.S. EPA - Region V, Central Regional Laboratory

CONCENTRATION OF STANDARDS USED IN VOLSTD MIX

	CAS #	Compounds	Concentration (PPB)
1.	74-87-3	Chloromethane	26.8
2.	74-83-9	Bromomethane	26.8
3.	75-01-4	Vinyl Chloride	26.8
4.	75-00-3	Chloroethane	26.8
5.	75-09-2	Methylene Chloride	13.4
6.	107-02-8	Acrolein	600
7.	67-64-1	Acetone	600
8.	107-37-1	Acrylonitrile	600
9.	75-15-0	Carbon Disulfide	20
10.	75-35-4	1,1-Dichloroethene	13.4
11.	75-35-3	1,1-Dichloroethane	13.4
12.	156-60-5	trans-1,2-Dichloroethene	13.4
13.	67-66-3	Chloroform	13.4
14.	78-93-3	2-Butanone	200
15.	107-06-2	1,2-Dichloroethane	13.4
16.	71-55-6	1,1,1-Trichloroethane	13.4
17.	56-23-5	Carbon Tetrachloride	13.4
18.	108-05-4	Vinyl Acetate	30
19.	75-27-4	Bromodichloromethane	13.4
20.	78-87-5	1,2-Dichloropropane	13.4
21.	10061-02-6	trans-1,3-Dichloropropene	10.4
22.	79-01-6	Trichloroethene	13.4
23.	71-43-2	Benzene	13.4
24.	124-48-1	Dibromochloromethane	13.4
25.	79-00-5	1,1,2-Trichloroethane	13.4
26.	10061-01-5	cis-1,3-Dichloropropene	16.4
27.	110-75-8	2-Chloroethyl Vinyl Ether	13.4
28.	75-25-2	Bromoform	13.4
29.	108-10-1	4-Methyl-2-pentanone	40
30.	519-78-6	2-Hexanone	40
31.	127-18-4	Tetrachloroethene	13.4
32.	79-34-5	1,1,2,2-Tetrachloroethane	13.4
33.	108-88-3	Toluene	13.4
34.	108-90-7	Chlorobenzene	13.4
35.	100-41-4	Ethylbenzene	13.4
36.	100-42-5	Styrene	20
37.	108-38-3	m-Xylene	26.8
38.		o/p-Xylene (total)	33.6

NAME SF-3960, 87FS06 R02 FRN 12470
MISC 5-15-87 BTL#2 D12470

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FRN 12466
LABBLANK
1ST SC/PG: 1
5-15-87
BTL#1
D12466
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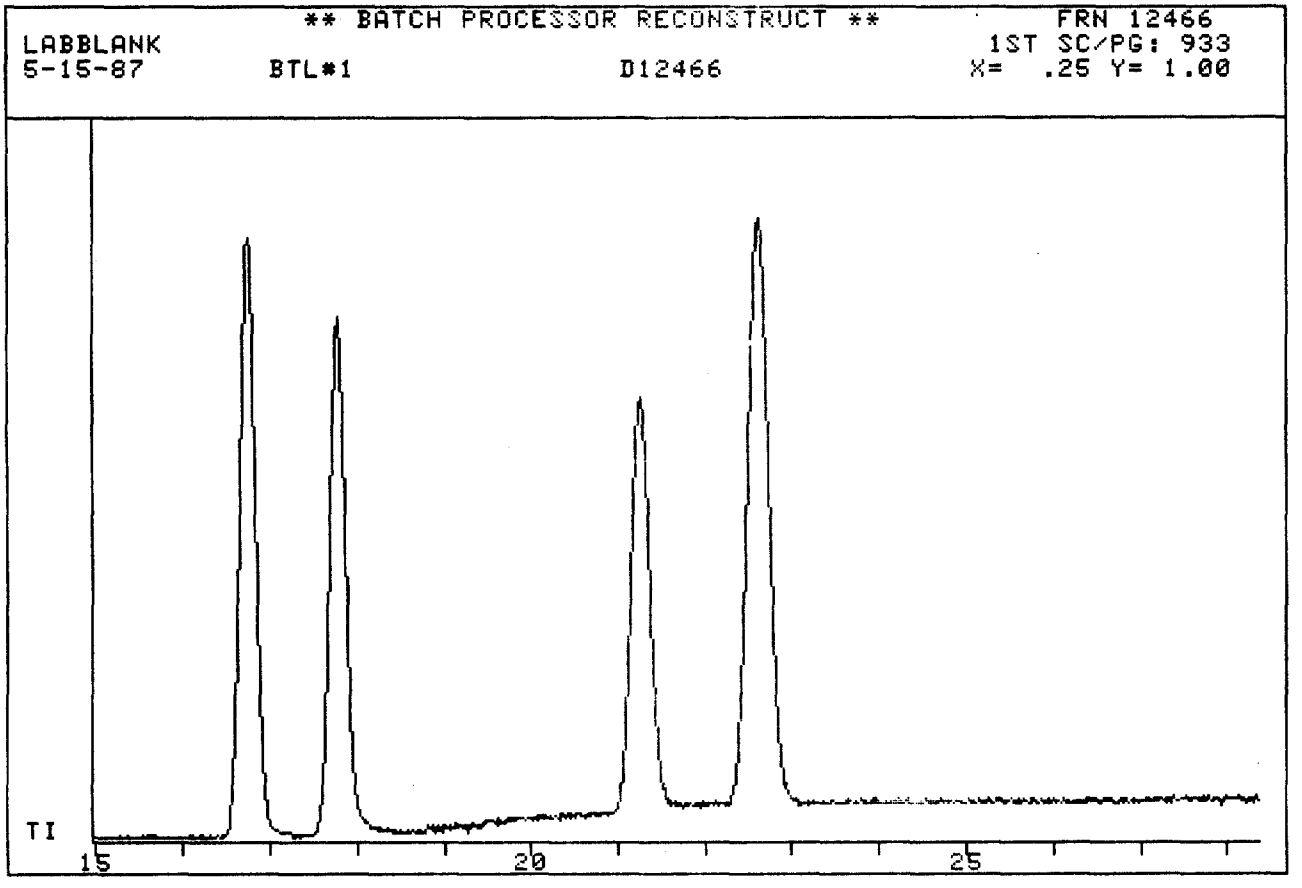
TI
5
10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5-15-87
BTL#1
D12466
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15
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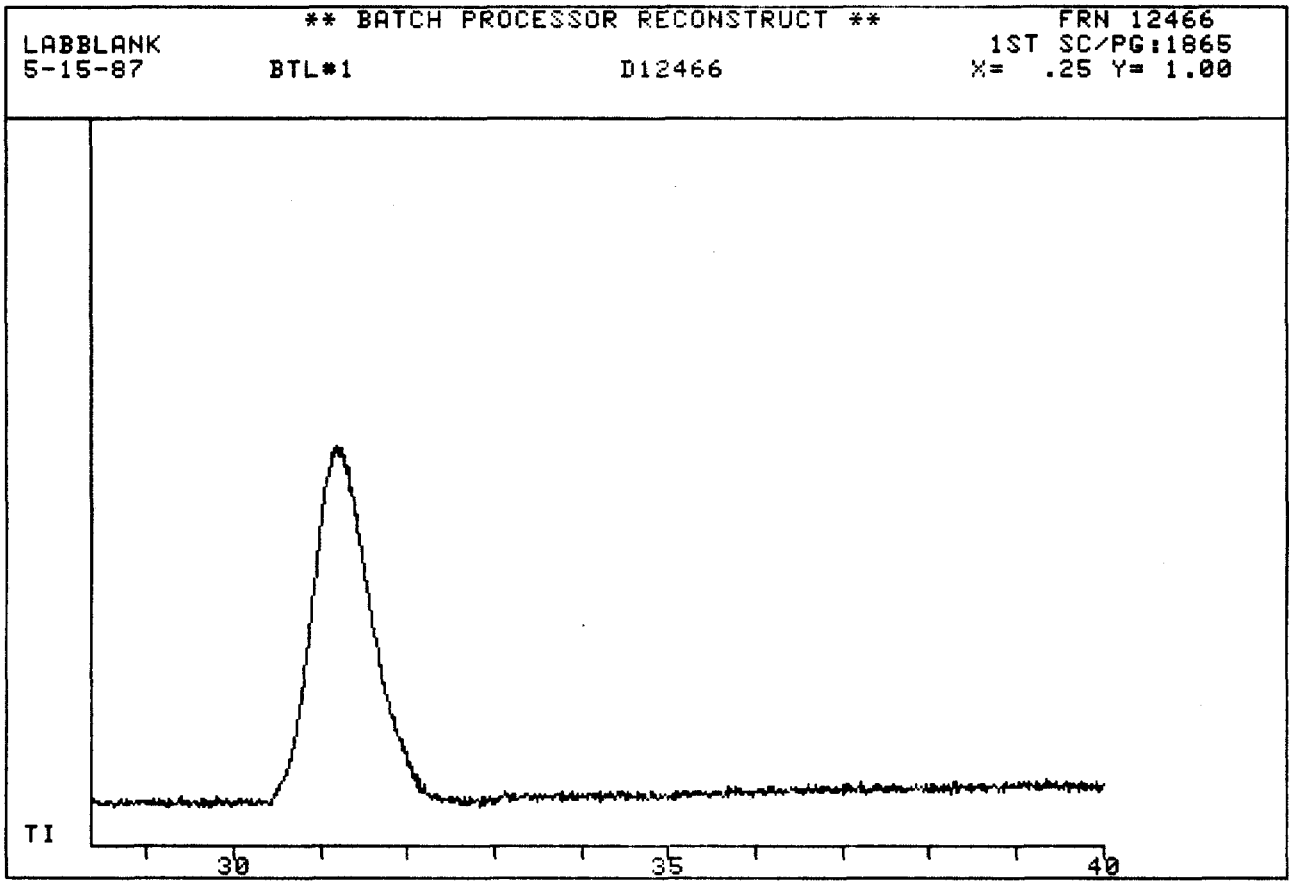
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5-15-87
BTL#1
D12466
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TI
30
35
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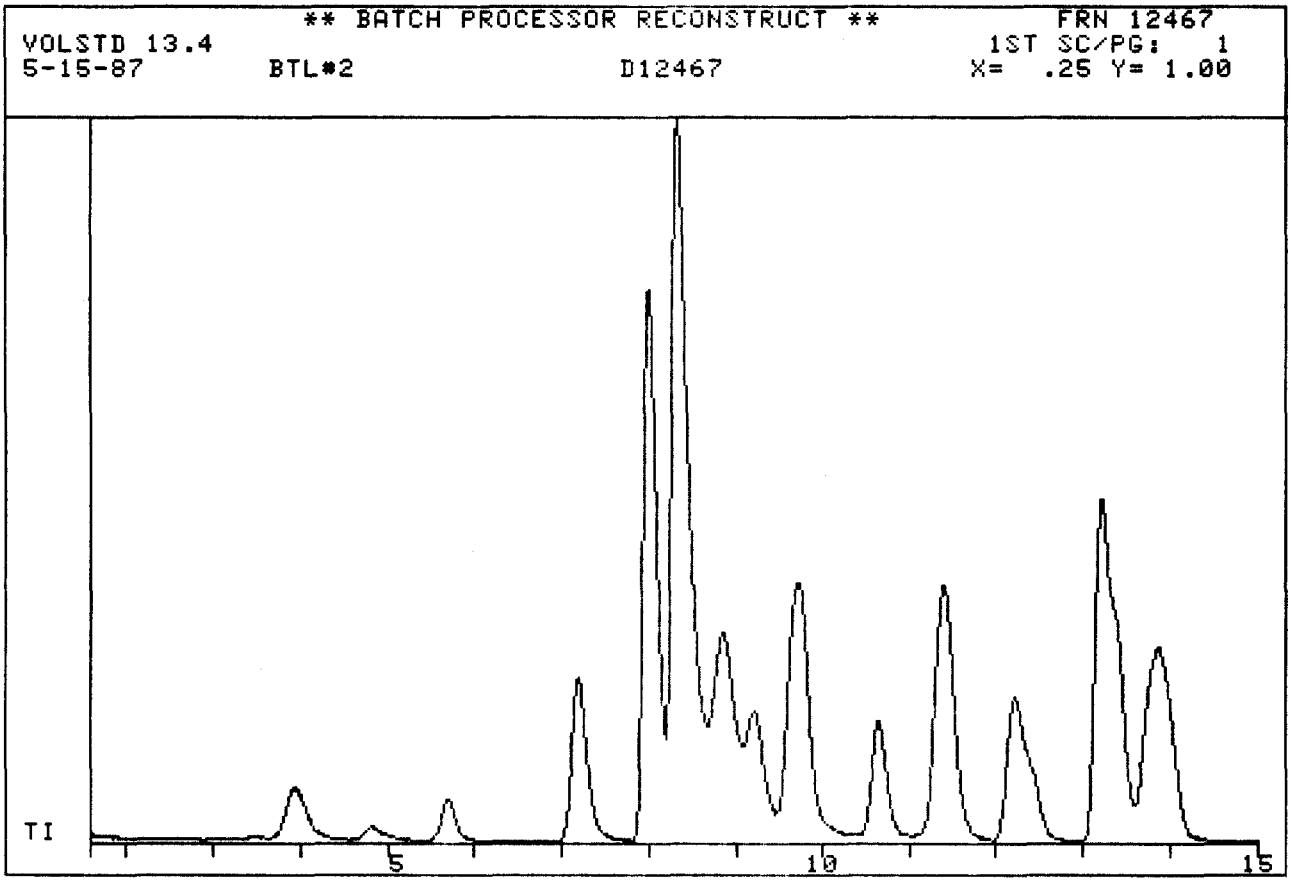
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FRN 12467
VOLSTD 13.4
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5-15-87
BTL#2
D12467
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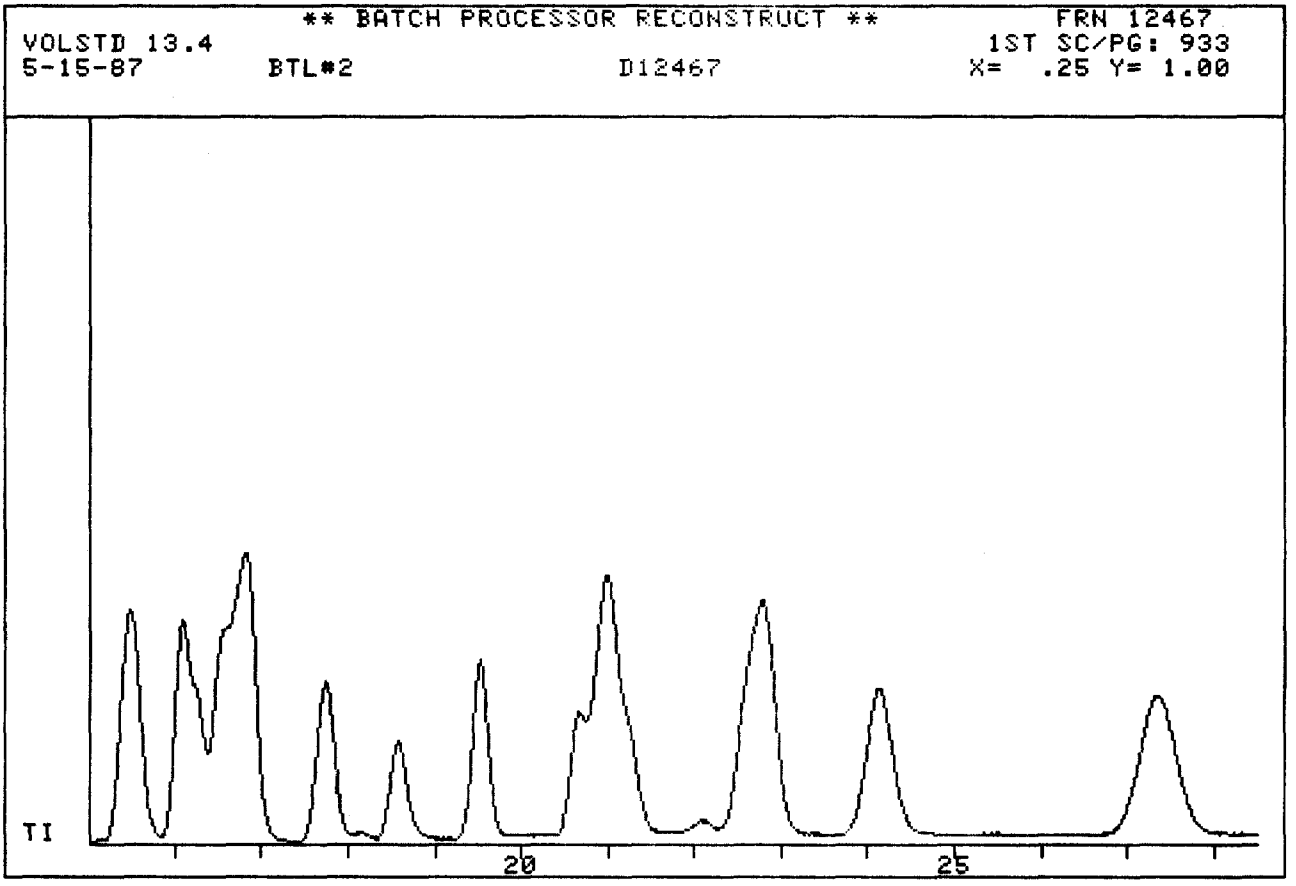
TI
5
10
15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VOLSTD 13.4
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5-15-87
BTL#2
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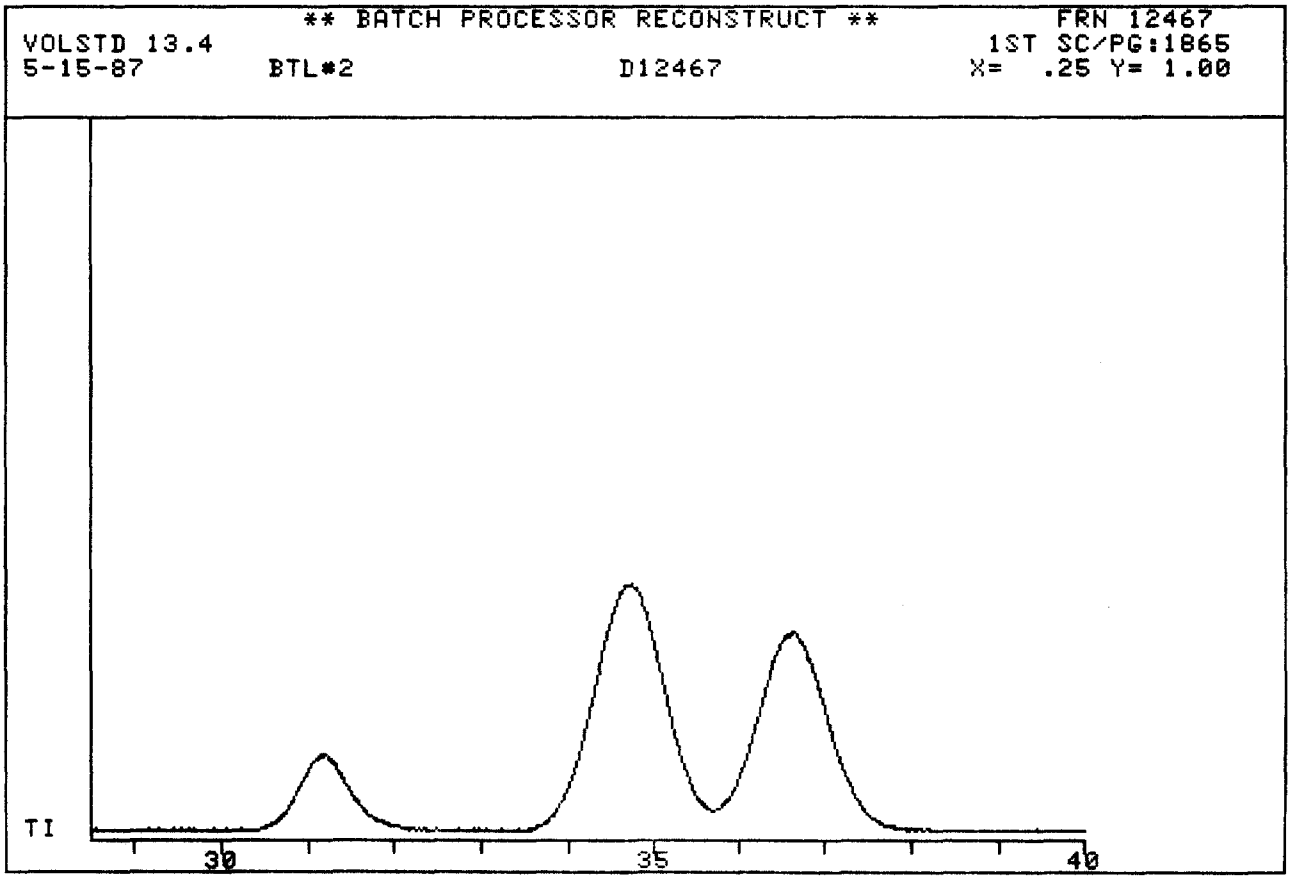
TI
20
25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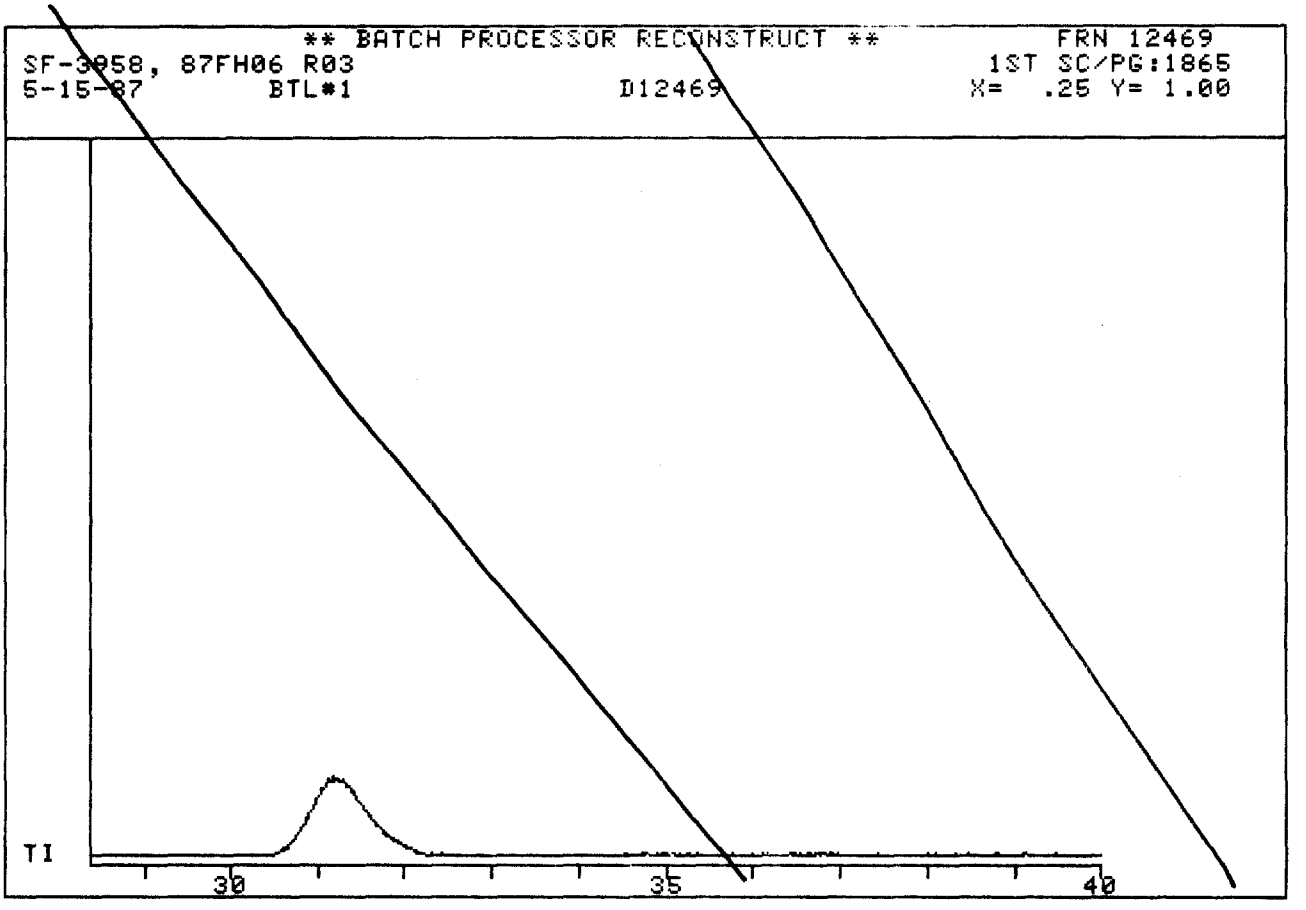
FRN 12467
VOLSTD 13.4
1ST SC/PG:1865
5-15-87
BTL#2
D12467
X= .25 Y= 1.00
TI
30
35
40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FRN 12469
SF-3958, 87FH06 R03
1ST SC/PG:1865
5-15-87
BTL#1
D12469
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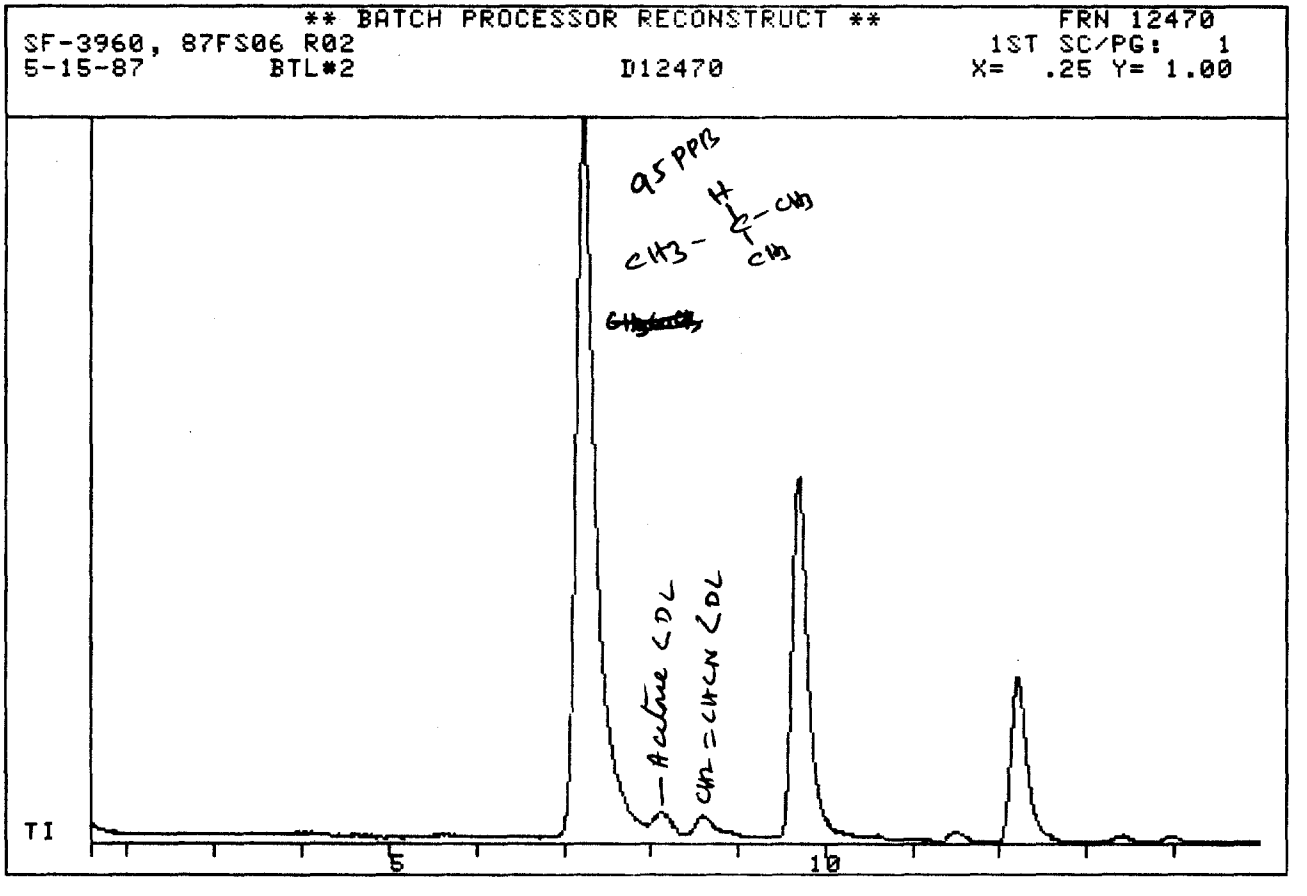
TI
30
35
40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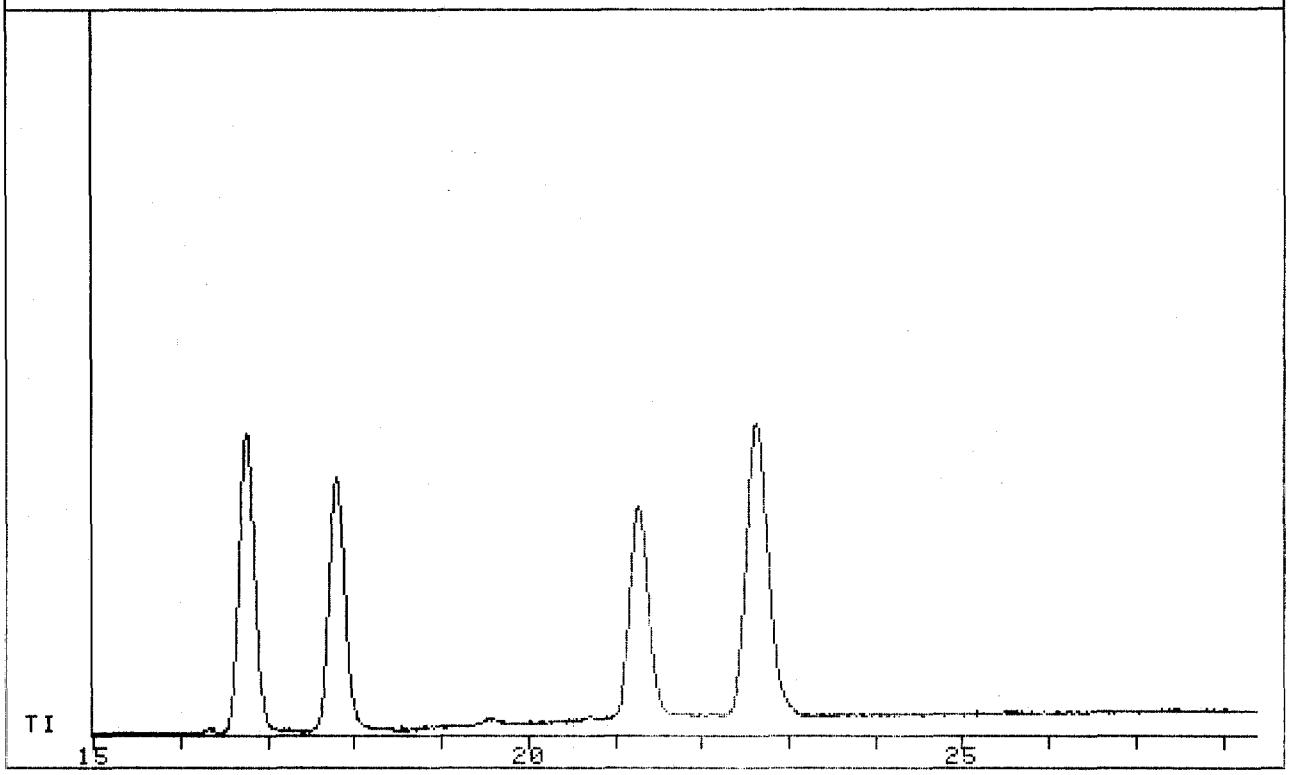
FRN 12470
SF-3960, 87FS06 R02
1ST SC/PG: 1
5-15-87
BTL#2
D12470
X= .25 Y= 1.00
95 PPB
CH3-
CH3
Acetone LDL
CH2=CHCN LDL
TI
5
10

** BATCH PROCESSOR RECONSTRUCT ** FRN 12470
SF-3960, 87FS06 R02 1ST SC/PG: 933
5-15-87 BTL#2 D12470 X= .25 Y= 1.00



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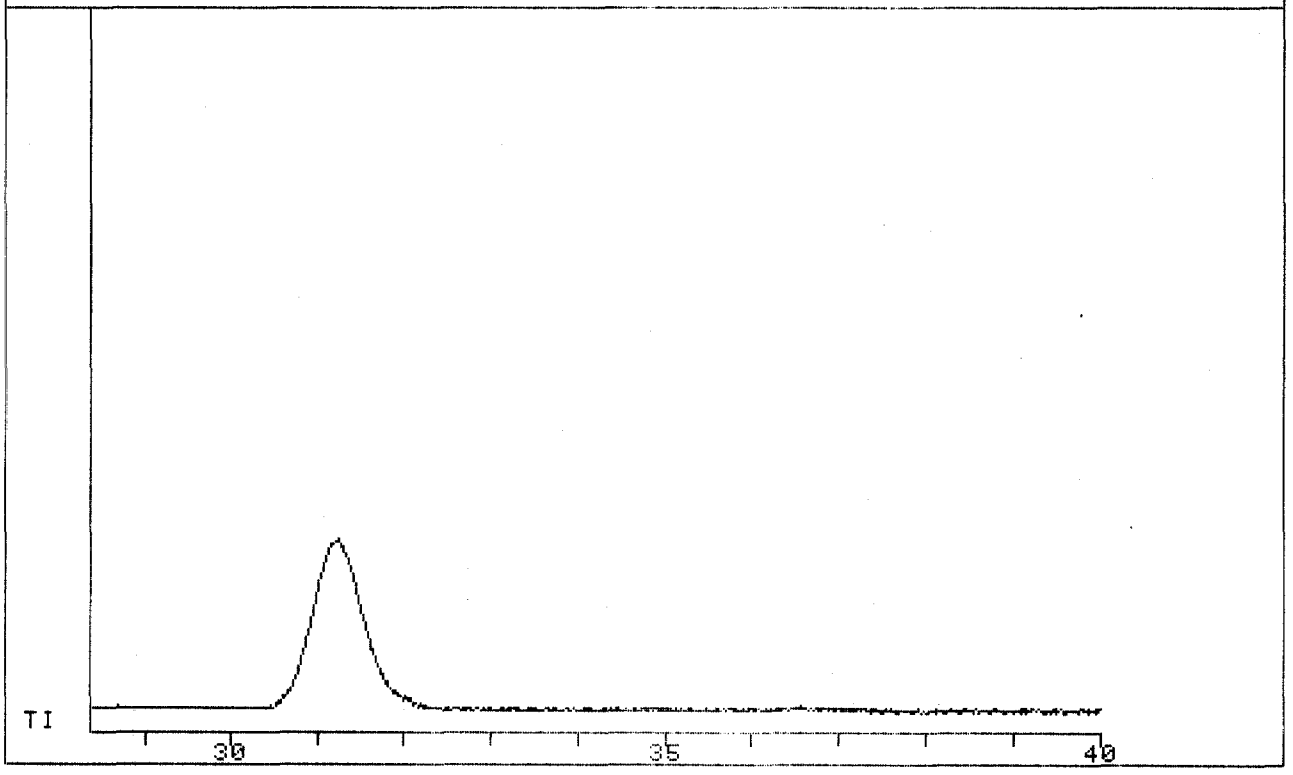
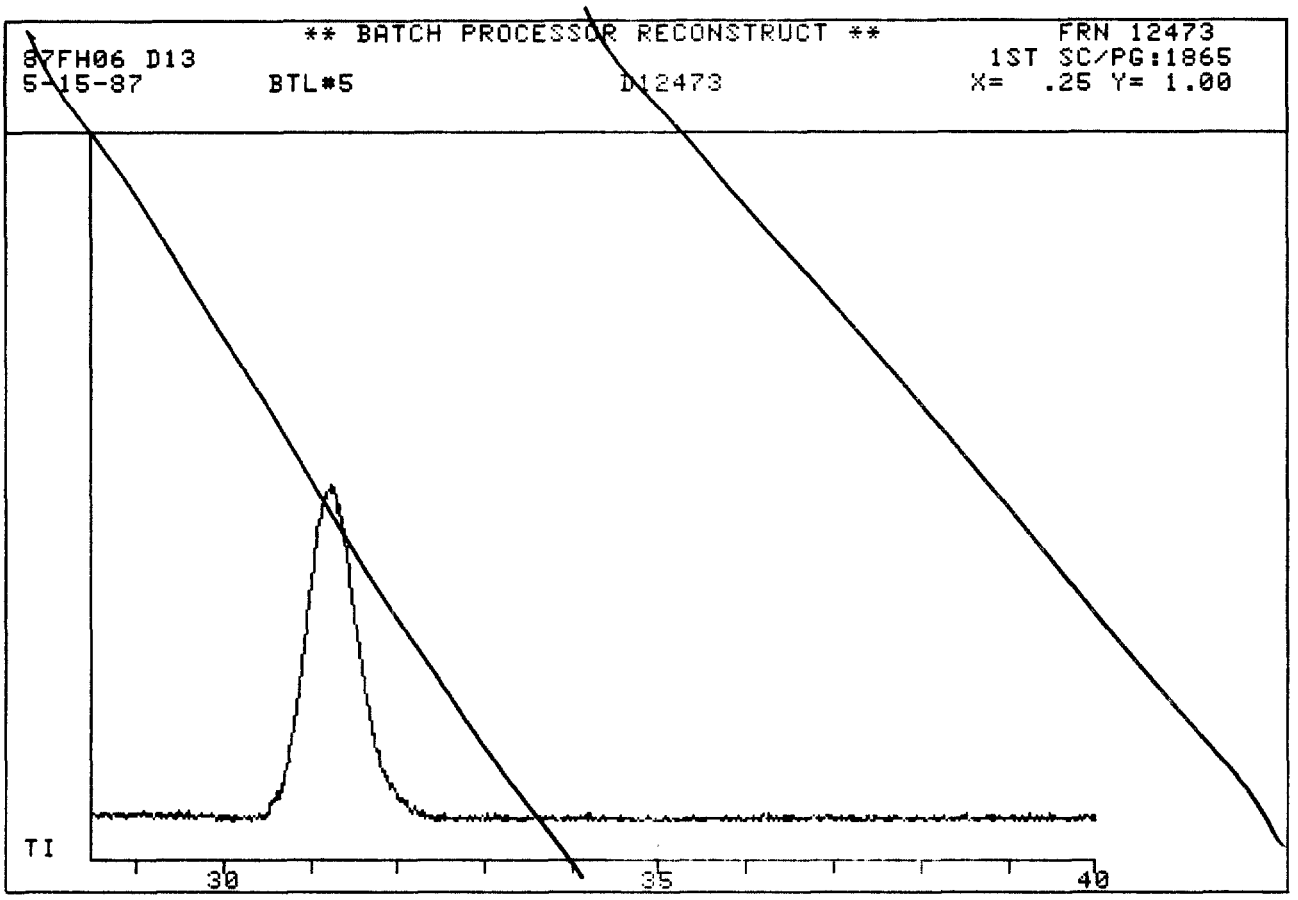
SF-3960, 87FS06 R02 1ST SC/PG:1865
5-15-87 BTL#2 D12470 X= .25 Y= 1.00

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FRN 12473
87FH06 D13
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5-15-87
BTL#5
D12473
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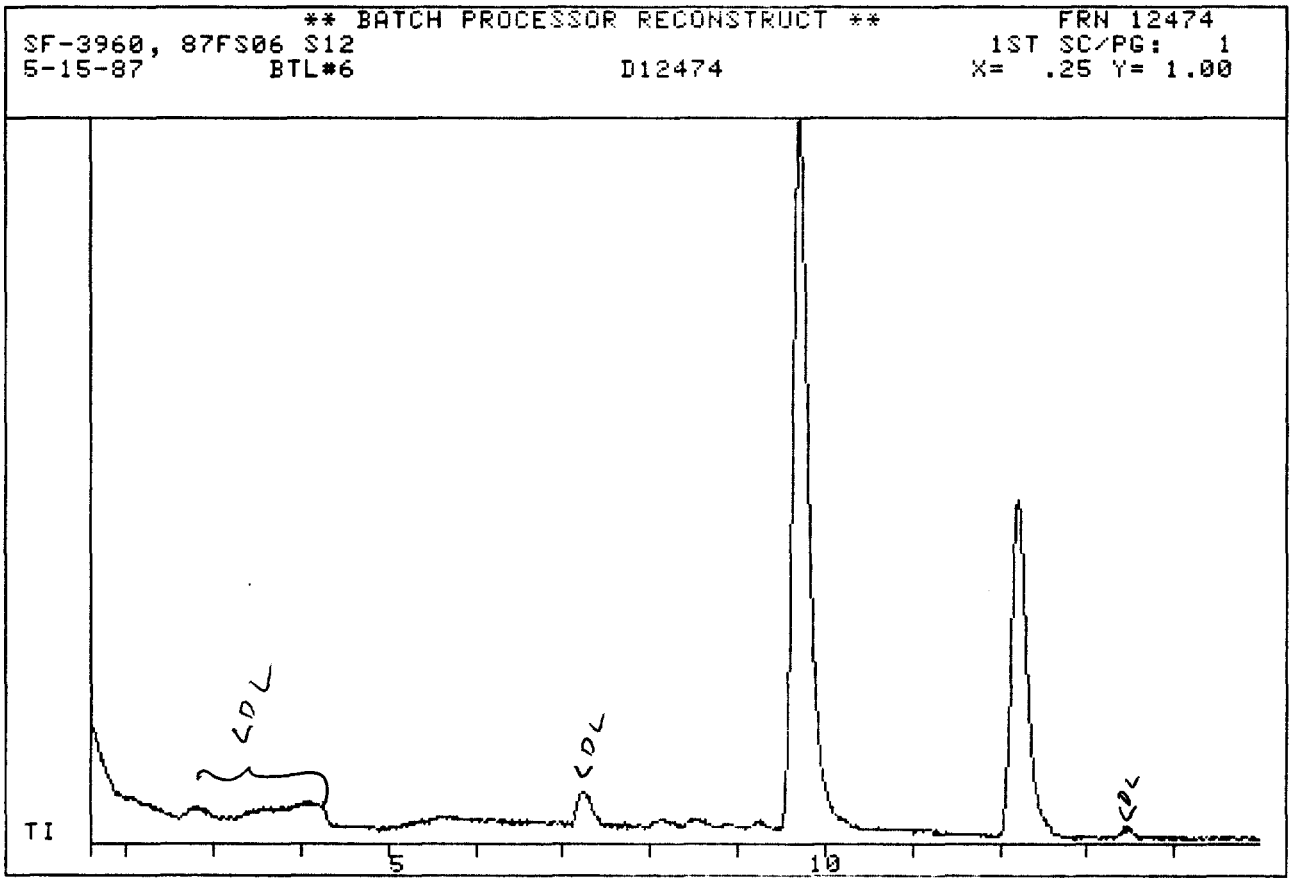
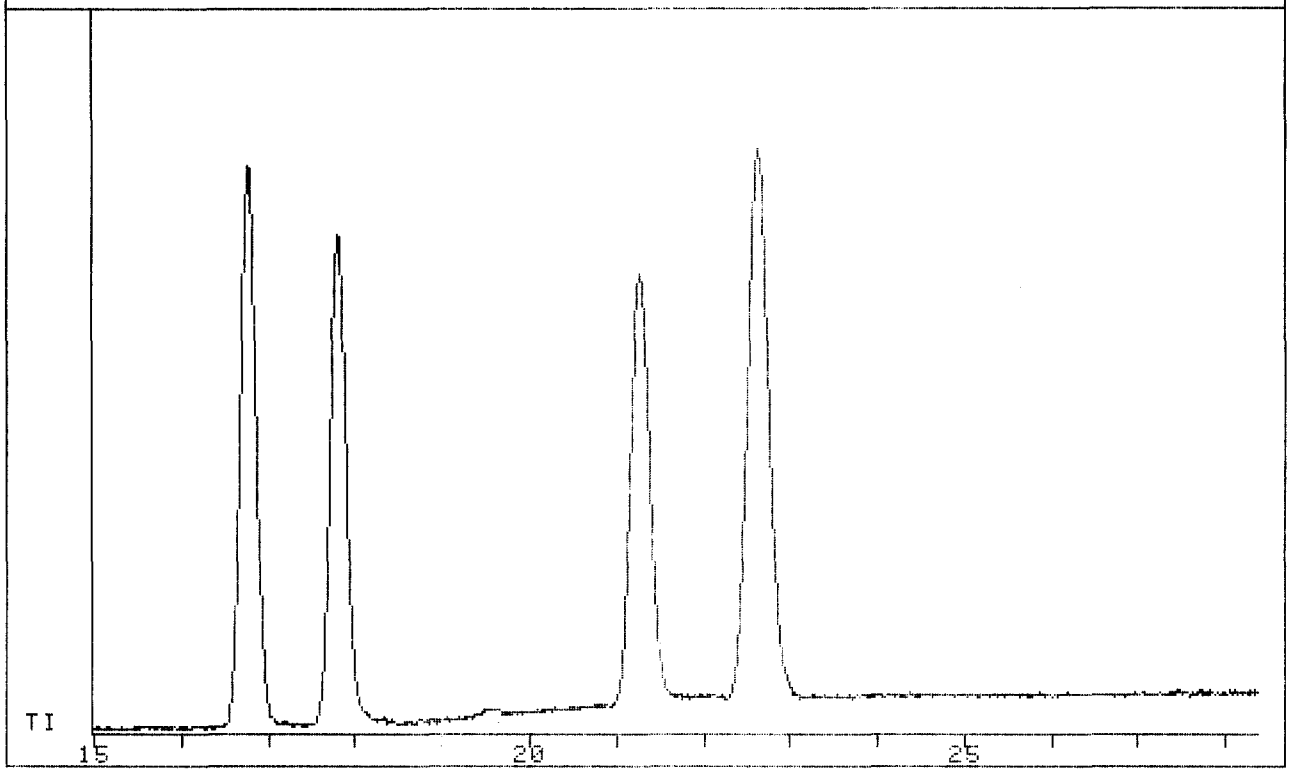
TI
30
35
40


** BATCH PROCESSOR RECONSTRUCT **
FRN 12474
SF-3960, 87FS06 S12
1ST SC/PG: 1
5-15-87
BTL#6
D12474
X= .25 Y= 1.00
LDL
LDL
LDL
TI
5
10

** BATCH PROCESSOR RECONSTRUCT ** FRN 12474
SF-3960, 87FS06 S12 1ST SC/PG: 933
5-15-87 BTL#6 D12474 X= .25 Y= 1.00



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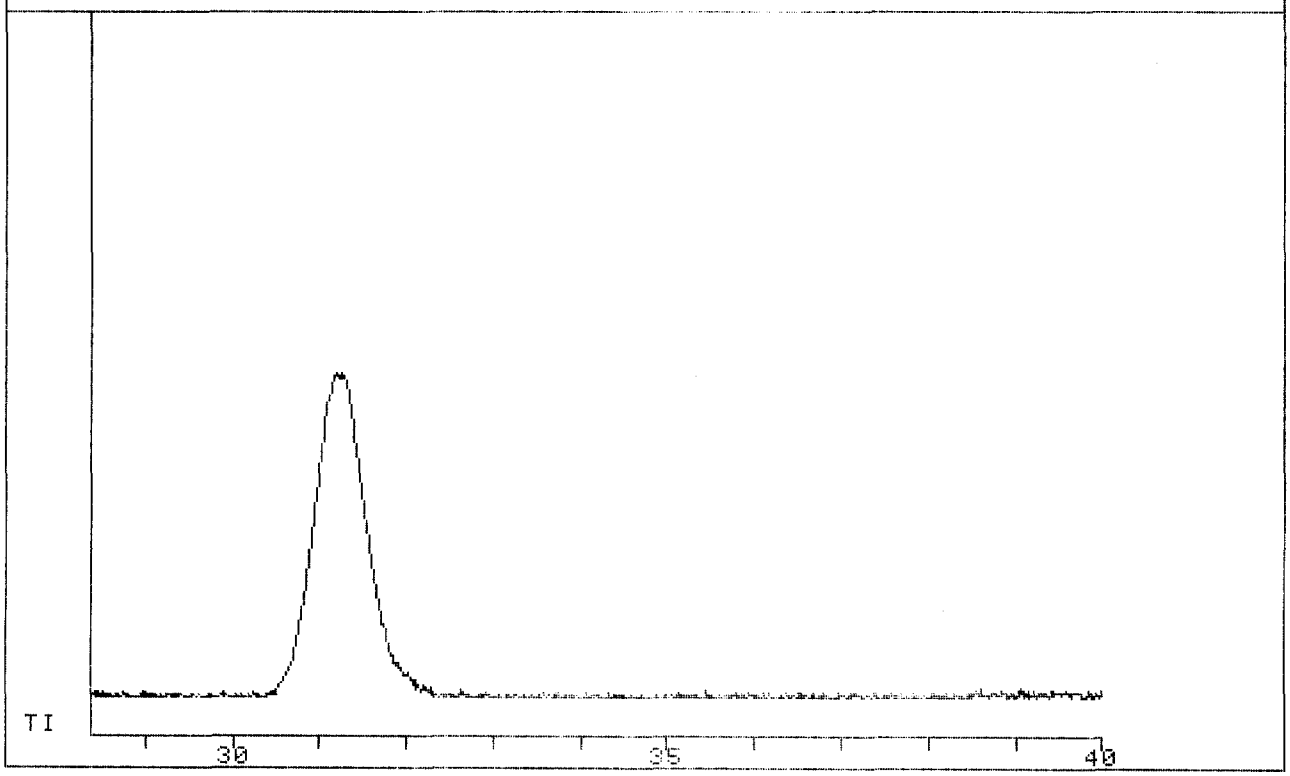
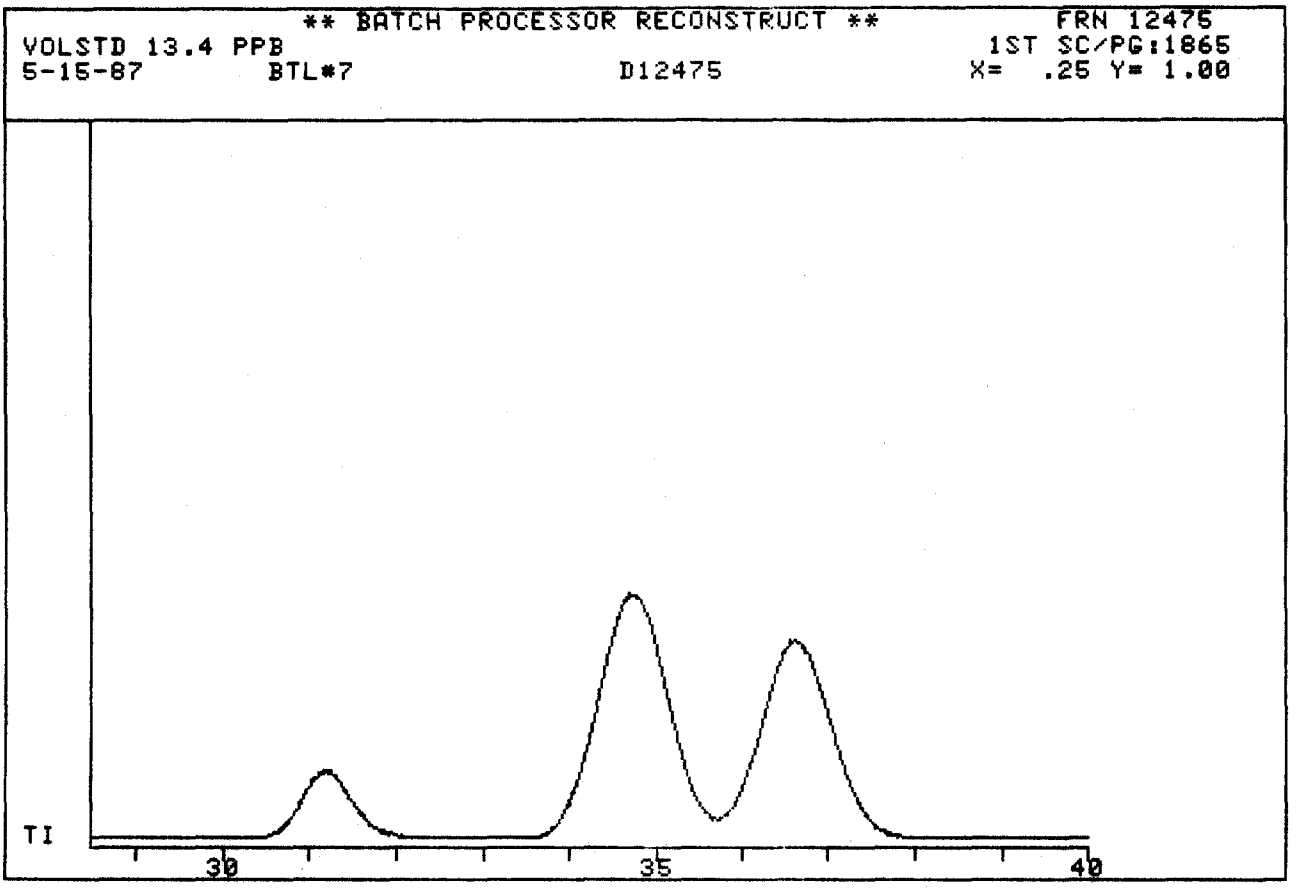
SF-3960, 87FS06 S12 1ST SC/PG:1865
5-15-87 BTL#6 D12474 X= .25 Y= 1.00

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FRN 12475
VOLSTD 13.4 PPB
1ST SC/PG:1865
5-15-87
BTL#7
D12475
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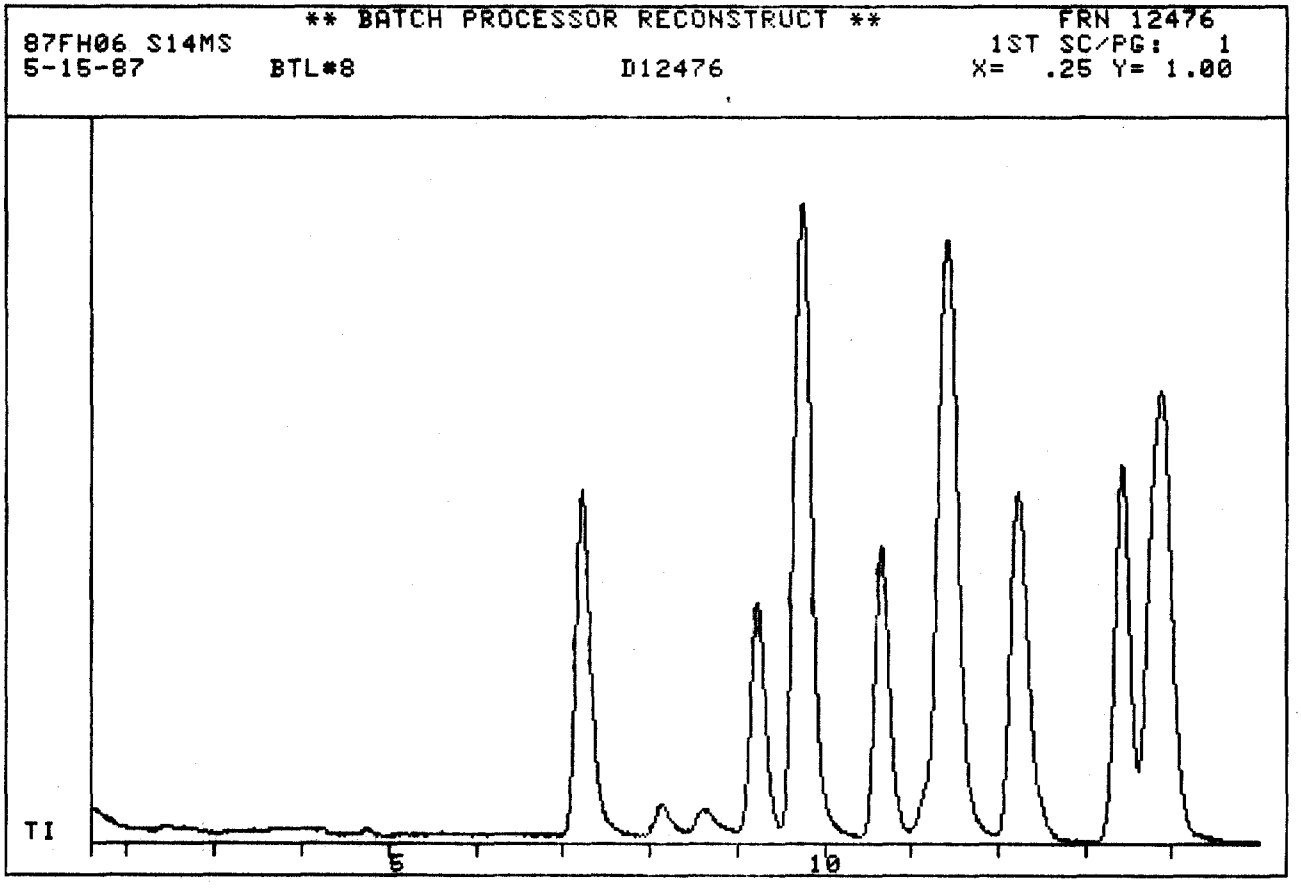
TI
30
35
40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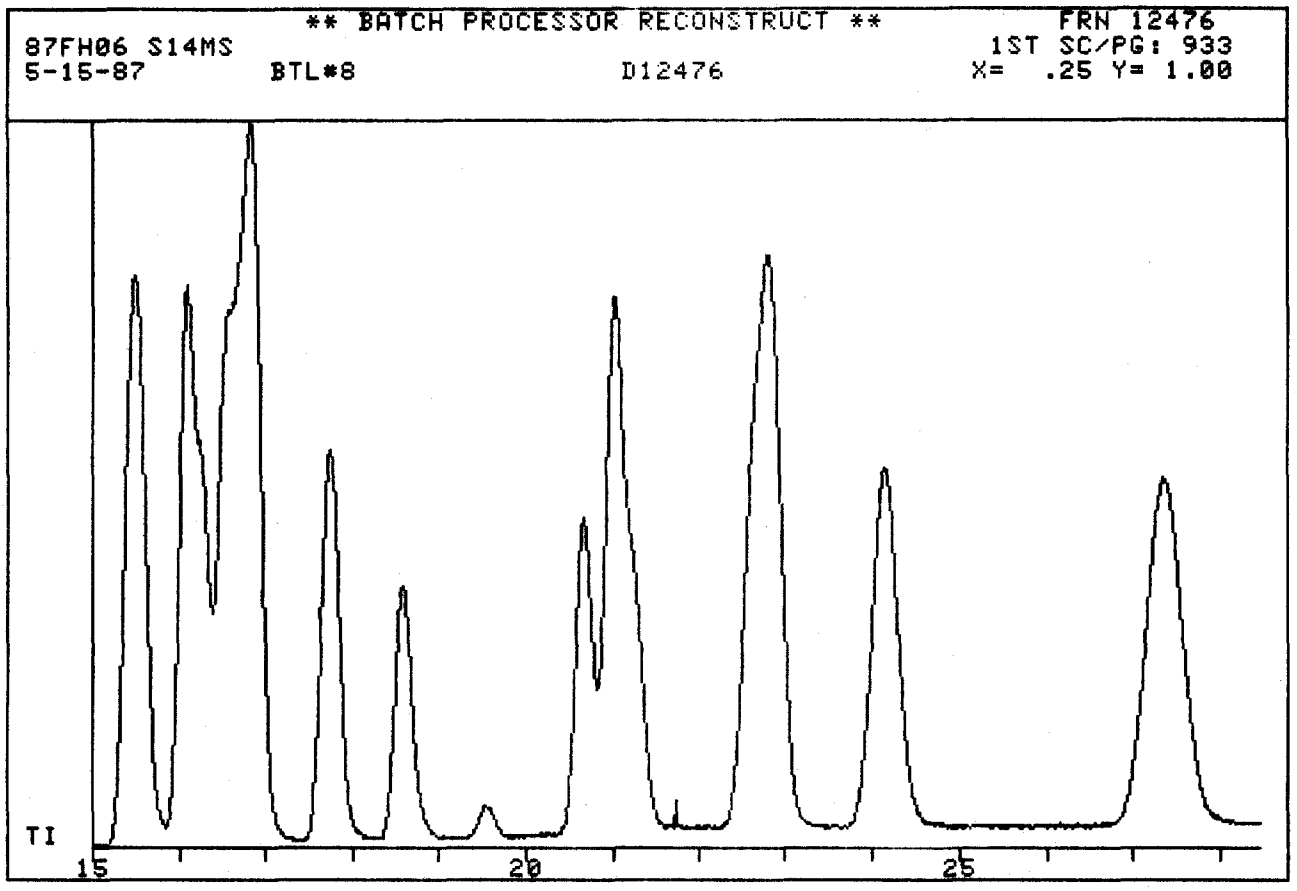
FRN 12476
87FH06 S14MS
1ST SC/PG: 1
5-15-87
BTL#8
D12476
X= .25 Y= 1.00
TI
5
10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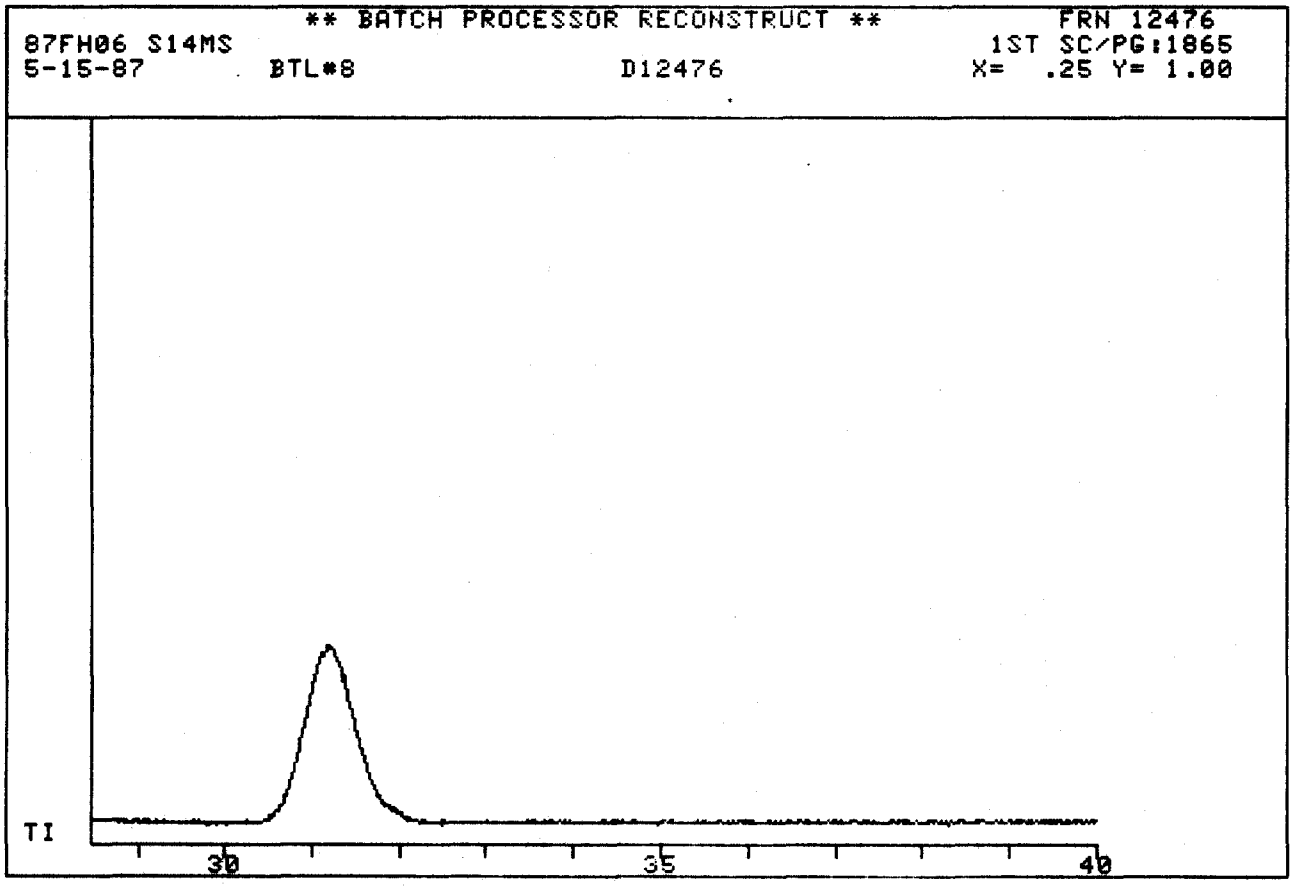
FRN 12476
87FH06 S14MS
1ST SC/PG: 933
5-15-87
BTL#8
D12476
X= .25 Y= 1.00
TI
15
20
25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FRN 12476
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1ST SC/PG:1865
5-15-87
BTL#8
D12476
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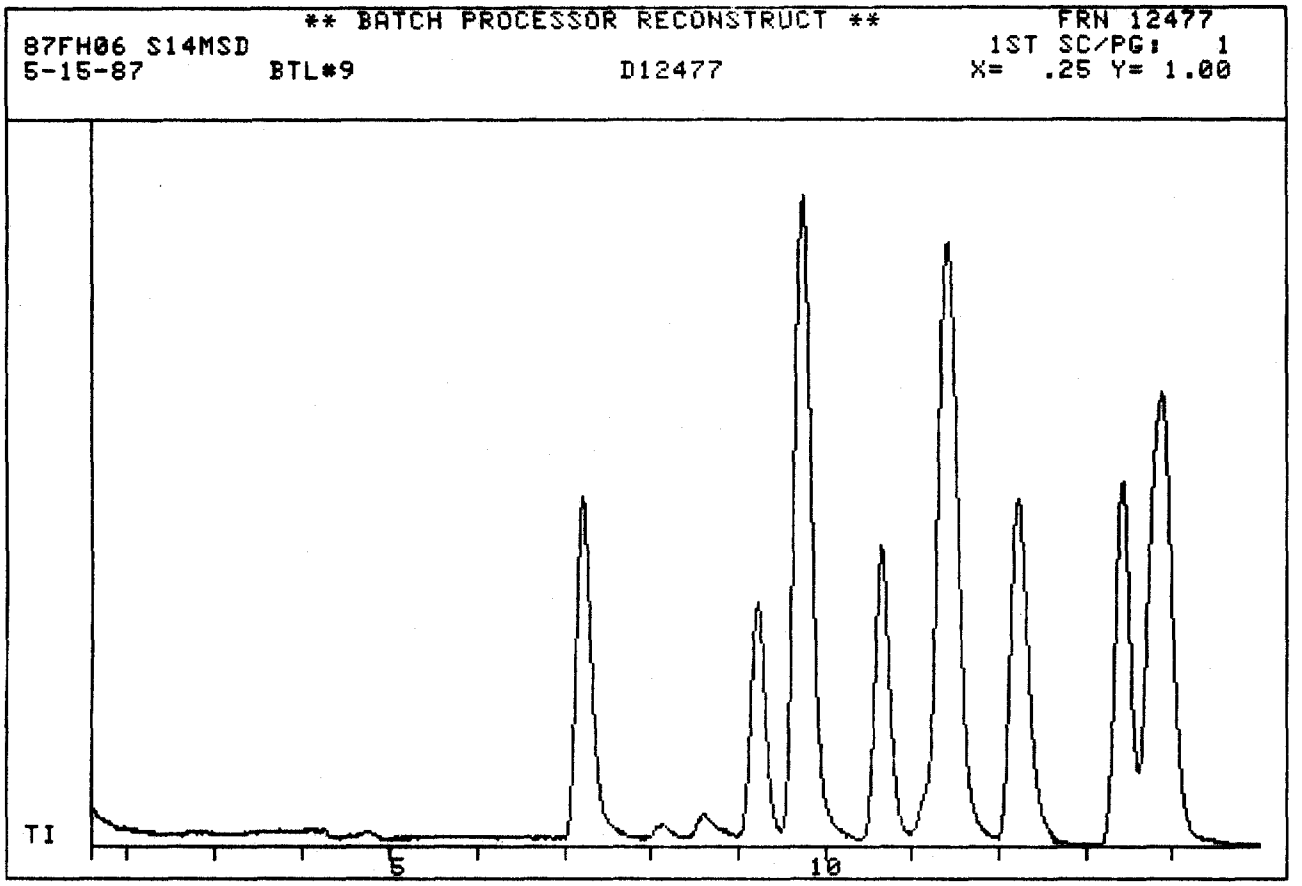
TI
30
35
40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1ST SC/PG: 1
5-15-87
BTL#9
D12477
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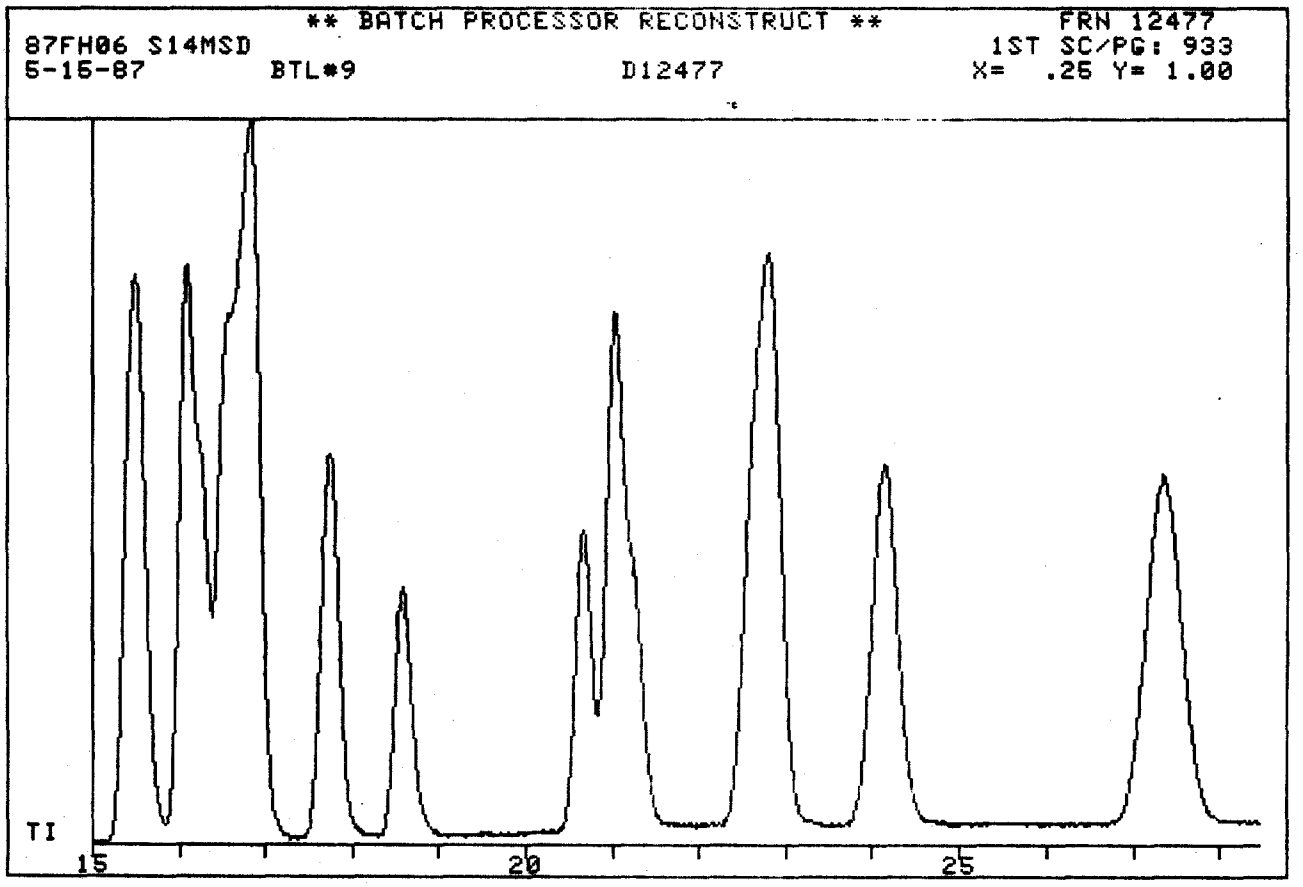
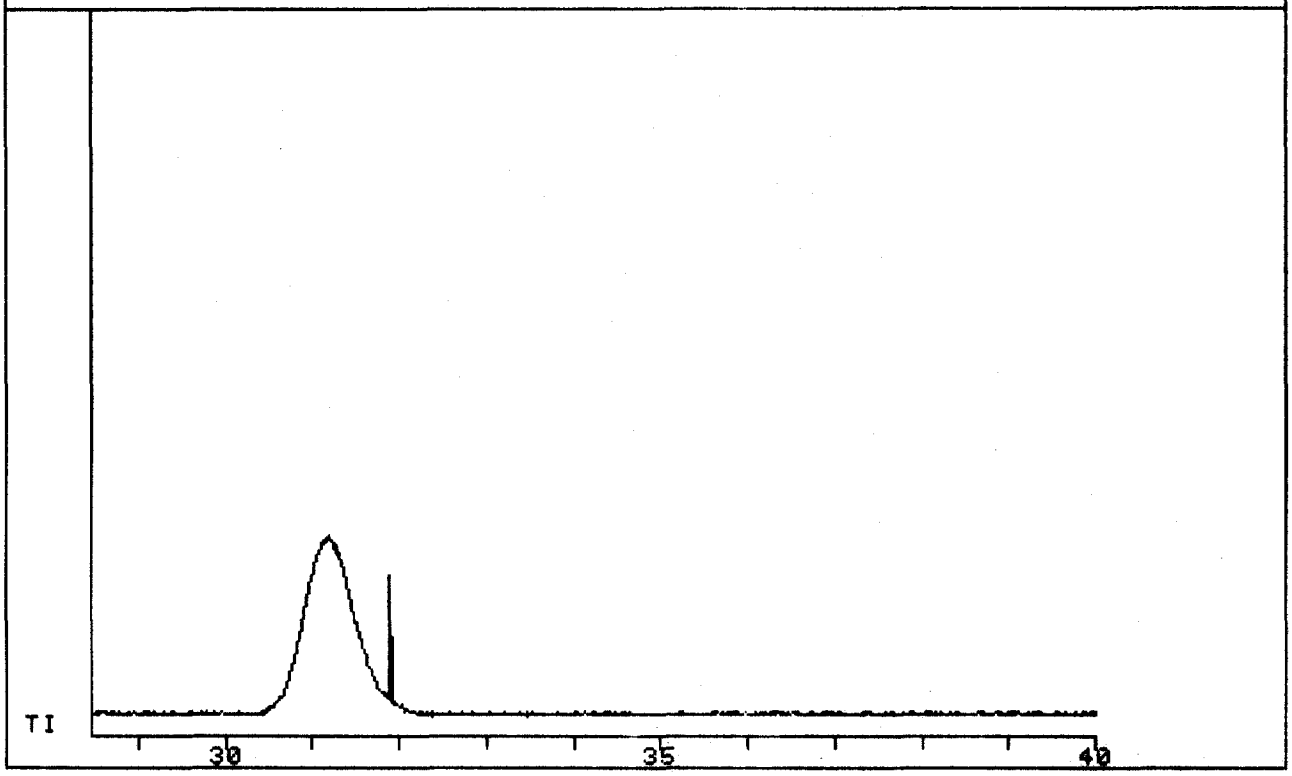
TI
5
10


** BATCH PROCESSOR RECONSTRUCT **
FRN 12477
87FH06 S14MSD
1ST SC/PG: 933
5-15-87
BTL#9
D12477
X= .25 Y= 1.00
TI
15
20
25

** BATCH PROCESSOR RECONSTRUCT **

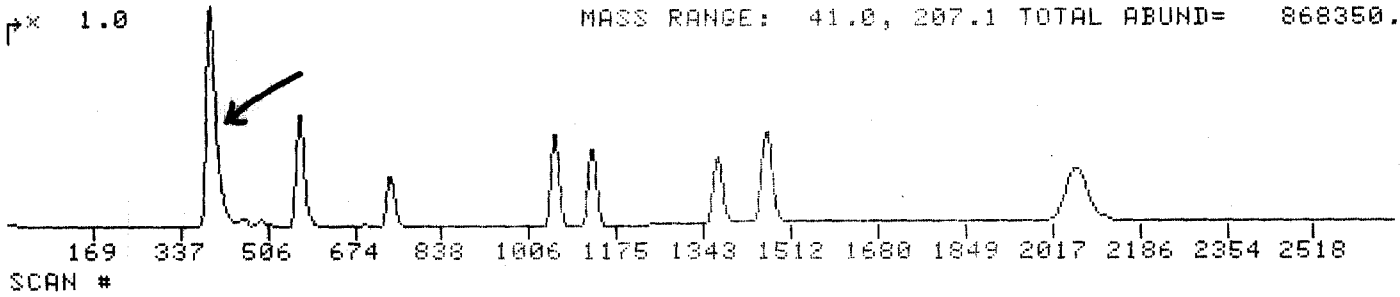
87FH06 S14MSD
5-15-87 BTL#9 D12477

FRN 12477
1ST SC/PG:1865
X= .25 Y= 1.00

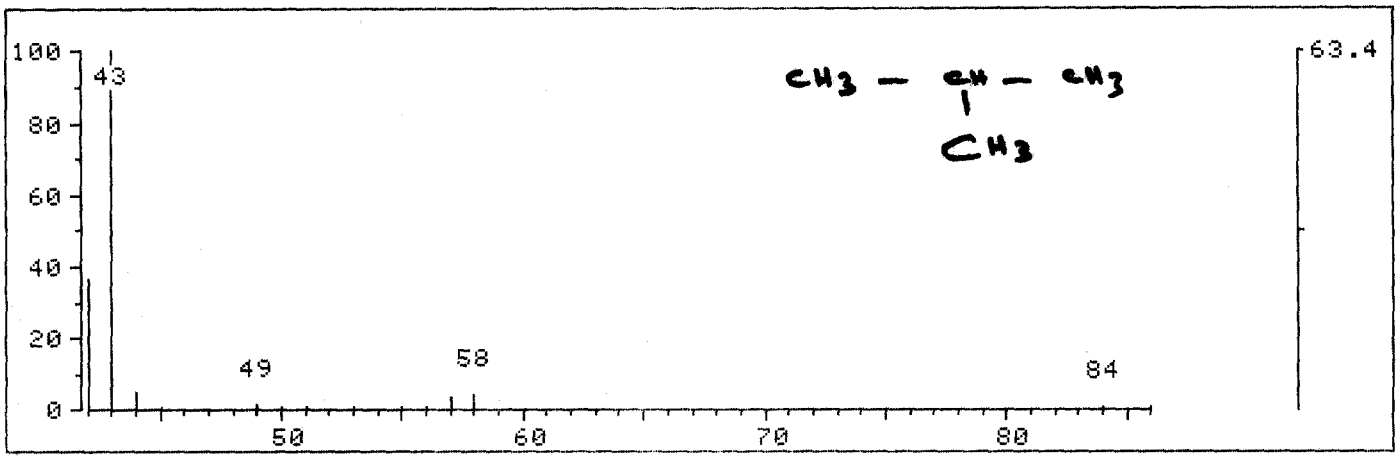


SF-3960, 87FS06 R02
5-15-87 BTL#2

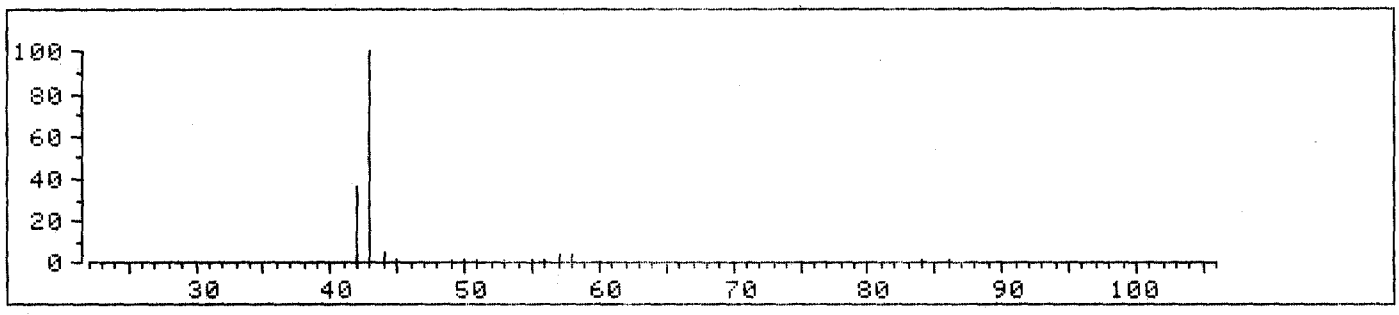
FRN 12470, CRN 9
D12470 2672 SCANS (2672 SCANS, 38.42 MINS)
MASS RANGE: 41.0, 207.1 TOTAL ABUND= 868350.

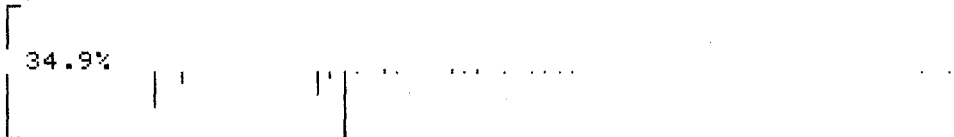


395 RET. TIME: 7.25 TOT ABUND= 6945. BASE PK/ABUND: 43.1/ 4406.

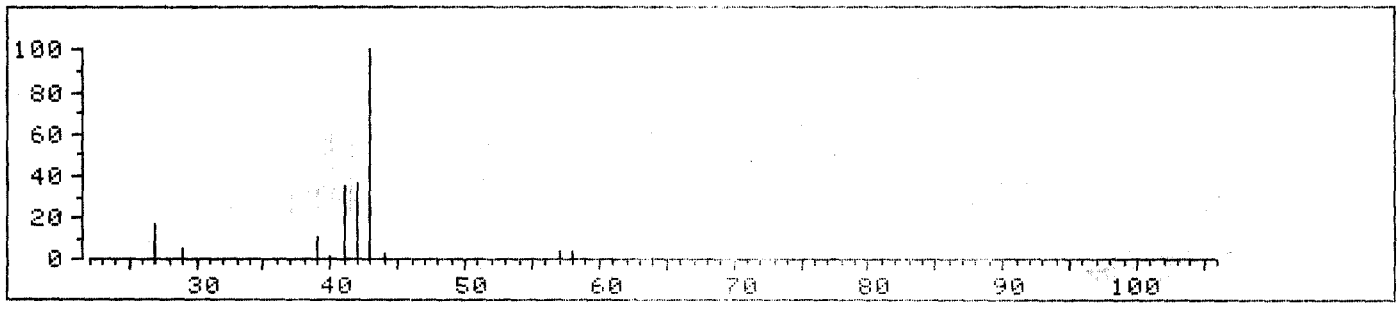


1 HIT: REFERENCE FRN 12470 SCAN 395





1 LFRN 3002 SPECT 78 MW= 58 C4H10
.9752 Propane, 2-methyl- (8CI9CI)



U.S. Environmental Protection Agency Region V

Superfund Document Management System (SDMS)

Lab Data Reference Sheet

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